

WEBVTT

1

00:00:18.800 --> 00:00:20.029

Drew Kasper: Morning.

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00:00:20.070 --> 00:00:27.530

Drew Kasper: Welcome to the new technology. Add on payment or end Tap Town Hall meeting for fiscal year, two thousand and twenty, four.

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00:00:27.660 --> 00:00:29.999

Drew Kasper: I'm. Your host drew Casper

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00:00:30.590 --> 00:00:33.340

Drew Kasper: with the division of new technology.

5

00:00:37.690 --> 00:00:48.430

Drew Kasper: Thank you all for being here with us today. This is an exciting time of year for us. We spend many hours with your applications, and it's really nice to hear from and interact with you all in our live setting.

6

00:00:48.590 --> 00:00:49.999

Drew Kasper: We began.

7

00:00:50.170 --> 00:00:59.279

Drew Kasper: I'd like to cover some basics for today's events. In the event that we experience any major technical issues you can reach out via the new tech mailbox.

8

00:00:59.580 --> 00:01:03.000

Drew Kasper: That's N. E. W. T. E. C. H.

9

00:01:11.460 --> 00:01:25.190

Drew Kasper: And many of you are already familiar with the new tech mailbox. Um. Those of you who have communicated with us through that for and have purposes you'll already know that mailbox.

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00:01:25.200 --> 00:01:34.209

Drew Kasper: We'll do our best to keep you apprised of what's happening in the event of a technical issue. If you communicate with

us through that mailbox,

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00:01:34.220 --> 00:01:37.169

Drew Kasper: the of data, volume and bandwidth it.

12

00:01:37.630 --> 00:01:53.809

Drew Kasper: Such a large group of people, the standard for today will be to not activate your video unless you are presenting presenters are welcome to activate your cameras and project video during your presentation, but otherwise we'd appreciate it. If you do not activate your cameras.

13

00:01:54.140 --> 00:02:05.090

Drew Kasper: All attendees may submit their questions, using the Q. And a feature at the bottom of the screen or by using the raise hand zoom function. You'll see a button down at the bottom for raise hand

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00:02:05.590 --> 00:02:10.790

Drew Kasper: for those of you who are only dialed in by telephone and not on a computer.

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00:02:10.979 --> 00:02:20.460

Drew Kasper: You can email your questions to us at that. Cms new Tech email box, the one I had mentioned new tech at Cms. Hhs Gov.

16

00:02:20.830 --> 00:02:29.090

Should pertain to substantial clinical improvement of the technologies being presented which we sometimes refer to as in

17

00:02:29.100 --> 00:02:30.010

Yeah, I

18

00:02:30.490 --> 00:02:36.710

Drew Kasper: as a reminder, there are three main criterion for new technology and on payment, eligibility,

19

00:02:36.760 --> 00:02:47.479

Drew Kasper: newness, cost, and substantial clinical improvement over existing services or technologies. We're here today to talk about the substantial clinical improvement criterion. Specifically.

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00:02:49.750 --> 00:02:52.480

Drew Kasper: Also, I do want to mention um.

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00:02:53.000 --> 00:03:04.579

Drew Kasper: Anyone has more generalized comments about and tab you could be welcome to email those to that mailbox as well

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00:03:05.940 --> 00:03:20.199

Drew Kasper: for him. This is consideration in the Ifs proposed rule. Public comments must be submitted to Cms. In writing via email to New Tech, at Cms. Ah. Hhs. Gov: with the subject line Town Hall comment,

23

00:03:20.580 --> 00:03:33.419

Drew Kasper: and then we'd appreciate it. If you'd include the technology name the theory of the technology associated with your comment. All comments must be received by five Pm. On Thursday, December twenty second,

24

00:03:33.910 --> 00:03:35.319

Drew Kasper: two thousand and twenty two.

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00:03:35.580 --> 00:03:43.379

Drew Kasper: Even if you raised a verbal comment during the Town hall today. You must send the written comment to ensure consideration in the proposed rule.

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00:03:44.260 --> 00:03:59.849

Drew Kasper: We have a very full agenda, so i'm going to get right into introducing our keynote speaker for this morning, Who? I would like to thank very much for taking the time to speak to us today. He's the director of the technology coding and pricing group, which is where our division tips.

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00:04:00.160 --> 00:04:02.960

Drew Kasper: Ladies and gentlemen, Mr. Jason Bennett,

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00:04:06.800 --> 00:04:12.079

Jason Bennett: Thank you, Drew. Thank you for the introduction and appreciate all of you joining us today.

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00:04:12.120 --> 00:04:29.649

Jason Bennett: I understand that this is our twentieth annual. Ah, ips in Tech Town Hall meeting, and I want to acknowledge the many years that Cms. Has been facilitating this Town Hall meeting and hearing from

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00:04:29.660 --> 00:04:37.150

applicants such as yourself in working to advance medical technology in the hospital inpatient setting

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00:04:37.290 --> 00:04:47.640

Jason Bennett: before we turn to some specific presentation. I want to just touch a little bit on how this program operates and our vision for this program,

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00:04:47.850 --> 00:05:06.049

Jason Bennett: as you know cms is committed to driving innovation to tackle our health system challenges and promote value-based person-centered care. We really are focused on the best means of our beneficiary in ensuring that beneficiaries have access to the best possible

33

00:05:06.060 --> 00:05:24.480

Jason Bennett: therapies and services that will improve their, and may help them maintain their their quality of life and their health in the settings, in their homes, and in the settings that they find themselves in any particular time,

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00:05:24.660 --> 00:05:33.070

Jason Bennett: and so that that leads us to the conversation of of Really? Why we have intap in our perspective payment system,

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00:05:33.350 --> 00:05:38.959

Jason Bennett: as you likely know, we pay for. We pay hospitals using

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00:05:38.970 --> 00:05:54.960

Jason Bennett: what are known as drgs or diagnosis-related groups. These are large bundles that are inclusive of the drugs and the devices, the biological and other aspects

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00:05:54.970 --> 00:06:04.649

that the hospital would be providing in that inpatient setting for the

treatment and care of the particular beneficiary.

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00:06:05.160 --> 00:06:23.470

Jason Bennett: What that means is that we have a lag in our data as new technologies as potentially such as those that you are um developing have come to market as our payments. Our perspective payment may not yet reflect those costs in the system.

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00:06:23.730 --> 00:06:37.769

Jason Bennett: So, as a result, we have, as Congress, provided, you know, statute the intap program which allows us a period of typically two to three years to better

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00:06:37.810 --> 00:06:43.150

Jason Bennett: develop the pricing and and cost information that we need

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00:06:43.180 --> 00:07:01.829

Jason Bennett: to to ensure that we're paying appropriately in the hospital in-patient setting. And because these bundles reflect, care. What we're really looking for is when there is a care and care, change a change to the typical standard of care or change to that care model

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00:07:01.840 --> 00:07:18.389

Jason Bennett: where the quality of the care is improving. And so that's why we focus today on substantial clinical improvement and looking to see when there are new technologies that are bringing those kinds of changes to the hospital inpatient setting,

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00:07:18.400 --> 00:07:34.389

Jason Bennett: that when hospitals choose to adopt those and and provide those services, and in care to the patients that we see them. Um! The benefit of crewing to to the beneficiary, and then that the hospital is is appropriately paid.

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00:07:35.070 --> 00:07:39.359

Jason Bennett: We're seeing a continued interest in the intap program.

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00:07:39.470 --> 00:07:58.649

Jason Bennett: There has been close to a fifty percent increase in applications from just last year, and one hundred percent increase from three years ago, and we are pleased to be hearing from. I believe

it will be twenty. One of you today in which your

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00:07:58.660 --> 00:08:13.410

Jason Bennett: device, or drug or biological is representing a potential, substantial clinical improvement based on our criteria, and we look forward to hearing those presentations and in dialogue with you today

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00:08:14.900 --> 00:08:25.139

Jason Bennett: want to acknowledge the team that is with you. Here we have a very strong team of analysts, clinicians, physicians,

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00:08:25.360 --> 00:08:27.160

Jason Bennett: epidemiologists.

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00:08:27.290 --> 00:08:36.859

Jason Bennett: We have a pharmacists and non-position practitioners as well who will be asking questions

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00:08:36.870 --> 00:08:52.690

Jason Bennett: and looking to get your input through through this process today, as well as throughout the public comment period that we have in the proposed rule and and developing our final analysis and final decision making,

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00:08:52.900 --> 00:09:06.869

Jason Bennett: We also have. This team has also been able to develop a new online format for the submission of application that we unveiled this year, and we appreciate your doing so. It really helps us to have our application

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00:09:06.880 --> 00:09:16.719

Jason Bennett: one one spot, and be able to maintain an electronic file that's related to years to your product.

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00:09:16.790 --> 00:09:36.109

Jason Bennett: It also is helping us to post more information related to the substantial clinical improvement in related to your applications overall. We think this additional public posting of information will help you share with the broader, clinical and scientific community

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00:09:36.120 --> 00:09:55.870

Jason Bennett: the advances that your device or your drug or your biological, your product, is potentially bringing to the market, and also be able to get more robust feedback from the from the public, from ah, other peers from others, in that

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00:09:55.880 --> 00:10:01.679

the clinical and scientific community about how they think your product will

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00:10:02.010 --> 00:10:20.640

Jason Bennett: perform, and and will address care in the broader setting, and we think that this is a benefit for all involved, and we appreciate your your understanding and your work in sharing information with us that that will facilitate that

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00:10:21.790 --> 00:10:23.720

Jason Bennett: one of the Uh.

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00:10:23.990 --> 00:10:34.229

Jason Bennett: Ah considerations that we would ask for you to think about is that we do have a large volume of applications as I mentioned earlier, just as we've had in the last couple of cycles.

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00:10:34.380 --> 00:10:45.879

Jason Bennett: This means that as we approach the final rule, our time becomes very focused and very precious to work on those that

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00:10:46.430 --> 00:11:04.910

Jason Bennett: have the appropriate Fda marketing authorization by the July first deadline. And so we really would ask that if you find yourself in a circumstance where, in your discussions with the food and drug administration, your product is not going to receive

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00:11:04.920 --> 00:11:17.889

Jason Bennett: the appropriate marketing authorization by July the first. And you become aware of that, we ask that you reach out and contact us and discuss potentially withdrawing the application.

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00:11:18.130 --> 00:11:34.279

Jason Bennett: Consideration. The sooner that we know that the more we

will be able to focus our resources, our time, our energies on products that may meet those standards, and that have those marketing authorization in place.

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00:11:34.290 --> 00:11:48.159

Jason Bennett: It also allows us to spend additional time and additional resources looking at other areas of responsibility, whether that's in the hospital, outpatient setting or advanced diagnostic laboratory tests

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00:11:48.170 --> 00:12:07.200

Jason Bennett: in stage renal disease or other areas where there's new and emerging technology that warrant a product review or some additional policy thinking in consideration. And so we we appreciate your recognition of

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00:12:07.250 --> 00:12:24.989

Jason Bennett: the the the value of the time of the the team that is here with you today. We certainly want to make sure that we give full consideration to all products; that we will have a a marketing authorization by July first,

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00:12:25.000 --> 00:12:41.450

Jason Bennett: and for those that may not be able to reach that that date this year that we can can try to focus as effectively as we can than on on our other work.

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00:12:42.110 --> 00:12:57.789

Jason Bennett: So with that we we do look forward to engaging with you all today on the clinical merits of the application, and welcome your questions as well as your comments on how this process is going, and I look forward to the continued engagement

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00:12:57.800 --> 00:13:10.809

Jason Bennett: throughout this fiscal year rule-making cycle, and also on a personal that want to wish you a happy New Year. And as Stephen's greetings as we enter that that part of our year

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00:13:10.930 --> 00:13:13.949

Jason Bennett: with that drew, i'll turn it back over to you.

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00:13:16.080 --> 00:13:18.219

Drew Kasper: Thank you very much, Jason,

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00:13:19.510 --> 00:13:23.109

for your remarks, and for taking the time to be with us here today,

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00:13:24.310 --> 00:13:35.180

Drew Kasper: we will have an opportunity for public comments related to each technology being considered for a new technology. Add on payments after each presentation throughout the day.

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00:13:35.650 --> 00:13:41.550

Drew Kasper: But we'll begin today with public comments from Mr. Richard Christ from Adzanet

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00:13:42.330 --> 00:13:45.420

Drew Kasper: Price. You may now unmute your mic.

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00:13:48.730 --> 00:14:00.080

Richard Price: Well, thank you very much, Drew. And good morning, everyone. Um, Richard Wright, Senior Vice President Um, in the payment and healthcare Delivery department at Athens,

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00:14:00.230 --> 00:14:02.310

Richard Price: and um

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00:14:03.400 --> 00:14:19.069

Richard Price: for those of you who do not know. Ah! Adrim is an association of member companies who produce on the medical devices, diagnostic products and health information systems

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00:14:19.080 --> 00:14:28.180

Richard Price: that are transforming health care through earlier detection, less invasive procedures and more effective treatments.

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00:14:28.200 --> 00:14:40.249

Richard Price: I want to begin my comments by first expressing our appreciation to speak today briefly about our recommendations for and-tap process improvements.

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00:14:40.260 --> 00:14:55.240

Richard Price: Ah, we also want to. Ah, thank the Cms for responding to several of the recommendations and issues we have brought to these Town Hall meetings over the past several years.

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00:14:55.490 --> 00:15:10.759

Richard Price: We come today with five and tap process improvement recommendations which I will briefly summarize, and I have already submitted a more complete discussion of these issues for your consideration

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00:15:10.860 --> 00:15:12.560

Richard Price: our first recommendation

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00:15:12.900 --> 00:15:32.520

Richard Price: and tap permits Fda approved or cleared follow-on products to qualify for ah add on payment, provided the follow-on product uses a mechanism of action substantially similar to the approved applicant's mechanism of action.

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00:15:32.530 --> 00:15:40.250

Richard Price: And the Icd ten procedure code accurately describes the Far-on technology

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00:15:40.520 --> 00:15:47.939

Richard Price: aimed asks that cms issue sub-regulatory guidance

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00:15:47.980 --> 00:15:57.760

Richard Price: to clarify the criteria for a product to qualify for and tap as a follow-on technology under the traditional and tab pathway

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00:15:57.770 --> 00:16:10.880

Richard Price: this would apply to all technologies under the traditional pathway, including technologies with digital components, such as artificial intelligence and algorithms

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00:16:11.120 --> 00:16:17.690

Richard Price: manufacturers and hospitals need objective criteria to assess the materiality

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00:16:17.700 --> 00:16:22.210

Richard Price: of those distinctions for n-tab applicability,

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00:16:22.220 --> 00:16:29.980

Richard Price: and whether the technology falls within a particular Icd Ten Pcs code,

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00:16:29.990 --> 00:16:47.730

Richard Price: rather than establish a formal application or approval process for follow-on products. We ask that Cms. Of Cms issue guidance for stakeholders to mitigate ambiguity and enhance access to innovative technologies.

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00:16:47.790 --> 00:16:49.880

Richard Price: Our second recommendation

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00:16:49.890 --> 00:17:06.299

Richard Price: adamant believes that cms could provide more flexibility under the N-tab process than it does currently for n-tab applications that do not receive fda approval by July first of a given year

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00:17:06.410 --> 00:17:24.379

Richard Price: under current regulations. As you heard Mr. Bennett refer to. If an applicant's product does not receive Fda approval by July, there is no opportunity for that product to receive and tap

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00:17:24.390 --> 00:17:32.930

Richard Price: until the subsequent fiscal year. Thus, if a product that would otherwise meet the requirements for entail

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00:17:33.040 --> 00:17:34.290

Richard Price: um

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00:17:34.610 --> 00:17:45.930

Richard Price: ah! Does not receive Fda approval until shortly after July the first, and here we specifically suggest

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00:17:46.420 --> 00:17:59.120

Richard Price: any time during July or August the product will be ineligible for n-tab payments until October of the following year, and another n-tab application is required,

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00:17:59.130 --> 00:18:03.899

Richard Price: as in that believes the July. The first deadline can be extended

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00:18:03.910 --> 00:18:22.229

Richard Price: until September first, to allow Cms. To make a file determination on and tap applications where Fda approval is not received until after on July. But sometime in July or August until September First,

101

00:18:22.270 --> 00:18:30.370

Richard Price: we've had companies in this situation. That's why we bring this recommendation to you for consideration.

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00:18:30.420 --> 00:18:39.540

Richard Price: While Cms. Would not use the Ips's final rule published by August the first to make an n-tap determination

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00:18:39.550 --> 00:18:55.559

Richard Price: on the applicant's new technology. It could supplement the Ips final rule with an additional final rule or notice published sometime prior to the October first beginning of the fiscal year.

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00:18:56.470 --> 00:18:58.440

Richard Price: Our third recommendation,

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00:18:58.450 --> 00:19:12.709

Richard Price: Avamet, has supported Cms's conditional and tap approval, alternative pathway for add on payments or certain antimicrobial products that do not receive Fda approval by July first.

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00:19:12.720 --> 00:19:23.760

Richard Price: These products receive conditional approval for Intel, the quarter following Fda approval. If it occurs after the July first deadline.

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00:19:23.900 --> 00:19:40.769

Richard Price: Avphabet believes this conditional approval pathway should be extended to all technologies that have been approved or cleared by Fda through the breakthrough device program and not limited

to antimicrobial products.

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00:19:40.780 --> 00:19:55.780

Richard Price: These breakthrough technologies fill critical needs for Medicare beneficiaries, just as microbial products do cms stated in previous rule, making that the agency would consider

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00:19:55.790 --> 00:20:01.599

Richard Price: expanding the policy, as they gained experience with conditional approval

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00:20:01.610 --> 00:20:15.500

Richard Price: of n-tap for antimicrobial products. We believe that Cms. Has had sufficient time to evaluate conditional approval that it has been successful.

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00:20:15.510 --> 00:20:22.579

Richard Price: Ensuring Medicare beneficiaries have access to these technologies as soon as possible.

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00:20:22.590 --> 00:20:39.179

Richard Price: Innovative breakthrough approved devices should not have to weigh over a full year to reapply for intap because they fail to obtain Fda approval by the current jurisdictions. Our fourth recommendation,

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00:20:39.720 --> 00:20:54.429

Richard Price: current Federal regulations provide an alternative streamline pathway for Ah! And tap approval for drugs designated by the Fda as qualified infectious disease products

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00:20:54.440 --> 00:21:04.589

Richard Price: or approved by Fda under the limited population pathway for antimicrobial and anti-fungal drugs program.

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00:21:04.790 --> 00:21:09.570

Richard Price: The n-tap program singles out these products for special treatment

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00:21:09.580 --> 00:21:14.540

Richard Price: in recognition. Of their importance to the health of

medicare beneficiaries

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00:21:14.800 --> 00:21:32.040

Richard Price: on the same premise we ask Cms to extend similar special treatment to New Ivds used to assist in detection and diagnosis of serious life, threatening infections and appropriate treatment for them.

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00:21:32.070 --> 00:21:45.410

Richard Price: The Covid, nineteen pandemic, has highlighted the critical importance of diagnostic tests for public health in identifying and mitigating the spread of infectious diseases,

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00:21:45.420 --> 00:22:01.599

Richard Price: and the same incentives that exist for treatment of infectious disease should extend to the products used to detect and diagnose infectious disease and identify appropriate treatments,

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00:22:01.630 --> 00:22:03.910

Richard Price: and our final recommendation

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00:22:04.080 --> 00:22:22.800

Richard Price: fathomed has applauded Cls's decision to increase the add-on payments for approved and Tap um to sixty five percent of the difference between the standard Msdrgr Payment and the cost of the procedure. With the new technology.

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00:22:22.810 --> 00:22:34.590

Dr. James Boron: However, we continue to believe that the add on payment level for approved end tasks should be increased to eighty percent or at a minimum to the seventy five percent level

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00:22:34.600 --> 00:22:46.940

Richard Price: Cms provides to medical products designated as Qidp or approved under the lpad pathway that I referenced above

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00:22:47.020 --> 00:22:52.800

Richard Price: our concern is that hospitals find the sixty five percent, add-on payment

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00:22:52.810 --> 00:23:08.769

Brenda Hudson: insufficient to cover the cost, of using the new technologies with their having to absorb the thirty five percent of the cost of the new technology not being covered by.

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00:23:08.780 --> 00:23:23.589

Richard Price: We believe that this higher level would mitigate these losses. Further encourage adoption of new technologies by hospitals, and continue to provide incentives for hospitals to act as food producers.

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00:23:23.600 --> 00:23:31.289

Richard Price: And with that we thank you again for this opportunity to comment, and i'll turn it back to you, Drew.

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00:23:36.380 --> 00:23:39.969

Drew Kasper: Okay, Thank you very much for your comments, Mr. Price.

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00:23:41.380 --> 00:23:45.119

Drew Kasper: Is there anyone else that would like to give public comments

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00:23:50.900 --> 00:23:53.559

Drew Kasper: anything in the Q. A.

131

00:23:56.340 --> 00:23:59.219

Drew Kasper: Not seeing anything in the new tech mailbox.

132

00:24:07.650 --> 00:24:10.760

Drew Kasper: I don't see any raised hands.

133

00:24:14.090 --> 00:24:15.320

Okay.

134

00:24:20.100 --> 00:24:24.200

Drew Kasper: A reminder for all attendees. When you submit

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00:24:24.330 --> 00:24:29.889

Drew Kasper: the questions, using the two and a feature at the bottom of the screen, or you can use the raise hand feature in zoom,

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00:24:29.900 --> 00:24:38.509

and we will either unmute you, or if you are a participant responsible for managing your own new function,

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00:24:38.520 --> 00:24:57.620

Drew Kasper: then you could unmute yourself at that time those who are dialed in by telephone. You may email your requests. That is, those who are dialed in by telephone only. So not on the computer. You can email your requests to the new tech mailbox at New Tech, at Gms. Hhs. Go.

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00:24:58.220 --> 00:25:12.690

Drew Kasper: We will now move on to fiscal year, twenty, twenty, four, and tap application presenters. I'd like to remind the presenters that we've allotted exactly ten minutes for each presentation, after which we'll have questions from the public,

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00:25:12.820 --> 00:25:16.449

Drew Kasper: then from Cms, with responses from presenters.

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00:25:16.560 --> 00:25:19.849

Drew Kasper: Ms. Will advance the slides for each presentation

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00:25:20.050 --> 00:25:24.189

Drew Kasper: presenters should indicate when to advance to the next slide,

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00:25:25.660 --> 00:25:28.859

Drew Kasper: and we'll now hear from presenters

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00:25:29.180 --> 00:25:34.290

Drew Kasper: for the glorified and the the application. You may now unmute your phone.

144

00:25:36.280 --> 00:25:47.499

Dr. Michael Dickinson: Hello, everyone. My name is Michael Dickinson. I'm, a hematologist at Peter Mccallum Cancer Centre and Royal Melbourne Hospital in Melbourne, Australia, and I'm. Presenting on glo fitomap.

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00:25:47.600 --> 00:25:49.460

Dr. Michael Dickinson: Next slide, please.

146

00:25:49.670 --> 00:25:59.829

Dr. Michael Dickinson: Glyphetamab is a t cell engaging by specific antibody with a novel two to one structure that is efficacious and has a manageable safety profile.

147

00:25:59.840 --> 00:26:13.210

Dr. Michael Dickinson: And here we are using it for treatment of patients with relapsed and refractory to fuselage b cell lymphoma, who have received at least two prior systemic therapies. Next slide, please

148

00:26:13.770 --> 00:26:19.910

Dr. Michael Dickinson: diffuse large b cell Lymphoma is the most common form of non-hodgkin lymphoma in America.

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00:26:20.150 --> 00:26:28.110

Dr. Michael Dickinson: It is an aggressive and rapidly progressive disease that involves the malignant proliferation of B. Lymphocytes.

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00:26:28.410 --> 00:26:34.160

Dr. Michael Dickinson: It is predominantly a disease of older people with a Median age of sixty six.

151

00:26:35.260 --> 00:26:46.719

Dr. Michael Dickinson: The rate of new cases in the United States is five point six, one one hundred thousand people per year, and the death rate is one per one point. Eight one hundred thousand people per year.

152

00:26:47.100 --> 00:27:03.340

Dr. Michael Dickinson: The five-year relative survival of sixty, four point six and the incidence of diffusage visa lymphoma is projected to increase by eleven percent from two thousand and twenty to two thousand and twenty five, because of the aging population

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00:27:03.350 --> 00:27:09.159

Dr. Michael Dickinson: and the underlying high incidence rate of diffuse large-based lymphoma in older people.

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00:27:09.440 --> 00:27:20.759

Dr. Michael Dickinson: This application focuses on diffuse large bs lymphoma, where patients have received two prior lines of therapy, which is a cohort of substantial, unmet clinical need.

155

00:27:20.860 --> 00:27:22.539

Dr. Michael Dickinson: Next slide, please.

156

00:27:24.670 --> 00:27:41.159

Dr. Michael Dickinson: Most patients with diffuse large vesselymphoma are cured with their first therapy, but approximately forty percent of patients are not, and from here on in the prognosis is poor. A proportion of patients will have disease that is refractory for online therapy,

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00:27:41.170 --> 00:27:53.430

Dr. Michael Dickinson: while others will relapse typically in the first two years standard therapy for patients with their first relapse is either autologous stem cell transplantation, or chimeric antigen receptor T. Cells.

158

00:27:53.440 --> 00:28:07.069

Dr. Michael Dickinson: I mentioned earlier that this is a disease of older patients. And so it goes That autologous stem cell transplantation which requires very intensive chemotherapy, is often not deliverable to a patient with relapse Disease,

159

00:28:07.080 --> 00:28:26.129

Dr. Michael Dickinson: chimeric antigen receptor t cells require specialised treatment. Centers may have long wait times for evaluation and manufacturing, and may require patient travel and these factors, taken together, can limit the applicability of this treatment to a significant proportion of patients with relapsed disease.

160

00:28:26.180 --> 00:28:41.030

Dr. Michael Dickinson: The Median survival of patients who receive a second line of treatment has been estimated to be as low as ten to twelve months, while those who require a third line of treatment have a Median survival of four to six months.

161

00:28:41.120 --> 00:28:42.819

Dr. Michael Dickinson: Next slide, please.

162

00:28:44.880 --> 00:28:59.999

Dr. Michael Dickinson: There are drugs available for patients who have relapsed to fuselage v. Cell lymphoma, but these have been evaluated in populations that may not address the area of need, and have largely been evaluated before the era of car T cells,

163

00:29:00.010 --> 00:29:05.330

Dr. Michael Dickinson: or in populations where few patients have received autologous stem cell transplantation,

164

00:29:05.870 --> 00:29:13.540

Dr. Michael Dickinson: taphysitomay, lenolidomide is a long-term treatment that has a moderate rate of treatment discontinuation due to toxicity

165

00:29:13.590 --> 00:29:28.260

Dr. Michael Dickinson: polituzamab bender and must bend. A mustine and retoxmap is active, but may cause peripheral neuropathy, while Selenix or and longhous Tuxamand Teserine have complete remission rates that to my mind are lower than ideal.

166

00:29:28.540 --> 00:29:30.269

Dr. Michael Dickinson: Next slide, please

167

00:29:31.520 --> 00:29:44.829

Dr. Michael Dickinson: car t cells do induce a favorable complete remission rate, but they have important limitations. This treatment requires custom manufacturing for each patient and delivery in a specialized treatment center.

168

00:29:45.110 --> 00:30:00.189

Dr. Michael Dickinson: There are bottlenecks for patients who wish to access cartes, especially for those whose current treatment is not in a carte treatment centre. The process of referral and review may require a weight as well as significant travel, for some patients

169

00:30:00.200 --> 00:30:12.720

Dr. Michael Dickinson: cell collection and manufacturing slots may also require a weight, and manufacturing takes weeks. Such delays for treatment can place a patient with this aggressive disease at risk of progression.

170

00:30:12.870 --> 00:30:31.279

Dr. Michael Dickinson: Added to that car t cells have significant toxicities. You can see in this table that the rate of cytokine release syndrome for one product is more than ninety percent, and the rate of severe neurologic toxicity which may require an intensive nursing environment, can be as high as a third.

171

00:30:31.560 --> 00:30:44.629

Dr. Michael Dickinson: These toxicities need to be managed in specialist treatment centres which require a patient to be in, but hospitalised, or within an hour of the hospital for a month, which may mean relocation of the for treatment.

172

00:30:44.640 --> 00:31:03.319

Dr. Michael Dickinson: Twelve States have no available carte sites, and these issues that significantly limit the applicability of this technology. So, taken together, there's a significant need for new options, with rapid accessibility, higher complete remission rates, and a management a manageable safety profile.

173

00:31:03.330 --> 00:31:04.939

Dr. Michael Dickinson: Next slide, please

174

00:31:05.940 --> 00:31:15.710

Dr. Michael Dickinson: buffetimab is an off-the-shelf t cell engaging by a specific antibody that is unique from others due to its potency-increasing, two-to-one structure,

175

00:31:15.720 --> 00:31:29.199

Dr. Michael Dickinson: meaning that it binds two cd twenty molecules on the surface of B cells, one cd three molecule or the surface of T cells leading to c. Cell activation, proliferation and lymphoma cell death

176

00:31:29.390 --> 00:31:36.910

Dr. Michael Dickinson: where fitimab has a long half-life and importantly it's been developed with a fixed duration treatment schedule.

177

00:31:37.050 --> 00:31:45.570

Dr. Michael Dickinson: Glyphidimab will be used to treat patients with

relapse and refractory. Diffuse large cell lymphoma, who have progressed after two prior lines of therapy

178

00:31:45.600 --> 00:31:47.370

Dr. Michael Dickinson: next slide, please.

179

00:31:48.810 --> 00:31:58.550

Dr. Michael Dickinson: The Dose Expansion Study of Gelfidamab included patients with various forms of diffuse large cell Lymphoma, who had received at least two prior therapies

180

00:31:58.660 --> 00:32:17.599

Dr. Michael Dickinson: for mitigation of cytokine release syndrome. The Anti, cd Twenty antibody of inner Tusa may is given as a single flat dose for the first site, and the target dose of Gelfidamab. Thirty milligrams is reached in two steps, separated by a week, where Gelfidamab is delivered intravenously,

181

00:32:18.100 --> 00:32:30.430

Dr. Michael Dickinson: where fit a map is given every three weeks for a fixed course, twelve cycles, or just under, but every three weeks for a fixed course of twelve cycles, which takes us to just under nine months of treatment,

182

00:32:30.800 --> 00:32:47.339

Dr. Michael Dickinson: because complete remission is a prerequisite for cure. In this aggressive lymphoma our primary endpoint was complete response, determined by an independent committee and the study was powered to show an improvement against a historical control.

183

00:32:47.640 --> 00:33:07.050

Dr. Michael Dickinson: This trial there are three minutes remaining. This trial included a heavily treated population that reflects what we see in the clinic a meeting of three prior therapies, but eighty-six percent were refractory to the last therapy, and accordingly inflicting current treatment patterns a third at prior car t cell therapy

184

00:33:07.390 --> 00:33:09.050

Dr. Michael Dickinson: next slide, please.

185

00:33:09.790 --> 00:33:26.769

Dr. Michael Dickinson: The complete remission rate was thirty, nine point four, and the median duration of follow up was twelve point. Six months responses are achieved rapidly at forty-two days, and patients had a similar complete response. Rate Regardless of prior therapies.

186

00:33:27.170 --> 00:33:28.939

Dr. Michael Dickinson: Next slide, please.

187

00:33:29.330 --> 00:33:44.840

Dr. Michael Dickinson: The median duration of response was eighteen point four months. These responses were durable. Eighty percent of complete responses were ongoing at the data cut off date, and the estimated twelve month. Complete remission rate is seventy, seven point six percent.

188

00:33:44.850 --> 00:33:50.100

Dr. Michael Dickinson: This is striking because patients are completely off therapy at just under nine months.

189

00:33:50.320 --> 00:33:52.059

Dr. Michael Dickinson: Next slide. Please.

190

00:33:52.720 --> 00:34:03.949

Dr. Michael Dickinson: The median-progression-free survival was four point nine months, and crucially in this population the median overall survival. Was eleven point five five months next slide, please.

191

00:34:04.600 --> 00:34:23.789

Dr. Michael Dickinson: There was a manageable safety, profile, medium dose intensity was one hundred percent, only three point. Two percent of patients discontinued due to a related ae after cytokine release Syndrome Neutropenia was the most common ae, that this was not complicated by serious infection, nor was it dose lunity.

192

00:34:23.870 --> 00:34:25.639

Dr. Michael Dickinson: Next slide, please.

193

00:34:26.420 --> 00:34:36.430

Dr. Michael Dickinson: Cytokine release. Syndrome is a syndrome caused by the activation of T. Lymphocytes, which can cause fever, hypertension, and a syndrome similar to infection.

194

00:34:36.489 --> 00:34:49.789

Dr. Michael Dickinson: It occurred in sixty-three percent of patients, and was grade two in eleven percent and grade three and only three point nine percent of patients, and it becomes very um one after the remaining

195

00:34:49.800 --> 00:34:55.379

Dr. Michael Dickinson: late. Neurologic events only occurred in two point six percent of patients. The

196

00:34:55.580 --> 00:34:57.309

Dr. Michael Dickinson: next slide, please,

197

00:34:57.810 --> 00:35:07.980

Dr. Michael Dickinson: in summary glyphetamine delivered clinically meaningful outcomes with a manageable safety profile in relapse and refractory to fuselage-based lymphoma.

198

00:35:07.990 --> 00:35:20.090

Dr. Michael Dickinson: In this heavily pre-treated cohort. Thirty nine point four percent of patients achieved a complete response, and these complete responses were durable after a fixed course treatment.

199

00:35:20.100 --> 00:35:40.079

Dr. Michael Dickinson: It was well tolerated with a low rate of treatment, discontinuation, and the most frequent adverse event, the cytokine release syndrome, the majority being grade one or fever occurring on the initial dose, and rarely occurring after the third dose. It is a promising off-the-shelf big duration, treatment,

200

00:35:40.090 --> 00:35:52.849

Dr. Michael Dickinson: and treatment can be completed in just eight point three months, and with that i'd like to move to the final slide and thank everyone for listening to the presentation, and I welcome any questions.

201

00:35:54.610 --> 00:35:56.899

Drew Kasper: Thank you very much for your presentation.

202

00:35:57.120 --> 00:36:00.269

Drew Kasper: Are there any questions from the public?

203

00:36:00.460 --> 00:36:04.200

Drew Kasper: And this may include other applicants as well

204

00:36:05.120 --> 00:36:08.859

Drew Kasper: any questions from Cms. After this. But right now, looking for questions

205

00:36:08.980 --> 00:36:10.170

on the public,

206

00:36:10.540 --> 00:36:13.489

Drew Kasper: I see one in the Q. And A.

207

00:36:14.290 --> 00:36:24.390

Drew Kasper: I typically view D1. Bcl. Treated in the outpatient setting. Could you please. Let us know what your inpatient utilization will be.

208

00:36:24.810 --> 00:36:40.049

Dr. Michael Dickinson: Yes, sure. So um. At the moment we typically admit patients after the first cycle of treatment, so patients receive a dose of a binatus amount as an outpatient for cytokine releasing mitigation.

209

00:36:40.060 --> 00:36:55.270

Dr. Michael Dickinson: The first dose of Glaffitam is two point five milligrams and patients are admitted for observation. After that first dose. If patients do not have cytokine release syndrome, they require no further admissions.

210

00:36:55.280 --> 00:37:04.339

Dr. Michael Dickinson: The rate of cytokine release and growing reduces after each dose, and so this will be an almost entirely outpatient treatment.

211

00:37:09.970 --> 00:37:11.069

Drew Kasper: Thank you.

212

00:37:17.600 --> 00:37:19.629

I am not

213

00:37:20.220 --> 00:37:23.660
raised hands with our attendees.

214

00:37:24.060 --> 00:37:27.590
Drew Kasper: No no questions in the new tab

215

00:37:28.510 --> 00:37:31.360
Drew Kasper: in tap uh mailbox.

216

00:37:31.370 --> 00:37:41.379
Drew Kasper: And so with that i'd like to open it up to Cms for questions. If someone from the public has a question. It's not too late, but we're opening it up now. Also for Cms questions.

217

00:37:54.170 --> 00:37:56.299
Andrew Wang: There are no questions from Cms:

218

00:37:58.690 --> 00:38:00.180
Drew Kasper: Okay, Thank you.

219

00:38:01.290 --> 00:38:06.150
Drew Kasper: The last call for questions from the public or anyone. At this point

220

00:38:07.450 --> 00:38:17.400
Dr. Michael Dickinson: something in the Q. And A. Um. If time allows, I can provide a slightly expanded answer to that question. I was very mindful that we were coming up on time.

221

00:38:18.940 --> 00:38:21.520
Drew Kasper: Oh, sure, yeah, go ahead.

222

00:38:21.530 --> 00:38:37.740
Dr. Michael Dickinson: Yeah. So I just wanted to to further address that outpatient question. So, um, we have developed a risk that identifies patients who are at high risk of cytokine release syndrome and those patients who are most likely to develop a feeder.

223

00:38:37.760 --> 00:38:49.040

Dr. Michael Dickinson: We have also explored in a cohort in the presented in the in the study that we've done of patients who have had dex amethystone retreat

224

00:38:49.050 --> 00:38:59.020

Dr. Michael Dickinson: in that patient cohort, cytokine, release, syndrome of more than of grade. Two or above did not occur after the first dose of Glyphin,

225

00:38:59.030 --> 00:39:14.130

Dr. Michael Dickinson: and this and the risk score that has been developed. The clinical risk score that's been developed is very sensitive and specific about identifying patients who might be at risk of cytokine release syndrome. So this will help physicians ah

226

00:39:14.140 --> 00:39:23.999

Dr. Michael Dickinson: profile! Whether their patients are likely to require further observation, and will assist in management and of resourcing

227

00:39:24.010 --> 00:39:48.769

Dr. Michael Dickinson: and in addition, one feature about low food demand that perhaps distinguishes it amongst the other by-specific antibodies is that the timing of cytokine release syndrome is very very predictable, occurring ten hours after the infusion, which means that ah doctors are able to anticipate resource utilization in the management of their age.

228

00:39:53.970 --> 00:39:57.229

Drew Kasper: Thank you for that additional information, and Dr. Dickinson,

229

00:39:59.490 --> 00:40:06.640

Drew Kasper: with that I'm going to do one last check here, and nothing new in the chat

230

00:40:07.700 --> 00:40:11.599

Drew Kasper: in the intent mailbox, no new raised hands.

231

00:40:12.050 --> 00:40:13.979

Drew Kasper: And so with that

232

00:40:14.540 --> 00:40:21.630

Drew Kasper: we will now hear from presenters for the Ep cortemab technology, the

233

00:40:21.660 --> 00:40:24.379

Drew Kasper: you may now unmute your mics.

234

00:40:25.030 --> 00:40:27.459

Dr. Jon Ukropec: Okay, thank you. Can you hear me, Drew.

235

00:40:28.080 --> 00:40:29.359

Drew Kasper: I can. Thanks

236

00:40:29.870 --> 00:40:31.089

Dr. Jon Ukropec: great. Thank you.

237

00:40:31.100 --> 00:40:43.890

Dr. Jon Ukropec: Good morning, and thank you for the opportunity to present Freddamas for the treatment of third line, plus relapse for factory detail. Lymphoma. My name is Johnny Krofik. I'm. The head of u s medical affairs and hematology agenda.

238

00:40:44.000 --> 00:40:45.279

Dr. Jon Ukropec: Next slide, please.

239

00:40:47.860 --> 00:40:49.239

Dr. Jon Ukropec: That's what i'm

240

00:40:49.450 --> 00:41:00.550

Dr. Jon Ukropec: is a full-length ig. One by a specific Antibodies derived from humanized human anti-human cb three and human anti-cd twenty monoclonal Antibodies

241

00:41:00.620 --> 00:41:06.270

Dr. Jon Ukropec: that have been eloquently engineered to induce t-cell mediated killing of malignant b cells.

242

00:41:06.680 --> 00:41:17.649

Dr. Jon Ukropec: Fredomat is currently under consideration by the Fda for the treatment of relapse or factory and large b cell. Lymphoma for patients who have failed at least two prior therapies.

243

00:41:18.370 --> 00:41:23.209

Dr. Jon Ukropec: Large B cell Lymphoma is an aggressive subtype, as you heard from Dr. Dickinson,

244

00:41:23.500 --> 00:41:32.340

Dr. Jon Ukropec: it's a subtype of non hodgkin's lymphoma, and in the Us. It has limited treatment, options, and remains. A high, unmet medical need,

245

00:41:32.570 --> 00:41:34.750

Dr. Jon Ukropec: subcutaneous at critical,

246

00:41:34.800 --> 00:41:44.820

Dr. Jon Ukropec: has been shown to achieve deep and durable responses with a manageable safety profile, and i'll go through some of that data in the course of this presentation.

247

00:41:44.860 --> 00:41:46.190

Dr. Jon Ukropec: Next slide, please.

248

00:41:48.970 --> 00:41:53.639

Dr. Jon Ukropec: Large B cell. Lymphoma is an aggressive constellation of B cell lymphomas.

249

00:41:53.790 --> 00:42:08.949

Dr. Jon Ukropec: You heard from Dr. Dickinson about the fuselage B cell. That is the predominant subtype in large B cell. It also includes primary media's final high-grade b cell lymphoma, molecular grade, three B

250

00:42:09.510 --> 00:42:10.709

as well

251

00:42:10.720 --> 00:42:15.490

Dr. Jon Ukropec: the average onset is approximately after sixty five years of age

252

00:42:15.540 --> 00:42:22.460

Dr. Jon Ukropec: for those patients who don't seek treatment, they typically succumb to the aggressive disease within the first year.

253

00:42:22.760 --> 00:42:27.670

Dr. Jon Ukropec: Unfortunately, the relative survival is only about sixty. Five percent

254

00:42:28.200 --> 00:42:29.569

Dr. Jon Ukropec: next slide, please.

255

00:42:31.280 --> 00:42:41.770

Dr. Jon Ukropec: The treatment of large B-cell Lymphoma largely utilizes regimens used for its diffuse search vessel, and Dr. Dickinson did a great job of reviewing those options,

256

00:42:42.070 --> 00:42:53.169

Dr. Jon Ukropec: while chemo immunotherapy is the predominant therapy in first line in the United States there is no clear standard of care for relapse, refractory, large b cell lymphoma,

257

00:42:54.730 --> 00:43:02.569

Dr. Jon Ukropec: with the recent approvals of carte in the Us. They do offer another potential for cure After the frontline treatment,

258

00:43:02.660 --> 00:43:09.349

Dr. Jon Ukropec: however, many patients are in eligible due to serious comorbidities or rapidly progressing disease,

259

00:43:09.960 --> 00:43:22.060

Dr. Jon Ukropec: and they require active therapy pre-authorizations, coupled with a long and complex manufacturing process, result in protracted waiting periods to receive their cardi therapy

260

00:43:22.250 --> 00:43:29.980

Dr. Jon Ukropec: addition, intense safety. Monitoring requires distreatment, modality to be limited to specialized tertiary centers. The

261

00:43:30.850 --> 00:43:38.519

Dr. Jon Ukropec: this often relegates the therapy to patients who are fit enough, and can withstand delays in receiving active treatment

262

00:43:39.360 --> 00:43:42.720

Dr. Jon Ukropec: as patients progress through the different lines of therapy.

263

00:43:43.070 --> 00:43:44.360

Dr. Jon Ukropec: In the Us.

264

00:43:44.620 --> 00:43:56.529

Dr. Jon Ukropec: The predominant therapy is a chemo-based regimen their remission time becomes shorter and shorter. Therefore novel therapies are needed for patients receiving third line, and beyond a treatment

265

00:43:57.080 --> 00:43:58.439

Dr. Jon Ukropec: next slide, please

266

00:44:01.520 --> 00:44:09.919

Dr. Jon Ukropec: the schematic on the left detects that pertinent binding to Cd. Three on cytotoxic T cells and Cd. Twenty on B cells.

267

00:44:11.020 --> 00:44:18.469

Dr. Jon Ukropec: This leads to conformational change of the molecule, activating the cytotoxic t cell and killing the malignant B cell

268

00:44:18.870 --> 00:44:29.710

Dr. Jon Ukropec: in the appcore and nhl one dose expansion cohort subcutaneous Ferritom was well tolerated and drove strong responses across multiple-patient subtypes

269

00:44:30.930 --> 00:44:32.290

Dr. Jon Ukropec: next slide, please.

270

00:44:34.390 --> 00:44:47.729

Dr. Jon Ukropec: So looking at that for Nhl, one which was our pivotal trial, and and and specifically the one hundred and fifty seven patients in the dose expansion cohort. The Median age was sixty. Four.

271

00:44:47.740 --> 00:45:02.439

Dr. Jon Ukropec: About half of the patients were sixty, five years and older. Eighty nine percent of patients had diffuse large b-cell of that seventy percent were nervous de novo, twenty nine percent were transformed from indolent disease,

272

00:45:02.450 --> 00:45:09.999

Dr. Jon Ukropec: six percent high-grade three percent primary media style and three percent molecular grade Threeb.

273

00:45:10.790 --> 00:45:17.520

Dr. Jon Ukropec: The median time, from initial diagnosis to first dose of that pyramid was one point six years

274

00:45:18.100 --> 00:45:19.760

Dr. Jon Ukropec: over this time

275

00:45:20.100 --> 00:45:24.450

Dr. Jon Ukropec: patients receive the medium of three prior lines of therapy.

276

00:45:24.590 --> 00:45:28.709

Dr. Jon Ukropec: Fifty. One percent of those patients were refractory to primary disease.

277

00:45:31.470 --> 00:45:37.459

Dr. Jon Ukropec: Prior carte therapy was used in thirty. Nine percent of the patient population in this study

278

00:45:37.490 --> 00:45:52.520

Dr. Jon Ukropec: want to highlight for the audience that this particular patient population have a four prognosis, and, in fact, three-quarters of the patients that were entered into the into the study, had progressed within six months of their carte therapy.

279

00:45:53.400 --> 00:45:54.690

Dr. Jon Ukropec: Next slide, please.

280

00:45:57.310 --> 00:46:05.330

Dr. Jon Ukropec: Looking at the safety from this pivotal study, after it has demonstrated low rates of treatment-related adverse events.

281

00:46:05.470 --> 00:46:10.869

Dr. Jon Ukropec: They were typically low-grade, and occurred early in treatment within the first three cycles.

282

00:46:10.940 --> 00:46:14.049

Dr. Jon Ukropec: The incidents declined over time the

283

00:46:14.830 --> 00:46:26.109

Dr. Jon Ukropec: credit-time release. Syndrome is an adverse event that is characterized within this class of drug, and, as you can see, the majority were low-grade

284

00:46:26.800 --> 00:46:42.869

Dr. Jon Ukropec: these patients typically experienced crs within the first several doses of receiving apparatus, the Median time. The onset was approximately twenty hours, and all patients resolved, and this is not discontinued due to So Crs.

285

00:46:42.880 --> 00:46:48.929

There was one patient, however, that did withdrawal consent. While experience a grade one. Drs event,

286

00:46:49.390 --> 00:46:59.080

Dr. Jon Ukropec: twenty one percent of patients experienced the grade. Three or hired Nitrienia. These were effectively managed according to local protocols and leveraged growth actors,

287

00:46:59.090 --> 00:47:02.519

Dr. Jon Ukropec: hierarchy. It was also observed, independent of Crs

288

00:47:02.730 --> 00:47:09.059

Dr. Jon Ukropec: fatigue, diarrhea injection, site reaction nausea and anemia were also observed. The

289

00:47:09.620 --> 00:47:23.030

Dr. Jon Ukropec: icons is also an adverse event that is associated with this class of drug. Ten patients experienced an Icann event. Nine were grade, one and two, and resolved one patient,

290

00:47:23.870 --> 00:47:26.299

Dr. Jon Ukropec: and experience a grade five

291

00:47:26.650 --> 00:47:42.569

Brenda Hudson: against events. This was confounded by multiple factors, which included excess of opioid use for grade three pain. Here, I tell you, this elevated ammonia levels and multifocal cerebral in parts in the setting. There are three minutes remaining

292

00:47:43.870 --> 00:47:54.899

Dr. Jon Ukropec: medium follow-up of the study. It was ten point seven months. The meeting number of treatment cycles were five. This will continue to increase as thirty, two percent are still on study.

293

00:47:55.150 --> 00:48:06.329

Dr. Jon Ukropec: Fifty eight patients discontinued therapy, and the majority were due to disease progression. In this highly refractory population. Seven percent discontinued through the aes.

294

00:48:06.410 --> 00:48:11.200

Dr. Jon Ukropec: Four percent went on to transplant three percent with your consent.

295

00:48:11.550 --> 00:48:12.909

Dr. Jon Ukropec: Next slide, please.

296

00:48:15.590 --> 00:48:25.600

Dr. Jon Ukropec: Epcoretim that drives deep and durable complete responses which is the focus of the response desired in this patient population in the Swim Lane plot below,

297

00:48:25.820 --> 00:48:29.620

Dr. Jon Ukropec: you'll see patients who achieved a complete response

298

00:48:29.730 --> 00:48:46.600

Dr. Jon Ukropec: or or any response. Were quick within the first six weeks, for those patients who achieved a partial response and continued on therapy. We saw the deepening of response, particularly after nine months of therapy patients were still achieving a complete response.

299

00:48:46.610 --> 00:48:56.569

Dr. Jon Ukropec: The line indicates those patients that were continuing therapy in the study as of the data cut off those links without ours of patients that went on the transplant

300

00:48:57.090 --> 00:49:00.680

Dr. Jon Ukropec: sixty, three percent of patients achieved an overall response,

301

00:49:00.730 --> 00:49:14.150

Dr. Jon Ukropec: thirty, nine percent, a complete response to put this in the context by Dr. Gil Sales from memorial. So Kettering reported at Ash earlier this week from a pulled analysis in scholar one a third line

302

00:49:14.160 --> 00:49:23.400

Dr. Jon Ukropec: plus patients receiving chemotherapy. It's based regiments, thirty four percent and achieved an overall response. Four percent of the Cr.

303

00:49:23.410 --> 00:49:30.799

Dr. Jon Ukropec: This is consistent with reports from real-world evidence where complete response was seen in about nine percent of the patients

304

00:49:30.810 --> 00:49:33.809

Brenda Hudson: medium time it's possible for me.

305

00:49:34.350 --> 00:49:37.020

Dr. Jon Ukropec: And the meeting duration was not reached. The

306

00:49:37.430 --> 00:49:38.490

Dr. Jon Ukropec: next slide.

307

00:49:39.740 --> 00:49:45.920

Dr. Jon Ukropec: This Kathleen Meyer on the left-hand side you'll see the itp population, and at nine months

308

00:49:45.990 --> 00:49:50.400

Dr. Jon Ukropec: about forty percent of the patients were still in progression free.

309

00:49:50.440 --> 00:49:56.290

Dr. Jon Ukropec: This was mainly driven as seen in the right-hand panel for those patients who were in the complete response.

310

00:49:56.300 --> 00:50:01.690

Dr. Jon Ukropec: Eighty nine percent of patients were in A in a complete response. By nine months the

311

00:50:01.880 --> 00:50:13.670

Dr. Jon Ukropec: an updated ash by Tesla Phillips reported that seventy nine percent of those patients are still in a completed response with the Median follow-up of fifteen point seven months with single asian fredomat.

312

00:50:14.810 --> 00:50:16.140

Dr. Jon Ukropec: Next slide, please.

313

00:50:17.270 --> 00:50:23.890

Dr. Jon Ukropec: Similarly, looking at a pre-specified analysis that pretty much demonstrated that you can see across

314

00:50:24.000 --> 00:50:33.540

Dr. Jon Ukropec: variety of different patient subtypes regardless of age, disease, and the the most difficult and challenging to treat population post-car tea

315

00:50:34.340 --> 00:50:35.420

Dr. Jon Ukropec: next slide.

316

00:50:36.600 --> 00:50:54.789

Dr. Jon Ukropec: In conclusion, that perdemat demonstrated an impressive clinical benefit in patients being treated with this aggressive challenging to treat refracting disease in the pivotal trial. Single agent, Fredomat demonstrated deep and durable responses, was well tolerated with a few discontinuations due to the adverse events,

317

00:50:54.800 --> 00:50:59.380

Dr. Jon Ukropec: the patient population representative of those seen in the United States. The

318

00:51:00.100 --> 00:51:04.960

Dr. Jon Ukropec: that credit map has the potential to become the first and class subcutaneously admitted service.

319

00:51:06.590 --> 00:51:16.610

Dr. Jon Ukropec: Rt: Sorry of the Shells P. Cell engaging therapy intended to treat patients in third line and beyond large b cell. Lymphoma.

320

00:51:16.640 --> 00:51:19.730

Dr. Jon Ukropec: Thank you for your attention, and happy to take any questions.

321

00:51:20.380 --> 00:51:22.450

Drew Kasper: Thank you for your presentation.

322

00:51:22.710 --> 00:51:25.349

Drew Kasper: Are there any questions from the public?

323

00:51:26.150 --> 00:51:34.649

Drew Kasper: This may include other applicants. We'll take questions from Cms. After this, any questions from the public

324

00:51:43.020 --> 00:51:47.250

Drew Kasper: seeing any raised hands or questions in the Q. And A.

325

00:51:47.450 --> 00:51:54.630

Drew Kasper: Yet, and I do want to take a moment. We've had a lot of people join us since I last stated this. So,

326

00:51:54.640 --> 00:52:07.739

Drew Kasper: as a reminder, all attendees can submit questions using the Q. And a feature at the bottom of your screen, or you can use the raise hand feature in zoom, and we will either unmute you, or if you are a participant. You may unmute yourself

327

00:52:07.750 --> 00:52:25.030

Drew Kasper: for those who are dialed in by telephone only, and not on a computer. You can email your questions to the Cms new tech mailbox at New Tech at Cms. Dot. Hhs dot Gov. As N. E. W. Pch at Cms. Dot

328

00:52:26.750 --> 00:52:33.119

Drew Kasper: with that um. Returning to questions from the public. I'm. Going to take one more scan.

329

00:52:33.760 --> 00:52:35.669

Dr. Jon Ukropec: Nothing in the Q. A.

330

00:52:36.560 --> 00:52:38.700

Drew Kasper: No. Raised hands

331

00:52:39.740 --> 00:52:41.120

Drew Kasper: and

332

00:52:42.110 --> 00:52:47.980

Drew Kasper: no new emails in the new technology. So with that we'll open up questions to Cms as well.

333

00:52:49.800 --> 00:52:58.359

Andrew Wang: Hi, this is Andrew. Thank you so much for the presentation. One question Cms. Had was under continuing three.

334

00:52:58.370 --> 00:53:20.479

Andrew Wang: The applicant submits. Ah, the the results for the outcomes for Ah, at the core of the map. Um, which are conference proceedings rather than peer-reviewed publications. We're we are um, asking, or wondering if you had any additional peer-reviewed data that compares elementary fence to f core to map with some sort of matching across the population for comparability purposes.

335

00:53:21.810 --> 00:53:36.690

Dr. Jon Ukropec: So thank you for the question. I I was remiss in not stating that this data is not only the basis for the filing in the Us. But has also been accepted, and is in press at the Journal of Clinical on Ecology.

336

00:53:37.100 --> 00:53:50.930

Dr. Jon Ukropec: So yes, it has been accepted. An analysis and

comparison has been done with the current standards of care, and that was part of what was presented at the American Society hematology as well.

337

00:53:52.860 --> 00:53:55.180

Dr. Jon Ukropec: Does that answer your question, Andy.

338

00:53:55.390 --> 00:53:57.090

Andrew Wang: Yes, thank you so much.

339

00:54:31.780 --> 00:54:38.610

There are no new questions in the Q. And A. Or the new tech mailbox, and no raised hands.

340

00:54:40.970 --> 00:54:42.330

Drew Kasper: But with that

341

00:54:46.010 --> 00:54:49.179

Drew Kasper: we will now move on. Thank you.

342

00:54:49.750 --> 00:54:55.889

Dr. Jon Ukropec: Thank you, and we'll now hear from presenters for the septicide rapid application.

343

00:54:56.420 --> 00:54:58.450

Drew Kasper: You may now unmute your phone.

344

00:55:01.640 --> 00:55:15.070

Dr. Roy Davis: Good morning. My name is Ray Davis, and I am Cmo at the immune Express. Thank you for the opportunity to present our host respond. Since this diagnostic step to a rapid and discuss its impact on Sepsis clinical care and outcomes.

345

00:55:15.320 --> 00:55:16.959

Dr. Roy Davis: Next slide, please.

346

00:55:18.660 --> 00:55:22.870

Dr. Roy Davis: In the next ten minutes I will briefly review the burden of sepsis in the Us.

347

00:55:22.960 --> 00:55:35.250

Dr. Roy Davis: And discuss its diagnostic challenges, review the septicemic solution and its clinical validation, and then review how septicemia, rapid adds substantial clinical improvement to care and outcomes.

348

00:55:36.400 --> 00:55:37.770

Dr. Roy Davis: Next slide, please,

349

00:55:39.250 --> 00:55:45.510

Dr. Roy Davis: in two thousand and nineteen. In the US. There were one point, seven million hospitalizations diagnosed as Sepsis.

350

00:55:45.620 --> 00:55:55.610

Dr. Roy Davis: It is the number one cause of hospital mortality with approximately three hundred and fifty thousand deaths per year, and this ranked is the number one most expensive medical condition

351

00:55:55.620 --> 00:55:58.700

Dr. Roy Davis: costing approximately forty, one billion dollars a year

352

00:56:05.210 --> 00:56:06.649

Dr. Roy Davis: next slide, please.

353

00:56:08.900 --> 00:56:10.820

Dr. Roy Davis: Appropriate management of sepsis

354

00:56:10.830 --> 00:56:16.200

Dr. Roy Davis: dependent upon early diagnosis to allow for rapid initiation of treatment.

355

00:56:20.610 --> 00:56:25.889

Dr. Roy Davis: This remains the major challenge presenting major towns pretending for diagnosis.

356

00:56:26.080 --> 00:56:34.319

Dr. Roy Davis: Presenting signs and symptoms are non-specific There is no diagnostic test that differentiates sepsis from non-infectious ideology

357

00:56:34.380 --> 00:56:40.310

Dr. Roy Davis: present biomarkers such as white, count, Crp, etc. Are non-specific

358

00:56:40.830 --> 00:56:50.069

Dr. Roy Davis: blood Cultures remain the gold standard, but are only positive at best in thirty percent of patients and results take twenty, four to seventy two hours.

359

00:56:50.430 --> 00:56:58.429

Dr. Roy Davis: Delays in diagnosis impacts appropriate clinical intervention, resulting in increased morbidity and mortality.

360

00:56:59.400 --> 00:57:00.550

Dr. Roy Davis: Next slide, please

361

00:57:03.960 --> 00:57:05.540

Dr. Roy Davis: tips your site rapid

362

00:57:05.670 --> 00:57:08.249

Dr. Roy Davis: measures M. Rna and white blood cells

363

00:57:08.330 --> 00:57:14.510

Dr. Roy Davis: quantifies the expression in two white cell genes, and is specific to infection and systemic information

364

00:57:14.870 --> 00:57:18.359

Dr. Roy Davis: independent of the type of pathogen that's causing the infection,

365

00:57:18.590 --> 00:57:22.059

Dr. Roy Davis: and is not reliant on finding the pathogen in the blood sample

366

00:57:24.030 --> 00:57:24.790

sixty minutes

367

00:57:24.800 --> 00:57:26.299

Dr. Roy Davis: for a result,

368

00:57:26.410 --> 00:57:32.209

Dr. Roy Davis: and translates the results into a clinical risk Score from one to fifteen called the Safety Score

369

00:57:32.500 --> 00:57:39.859

Dr. Roy Davis: reports. The likelihood of Cpsis is independent of severity, and the actual borisms are seen in one hundred percent of secession of sepsis

370

00:57:42.410 --> 00:57:43.480

Dr. Roy Davis: next slide, please.

371

00:57:47.210 --> 00:57:55.749

Dr. Roy Davis: Septicide rapid was validated, and Fda cleared as a sepsis diagnosing in a multi-center and retrospective and prospect of clinical study

372

00:57:55.950 --> 00:58:03.350

Dr. Roy Davis: primary objective want to demonstrate septicide rapid ability to differentiate tips from non-infectious series

373

00:58:03.930 --> 00:58:13.160

Dr. Roy Davis: inclusion criteria where patients presenting with two service criteria and starting on antibiotics as there is no gold standard for the comparison.

374

00:58:13.410 --> 00:58:23.359

Dr. Roy Davis: The comparator was a retrospective diagnosis of sepsis or serious by three leaders and sepsis in the United States. Following review of the clinical data at discharge

375

00:58:25.060 --> 00:58:26.250

Dr. Roy Davis: next slide, please.

376

00:58:27.790 --> 00:58:31.060

Dr. Roy Davis: The results of the validation study are shown in this side.

377

00:58:31.130 --> 00:58:37.599

Dr. Roy Davis: Four hundred and nineteen patients were included in the study consensus. Diagnosis of substance by the panel was used.

378

00:58:37.960 --> 00:58:43.939

Dr. Roy Davis: The graph on the left shows the increasing probability of sepsis with increasing safety score.

379

00:58:44.510 --> 00:58:56.159

Dr. Roy Davis: The probability of sepsis falls into four bands with band, one having less than a ten percent chance of sepsis with a sensitivity of ninety, four percent and a negative predictive value of ninety, one,

380

00:58:56.720 --> 00:59:05.819

Dr. Roy Davis: four scores have an eighty percent probability of sepsis with specificity of ninety percent and a positive predictive value of eighty One percent

381

00:59:06.380 --> 00:59:07.790

Dr. Roy Davis: next slide, please.

382

00:59:10.080 --> 00:59:23.369

Dr. Roy Davis: The upper left graph on the show slide shows the area under the curve of a septicite. Rapid's ability to differentiate sepsis from series in the full cohort, resulting in an area of the curve of zero point eight five.

383

00:59:23.380 --> 00:59:37.829

Dr. Roy Davis: The lower graph is the prospect of cohort, in which the test was performed on-site at the time of clinical assessment, showing an a you see of zero point nine. You grow up on the right and the A, you see, for differentiating captures from sewers

384

00:59:37.840 --> 00:59:52.920

Dr. Roy Davis: of the fourteen most common clinical variables used in sepsis diagnosis, either alone or in combination. Compared to the septicore. As you can see, septicide rapid, simply score alone, or in combination outperforms all of the present clinical tools

385

00:59:53.240 --> 00:59:54.459

Dr. Roy Davis: next slide please

386

00:59:56.150 --> 01:00:11.060

Dr. Roy Davis: septicide rapid addresses, the need for rapid accurate differentiation of substance from non-infectious systemic information with actual results in about one hour step to site, rapid outperformance current clinically available tools to suspect their subscriptions,

387

01:00:11.250 --> 01:00:15.989

Dr. Roy Davis: increasing s to score correlates with increased likelihood of culture. Positivity

388

01:00:16.010 --> 01:00:17.240

Dr. Roy Davis: Next slide, please.

389

01:00:19.760 --> 01:00:24.390

Dr. Roy Davis: How does a hypocrite rapid improve the care of the suspicion of this patient

390

01:00:24.440 --> 01:00:36.070

Dr. Roy Davis: so have to say, a rapid alone, or in combination of superior and differentiating sepsis from service. Current clinical screening tools, such as sirs, Q. Sofa, et cetera, are very sensitive, but not specific

391

01:00:36.190 --> 01:00:46.940

Dr. Roy Davis: the addition of septicaid, rapid to the triaged suspected substance. Patient provides early rapid-specific diagnosis. Allowing for appropriate treatment within the one to three hours

392

01:00:47.310 --> 01:00:48.469

Dr. Roy Davis: it's a period

393

01:00:49.030 --> 01:01:04.950

Dr. Roy Davis: septicide. Rapid results allow for early antibody decisions to be made early. Appropriate antibiotics decreases mortality, while a low score may support no census diagnosis which will impact the use of antibiotics addressing antibiotic stewardship.

394

01:01:06.640 --> 01:01:11.450

Dr. Roy Davis: These results are actionable. Much sooner than the cultures or results for molecular education,

395

01:01:12.350 --> 01:01:18.039

Dr. Roy Davis: post-respons, tests or biomarkers such as Crp are a little about even certain kind of conditions.

396

01:01:18.420 --> 01:01:28.129

Dr. Roy Davis: Septicite record has been shown to perform well in diagnosing sepsis and patients with malignancy on antineoplastic drugs, or on immunosuppressants,

397

01:01:28.370 --> 01:01:33.660

Dr. Roy Davis: high-risk, post-operative surgical patients have been followed and diagnosed with sepsis

398

01:01:33.880 --> 01:01:34.979

Dr. Roy Davis: by this test

399

01:01:35.200 --> 01:01:37.379

Dr. Roy Davis: and also in covid nineteen patients

400

01:01:37.500 --> 01:01:40.979

Dr. Roy Davis: who develop secondary or primary bacterial infections,

401

01:01:42.170 --> 01:01:54.490

Dr. Roy Davis: septicide, rapid outperforms, all current sepsis diagnostics allowing for early actionable diagnosis for the latest c of zero point eight five driving early therapy and appropriate culture of its collection,

402

01:01:55.560 --> 01:01:56.610

Dr. Roy Davis: the positive perception

403

01:01:57.710 --> 01:02:01.589

Dr. Roy Davis: with a one-hour turnaround time, the sip to school guides the condition, the

404

01:02:01.760 --> 01:02:09.409

Dr. Roy Davis: a reassess of additional diagnostic ideologies besides sepsis thus improving diagnostic stewardship practices.

405

01:02:10.470 --> 01:02:13.669

Brenda Hudson: There are three remaining

406

01:02:14.370 --> 01:02:15.819

Dr. Roy Davis: next slide, please.

407

01:02:16.780 --> 01:02:19.530

Dr. Roy Davis: How does sipasite, rapid improve outcomes?

408

01:02:19.990 --> 01:02:31.719

Dr. Roy Davis: Septicide? Rapid aids such as antibiotic initiation consistent with the current guideline. The recent twenty, twenty, one surviving Texas campaign management guidelines recommend antibiotic initiation

409

01:02:31.750 --> 01:02:33.750

Dr. Roy Davis: based on the senses. Likelihood

410

01:02:34.160 --> 01:02:42.739

Dr. Roy Davis: high likelihood suggests antibiotics with one hour and four patients which fit in this criteria with an eighty one percent probability of census

411

01:02:42.980 --> 01:02:48.600

Dr. Roy Davis: possible sepsis antibiotics to be given within three hours. Ban three and four patients with

412

01:02:50.290 --> 01:02:54.360

Dr. Roy Davis: low likelihood of sepsis. The recommendation is differ. Antibiotics

413

01:02:54.410 --> 01:02:57.419

Dr. Roy Davis: and monitor band, one and two patients

414

01:02:59.810 --> 01:03:05.810

Dr. Roy Davis: safety score probability bands, aids, clinician and meeting guidelines and impacting outcome

415

01:03:08.680 --> 01:03:15.739

Dr. Roy Davis: substrate rapid our installations in complying with step one and surviving sessions campaign three. Our bundle recommendations

416

01:03:15.750 --> 01:03:29.009

Dr. Roy Davis: most common standard reasons for non-compliance is uncertainty of diagnosis or additional time needed to confirm the diagnosis. The one hour Turnaround time aids in addressing these two concerns and improving

417

01:03:29.130 --> 01:03:37.789

Dr. Roy Davis: outcomes by meeting these compliance standards. Legislature confirmed that early. An appropriate investigation of the source of the infection

418

01:03:38.140 --> 01:03:48.370

Dr. Roy Davis: proves patients. A response to therapy and outcome. A higher steps is probability results within one hour would guide the connection to implemented source control embedding outcome.

419

01:03:49.770 --> 01:03:51.000

Dr. Roy Davis: Next slide, please,

420

01:03:52.840 --> 01:03:54.160

Dr. Roy Davis: in summary

421

01:03:54.670 --> 01:04:01.660

Dr. Roy Davis: septicite rapid is the only technology to accurately differentiate sepsis versus non-effective systemic information in one hour.

422

01:04:02.520 --> 01:04:11.279

Brenda Hudson: Sepsis rate rapid. Also outperforms currently use sepsis diagnostic tools Consistently there is one minute remaining

423

01:04:11.450 --> 01:04:24.829

Dr. Roy Davis: consistently achieving a rock's values of eight point zero point eight, three, zero point, eight, seven across various patient cohorts, and in multiple studies this rapid, turnaround time allows for early steps of identification,

424

01:04:25.140 --> 01:04:28.149

Dr. Roy Davis: an appropriate intervention and suspecting sepsis patients

425

01:04:28.200 --> 01:04:36.490

Dr. Roy Davis: driving prompt source control investigation. All of which combined is documented to improve patient outcomes and clinical care

426

01:04:37.160 --> 01:04:41.970

Dr. Roy Davis: septicide record provides action will result by a suspected sepsis patient.

427

01:04:41.980 --> 01:04:46.219

Dr. Roy Davis: Well, before blood, culture or molecular pathogen detection results.

428

01:04:48.450 --> 01:04:52.989

Dr. Roy Davis: Thank you for time and intention. I'd like to address any questions that come up.

429

01:05:02.200 --> 01:05:04.160

Drew Kasper: Thank you for your presentation.

430

01:05:04.470 --> 01:05:07.979

Drew Kasper: Are there any questions from the public?

431

01:05:08.130 --> 01:05:24.509

Drew Kasper: And we haven't been getting a lot of questions from the public. So i'm going to say, Um, what's open up to both public for cms? Are there any questions from the public or Cms, and this could include other applicants that have questions as well. Um, please raise your hand or use

432

01:05:26.210 --> 01:05:27.839

of zoom,

433

01:05:37.880 --> 01:05:39.990

Drew Kasper: and I see a raised hand.

434

01:05:42.810 --> 01:05:46.280

Drew Kasper: Um, amber, amber. Go ahead and unmute.

435

01:05:47.240 --> 01:05:59.069

Amber Woodruff: Good morning. Thank you. Um. Everybody for your presentations this morning. My name is Amber Woodruff, and I'm. From Cms. And my question is, you mentioned other sepsis diagnostic.

436

01:05:59.240 --> 01:06:07.129

Amber Woodruff: Can you discuss whether a sepsicide lab is also used for this purpose, and whether it would be an appropriate comparator?

437

01:06:08.590 --> 01:06:12.350

Dr. Roy Davis: So i'm not sure what your question is addressing

438

01:06:15.710 --> 01:06:17.380

Amber Woodruff: so? Um,

439

01:06:17.430 --> 01:06:23.930

Amber Woodruff: yes, for sub-site rapid you. You mentioned that there might be some other um

440

01:06:24.040 --> 01:06:28.720

Dr. Roy Davis: not as efficient diagnostic tools.

441

01:06:28.730 --> 01:06:31.789

Amber Woodruff: Um! Can you discuss whether sub-site lab

442

01:06:31.860 --> 01:06:37.799

Amber Woodruff: is used for this purpose, and whether it would be an appropriate comparator to sub-site rapid.

443

01:06:37.860 --> 01:06:49.050

Dr. Roy Davis: The Sepsis lab was our predicate for the septicidic rapid test. Tipzine Lab was a binge test. Time sent around. Time was approximately four to six hours to come on

444

01:06:49.580 --> 01:07:08.489

Dr. Roy Davis: complexity, and we thought it was not appropriate to introduce this clinically. We modified that, and put this into a

cartridge basis and a one-out turnaround time which has obvious clinical outcome impact and usability. So it is basically, the same test, but modified.

445

01:07:08.500 --> 01:07:11.050

Dr. Roy Davis: You have a good turnaround time.

446

01:07:12.140 --> 01:07:17.839

Amber Woodruff: Thank you. Um. One follow up question. Was sub-site lab ever available in the Us.

447

01:07:18.120 --> 01:07:30.670

Dr. Roy Davis: Step aside. Lab was cleared by the Fda and available, but not used, as we felt from a marketing standpoint. From a clinical standpoint it was really not of value except for research conditions.

448

01:07:31.120 --> 01:07:32.380

Amber Woodruff: Thank you.

449

01:07:38.200 --> 01:07:42.009

Drew Kasper: Thank you. Are there any other questions from the public or Cms

450

01:07:44.120 --> 01:07:47.769

Drew Kasper: for you to type them into the Q. And a feature in zoom

451

01:07:48.160 --> 01:07:51.320

Drew Kasper: or use the raise hand function to be unmuted.

452

01:07:53.270 --> 01:07:57.189

Drew Kasper: Do not see any raised hands.

453

01:08:02.410 --> 01:08:05.140

Drew Kasper: There are no new questions in the Q. A.

454

01:08:07.110 --> 01:08:17.699

Drew Kasper: And there are no new questions via the new tech airbox. Okay? Well, with that, Thank you again for your presentation.

455

01:08:19.290 --> 01:08:21.029

Dr. Roy Davis: Thank you. And

456

01:08:21.340 --> 01:08:26.889

Drew Kasper: we will now hear from presenters for the vest technology application.

457

01:08:32.310 --> 01:08:34.020

Dr. Daniel Goldstein: Good morning. Can you hear me?

458

01:08:35.080 --> 01:08:45.780

Drew Kasper: We can thank you perfect. Thank you, Casper. Ah! On behalf of vascular graph solutions and myself. I want to thank Cms for the opportunity to share with you

459

01:08:46.359 --> 01:09:01.519

Dr. Daniel Goldstein: the data that has been gathered from clinical trials and real world experience, with a unique device that is designed as an external support, scaffolding for saff and his vein graph the most commonly used conduits for corn a by-based surgery worldwide.

460

01:09:01.710 --> 01:09:14.290

Dr. Daniel Goldstein: I would like to disclose that I am one of the national kobe eyes for the ongoing best clinical trial, which is being run in collaboration with the Nih's Cardi Thoracic surgery network. Next slide, please.

461

01:09:16.490 --> 01:09:28.230

Dr. Daniel Goldstein: As a background information. It is important to appreciate that coronary's disease impacts a large number of Americans, and remains the number one cause of death in the United States and Western societies.

462

01:09:28.359 --> 01:09:33.200

Dr. Daniel Goldstein: The estimated total cost of caring for people with this disease is exorbitant.

463

01:09:33.510 --> 01:09:46.859

Dr. Daniel Goldstein: Cornay bypass surgery remains the goldstander treatment for patients with severe coronary. Already disease, and accounts for two hundred thousand procedures per year. For the past

several years in the United States.

464

01:09:47.210 --> 01:09:54.840

Dr. Daniel Goldstein: During this operation disease coronary arteries are bypassed with arterial grafts, and with saph and his main grass,

465

01:09:55.310 --> 01:10:10.469

Dr. Daniel Goldstein: the latter constitute the most commonly used Conrad with an average of two point, two, seven. It's Vane grass for operation, therefore, approximately four hundred and fifty thousand. Saphon, as being graphs are created per year next slide, please.

466

01:10:12.930 --> 01:10:20.729

Dr. Daniel Goldstein: Failure of these graphs constitutes the major limitation to the long-term success of coronary bypass surgery,

467

01:10:21.150 --> 01:10:26.880

Dr. Daniel Goldstein: the biological process underpinning staff and his vein Graph failure are well described.

468

01:10:27.210 --> 01:10:45.500

Dr. Daniel Goldstein: Early failure, occurring within hours to days after cornet. Bypass surgery is related to technical factors like poor conduits, a traumatic harvest of the conduit, pinking or compression of the graph, and is characterized by thrombotic occlusion.

469

01:10:45.830 --> 01:10:57.849

Dr. Daniel Goldstein: The more chronic and insidious graph failure which you see here on this graph occurs as a result of the development of intimal hyperplasia. Starting several months to one year after surgery

470

01:10:58.370 --> 01:11:08.589

Dr. Daniel Goldstein: By ten years after surgery, fifty percent of the Stephan as being grass are completely occluded, and half of the remaining Peyton ones are severely diseased.

471

01:11:08.950 --> 01:11:10.830

Dr. Daniel Goldstein: The best device

472

01:11:10.940 --> 01:11:14.809

Dr. Daniel Goldstein: targets, the biological process of internal hyperplasia.

473

01:11:20.670 --> 01:11:38.490

Dr. Daniel Goldstein: The only prophylaxis against the development of saphon as being graph failure is the use of aspirin and statins, both of which have had a limited impact, however, and thus there remains in our met clinical need to forestole or mitigate the development of the sephon is vein graph failure.

474

01:11:38.640 --> 01:11:40.179

Dr. Daniel Goldstein: Next slide, please.

475

01:11:41.830 --> 01:11:59.120

Dr. Daniel Goldstein: The problem with suffering is being graph. Failure is that it can lead to adverse clinical events, including a recurrence of engineer and or myocardial infarction and the ensuing need for rivascarization to treat that angular or mycard infection and or death.

476

01:11:59.340 --> 01:12:08.679

Dr. Daniel Goldstein: The frequency of these events, at one and five years after surgery are depicted here along with the health care costs associated with these treatments.

477

01:12:09.550 --> 01:12:10.840

Next slide.

478

01:12:12.880 --> 01:12:31.909

Dr. Daniel Goldstein: The vest device is a proprietary cobalt chromium scent that is deployed outside the staff. It's been graph at the time of surgery. It requires no more than a couple of minutes to deploy, and it does not require the surgeon to change the way he or she performs the operation.

479

01:12:32.110 --> 01:12:37.040

Dr. Daniel Goldstein: More than seven thousand such devices in several countries have been implanted.

480

01:12:37.240 --> 01:12:40.969

Dr. Daniel Goldstein: The device is seeing Mark approved in the European Union.

481

01:12:41.170 --> 01:12:53.459

Dr. Daniel Goldstein: We will go over some of the salient clinical outcome data that has been accumulated from four randomized clinical trials, five road registries, and featured in fifteen peer review publications.

482

01:12:53.680 --> 01:13:01.039

Dr. Daniel Goldstein: Importantly, there is no other device in the market or under investigation anywhere to our knowledge.

483

01:13:01.540 --> 01:13:02.900

Dr. Daniel Goldstein: Next slide

484

01:13:04.730 --> 01:13:21.700

Dr. Daniel Goldstein: the data shown here as being prepared for a manuscript. It shows that the use of the device was associated with a reduction of nearly fifty percent in the instance of very early graph failure, as shown in cat scans that were performed one week after surgery.

485

01:13:21.710 --> 01:13:29.210

Dr. Daniel Goldstein: Now I just share with you that this device was designed to mitigate internal hyperplasia. In process. It occurs much later on.

486

01:13:29.310 --> 01:13:45.519

Dr. Daniel Goldstein: So this was a surprise, and we believe that the beneficial effect is likely related to the avoidance of pinking or compression of the saffon as vingraft as it exes the order, providing a smooth lie on the epicarial surface of the heart,

487

01:13:47.580 --> 01:13:51.990

Dr. Daniel Goldstein: or the non-surgeons in the audience. If you can see this is my model heart.

488

01:13:52.290 --> 01:14:09.170

Dr. Daniel Goldstein: This year is a sacrificing graph sort of street to the right coronary circulation this year. It's a sapphire and graph to the Circle Flex. And this here is a memorial that you know, is used to bypass the interior descending artery. You can imagine it would The chest is closed,

489

01:14:15.080 --> 01:14:27.429

Dr. Daniel Goldstein: it can kink it can be compressed, et cetera. So, having this outside scaffolding, perhaps creates a smooth, a lie and a more uniform lie. So those things are less likely to happen

490

01:14:28.840 --> 01:14:30.190

Dr. Daniel Goldstein: Next Slide

491

01:14:32.120 --> 01:14:48.990

Dr. Daniel Goldstein: Data from two randomized clinical trials conducted in the United Kingdom show a significant reduction in into the hypoplasia, as measured by intravascular ultrasound, a significant improvement, and the uniformity of the saffron who's in graph something you know, is strong predictive of grass area

492

01:14:49.000 --> 01:15:04.149

Dr. Daniel Goldstein: and clinically, it's a a reduction in the need for ischemic drivenary. Vascularization so the numbers are too small to achieve significance as the follow-up required to collect sufficient data necessitates several years of observation. Next slide

493

01:15:06.190 --> 01:15:14.190

Dr. Daniel Goldstein: to focus on the clinical, critical, clinical outcome with scheme, a given and vascularization. You see here data from three different sources

494

01:15:14.200 --> 01:15:31.060

Dr. Daniel Goldstein: from Europe, the United States and the UK. At different post-operative time points, and these show a consistent reduction on this mace event, and the impact appears to increase over time with the greatest impact. Scene at the four and a half year. Study

495

01:15:31.130 --> 01:15:32.700

Dr. Daniel Goldstein: next slide, please.

496

01:15:33.610 --> 01:15:36.490

Brenda Hudson: There are three minutes remaining

497

01:15:36.500 --> 01:15:55.469

Dr. Daniel Goldstein: additional non-randomized but prospectively acquired data from two studies in Europe show a very low rate of me for erascarization. Up to years all these patients in these two series receive at least one best device. These rates are lower than those reported in cost, effectiveness. Models next slide

498

01:15:56.920 --> 01:16:13.369

Dr. Daniel Goldstein: displayed. Here is the same information from prior slides in a different way, showing the relative reduction in Iskemia ribbon vascarization, based on three clinical, random randomized clinical trials at different time points after coronary bypass surgery next slide.

499

01:16:15.040 --> 01:16:31.880

Dr. Daniel Goldstein: Most recently preliminary data from an analysis conducted in South Africa, looking at adverse events and mortality from a large insurance company database, with a five-year follow-up of two hundred and fifty, three best recipients, and over five thousand control cabbages for out best

500

01:16:31.890 --> 01:16:43.190

Dr. Daniel Goldstein: demonstrates a lower 0 God, mortality and incidence of adverse events among the series of at least one best device. Clearly more granular data is necessary in upcoming.

501

01:16:43.200 --> 01:16:48.519

Dr. Daniel Goldstein: But this preliminary data hint at the possibility of benefit over a long-term follow-up

502

01:16:48.560 --> 01:16:49.840

Dr. Daniel Goldstein: next slide.

503

01:16:50.590 --> 01:17:09.490

Dr. Daniel Goldstein: This additional data displays survival and a Ben-free survival among the seventy-four patients enroll in the Austrian study, which I just showed earlier documenting the benefit and early graph occlusion. Both curves are quite favorable with three-year survival and a battery survival in the ninety percent range.

504

01:17:09.920 --> 01:17:11.279

Dr. Daniel Goldstein: Next slide.

505

01:17:13.210 --> 01:17:34.690

Dr. Daniel Goldstein: So The totality of the data thus far accumulated suggests that the use of the best device can one unexpectedly provide a reduction in early graft failure and two resulting a reduction in the rate of repeated revascularization that extends at least to five years when compared to data from the literature in benefit, they can potentially translate into sizeable while savings.

506

01:17:35.150 --> 01:17:37.939

Brenda Hudson: There is one remaining.

507

01:17:39.190 --> 01:17:41.240

Dr. Daniel Goldstein: Thank you. Next slide.

508

01:17:43.950 --> 01:17:49.669

Dr. Daniel Goldstein: Thank you for your attention, and there are several members of Bgs on the line, and we're happy to take questions.

509

01:17:53.950 --> 01:17:55.080

Drew Kasper: All right.

510

01:17:56.490 --> 01:17:58.549

Drew Kasper: Thank you for your presentation.

511

01:17:58.710 --> 01:18:03.450

Drew Kasper: Are there any questions from the public or from Cms.

512

01:18:05.090 --> 01:18:10.219

Drew Kasper: Include questions from other applicants, and you can use the Q. And a function,

513

01:18:10.870 --> 01:18:15.470

Drew Kasper: or you can use the raise hand function.

514

01:18:20.960 --> 01:18:36.469

Drew Kasper: You want to just remind folks that if you are a panelist, you will be in charge of your immune function. So if you're not talking, we appreciate you making sure that your phone is muted during their presentations.

515

01:18:38.230 --> 01:18:42.009

Drew Kasper: I don't see any new questions in the Q. And A.

516

01:18:42.820 --> 01:18:46.420

Drew Kasper: We're open to questions from the public or Cms.

517

01:18:46.840 --> 01:18:49.740

Drew Kasper: There are no raised hands

518

01:18:49.780 --> 01:18:51.050

Drew Kasper: in the

519

01:18:52.300 --> 01:18:53.570

Drew Kasper: the group

520

01:18:54.350 --> 01:18:58.130

Drew Kasper: and no raised hands and the panelists grew.

521

01:18:59.510 --> 01:19:01.160

Drew Kasper: There are

522

01:19:01.200 --> 01:19:05.710

Drew Kasper: no new questions in the Cms. New Tech mailbox.

523

01:19:08.170 --> 01:19:10.559

Drew Kasper: The last call for questions.

524

01:19:13.600 --> 01:19:18.060

Drew Kasper: Can I see a raised hand from Edina. Adina, please go ahead and unmute,

525

01:19:18.840 --> 01:19:27.899

Adina Hersko: So can you talk about the surgical procedure itself, whether other aspects of cells were tested, such as pump. Use no touch, procedures, et cetera.

526

01:19:28.920 --> 01:19:44.899

Dr. Daniel Goldstein: Thank you. Excellent question. Just so. You probably don't know. But the the design of the trial required within

patient randomization. So we avoid any biological differences from patient to patient, or the way that operation was conducted in one place or another.

527

01:19:44.910 --> 01:20:03.200

Dr. Daniel Goldstein: Um! Everything that was done was sort of what I showed you like. We always do, Coronavirus, and the only difference is so. We create the what we call the distal and asthma first was a connection, or the vein to the artery, and then we simply slide this device, which is already pre-measured according to elect to the vein

528

01:20:03.210 --> 01:20:12.190

Dr. Daniel Goldstein: and then perform the vessel anastomosis. So there's nothing that changes in the way the surgeon does the operation in terms of five best views or any other variable.

529

01:20:14.520 --> 01:20:20.129

Adina Hersko: Thank you. Can you also talk about whether any adjustments

530

01:20:20.150 --> 01:20:22.830

Adina Hersko: to the p-values were made for multiple comparisons

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01:20:23.760 --> 01:20:25.019

Dr. Daniel Goldstein: or

532

01:20:27.830 --> 01:20:30.080

Adina Hersko: sorry there are multiple comparisons

533

01:20:30.120 --> 01:20:31.990

Adina Hersko: for multiple comparisons.

534

01:20:32.290 --> 01:20:36.620

Dr. Daniel Goldstein: Yeah, I'm going to the fair that the for that question to

535

01:20:36.640 --> 01:20:39.649

Dr. Daniel Goldstein: uh road time, or someone from Vgs

536

01:20:49.630 --> 01:20:50.800

Dr. Daniel Goldstein: y'all,

537

01:20:56.250 --> 01:21:00.829

Dr. Daniel Goldstein: I guess there's no already on the line to answer the multiple

538

01:21:00.940 --> 01:21:04.139

Dr. Daniel Goldstein: the p-values that you refer to, as in which trial

539

01:21:04.510 --> 01:21:10.169

Drew Kasper: what we can really make sure that they are is yeah

540

01:21:10.920 --> 01:21:14.090

Drew Kasper: is E. I a l orion of

541

01:21:14.100 --> 01:21:15.890

Drew Kasper: I all around you. Zoom: Yeah,

542

01:21:15.900 --> 01:21:16.930

Eyal Orion: I'm: here.

543

01:21:17.800 --> 01:21:19.959

Drew Kasper: Yeah, Sorry. I

544

01:21:20.190 --> 01:21:27.239

Eyal Orion: Yeah, it's good. Can you please repeat the questions which comparison comparative analysis did you refer to at dinner?

545

01:21:28.280 --> 01:21:35.900

Adina Hersko: Yeah, we had a question about the multiple comparisons, and if any adjustments were made to the p-values for that,

546

01:21:36.770 --> 01:21:40.340

Eyal Orion: the p-values in the pivotal study are swimming. To

547

01:21:42.440 --> 01:21:53.899

Eyal Orion: Yeah. So of course, we have done several sub-analyses the primary, and both analysis of the pivotal study was a reduction in

itimal hyperplasia at one year

548

01:22:05.430 --> 01:22:12.459

Eyal Orion: to the data which showed a subgroup of patients like diabetics, for example, the benefit even double.

549

01:22:27.980 --> 01:22:29.019

Thank you,

550

01:22:30.110 --> 01:22:39.950

Dr. Daniel Goldstein: Adina, the the The details of the statistical analysis, I presume again, from the pivotal trial, are published

551

01:22:40.490 --> 01:22:43.989

Dr. Daniel Goldstein: in jam, a cardiology. So you can refer to that there

552

01:22:44.000 --> 01:23:02.349

Eyal Orion: and just just to add on this, remember that the the unique design was within patient randomization. So we didn't randomize two different groups. The comparison, the comparisons you've seen, and all the inputs was within the same patient. Ah! Two veins within the same patients, one with a device, one without

553

01:23:05.920 --> 01:23:08.649

Drew Kasper: Rotam. You are also unmuted.

554

01:23:11.020 --> 01:23:17.120

Drew Kasper: You should be momentarily here. I've asked that you be unmuted. Yeah, you could do unmute rotem.

555

01:23:17.130 --> 01:23:18.730

Rotem Katzenellenbogen: Thank you.

556

01:23:18.740 --> 01:23:22.900

Rotem Katzenellenbogen: Thank you. J. A. Lore on our already replied Thank you.

557

01:23:33.900 --> 01:23:37.450

Drew Kasper: Hey? Do we have any other questions

558

01:23:38.530 --> 01:23:40.380

Drew Kasper: in the public or Cms.

559

01:23:46.460 --> 01:23:51.169

Drew Kasper: Be no additional raised hands from panelists or attendees?

560

01:23:53.010 --> 01:23:56.860

Drew Kasper: There are no new questions in the new tech mailbox.

561

01:23:58.300 --> 01:24:02.029

Drew Kasper: There are no new questions in the Q. And A.

562

01:24:03.350 --> 01:24:04.360

Drew Kasper: Hey?

563

01:24:05.030 --> 01:24:08.789

Drew Kasper: All right, folks. So with that

564

01:24:08.910 --> 01:24:12.130

Drew Kasper: we will now be heading into

565

01:24:13.000 --> 01:24:14.650

Drew Kasper: break period.

566

01:24:14.840 --> 01:24:23.150

Drew Kasper: We are six minutes ahead of schedule. Excuse me, so we have until ten, forty, five.

567

01:24:23.620 --> 01:24:29.039

Drew Kasper: Please be back and ready to go for ten, forty five folks. Thank you.

568

01:24:31.830 --> 01:24:38.029

Drew Kasper: Continue to just be logged in and walk away from your computer for the next twenty minutes.

569

01:26:14.540 --> 01:26:15.760

Drew Kasper: Anyone

570

01:26:16.880 --> 01:26:19.410

Drew Kasper: and anyone who um

571

01:26:19.470 --> 01:26:32.090

Drew Kasper: is logging on via telephone. Rather not logging on to your computer, but just on the telephone. You can email us this new attack at Dms. Hhs. Gov: If you have a question.

572

01:26:32.100 --> 01:26:35.519

Drew Kasper: You're not long, then, to be able to submit it

573

01:26:37.120 --> 01:26:39.060

Drew Kasper: through the through the zoom.

574

01:26:39.230 --> 01:26:48.889

Drew Kasper: We do ask also that if you're not presenting that you please ensure that your phone is muted. There is a zoom function for me that you can use

575

01:26:51.320 --> 01:26:53.539

Drew Kasper: with that

576

01:26:54.120 --> 01:26:55.809

Drew Kasper: by two.

577

01:26:58.010 --> 01:27:00.090

Drew Kasper: Welcome Our next presenters.

578

01:27:00.720 --> 01:27:08.469

Drew Kasper: We'll now hear from presenters for the

579

01:27:10.130 --> 01:27:38.300

Dr. Robert Stevens: thank you Drove. Ah, good morning. I'm. Robbie Stevens, the Vice President and head of Medical barriers at series. Therapeutics. We thank Cms. For allowing us to present this in tab application for Sierra one hundred and nine, an investigational microbiome therapeutic to prevent recurrent cluster diocese diplomacy,

which I will shorten to see depth infection throughout my presentation. Next slide, please shows my disclosures,

580

01:27:38.370 --> 01:27:40.809

Dr. Robert Stevens: and then the next slide. Please.

581

01:27:41.000 --> 01:27:58.309

Dr. Robert Stevens: Recurrent sea death. Infection has a high unmet need, and is associated with significant morbidity and mortality. Patients can experience up to fifteen episodes of watery diary of per day, requiring them to be home bound and tethered to the toilet.

582

01:27:58.320 --> 01:28:03.290

Dr. Robert Stevens: This results in a markedly diminished quality of life for the individual patient

583

01:28:03.300 --> 01:28:12.539

Dr. Robert Stevens: about one in four patients experience recurrent infections and over twenty thousand patients died per year. To this infection. Next slide

584

01:28:13.130 --> 01:28:34.310

Dr. Robert Stevens: an initial recurrence is a sign that the microbiome is disrupted and may need repair. The twenty five percent of patients that enter a recurrent cycle is the focus of our N-tab application. With c. One hundred and nine It is important to stop this cycle, recurrent infection and repair the microbiome, as shown on the next slide.

585

01:28:35.980 --> 01:28:51.560

Dr. Robert Stevens: The first illustration in the upper left is a healthy, diverse, gut microbiome but the combination of antibiotics causing disruption of this microbiome, coupled with exposure to c div scores, leads to infection

586

01:28:51.570 --> 01:29:07.669

Dr. Robert Stevens: a two-pronged treatment shown in the gray shaded box in the rights portion of this slide is needed, starting with antibiotics to kill a vegetative bacteria, followed by microbiome repair to increase microbial diversity.

587

01:29:07.680 --> 01:29:19.480

Dr. Robert Stevens: Up until now microbiome repair has been with fecal microbiota, transplantation, or fmt, which is whole donor derived stool next slide.

588

01:29:20.060 --> 01:29:26.500

Dr. Robert Stevens: But fmt is an unapproved product associated with several safety issues

589

01:29:26.630 --> 01:29:43.299

Dr. Robert Stevens: issued by the Fda warning of the potential risk of transmission of infectious pathogens. Therefore safer products are needed that undergo rigorous clinical development and demonstrate the safety and efficacy in preventing recurrent, c. Death infection.

590

01:29:43.310 --> 01:29:48.849

Dr. Robert Stevens: One such live by logic. Product is Cer. One hundred and nine next slide

591

01:29:49.250 --> 01:30:18.500

Dr. Robert Stevens: moving clockwise from the upper left. I will describe how, c. One hundred and nine prevents recurrency deep infection. In nearly ninety percent of patients as a well-tolerated safety profile is administered or orally with a low pill burden of four capsules once daily. For three days. The Fda granted priority Review for the biologic license application for C one hundred and nine with a Padua action, date of April twenty sixth, two thousand and twenty-three

592

01:30:18.570 --> 01:30:19.949

Dr. Robert Stevens: next slide

593

01:30:20.900 --> 01:30:36.319

Dr. Robert Stevens: seer one hundred and nine is a purified consortia of donor-driven firm, acute scores, and it is the extraction and purification of the firm. Acute scores that supports a new technology advancement. For this live by logic.

594

01:30:36.330 --> 01:30:55.130

Dr. Robert Stevens: Fermakutes are key bacteria. In preventing sea dips for germination and growth. They are resistant to gastric acidity, which allows for an oral formulation taken by mouth, avoiding a procedure for drug administration, such as a colonoscopy or rectal animal,

595

01:30:55.140 --> 01:31:10.239

Dr. Robert Stevens: a key component of the technology in manufacturing c. One hundred and nine is the process in activates vegetative bacteria, parasites, fungi, and viruses, including Sars Cov. Two next slide.

596

01:31:11.580 --> 01:31:27.689

Dr. Robert Stevens: For the remainder of the presentation I will discuss the phase three data that support how se. One hundred and nine provides a substantial clinical improvement to standard of care treatment with antibiotics for recurrency. Death next slide

597

01:31:30.970 --> 01:31:32.589

Dr. Robert Stevens: next slide, please.

598

01:31:36.280 --> 01:31:40.389

Dr. Robert Stevens: Ecos four hundred and three was a phase three randomized, controlled trial,

599

01:31:40.400 --> 01:31:54.379

Dr. Robert Stevens: where one hundred and eighty-two patients were toxin-positive C diagnosis, thus confirming patients had true infection and having symptom resolution. After receiving ten to twenty, one days of standard of care antibiotics,

600

01:31:54.390 --> 01:32:14.269

Dr. Robert Stevens: we're randomized to sear one hundred and nine or placebo or oral capsules once daily for three days following administration of ten ounces of magnesium citrate. To remove any residual antibiotic in the gut. The trial was powered to demonstrate superiority. Next slide

601

01:32:15.130 --> 01:32:30.449

Dr. Robert Stevens: this table is the demographics of a study population, where I will call your attention to subject age. On the third line over half of the subjects were sixty, five years of age or greater, which is an age cohort of interest to Cms.

602

01:32:30.610 --> 01:32:32.059

Dr. Robert Stevens: Next slide

603

01:32:32.840 --> 01:32:53.230

Dr. Robert Stevens: the Bar charts to illustrate the primary efficacy results at eight weeks, showing that Se. One hundred and nine was superior to placebo in reducing risk of recurrency, gift, infection in the left bar charts, twelve percent of c. One hundred and nine subjects had a recurrence compared to forty percent or placebo.

604

01:32:53.240 --> 01:33:04.990

Dr. Robert Stevens: This absolute difference of twenty-eight percent is the largest delta reported for any phase two or three randomized controlled trial with a live biologic product.

605

01:33:05.000 --> 01:33:15.680

Dr. Robert Stevens: The bar chart on the right shows the opposite result to recurrence rate, which is eighty eight percent of subjects at a sustained clinical response to C, one hundred and nine

606

01:33:15.690 --> 01:33:30.990

Dr. Robert Stevens: Not shown on the slide is the number needed to treat for Co. One hundred and nine, which was three point six. So for every four patients treated with C, one hundred and nine, one case of recurrency gift would be prevented. Next slide

607

01:33:31.490 --> 01:33:43.980

Dr. Robert Stevens: recurrence rates in subjects sixty, five years of age or older, are shown in the left bar chart. Seventeen percent of Se. One hundred and nine and forty, six percent of placebo patients have recurrence.

608

01:33:44.030 --> 01:34:03.270

Dr. Robert Stevens: This is an absolute difference of twenty, nine, and consistent with the twenty, eight percent difference for the overall study population that I showed on the previous slide. These findings reveal that C one and I a similar efficacy across the eight adult age spectrum Next slide

609

01:34:04.600 --> 01:34:15.780

Brenda Hudson: this cabin. My analysis scrapes the natural history of recurrence. Following antibiotic discontinuation. There are three,

610

01:34:16.380 --> 01:34:22.379

Dr. Robert Stevens: mostly different recurrences occurred rapidly

within a couple weeks two

611

01:34:22.390 --> 01:34:40.510

Dr. Robert Stevens: separation between Sierra, one hundred and nine, depicted in the Orange line and Placebo, The black line is observed within a few days following antibiotics, highlighting the importance of early Se. One hundred and nine, and administration, in reducing risk of recurrent Cdi;

612

01:34:40.520 --> 01:34:53.859

Dr. Robert Stevens: and third, the magnitude of difference between Placebo and C one hundred and nine is maintained through the twenty-four weeks, attributing to the durability of response to Cer, one hundred and nine next slide

613

01:34:54.850 --> 01:34:59.389

Dr. Robert Stevens: the purported mechanism of C. One hundred and nine is depicted in these figures.

614

01:34:59.400 --> 01:35:10.349

Dr. Robert Stevens: The blue bars in the left panel shows the significant and grassment in the gut of the seer. One hundred and nine dose species at week one, and maintained through week eight,

615

01:35:10.360 --> 01:35:30.810

Dr. Robert Stevens: which leads to increases in secondary bio-acid metabolites shown in the middle panel that are needed to prevent c. Depths for germination that ultimately results in the observed clinical response shown in the right now, which is showing the superiority of Sierra, one hundred and nine to the citybo

616

01:35:30.820 --> 01:35:35.359

Dr. Robert Stevens: standard of care, Antibiotics Next slide

617

01:35:36.200 --> 01:35:47.890

Dr. Robert Stevens: seer, one hundred and nine was well tolerated with a safety profile characterized in the table. The most common adversity. Events were gastrointestinal in nature, and were mild to moderate.

618

01:35:47.900 --> 01:35:58.619

Dr. Robert Stevens: Three deaths occurred on the seer, one hundred and

nine arm, and were reported as being unrelated to cer one hundred and nine by the blinded investigator. Next slide.

619

01:35:59.840 --> 01:36:13.829

Dr. Robert Stevens: Results of the ecosystem for open-label phase three study are consistent with the safety and efficacy findings recorded in the ecosystem. Three randomized control trial that I just reviewed

620

01:36:13.840 --> 01:36:35.210

Brenda Hudson: Ecos Four four is my first study, showing at least ninety sustained, showing at least ninety sustained clinical response that we gave, regardless of number of prior recurrent episodes, as shown in the figure. The sustained clinical response in first recurrent patients was ninety four percent

621

01:36:35.220 --> 01:36:38.290

and ninety percent for multiple recurrence,

622

01:36:38.300 --> 01:36:49.889

Dr. Robert Stevens: as in Ecos four, three, The most common adverse events in this open-labeled stoneup are gi related and mild to moderate in nature. None of the a deaths were determined to be related,

623

01:36:49.900 --> 01:37:08.639

Dr. Robert Stevens: or possibility related to this study plan. In the next slide my final slide to summarize clinical outcomes for recurrency. Depth can be significantly improved with the two prong treatment. Approach of antibiotics, followed by microbiome recovery, with se one hundred and nine

624

01:37:08.730 --> 01:37:17.520

Dr. Robert Stevens: c. One hundred and nine was superior to placebo in reducing recurrence. Validating this, four-based therapeutic approach

625

01:37:17.530 --> 01:37:27.489

Dr. Robert Stevens: Overall Sear, one hundred and nine was well tolerated, which might be expected, since firm, acute spores are normal residents of the healthy, gut microbiome,

626

01:37:27.500 --> 01:37:55.810

Dr. Robert Stevens: sir, one hundred and nine achieved high efficacy while mitigating risk of transmitting infectious agents through intensive donor screening and manufacturing processes. Lastly, if approved, seer, one hundred and nine, maybe may potentially be the first in class oral microbiome therapeutic serving as appropriate foundation therapy for a broad set of patients caught in the vicious cycle of recurrency, death, infection.

627

01:37:55.820 --> 01:37:56.940

Dr. Robert Stevens: Thank you,

628

01:37:58.920 --> 01:38:01.759

Drew Kasper: and thank you very much for your presentation.

629

01:38:01.920 --> 01:38:05.570

Drew Kasper: Are there any questions from the public or Cms?

630

01:38:06.740 --> 01:38:10.620

Drew Kasper: It's the Q. And A. Feature or the raise hand feature?

631

01:38:20.410 --> 01:38:23.990

Drew Kasper: See any new questions in the new tech mailbox.

632

01:38:26.900 --> 01:38:32.259

Drew Kasper: No questions in the Q. And A. Yet. And let's see here we do have a question.

633

01:38:32.580 --> 01:38:34.270

Drew Kasper: But please proceed, Adena.

634

01:38:35.540 --> 01:38:36.650

Adina Hersko: So

635

01:38:36.680 --> 01:38:50.900

Adina Hersko: you provide the rationale for exclusion out patients treated with as we talk from that from the trial, and whether there is any evidence demonstrating differences in recurrent patients treated with Epochomat and Sdr. One hundred and nine.

636

01:38:53.550 --> 01:39:10.919

Dr. Robert Stevens: Yes, we have no data on Ah, on the outcome of antibiotics with Beslok Toxomat, followed by Uh Sierra one hundred and nine. The rationale for not including a

637

01:39:10.930 --> 01:39:17.009

Dr. Robert Stevens: toxomab in the Protocol will require me to get back with you for that complete answer.

638

01:39:19.480 --> 01:39:20.739

Adina Hersko: Okay, thank you.

639

01:39:26.570 --> 01:39:30.799

Drew Kasper: We have any other questions from the public or from Cms.

640

01:39:33.000 --> 01:39:36.019

Drew Kasper: I'm. A scan. I'm not seeing any

641

01:39:36.190 --> 01:39:38.179

Drew Kasper: raised hands

642

01:39:41.460 --> 01:39:43.719

Drew Kasper: seeing anything in the Q. A.

643

01:39:46.190 --> 01:39:55.690

Drew Kasper: And i'm not seeing any new questions in the new tech mailbox for folks That would be perhaps only on the phone and not have access to the zoom features.

644

01:39:56.720 --> 01:39:58.969

Drew Kasper: Okay, So with that

645

01:40:00.610 --> 01:40:02.000

Drew Kasper: you again,

646

01:40:02.470 --> 01:40:10.899

Drew Kasper: and we will now hear from presenters from the Rbx two thousand six hundred and sixty technology application.

647

01:40:11.470 --> 01:40:13.250

Drew Kasper: And now unmute your phone.

648

01:40:23.700 --> 01:40:25.939

Dr. Paul Feuerstadt: Okay, can you hear me?

649

01:40:26.600 --> 01:40:29.200

Drew Kasper: We can thank you. Excellent!

650

01:40:29.210 --> 01:40:51.700

Dr. Paul Feuerstadt: Well, my name is Dr. Paul Weyerstadt. I'm. An assistant clinical professor of medicine at the Yale University School of Medicine and an attending gastroenterologist at the Pact Gastroenterology Center. I'm. Delighted to be here to present the new technology add on payment request for rbx twenty, six, sixty. Now, Fda approved as real iota a microviolent based

651

01:40:52.910 --> 01:40:56.570

Dr. Paul Feuerstadt: therapeutic suspension. Please advance the next slide.

652

01:40:57.560 --> 01:41:26.090

Dr. Paul Feuerstadt: It's really important to realize that when the original application for Ah Rbx twenty, six was submitted. It was not an Fbi from the product that achieved approval on November thirtieth two thousand and twenty two as the first microbiota-based live biotherapeutic product, with an indication of prevention of recurrence of ostrogitis, cibosal infection in individuals eighteen years of age and older following a standard of care, antimicrobial therapy, it is essential to understand.

653

01:41:26.100 --> 01:41:35.310

Dr. Paul Feuerstadt: Ah Rbx, two thousand six hundred and sixty, for now Rebiota is not a solitary therapy for the treatment of C. Deposal. Please advance to the next slide,

654

01:41:35.320 --> 01:41:51.210

Dr. Paul Feuerstadt: c. That of zeal is a major problem in the United States. It's estimated that about a half a million individuals test positive or Cd. To the deal on an annual basis, leaving a massive burden on our health person and our patients.

655

01:41:53.600 --> 01:42:14.189

Dr. Paul Feuerstadt: But fifty percent of those patients have community associated infection and fifty percent have healthcare Associated Infection seed at the seal is the most common health care. Associated infection accounting for an estimated fifteen point, five percent of all health care associated infections. It's more common than Dr. E. It's more common than M. Rsa.

656

01:42:14.200 --> 01:42:32.830

Dr. Paul Feuerstadt: Importantly, when patients are seeing the standard of care anti-microbial. A guideline recommended antimicrobial to treat an initial episode of Ciderella seal it's estimated that about thirty-five percent or up to thirty five percent. All those patients will, in fact, recover Once those that recur,

657

01:42:32.840 --> 01:43:01.369

Dr. Paul Feuerstadt: we need a fifty percent of the ones to occur after that, and an astounding sixty percent will go on to occur thereafter as patients get caught in this vicious cycle of recurrence after a current sector occurrence. Now the medicare population behaves as a specific burden. The Medicare population is the highest risk burden group as a being a risk factor for both initial infection and recurrent infection. In fact, up to ninety three percent of all people that succumb to seed it with steel infection

658

01:43:01.420 --> 01:43:04.930

Dr. Paul Feuerstadt: in the Medicare population next slide, please.

659

01:43:06.700 --> 01:43:09.790

Dr. Paul Feuerstadt: So how did we get here? How did this all work?

660

01:43:09.800 --> 01:43:30.769

Dr. Paul Feuerstadt: Well? Anybody who's had clinical training will know that a patient that has, c-def seal infection has a alteration in their microbiota and alteration in the microorganisms that live within their coal, see that it still has two main phases, a vegetative phase, and a score base. The vegetative base is a phase that releases toxins that essentially cause the abdominal mean the diarrhea

661

01:43:30.780 --> 01:43:49.949

Dr. Paul Feuerstadt: fingers that patients with a C different seal get importantly. See if you're the parents of microbials, such as Bangladesh, but axomycin. They are able to control the vegetative views, which is why, when patients are on these antimicrobials, they feel better alternatively the spore phase is able to elude the

antimicrobials,

662

01:43:49.960 --> 01:43:53.329

Dr. Paul Feuerstadt: and once we pull off that antimicrobial, the score fees

663

01:43:53.340 --> 01:44:22.050

Dr. Paul Feuerstadt: frequently remains within a patient's system. The deficiency that we see with the microbiota the deficiencies of the bacteroid needs and permit it is, is largely most present at the end of that antimicrobial force, and it's up to the patient's system to regrow the missing microbiota and replenish itself without further intervention. But unfortunately, about up to thirty, five percent of the time, initially forty to fifty percent with first returns and up to sixty percent is second or

664

01:44:22.060 --> 01:44:30.449

Dr. Paul Feuerstadt: and beyond it's unable to do that, we're unable to replenish on our own and patients get a recurrence next slide, please.

665

01:44:31.110 --> 01:44:40.530

Dr. Paul Feuerstadt: This is where our product, like Rebiota comes in. Rebiota is a broad consortium. It has both score and non-sploreforming bacteria.

666

01:44:40.540 --> 01:45:02.199

Dr. Paul Feuerstadt: It is created from human stool that is processed. It's widely screened it under those good manufacturing procedures. It is rectally instilled as a single dose It takes about fifteen minutes to administer that dose, and it has about fifteen times ten to the eight microorganisms per Cc. To be administered in any office setting or in the hospital setting

667

01:45:02.210 --> 01:45:12.489

Dr. Paul Feuerstadt: in certain States could be administered by a medical assistant to be administered by a nurse broadly, or a physician, or advanced practice Provider. Next slide, please.

668

01:45:14.130 --> 01:45:28.090

Dr. Paul Feuerstadt: One of the biggest strengths associated with the data for Rebiota are the number of trials that it has gone through. I show you here a listing of three phase, two trials, two phase, three

trials, and a retrospective analysis.

669

01:45:28.100 --> 01:45:34.200

Dr. Paul Feuerstadt: And I want to point your attention to the phase. Two trial program where we see this study duration,

670

01:45:34.210 --> 01:45:48.570

Dr. Paul Feuerstadt: we see the punch cd two, and the Punch open. Label Study had up to twenty four months of follow up for both safety and efficacy largely different from the standard six-month follow-up that most other studies have undergone.

671

01:45:48.580 --> 01:46:10.589

Dr. Paul Feuerstadt: Now, when we look at the punching, a three program. We see again a prospect of randomized control trial and an open-label study, and the retrospective analysis is Interesting retrospective analysis is an analysis of patients that didn't meet criteria to answer into the study, or chose not to participate in clinical trials. They were given the product under Enforcement discretion, with an open access opportunity.

672

01:46:10.600 --> 01:46:20.179

Dr. Paul Feuerstadt: Most importantly. There was consistency of safety and efficacy across these trials. Next slide, please. When we look at the punch cd three data,

673

01:46:20.200 --> 01:46:31.669

Dr. Paul Feuerstadt: we're we're looking at a prospective, multi-center, randomized placebo controlled trial of patients that have had one or more recurrence of cedar seal. All that received a standard

674

01:46:31.680 --> 01:46:58.680

Dr. Paul Feuerstadt: their into microbial they had a washout period between the ends of the antimicrobial and intervention, and then they were randomized to and receive a placebo or rebiota. Importantly within this analysis the easy in an analysis, was performed. Since the phase two trial program had the same exact formulation of rebiota, no changing dosing, the same diagnostics, similar patient populations and similar safety and efficacy assessments.

675

01:46:58.690 --> 01:47:09.020

Dr. Paul Feuerstadt: The data could be leveraged through a Bayesian analysis if consistency of efficacy by the placebo and rebiota remains

across the that was achieved

676

01:47:09.030 --> 01:47:28.490

Brenda Hudson: the overall happiness in the Rebyota was seventy point, six percent versus fifty-seven point five percent The close to Your probability of superiority was point nine nine, one showing statistic significance and efficacy was shown for first recurrence, and beyond there were no significance, for during emerging adverse

677

01:47:28.500 --> 01:47:31.090

Dr. Paul Feuerstadt: with this next slide, please.

678

01:47:33.210 --> 01:47:52.880

Dr. Paul Feuerstadt: Rebyota has been assessed in a sustained fashion. This is the phase two data follow, and what we see is that six months of the patients who responded. Initially, ninety seven percent remain responsive. Ninety Five percent remain responsive at twelve and at twenty, four months ninety one percent remain responsive. So those who respond

679

01:47:53.960 --> 01:47:57.149

Dr. Paul Feuerstadt: respond in a hardy manner. Next slide please

680

01:48:00.090 --> 01:48:02.400

Dr. Paul Feuerstadt: different

681

01:48:03.720 --> 01:48:13.159

Dr. Paul Feuerstadt: or re-biota from fecal microbiot transplantation what differs is the factoring procedures the quality assurances associated with it and the

682

01:48:13.910 --> 01:48:17.750

Dr. Paul Feuerstadt: assistant safety and efficacy files. Fm: two

683

01:48:20.050 --> 01:48:26.070

Dr. Paul Feuerstadt: from a lot of heterogeneity. A treatment that's done in one location would be completely different than one that's done in another next slide, please.

684

01:48:27.060 --> 01:48:35.189

Dr. Paul Feuerstadt: So the bigger question comes up is, Well, what

are there specific subgroups that might benefit more from a product like Rebiota?

685

01:48:35.200 --> 01:48:53.989

Dr. Paul Feuerstadt: And the answer was put forward at a major digestive Disease Conference earlier this year in May, in San Diego, California, where subgroup analyses of the phase, three data looked at specific groups, age, gender, race number of episodes. Once again that consistency was fully there for re-biota

686

01:48:54.000 --> 01:49:07.919

Dr. Paul Feuerstadt: it consistently performed the reverse of safety and efficacy, no matter how you slice the data. So what about Bezlo Toxinab? Bezo Toxinab is a fully humanized monoclonal antibody designed to find toxin b in a specific matter

687

01:49:07.930 --> 01:49:16.980

Dr. Paul Feuerstadt: but Bezlo toxin. It can't be used in certain populations like a congested part failure population, since it's associated with exacerbations of congested art. Failure

688

01:49:17.190 --> 01:49:18.670

Dr. Paul Feuerstadt: next slide please.

689

01:49:20.470 --> 01:49:33.529

Dr. Paul Feuerstadt: So, putting all of this together, reviolate is the first microbiome to face live biotherapeutic product to be approved for the prevention of recurrence of clustereditis or c-defenseal infection.

690

01:49:33.540 --> 01:49:41.559

Brenda Hudson: It's indicated in one minute remaining. It's indicated in adults eighteen and over who have

691

01:49:41.570 --> 01:49:58.839

Dr. Paul Feuerstadt: recurrent c. To facil infection for the prevention of recurrence who are receiving a standard of care, anti-microbial. Importantly, we've seen consistent data across three phase two trials two phase, three trials and a retrospective open access. Analysis This is a major Step forward.

692

01:49:58.850 --> 01:50:02.050

Dr. Paul Feuerstadt: There are no specific subgroups that this should be limited to

693

01:50:02.430 --> 01:50:05.590

Dr. Paul Feuerstadt: thank you so much for your attention, and i'll accept any questions

694

01:50:10.510 --> 01:50:11.880

Drew Kasper: right.

695

01:50:12.350 --> 01:50:20.189

Drew Kasper: Thank you very much for your presentation. Are there any questions from the public or from Cms

696

01:50:21.100 --> 01:50:30.030

Drew Kasper: this time? You can raise a hand with questions, or you can type them into the Q. And a feature of the zoom webinar.

697

01:50:30.510 --> 01:50:35.300

Drew Kasper: Or if you've called in and don't have a computer, you can email us

698

01:50:37.140 --> 01:50:40.869

Drew Kasper: new tech at Cms. Hhs. Gov.

699

01:50:44.960 --> 01:50:47.450

I'm. Not to any raised hands yet.

700

01:50:48.900 --> 01:50:51.630

Drew Kasper: More questions in the Q. A.

701

01:50:52.650 --> 01:50:55.990

Drew Kasper: Looking at the new tech mailbox

702

01:50:59.320 --> 01:51:03.230

Drew Kasper: not have new questions in the new tech mailbox.

703

01:51:05.620 --> 01:51:09.229

Drew Kasper: I'm. Going to give it another moment in case folks are

still

704

01:51:09.550 --> 01:51:11.260

Drew Kasper: not working on

705

01:51:11.900 --> 01:51:14.269

Drew Kasper: into that raise hand feature

706

01:51:16.520 --> 01:51:20.010

Drew Kasper: no raised hands from,

707

01:51:21.450 --> 01:51:27.050

Drew Kasper: and what group of it and these and I see no raised hands from.

708

01:51:29.940 --> 01:51:31.300

Drew Kasper: Okay,

709

01:51:32.110 --> 01:51:35.229

Drew Kasper: All right. Well, thank you again very much,

710

01:51:35.840 --> 01:51:38.539

Drew Kasper: and we will not.

711

01:51:38.930 --> 01:51:45.589

Drew Kasper: We will now hear from presenters for the on the Tuba Civil technology application.

712

01:51:45.810 --> 01:51:48.510

Drew Kasper: You can now go ahead and unmute.

713

01:51:51.870 --> 01:51:55.129

Dr. Ronit Simantov: Thank you. This is Ronnie Simmon to.

714

01:51:55.140 --> 01:51:59.189

Dr. Ronit Simantov: I I will go off the video in order to preserve bandwidth.

715

01:52:00.630 --> 01:52:04.299

Dr. Ronit Simantov: I'll be talking about Oma Duba cell today. Next slide, please.

716

01:52:04.980 --> 01:52:11.330

Dr. Ronit Simantov: College of a cell is an investigational agent, and has not been approved by any agency. Next slide, please.

717

01:52:13.020 --> 01:52:22.529

Dr. Ronit Simantov: A tuba cell is a product the potential to serve as a donor source for patients in need of a bone marrow or hematopoietic stem cell transplant

718

01:52:23.060 --> 01:52:25.990

upon the approval it will be the first.

719

01:52:26.000 --> 01:52:40.670

Dr. Ronit Simantov: Fda approved advanced cell therapy to be used as a donor source for the treatment of patients with hematological malignancies like leukemia and lymphoma, we need an allogenic hematopoietic stem cell transplant

720

01:52:40.940 --> 01:52:48.309

Dr. Ronit Simantov: when we do, a cell is currently under review. At Fda was a PDUFA action. Date of May, the first two thousand and twenty.

721

01:52:48.480 --> 01:52:51.889

Dr. Ronit Simantov: Let's receive. Break through therapy designation as well as orphan

722

01:52:51.900 --> 01:52:53.369

Dr. Ronit Simantov: drug designation.

723

01:52:54.010 --> 01:53:03.929

Dr. Ronit Simantov: The full data of the Phase III study were published in blood in October, two thousand and twenty one, and I would refer to some of those data here today. Next slide, please.

724

01:53:05.740 --> 01:53:24.329

Dr. Ronit Simantov: The Minnesota has pioneered Nicotinamide or Nam

technology as an approach to the expansion of stem cells. Historically, stem cells and culture have been notoriously difficult to culture. They differentiate in culture and become metabolically stressed.

725

01:53:24.340 --> 01:53:38.990

Dr. Ronit Simantov: What the tndamide technology does is it preserves or up, regulates transcription transcription factors that activate self-renewal and self-cycle regulation as well as Dna repair,

726

01:53:39.000 --> 01:53:46.419

Dr. Ronit Simantov: while down regulating inflammatory signals antoctic signals and reactive oxygen species

727

01:53:46.510 --> 01:54:02.730

Dr. Ronit Simantov: on the right is our cartoon that illustrates how the stem cells, cultured with the nam technology in Omaduba cell are resistant to oxidative stress and reactive oxygen species, environments

728

01:54:02.750 --> 01:54:12.600

Dr. Ronit Simantov: mimicking the environment of the bone marrow where de novo stem cell production takes place.

729

01:54:14.030 --> 01:54:19.450

Dr. Ronit Simantov: The time for processing and manufacturing and shipping on maduba cells depicted on this slide.

730

01:54:19.560 --> 01:54:27.780

Dr. Ronit Simantov: Owen-domo cell is created as a patient-specific cell therapy it uses umbilical core blood as a starting material

731

01:54:27.790 --> 01:54:31.720

Dr. Ronit Simantov: and that needs to be selected specifically for each patient.

732

01:54:31.730 --> 01:54:44.730

Dr. Ronit Simantov: Patients are identified and typed according to their hla, and that needs to be matched to a donor source. The umbilical core blood starting material for that specific patient

733

01:54:44.740 --> 01:54:52.639

Dr. Ronit Simantov: cord. Blood, however, has fewer matching requirements, or a less stringent matching requirement than other sources for Gorman or transplant.

734

01:54:53.340 --> 01:55:04.510

Dr. Ronit Simantov: Once the search is completed and a core blood unit is selected. It's shipped to our manufacturing site, where it undergoes culturing and processing,

735

01:55:04.520 --> 01:55:06.959

Dr. Ronit Simantov: and then is shipped to the transplant center

736

01:55:07.630 --> 01:55:09.989

Dr. Ronit Simantov: patients who undergo transplant,

737

01:55:10.000 --> 01:55:24.699

Dr. Ronit Simantov: undergo a conditioning regiment of chemotherapy and radiation prior to the infusion of Omiduov that renders their blood cell counts very very low or almost nonexistent. It basically eradicates their bone.

738

01:55:24.920 --> 01:55:37.170

Dr. Ronit Simantov: Patients are then infused with O Madubo cell as a donor cell source, and are monitored carefully until the there's hemat aquatic recovery, and they're stable enough to leave the hospital

739

01:55:37.330 --> 01:55:38.580

Dr. Ronit Simantov: next slide

740

01:55:40.240 --> 01:55:49.740

Dr. Ronit Simantov: Olympic, so it will expand the quality of donor sources and provide reliable access by a couple of things that are outlined on this slide.

741

01:55:49.750 --> 01:56:06.419

Dr. Ronit Simantov: First of all, because of the less stringent matching requirements, patients who might not be able to identify a donor source in the registries can potentially identify and don't, of course, to the poor blood registries. In fact, patients who are

742

01:56:06.430 --> 01:56:15.910

Dr. Ronit Simantov: on Caucasian have a much lower probability of identifying a source for bone marrow. Transplant from the adult donor registries

743

01:56:15.980 --> 01:56:18.630

Dr. Ronit Simantov: In the homosexual phase, we study

744

01:56:19.200 --> 01:56:31.320

Dr. Ronit Simantov: Twenty Four percent of the patients were of ethnic and racial minorities, signifying the ability of on the Duba cell to represent a donor source for those patients.

745

01:56:31.970 --> 01:56:44.789

Dr. Ronit Simantov: It also addresses barriers to the use of local cord blood, and though a portable that has been used as a donor source, but has a very small number of cells, and we're doing so does by increasing the number of cells in that

746

01:56:44.800 --> 01:56:57.269

Dr. Ronit Simantov: a donor source will make the dose adequate for adults and for others, and will improve the outcomes in patients because of stem cell numbers are higher next slide.

747

01:56:58.610 --> 01:57:03.150

Dr. Ronit Simantov: The data for this are found in the phase three global randomized study

748

01:57:03.330 --> 01:57:09.209

Dr. Ronit Simantov: patients enrolled in the study had high-risk, hematologic malignancies, like leukemia and lymphoma

749

01:57:09.220 --> 01:57:16.800

Dr. Ronit Simantov: they were eligible for an algebraic combat, poetic stem cell transplant but had no readily available match donor

750

01:57:16.930 --> 01:57:23.249

Dr. Ronit Simantov: one hundred and twenty five patients were randomized to receive either omen, duba, cell, or umbilical cord blood.

751

01:57:23.260 --> 01:57:37.690

Dr. Ronit Simantov: The primary endpoint for the study was time to neutrophil and grasp it for the time it took for the mutual count the absolute neutral account, a subset of white cells to reach at least five hundred cells per my earlier for three days in a row.

752

01:57:38.120 --> 01:57:40.580

Dr. Ronit Simantov: Secondary endpoints included

753

01:57:40.600 --> 01:57:49.779

Dr. Ronit Simantov: Platelet and grasp it. The time it comes to place to recover, as well as intersections and hospitalizations, as well as other safety and ffc endpoints next slide.

754

01:57:52.310 --> 01:57:56.489

Dr. Ronit Simantov: These are the results of the primary endpoint in one of the secondary endpoints,

755

01:57:56.500 --> 01:58:01.709

Dr. Ronit Simantov: transparent with oma Duba cell resulted in this significantly faster time to in graph it.

756

01:58:01.750 --> 01:58:13.480

Dr. Ronit Simantov: On the left is the Protocol population, showing the cumulative incidence of neutrophil and rasm with with Omiduba cell in the red, showing that patients who are transplanted with a do a cell,

757

01:58:13.990 --> 01:58:20.110

Dr. Ronit Simantov: we're able to recover The neutral counts faster than patients who are transplanted with cord blood,

758

01:58:20.150 --> 01:58:26.519

with a Median times neutral phone grassment of ten versus twenty days and a p-value of less than zero point zero zero one

759

01:58:26.840 --> 01:58:34.949

Dr. Ronit Simantov: ninja fill and grasp. It was accompanied by the faster recovery and platele and graph mint, which was also the

760

01:58:35.010 --> 01:58:42.409

Dr. Ronit Simantov: shorter in patients, were transplanted with ameduba cell than with cord blood, and it was statistically significant

761

01:58:42.590 --> 01:58:43.920

Dr. Ronit Simantov: next slide.

762

01:58:48.520 --> 01:58:58.240

Brenda Hudson: But recovery is important, because nutrients are important for the immune function of patients after transplant, and Indeed, we found our three-minute remaining

763

01:58:58.310 --> 01:59:01.589

Dr. Ronit Simantov: that patients who are transplanted with omen do we cell

764

01:59:01.600 --> 01:59:12.959

Dr. Ronit Simantov: had a so lower percentage of infections than patients transplanted with court and that included serious infections, factory or fungal, as well as viral infections. Next slide

765

01:59:15.010 --> 01:59:29.409

Dr. Ronit Simantov: the decreased percentage of patients with infections also translated to less time spent in the hospital. This slide shows the days alive and out of the hospital for patients. In the first One Hundred Days Post. Transplant

766

01:59:29.570 --> 01:59:36.530

Dr. Ronit Simantov: patients transplanted with Omega, so spent more time out of the hospital. This is statistically significant as well.

767

01:59:36.670 --> 01:59:37.830

Dr. Ronit Simantov: Excellent.

768

01:59:40.820 --> 01:59:54.730

Dr. Ronit Simantov: The study was not power to detect a difference in overall survival, but, as you can see on this council in my own, there's a trend towards improvement in survival, with a seventy-three percent survival rate in patients transplanted

769

02:00:00.270 --> 02:00:10.069

Dr. Ronit Simantov: and patient-reported outcome analyses showed clinically meaningful and sustained improvements, functional and overall. Well-being compared to the for and blood group.

770

02:00:10.430 --> 02:00:24.100

Dr. Ronit Simantov: An additional study looking at a retrospective analysis of patients transplanted in our phase one, two, and three studies from sustained hematopoiesis. As long as ten years after transplant

771

02:00:24.170 --> 02:00:25.340

Dr. Ronit Simantov: excellent,

772

02:00:27.810 --> 02:00:31.889

Dr. Ronit Simantov: all the totality of the data shows that Omega so

773

02:00:32.560 --> 02:00:43.820

Dr. Ronit Simantov: has the potential to be the first patient-specific advanced cellular therapy donor source meaning a high unmet need for a diverse group of patients with humanological agencies who need transplant

774

02:00:44.250 --> 02:00:55.540

Dr. Ronit Simantov: the nam technology has an overall favorable benefit, risk profile providing high-quality stem cells and clinically meaningful clinical improvements in patients

775

02:00:56.230 --> 02:00:59.150

Brenda Hudson: with that I won't be.

776

02:00:59.260 --> 02:01:00.510

Dr. Ronit Simantov: Thank you.

777

02:01:09.660 --> 02:01:11.769

Dr. Ronit Simantov: Happy to take questions at this time.

778

02:01:21.870 --> 02:01:29.920

Drew Kasper: I see we do have some raised hands here. Let's start with Dr. Perry election.

779

02:01:30.820 --> 02:01:32.380
Perry Alexion: Good morning. Thank you.

780
02:01:32.770 --> 02:01:35.490
Dr. Ronit Simantov: Good morning. Thank you for your presentation.

781
02:01:35.820 --> 02:01:45.399
Perry Alexion: Does the use of the technology expand the potential for the umbilical cord? By? That is to say,

782
02:01:45.760 --> 02:01:57.710
Perry Alexion: are the the the the standards of use slower? Or is there still a threshold that must be met for the cord blood to be used in transplant? If the technology isn't is employed

783
02:01:59.300 --> 02:02:29.180
Dr. Ronit Simantov: support, but it is used in transplant and has to meet minimum standards in order to be used in transplant on its own. But the technology does is increases the ability of the cortex to be used by increasing the number of cells in that poor blood, but also has to be certain standards to be used in the manufacturing. But so standards the manufacturing. Then it proves upon the blood by increasing the numbers and maintaining stemness of the cells in the blood, so it can be used in larger patients

784
02:02:37.720 --> 02:02:39.990
Perry Alexion: Not clearly getting the answer i'm seeking

785
02:02:40.000 --> 02:02:51.269
Dr. Ronit Simantov: um that is to say, would would would cord blood be able to be used with the technology that otherwise would not be used in a transplant.

786
02:02:52.970 --> 02:03:12.560
Dr. Ronit Simantov: I understand. So when chords so cord blood is limited in this number of cells, so in certain patients, what would not be a a certain core blood unit would not be considered useful for those patients, because it just didn't have enough cells. If you then apply the technology to that unit of poor blood, it can be used

787
02:03:12.570 --> 02:03:18.679
Dr. Ronit Simantov: that patient, so it does increase the ability of

court to be used in patients with transplant.

788

02:03:26.420 --> 02:03:27.599

Perry Alexion: Okay, thank you.

789

02:03:29.810 --> 02:03:33.319

Drew Kasper: Okay. And we have another question from Valerie at all.

790

02:03:35.160 --> 02:03:46.530

Valerie Favela: Hi, We note that the Horowitz phase three article involved patients up to age sixty five. Can you clarify whether the outcome scene are generalizable to the Medicare population?

791

02:03:47.550 --> 02:04:03.699

Dr. Ronit Simantov: We have not studied patients older than the age of sixty, five at this time, but the patients who were in the older age range in the study did benefit to the same extent that patients who were younger. So we anticipate that older patients will,

792

02:04:03.710 --> 02:04:33.119

Dr. Ronit Simantov: if they are eligible for transplant, and have the diseases that don't make them acquire a transplant. We anticipate that that would provide a similar benefit, because those patients require a donor source just like the applications do. Um. And, in fact, those patients may actually be more susceptible to infections, and are at higher risk for prolonged Nujupenia. And so one would think that the older population actually could stand to benefit from all juices.

793

02:04:33.130 --> 02:04:34.099

It's about,

794

02:04:36.640 --> 02:04:37.830

Valerie Favela: thank you.

795

02:04:48.680 --> 02:04:52.169

Drew Kasper: Not seeing any raised hands

796

02:04:52.580 --> 02:04:57.950

Drew Kasper: from panelists and not seeing any raised hands from other attendees.

797

02:04:59.480 --> 02:05:01.980

Drew Kasper: There are no new questions in the Q. And A.

798

02:05:03.710 --> 02:05:08.190

Drew Kasper: And there are no new questions in the new tech mailbox.

799

02:05:09.490 --> 02:05:13.030

Drew Kasper: Okay? So last call for questions.

800

02:05:15.910 --> 02:05:19.130

Drew Kasper: And with that we thank you.

801

02:05:19.590 --> 02:05:26.220

Drew Kasper: We'll now hear from our presenters for the Turle Vaz or Turla Crescent

802

02:05:26.610 --> 02:05:28.500

Drew Kasper: technology application.

803

02:05:29.840 --> 02:05:31.460

Drew Kasper: Now go ahead and unmute

804

02:05:47.310 --> 02:05:55.269

Dr. Khurram Jamil: and Dr. Jamal, you you are still muted in zoom to look at Here, There we go

805

02:06:07.990 --> 02:06:11.979

Dr. Khurram Jamil: first. Sd. Approved treatment for Hrs in the country,

806

02:06:11.990 --> 02:06:17.049

and in order to preserve the bandwidth. I'll turn off the camera

807

02:06:19.780 --> 02:06:21.050

Dr. Khurram Jamil: next slide.

808

02:06:36.610 --> 02:06:43.899

Dr. Khurram Jamil: It has the highest mortality of any complication of

cirrhosis, as you can see from the captain. Mark curve the

809

02:06:43.970 --> 02:06:47.429

if left untreated, the median survival is less than two

810

02:06:48.700 --> 02:06:49.860

Dr. Khurram Jamil: next slide

811

02:07:07.900 --> 02:07:14.169

Dr. Khurram Jamil: again. These are head-to-head studies against moderate and of tritide combination, and or of enough.

812

02:07:14.680 --> 02:07:15.980

Dr. Khurram Jamil: Next slide

813

02:07:42.020 --> 02:07:43.139

Dr. Khurram Jamil: next slide

814

02:07:44.710 --> 02:07:59.410

Dr. Khurram Jamil: confirmed trial was the largest prospective receiver control study. It enrolled three hundred patients in two to one randomization to twenty percent or perceived to arm with open label. Arguments in both cohorts.

815

02:07:59.840 --> 02:08:05.769

Dr. Khurram Jamil: Subjects receive telepresence at one milligram every six hours. Iv. Bowlers;

816

02:08:05.900 --> 02:08:13.290

Dr. Khurram Jamil: and if the dose, if the treatment. Ah! Responses less than thirty percent on day four a dose could be increased.

817

02:08:13.960 --> 02:08:18.749

Dr. Khurram Jamil: Majority of sessions are enrolled in us, trials, more than fifty percent

818

02:08:18.830 --> 02:08:22.800

Dr. Khurram Jamil: centers and a handful of them were also involved in Canada.

819

02:08:23.340 --> 02:08:31.540

Dr. Khurram Jamil: These patients were very sick, as indicated by their males. Score of thirty, three, their sit and crack, you know, three point five

820

02:08:31.690 --> 02:08:33.999

Dr. Khurram Jamil: and child field class, c.

821

02:08:34.090 --> 02:08:38.590

Dr. Khurram Jamil: In two-thirds of the patient, which is the highest degree of advanced labor. Disease.

822

02:08:39.700 --> 02:08:43.249

Dr. Khurram Jamil: Forty percent of patients were transferred from at the hospital

823

02:08:49.220 --> 02:08:50.450

Dr. Khurram Jamil: next slide

824

02:08:52.420 --> 02:08:53.849

Dr. Khurram Jamil: confirm this also,

825

02:09:12.960 --> 02:09:21.739

Dr. Khurram Jamil: followed by at least ten days survival without any form of or T. During this period, as we can see perfect twice as many patients

826

02:09:22.330 --> 02:09:28.700

point on to repressing compared to February or element alone with a p-value of zero point, zero, zero, six

827

02:09:29.660 --> 02:09:30.789

Dr. Khurram Jamil: next slide.

828

02:09:32.560 --> 02:09:40.090

Dr. Khurram Jamil: There are four predefined Second V end points, and they capture incidents of such a as reversal, which is the most common

829

02:09:53.280 --> 02:09:54.440

Dr. Khurram Jamil: next slide,

830

02:09:56.390 --> 02:10:14.220

Dr. Khurram Jamil: as we can see self-presented subjects achieved highly statistical, significant results in three of those four secondary endpoints and even in verified that there is a we know, Waker and speed at thirty at least fifty percent of it achieved the secondary endpoint

831

02:10:15.220 --> 02:10:16.290

Dr. Khurram Jamil: next slide

832

02:10:19.070 --> 02:10:26.440

Dr. Khurram Jamil: insulin of real replacement, therapy or rrt through day ninety was a predefined endpoint in confirmed the

833

02:10:27.290 --> 02:10:39.449

Dr. Khurram Jamil: it's worth noting that Rrt carries far more morbidity in patient with advanced labour disease anti-compensation, such as hrs compared to a chronic initiative

834

02:10:43.670 --> 02:10:47.070

Dr. Khurram Jamil: as part of poracity in a grass-laver disease

835

02:11:01.470 --> 02:11:02.500

Dr. Khurram Jamil: next one.

836

02:11:02.820 --> 02:11:03.850

Dr. Khurram Jamil: It's like,

837

02:11:20.100 --> 02:11:24.060

Dr. Khurram Jamil: I don't roughly only twenty percent of patients, but transfer listed

838

02:11:24.090 --> 02:11:26.809

Dr. Khurram Jamil: even if you get it in a timely matter.

839

02:11:26.860 --> 02:11:30.589

Dr. Khurram Jamil: In fact, basically Us. Data in the country

840

02:11:37.610 --> 02:11:38.630

Dr. Khurram Jamil: next slide.

841

02:11:41.250 --> 02:11:45.600

Dr. Khurram Jamil: The majority of patients in confirmed were treated on a regular floor

842

02:11:45.790 --> 02:11:55.440

Dr. Khurram Jamil: selling-present or can be bears, unlike other proteins or suppressors, such as northern nesting or with the protein, does not require dose titration

843

02:11:55.560 --> 02:11:57.229

Dr. Khurram Jamil: for cardiac monitoring.

844

02:11:57.870 --> 02:12:03.839

Dr. Khurram Jamil: It can be also given as per for line, and does not require a central line for the integration.

845

02:12:04.320 --> 02:12:10.050

Dr. Khurram Jamil: Eighty five percent of subjects can confirm were treated on a regular floor or leverage unit

846

02:12:18.200 --> 02:12:21.300

significantly more in television cohort compared to the

847

02:12:22.810 --> 02:12:23.910

Dr. Khurram Jamil: next slide.

848

02:12:38.530 --> 02:12:39.599

Dr. Khurram Jamil: Second,

849

02:12:42.360 --> 02:12:45.869

Dr. Khurram Jamil: looking at a form of a competing in and out,

850

02:12:46.000 --> 02:12:56.100

Dr. Khurram Jamil: transport or t or dialysis, and that are unwanted outcomes. We can see that patients on telepresence, more subject for a life through day, nineteen

851

02:12:56.380 --> 02:13:00.369

without requiring r two. Then placebo alone.

852

02:13:00.650 --> 02:13:03.990

Brenda Hudson: There are three minutes remaining

853

02:13:04.120 --> 02:13:05.410

Dr. Khurram Jamil: next slide.

854

02:13:07.640 --> 02:13:19.960

Dr. Khurram Jamil: These These two slides are too badly for the benefit of such as reversal across three Us. Trials over the last fifteen years. We know patients who achieve the air transplant have roughly one hundred percent survival.

855

02:13:19.970 --> 02:13:24.499

Dr. Khurram Jamil: But the middle capital marker shows that those who are Hs reversal, the

856

02:13:24.720 --> 02:13:28.970

Dr. Khurram Jamil: and most people of transplants still had better survivor than both.

857

02:13:29.200 --> 02:13:31.669

Dr. Khurram Jamil: With No, it's just a so, and no deal with craftsman

858

02:13:32.770 --> 02:13:33.800

Dr. Khurram Jamil: next slide.

859

02:13:43.370 --> 02:13:45.690

Dr. Khurram Jamil: Those who had no adjustment

860

02:13:53.720 --> 02:13:54.760

Dr. Khurram Jamil: next slide

861

02:14:17.240 --> 02:14:18.469

Dr. Khurram Jamil: next slide.

862

02:14:20.490 --> 02:14:30.930

Dr. Khurram Jamil: We saw that in confirmed study compared to the two previous study, there was forty percent higher use of algebra in in patients before they were randomized to twenty p

863

02:14:31.240 --> 02:14:32.439

Dr. Khurram Jamil: next slide.

864

02:14:34.040 --> 02:14:50.650

Dr. Khurram Jamil: We also know that, based on the guideline changes ten years ago there has been increased use of algebra as an actual encouraging in managing session with us. But until the results from confirmed study came out, and also a reason. You were used to a tired, published same time last year.

865

02:14:50.660 --> 02:15:00.899

Dr. Khurram Jamil: They both highlighted the need for proper food management, and also those modifications and patients who have food overload and restory complications at the time of randomization

866

02:15:01.440 --> 02:15:04.270

Brenda Hudson: there is one minute remaining.

867

02:15:05.530 --> 02:15:06.670

Next slide.

868

02:15:07.670 --> 02:15:18.730

Dr. Khurram Jamil: We also find confirmed that patients who have three or more failing oriented baseline acl up, grade three at higher risk of developigatory complication on telegraph.

869

02:15:18.890 --> 02:15:35.900

Dr. Khurram Jamil: Hence this will be data curled Usb our label includes warnings around proper food management, intra-vascular food self monitoring also it recommends advisors against using a polyvare invasion who have

870

02:15:40.450 --> 02:15:42.630

Dr. Khurram Jamil: that you should be avoided

871

02:15:52.380 --> 02:16:10.010

Dr. Khurram Jamil: I don't know syndrome being patiently and state labour disease it's a first-hand treatment of option based on the Us. And its national treatment Guidelines confirms that we demonstrate a greater incidents of such a reversal lowering for dialogue says there was a higher incident of respiratory competition

872

02:16:17.200 --> 02:16:21.069

to present significant improvement in current We are center of scale.

873

02:16:24.550 --> 02:16:26.980

Dr. Khurram Jamil: I'll be happy to answer any questions.

874

02:16:35.570 --> 02:16:38.910

Drew Kasper: Hi! This is. Can you hear me?

875

02:16:40.340 --> 02:16:55.789

Dr. Khurram Jamil: Yes, I can hear you. Okay, I work at Cms. Um. Could you? Um comment on the similarity of the death rates at day ninety between the Placebo group and the Trump present group. Thank you.

876

02:16:57.280 --> 02:17:14.530

Um. There was traditionally no difference in mortality in two thousand and one, and the reason is that, especially especially with very advanced with a disease such as there was a node concern study thirty percent, in fact, only one complication which we are,

877

02:17:14.540 --> 02:17:29.429

Dr. Khurram Jamil: and these patients are at risk of dying of other complications, such as a pair of need sepsis severe, that against the collaborative to name it, and only the difference that can make in those long term outcomes is a

878

02:17:30.330 --> 02:17:32.960

Dr. Khurram Jamil: in the overall patient population. The

879

02:17:32.969 --> 02:17:46.499

Dr. Khurram Jamil: there was no difference in mortality, and we didn't expect a difference, and that's why mortality has never been studied as a primary and borne, or a secondary important in us.

880

02:17:52.250 --> 02:17:53.479

E L Hambrick: Thank you.

881

02:18:00.629 --> 02:18:06.640

Drew Kasper: And I believe that question was from Dr. Hamburg. Yes, okay. So that was the raised hand.

882

02:18:07.280 --> 02:18:10.189

Drew Kasper: Any other raised hands at the moment

883

02:18:11.330 --> 02:18:16.399

Drew Kasper: standing across other question avenues. There are no questions in the Q. And A.

884

02:18:17.580 --> 02:18:19.030

Drew Kasper: And

885

02:18:19.350 --> 02:18:37.209

Drew Kasper: there are no questions in the new tech mailbox for those that might not have computer access right now. They can use the new tech at Cms at Dot Hhs Gov. New tech at Cms dot dot Hhs Gov:

886

02:18:37.530 --> 02:18:44.489

Drew Kasper: you can use if you're on telephone only, and don't have access to the zoom Q. And A.

887

02:18:44.840 --> 02:18:47.289

Drew Kasper: Or raise hand features.

888

02:18:47.299 --> 02:19:04.369

Drew Kasper: So I don't see any new raised hands, and I don't see any new questions in the Q. And A. So again thank you for your presentation, and at this point we will be adjourning for a lunch break,

889

02:19:05.100 --> 02:19:11.510

Drew Kasper: after which we will return with Hepsado Kit after lunch at one thousand two hundred and thirty,

890

02:19:12.170 --> 02:19:15.510

Drew Kasper: you know. Feel free to leave your

891

02:19:15.900 --> 02:19:20.320

Drew Kasper: computer logged in and we'll see you back here

892

02:19:20.510 --> 02:19:21.639

Drew Kasper: and

893

02:19:21.930 --> 02:19:23.170

Drew Kasper: twelve thirty.

894

02:19:26.010 --> 02:19:28.259

Drew Kasper: Thank you to all of our morning presenters.

895

02:20:08.190 --> 02:20:24.620

Drew Kasper: Hello, everyone! We will begin again in just a minute. I just wanted to take a moment to remind everyone that while general attendees are muted and should use the raise hand function to be unmuted,

896

02:20:25.400 --> 02:20:32.620

Drew Kasper: the panelists, consisting of presenters and participants, are responsible for your own mute functions.

897

02:20:32.870 --> 02:20:51.679

Drew Kasper: So please do make sure you're muted when other people are speaking, and if we do hear background noise we may mute you in zoom. Um. So if you're using your other, your phone's mute feature and please to be aware that you could be double muted when it is time for you to talk.

898

02:20:52.010 --> 02:21:05.700

Drew Kasper: Thanks very much, and we've just hit twelve, thirty. So we will now hear from presenters for the Hepsado Kit technology application. You may Now unmute your phone.

899

02:21:06.500 --> 02:21:07.670

Thank you.

900

02:21:07.750 --> 02:21:13.039

Dr. Johnny John: Good afternoon. My name is Dr. Johnny John and I'm here to present the hebsato kit

901

02:21:13.160 --> 02:21:14.699

Dr. Johnny John: next slide, please.

902

02:21:15.710 --> 02:21:19.689

Dr. Johnny John: Ocular momentum is approximately five percent of all melanomas,

903

02:21:19.700 --> 02:21:33.190

Dr. Johnny John: with a Us. Incidence of a of of approximately one thousand five hundred to one thousand six hundred cases per year, half of all ocular mallocations develop metastatic disease, and for ninety percent of these stations metastasis that curs and the liver,

904

02:21:33.200 --> 02:21:37.349

Dr. Johnny John: often with a diffuse or military pattern, Next slide, please.

905

02:21:39.110 --> 02:21:56.919

Dr. Johnny John: Patients Ah, once diagnosed with um have a have a difficult treatment to pad pathway. Ah! Once a patient develops metastatic. Ah! Ocular melanoma, the prognosis and outcomes are poor with a Median survival of ten to twelve months. Next slide, please.

906

02:21:58.860 --> 02:22:18.540

Dr. Johnny John: Current treatment. Optionism can be categorized into two categories. They could be liver-directed, for example, Trans. Bacterial chemonization and radiomization, or cert using y ninety or there could be systemic treatments, such as chemotherapy, immunotherapy or biological agents

907

02:22:18.840 --> 02:22:29.880

Dr. Johnny John: recently there was a first-time approval of an Ovid therapy for metastatic Yugoslav and earlier This year with the approval of kimtrack or tomentifest

908

02:22:30.970 --> 02:22:43.880

Dr. Johnny John: this approval did apply to a certain subset of patients with ocular malenoma, approximately forty five percent of patients that had a specific allele known as the Hla, a two genotype

909

02:22:43.890 --> 02:22:45.319

Dr. Johnny John: Next slide, please,

910

02:22:47.990 --> 02:22:52.320

Dr. Johnny John: we'll come back to the slide so we could skip this for the moment. Next slide, please.

911

02:22:53.590 --> 02:22:57.020

Dr. Johnny John: The Malfun kit is a drug device. Combination.

912

02:22:57.580 --> 02:23:07.400

Dr. Johnny John: The drug involved in the mealflow. Hexoto kit is malflu hydrochloride, which is given at a dose of three milligrams per kilogram. Ideal body. Weight

913

02:23:07.710 --> 02:23:17.300

Dr. Johnny John: The device is known as the hepatic delivery system, and consists of a catheters and a extra corporeal circuit along with a filter next slide, please.

914

02:23:19.220 --> 02:23:24.320

Dr. Johnny John: So this light provides a schematic of the of the hepatic delivery system.

915

02:23:24.560 --> 02:23:38.449

Dr. Johnny John: Access to the patient is through the moral axis. The infusion catheter is inserted into the thermal artery, and directly injects the high dose, novel, and hydrochloride into the liver.

916

02:23:38.830 --> 02:23:56.739

Dr. Johnny John: The efflux or blood flowing out of the river is collected by a second catheter that's introduced through the Memorial day, and it directs the blood through the extra corporeal circuit through the filters that you can see on the left. Here the two double filters and the the filtered blood.

917

02:23:56.750 --> 02:24:03.289

Dr. Johnny John: The mul of is removed is re injected into the patient through the internal jugular bay.

918

02:24:03.300 --> 02:24:04.720

Dr. Johnny John: Next slide, please.

919

02:24:07.070 --> 02:24:21.719

Dr. Johnny John: This is a slide to show that the current procedure that is employed for the meltdown Hds. Kit is in the current Nccn guidelines under the isolation profusion of the liver category.

920

02:24:21.960 --> 02:24:23.560

Dr. Johnny John: Next slide, please.

921

02:24:25.740 --> 02:24:33.189

Dr. Johnny John: The data that i'm going to present today comes from a global phase, three focused trial

922

02:24:33.200 --> 02:24:52.989

Dr. Johnny John: global phase, three trials known as the Focus trial. This was a trial that was conducted in in the United States and in countries in Western Europe there were twenty three centers and one hundred and two subjects were enrolled in the trial. Patients were treated every six to eight weeks, and a maximum of of cycles were allowed for for each, for each patient.

923

02:24:53.000 --> 02:24:54.550

Dr. Johnny John: Next slide, please.

924

02:24:56.900 --> 02:25:15.590

Dr. Johnny John: This is a quick schematic of what the trial um and design was. On the upper left. You can see that the trial started as a randomized trial with a one to one randomization for patients with Phd. And Bac. The best alternative car care are

925

02:25:15.600 --> 02:25:19.349

Dr. Johnny John: in the bacr, and patients were given one of four choices,

926

02:25:19.600 --> 02:25:32.199

Dr. Johnny John: a procedure known as liberties, and all sorts of things to a very specific thing and a chemotherapy.

927

02:25:32.290 --> 02:25:35.700

Dr. Arash Mostaghimi: That's one thing I want to pronounce once once the

928

02:25:36.280 --> 02:25:44.890

Dr. Johnny John: I. If you're not speaking, please do leave your home. We're hearing some background noise.

929

02:25:44.900 --> 02:25:46.940

Dr. Arash Mostaghimi: Okay, thank you.

930

02:25:48.300 --> 02:25:51.369

Dr. Johnny John: So the accomplishment. This is so,

931

02:25:51.810 --> 02:25:52.869

Dr. Arash Mostaghimi: and

932

02:25:53.610 --> 02:26:05.090

Dr. Johnny John: the initial trial design was amended when patients were withdrawing from the bac arm, and it was amended to a single arm trial that you can see the design presented bottom next slide, please.

933

02:26:08.190 --> 02:26:22.190

Dr. Johnny John: So the the primary endpoint for the trial was Orr objective response rate, followed by a duration of response. On the left you can see that the data that was obtained for the Php patients

934

02:26:22.200 --> 02:26:40.449

Dr. Johnny John: that received the hepsato kit, which was ninety One patients there were thirty-three patients that um showed a response for thirty, six point, three percent of patients with thirty-three point, three percent Orr in the Bac arm, which was thirty two patients. There were four responders or twelve point five percent

935

02:26:41.000 --> 02:27:00.260

Dr. Johnny John: in terms of disease control rate, which includes responders plus stable disease patients, sixty-seven of the ninety one patients who fell into this category for seventy-three point six percent Dcr for the bac arm. This was thirty, seven point five

936

02:27:00.270 --> 02:27:06.999

Dr. Johnny John: we've provided the p-values there, and you can see that they're statistically significant along with the confidence intervals

937

02:27:07.010 --> 02:27:08.169

Dr. Johnny John: on the right,

938

02:27:08.500 --> 02:27:26.790

Dr. Johnny John: the table that demonstrates the duration of response that was obtained during the trial. So the the response rate was durable in the Php population medium. Dr. Was fourteen months. We've provided the conferences for this in the bac.

939

02:27:26.800 --> 02:27:33.639

Dr. Johnny John: The number of patients that did obtain their response. This was not

940

02:27:33.650 --> 02:27:49.549

Dr. Johnny John: all together in the Php. Out of the ninety one patients we had thirty-three bases, that had a response of seven crs and twenty-six prs. In the bacr. There were four patients that had a response, and they were all the ours. Next slide. Please.

941

02:27:51.500 --> 02:27:58.490

Dr. Johnny John: This is a slide showing the progression of you survival Kaplan Meyer curve on the left. The Php. Patients are in the

942

02:27:58.500 --> 02:28:15.619

Dr. Johnny John: purple and the B. You see, patients are in the teal color on the right. We have the Median progression free survival data, which was nine point zero, three months of the phrases a three point one, two months in the

943

02:28:15.640 --> 02:28:16.589

Dr. Johnny John: the p-value

944

02:28:16.600 --> 02:28:19.330

Brenda Hudson: there are three minutes remaining.

945

02:28:19.580 --> 02:28:25.320

Dr. Johnny John: P-value and Constant are also provided, and you can

see there's particularly significant. Next slide, please,

946

02:28:26.900 --> 02:28:35.709

Dr. Johnny John: in terms of overall solid rival. The study was not powered for overall survival, but the capital admire occur again is shown on the left Php. In the Bac arms.

947

02:28:35.720 --> 02:28:48.680

Dr. Johnny John: We are still following patients for overall progression and survival. But currently the Median Os is nineteen point two, five months of the Phr. Ah versus fourteen point four, nine months of the bacr next slide, please.

948

02:28:51.260 --> 02:29:05.750

Dr. Johnny John: In this slide we show the waterfall plots for both arms of the trot. The Php patients on the left. Each line there represents a patient any, any, any any line below the horizontal line indicates a decrease in the tumor.

949

02:29:05.760 --> 02:29:21.870

Dr. Johnny John: Um uh tumor of size observed for these patients, you can see that the the green lines there represent the seven complete responses that were observed in the Php patients under the right. We have a similar waterfall block, where the bac pitches next slide, please,

950

02:29:23.550 --> 02:29:42.599

Dr. Johnny John: in terms of safety or address events observed in the We are providing a table here of serious treatment, emergent diverse events that occurred in any category that was above five percent of patients. So this fell into three categories, schematological, respiratory, and cardiac

951

02:29:42.750 --> 02:29:55.969

Dr. Johnny John: There were no treatment-related deaths during the trial, and the majority of all adverse events, including series, are well-known expected and manageable by the treating physicians next slide please

952

02:29:57.270 --> 02:30:09.399

Dr. Johnny John: so in terms of reviewing the treatment options for available for the patients on this slide on the left, we have with the Hezato Kit. You can see that the high efficacy Orr is thirty, six

point, three percent

953

02:30:09.410 --> 02:30:27.910

Brenda Hudson: in terms of patients surviving over twelve months. It was seventy seven percent of the patients. It is repeatable, and it applies to all patients that that that have this disease. Next slide, please. There is one minute remaining in terms of a direct comparison to the recent approved Kim track. One

954

02:30:27.920 --> 02:30:43.680

Dr. Johnny John: ah or toventifest um to manifest is only for forty-five percent of patients that have this have have metastatic doctrine Malnoma you have to have the specific gene, and you can see that the data used for the approval, the page, all contractations for treatment by

955

02:30:43.690 --> 02:31:02.449

Dr. Johnny John: in in in in our trial that patients could have prior therapy in terms of complete response. It was seven point seven percent observed for the focus trial versus zero. The partial response. Of twenty, eight point six versus nine. Your comparison is thirty, six point, three percent versus nine percent

956

02:31:02.460 --> 02:31:13.729

Dr. Johnny John: and in terms of disease control rate seventy-three point six versus forty-six, and then the overall Kfs medium Fs: nine point zero three months versus three point three months

957

02:31:13.740 --> 02:31:38.680

Dr. Johnny John: um and a and a duration of fourteen months versus nine point nine months, an immediate over of survival. Twenty point five, three months versus twenty, one point six months. We also provide a six-month bfs and a one-year Os comparison with sixty six patients that we're alive six months and eighty patients in one year or less for them. Ah, for the focus trial, using the soda kit versus thirty, one patients for

958

02:31:38.690 --> 02:31:45.710

Dr. Johnny John: for the Kim track, where to van a fest in six months and seventy three patients in the one-year-old was so far

959

02:31:45.720 --> 02:31:55.610

Dr. Johnny John: so. We do feel that this meets the criteria of a

clinical significant political benefit for this on that need for this fiction population.

960

02:31:55.960 --> 02:31:58.029

Dr. Johnny John: I'm happy to take any questions.

961

02:32:01.480 --> 02:32:04.820

Drew Kasper: Thank you very much for your presentation.

962

02:32:04.830 --> 02:32:08.240

Drew Kasper: Are there any questions from the public

963

02:32:09.200 --> 02:32:10.999

Drew Kasper: or Cms

964

02:32:12.140 --> 02:32:21.560

Drew Kasper: as a reminder? Please use the Q. And a function or the raised hand function in zoom, or if you're called in, only you can email us at

965

02:32:21.930 --> 02:32:26.320

Drew Kasper: New Tech at Cms. Hhs. Gov. The

966

02:32:28.440 --> 02:32:31.349

Drew Kasper: and I could start us out with a question. Here.

967

02:32:32.640 --> 02:32:43.230

Drew Kasper: Is there an established population of patients ineligible for a surgical oversection and systemic chemotherapy that could be treated with hepato kits.

968

02:32:45.070 --> 02:33:00.859

Dr. Johnny John: Yes, it it so happens with metastatic killer melanoma, the the the the presentation of the disease in the liver is diffuse or with micrometastatic presentation what we call a milling representation.

969

02:33:00.870 --> 02:33:15.859

Dr. Johnny John: So there is a very small percent of patients that would be eligible for surgical dissection. The majority of patients

would not be eligible, and would have to seek either liver, directive, therapy, or systemic.

970

02:33:18.260 --> 02:33:20.619

Drew Kasper: Okay, and for those that are

971

02:33:20.810 --> 02:33:26.870

Drew Kasper: ineligible or aren't good candidates for systemic therapy. But would you

972

02:33:27.060 --> 02:33:40.050

Drew Kasper: um be expected to tolerate or respond well to hepsato Kit? Is that population a a known or established or quantified population?

973

02:33:40.410 --> 02:34:08.949

Dr. Johnny John: Well, um In the In the trial we did not limit um the the the patients who had prior systemic therapy. So um! It would be the same population that is eligible for societal therapy. We allowed all prior therapies, whether it's just a make or a liver directed. Um! Ah, you know patients to um to enroll and have ah Abs out of kit treat as long as there was a wash out period, so that they will recover from the toxins from the prior there.

974

02:34:08.960 --> 02:34:24.260

Dr. Johnny John: Um! And the excluded, and this included immunotherapy as well. So the you know the answer to your question is, you know the same population that is, um, you know, has a availability of receiving system for a new therapy. Can we see how that? Okay?

975

02:34:31.460 --> 02:34:35.590

Drew Kasper: Are there other questions from the public or from

976

02:34:39.040 --> 02:34:42.790

Drew Kasper: I use the raise hand feature. Um, go ahead, Edena.

977

02:34:43.940 --> 02:34:51.129

Adina Hersko: This is a follow up set question So to clarify all patients could be eligible for systemic chemotherapy.

978

02:34:52.790 --> 02:35:00.990

Dr. Johnny John: All patients could be that that had systemic therapy are eligible for heads out of fifty. Yes,

979

02:35:02.430 --> 02:35:06.319

Adina Hersko: So the question i'm asking is a little bit different from that um

980

02:35:06.570 --> 02:35:17.659

Adina Hersko: Are their patients with medicine at oxy or melanoma will deliver burden, all eligible for the first prim of chemotherapy, or the coroner anywhere that's contrindicated.

981

02:35:18.100 --> 02:35:30.889

Dr. Johnny John: Well, and I hope I understand your question. No. So the tumor burden in the liver we restricted to a maximum of fifty percent.

982

02:35:31.010 --> 02:35:45.000

Dr. Johnny John: So if patients have a tumor burden that supersedes fifty percent of total liver volume. They would not be eligible for a heps out of treatment. They could still be eligible for systemic therapy, but not, for example.

983

02:35:46.450 --> 02:35:47.499

Adina Hersko: Thank you.

984

02:35:53.270 --> 02:36:12.089

Drew Kasper: I i'm sorry I just want to make sure. I understand now as a follow-on question to that. So there are folks who wouldn't be eligible for hipsado kit, but could still receive systemic therapy. But the the opposite is not true. Is that what you're saying, where there are,

985

02:36:12.690 --> 02:36:27.010

Drew Kasper: there wouldn't be a group of patients who are ineligible or not good candidates for systemic therapy, but yet could be good candidates for hepsado,

986

02:36:27.580 --> 02:36:47.400

Dr. Johnny John: and my point was that um you know any patient um, you know whether the patient is eligible for so semi- therapy or not. Our criteria is that with the tumor burden. Um, Any Any candidate for

hebsato kid um must have a tumor bringing less than fifty percent.

987

02:36:47.410 --> 02:36:54.620

Dr. Johnny John: So any person over to a fifty percent tumor burden would not be a candidate for

988

02:36:59.850 --> 02:37:03.739

Drew Kasper: any other questions from the public, or from Cms.

989

02:37:05.240 --> 02:37:07.399

Drew Kasper: Iing for raised hands.

990

02:37:08.430 --> 02:37:10.130

Drew Kasper: I don't see any

991

02:37:11.100 --> 02:37:14.039

Drew Kasper: general attendees. I don't see any with panelists,

992

02:37:14.700 --> 02:37:21.069

Drew Kasper: and I don't see any new questions in the new Tech mailbox or the Q. And A.

993

02:37:21.650 --> 02:37:22.760

Drew Kasper: Okay

994

02:37:23.300 --> 02:37:28.399

Drew Kasper: right? Well again, Thank you very much,

995

02:37:28.450 --> 02:37:34.669

Drew Kasper: and we will now hear from presenters from Al Renatomab

996

02:37:36.070 --> 02:37:39.959

Drew Kasper: technology application, and you may now unmute your phone.

997

02:37:40.690 --> 02:37:49.000

Dr. Caroline Hoang: Thank you. Good afternoon. My name is Caroline Hong, and I am employed and compensated by Pfizer as a Us. Medical affairs hematology, team lead

998

02:37:49.010 --> 02:38:00.780

Dr. Caroline Hoang: in the next ten minutes I will provide an overview of the applications submitted in support of eldar and atomat in the setting of relapsed refractory multi-p myeloma. Please note that Lor anatomab is not yet Fda approved. Next slide, please.

999

02:38:01.650 --> 02:38:12.240

Dr. Caroline Hoang: Albern Atomab, which i'll refer to as Ellra is an investigational humanized by a specific antibody targeting Bcma and Cd. Three personalized manufacturing is not required to produce. Lra.

1000

02:38:12.270 --> 02:38:22.340

Dr. Caroline Hoang: The mechanism of action is shown on the right. Briefly, Ellra engages cd three on t-cells and bcma on myeloma cells, to induce selective t cell, mediated cytolysis

1001

02:38:22.350 --> 02:38:34.640

Dr. Caroline Hoang: to reiterate. Elrea is not yet approved by the Fda. It's worth noting. That early last month the Fda granted breakthrough therapy designation to Ellra for relapse refractory, multiple Dalai Lama after four prior lines of therapy.

1002

02:38:34.650 --> 02:38:47.720

Dr. Caroline Hoang: This highlights the potential of Ellra as a therapeutic option in this treatment setting, and it also highlights the high, unmet need for patients with multiple myeloma whose disease has progressed through multiple lines of therapy. And i'll talk about that more on the next slide, please.

1003

02:38:48.670 --> 02:39:06.270

Dr. Caroline Hoang: Multiple myeloma is a disease characterized by the build up of polygonic plasma cells or myeloma cells of the bone marrow. It's the second most common blood cancer in adults in the Us. More often diagnosed in men than women, and it's also a disease of older adults with the median age at diagnosis being sixty eight years.

1004

02:39:06.280 --> 02:39:17.870

Dr. Caroline Hoang: It's important to call out that multiple dilemma is the most common blood cancer in black Americans who are twice as likely to be diagnosed with, and twice as likely to die for multiple dilemma compared with their non-black counterparts

1005

02:39:17.880 --> 02:39:39.869

Dr. Caroline Hoang: for most patients with multiple dilemma, the disease is considered incurable with inevitable relapse, and the challenge in treating this disease is shown below. The vertical access represents the level of M. Protein, the biochemical hallmark of myeloma, where high circulating levels are associated with symptomatic active disease, while the horizontal access depicts the number of lines of therapy used to treat active disease.

1006

02:39:39.880 --> 02:39:52.940

Dr. Caroline Hoang: The main takeaway here is that as patients progress through multiple lines of therapy collapsed, disease is less likely to respond, and the duration of response becomes shorter until eventually the disease is refractory to further treatment. Next slide, please

1007

02:39:54.130 --> 02:40:22.370

Dr. Caroline Hoang: Shown on this slide are claims made in the application that support. Why elbow represents a substantial cynical improvement over existing treatment. The bulk of my remaining time will be focused on the most recent Elmer data. But before that i'll touch briefly on existing therapies. That, said the presentation will be limited to therapies available at the time of our N. Tap submission, and it's worth noting that the therapeutic landscape and the setting of relapsed, refractory, multiple myeloma has since changed, but will not be covered here. Next slide, please,

1008

02:40:24.140 --> 02:40:38.519

Dr. Caroline Hoang: as mentioned. Earlier, achieving response to subsequent therapy is challenging in patients with disease that is, triple-class refractory, meaning. It no longer responds to three main classes of drug, a proteasome inhibitor, an immunomodulatory drug and an anti-cd thirty, eight,

1009

02:40:38.560 --> 02:40:51.380

Dr. Caroline Hoang: and this is shown in the table on the right, which summarizes the design and results from separate studies evaluating philanthropy selenixor or conventional chemo for patients with heavily pre-treated tripleclass refractory disease

1010

02:40:51.390 --> 02:41:01.740

Dr. Caroline Hoang: focusing in on the data within the red box. The objective response rates range from twenty five percent to thirty one with complete response rates ranging from zero point. Four to three

next slide, please.

1011

02:41:03.390 --> 02:41:20.800

Dr. Caroline Hoang: Vcma-car t therapies have provided substantial clinical improvement over targeted therapies and conventional chemo in the study and overlapped refractory disease with objective response rates of at least seventy percent and stringent cr rates of at least twenty nine percent carte therapies, however, are largely unveiled.

1012

02:41:20.810 --> 02:41:39.869

Dr. Caroline Hoang: First, access is limited to select authorized medical centers specializing in the administration of cellular therapies. Second, most patients waiting for car T. Do not receive it, because the personalized manufacturing process typically requires weeks, and most patients with heavily pre treated, relaxed, refractory disease, experience, relapse or death. During the week.

1013

02:41:40.040 --> 02:41:58.360

Dr. Caroline Hoang: Third patients with inadequate renal function, a common complication of multiple myeloma require careful consideration, as they are at higher risk for toxicity with lympho depleting regimens that must precede carbon therapy. And one final point there is limited data evaluating carte in patients at least sixty five years of age,

1014

02:41:58.370 --> 02:42:06.080

Dr. Caroline Hoang: approximately a third of patients in the Id cell and silica cell registrational studies respectively, where age sixty five are older. Next, like, please.

1015

02:42:07.270 --> 02:42:13.529

Dr. Caroline Hoang: The rest of the presentation will focus on the aroad data presented this past weekend at the Ash annual meeting next slide, Please

1016

02:42:14.640 --> 02:42:27.200

Dr. Caroline Hoang: shown Here is a study design for our registration enabling magnetism. Three study referred to as Mm. Three, an open label, multi-center non-randomized phase, two trial and patients with triple-class refractory seeds,

1017

02:42:27.210 --> 02:42:39.350

Dr. Caroline Hoang: The study consists of two independent cohorts cohort a enrolled Bcma. Naive patients and cohort be enrolled prior

Bcma exposed patients. The data recorded here is from cohort A. Only

1018

02:42:39.360 --> 02:42:51.530

Dr. Caroline Hoang: in this study. The full dose of Ellra is a seventy six milligram fixed, dose administered, subcutaneous once weekly, after a step up regimen of twelve milligrams on day one and thirty, two milligrams on day four

1019

02:42:51.540 --> 02:43:08.029

Dr. Caroline Hoang: per protocol. Patients were hospitalized for the first forty, eight hours after step up dose one and the first twenty four hours after step up dose two. No hospitalization was required with the full dose. The primary endpoint is objective response rate by blinded, independent central review. Next slide, please

1020

02:43:09.090 --> 02:43:25.259

Dr. Caroline Hoang: shown here are patient demographics and baseline disease characteristics. To the left. The Median age of patients in cohort A was sixty eight years. It's not shown on the slide, but I want to call out that eighty of the one hundred and twenty three patients for sixty, four percent, or at least sixty, five years old

1021

02:43:25.270 --> 02:43:36.559

Dr. Caroline Hoang: in cohort, overall. Seven percent of patients were black or African, American, and in cohort a patients enrolled in the US. Only seventeen percent of patients were black or African American

1022

02:43:36.570 --> 02:44:04.879

Dr. Caroline Hoang: multiple core prognostic features were present in the baseline disease characteristics most notable. A quarter of patients had high-risk cytogenetics a third of patients had extrachromosomal disease, and there was heavy pre-treatment captured in the prior lines of therapy, in which there were a median of five exposure status, in which all patients were triple-class, exposed and refractory status, in which nearly all patients were triple-class refractory. And all Nearly all patients were refractory to the last line of therapy.

1023

02:44:05.360 --> 02:44:06.889

Dr. Caroline Hoang: Next slide please.

1024

02:44:08.320 --> 02:44:23.360

Dr. Caroline Hoang: Efficacy Data from cohort. A of Mm. Three are shown here with a medium duration of follow up of ten point four months. The bar graph on the left summarizes the objective response rate, which was sixty, one, twenty, seven point, six percent of patients achieved a complete response, or, better,

1025

02:44:23.370 --> 02:44:33.939

Dr. Caroline Hoang: in the subset of patients at least sixty, five years or older, and as a reminder that was eight hundred and twenty three patients, the objective response rate is consistent with the overall population,

1026

02:44:33.990 --> 02:44:49.780

Brenda Hudson: as shown on the Kaplan Meyer Curve to the right. The median duration of response in patients who achieved a partial response are better, has not been reached. Responses are durable with the probability of maintaining response at nine months being eighty, four percent next slide, please share our three-minute remaining.

1027

02:44:49.790 --> 02:45:10.919

Dr. Caroline Hoang: The safety profile is shown here for cohort a the most common grade, three four treatment, emergent adverse events for chemical logic the majority of non-heem treatment. Emergent events for grade one or two with cytokine release, syndrome or crs being the most common, and i'll talk about that A little more later infection was observed in two thirds of patients with thirty, five percent of infection, events being rate three, four,

1028

02:45:10.930 --> 02:45:20.389

Dr. Caroline Hoang: fifteen percent of patients with treatment. Emergent adverse events permanently discontinued. Elro please note this discontinuation rate does not reflect treatment related.

1029

02:45:20.400 --> 02:45:30.040

Dr. Caroline Hoang: Dads were reported in twenty, one patients with eleven of those deaths being due to progressive disease, and of those deaths two or considered treatment related for investigator. Next slide, please.

1030

02:45:31.100 --> 02:45:38.590

Dr. Caroline Hoang: Immuno oncology therapies that harness, t-cell activation are associated with crs and immune cell associated neurotoxicity

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02:45:38.600 --> 02:45:44.669

Dr. Caroline Hoang: no more toxicity syndrome, or I cans the slide here characterizes these events from Mm. Three

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02:45:44.750 --> 02:45:59.359

Dr. Caroline Hoang: again one hundred and twenty-three patients, or in the safety population. But note that the first four patients in Mm. Three received a single forty, four milligram, step up dose of all the one hundred, while the remaining one hundred and nineteen received the twelve milligram, thirty, two milligrams step up regiment,

1033

02:45:59.370 --> 02:46:19.690

Dr. Caroline Hoang: and the data shown shown here, and the first four patients were excluded. The table to the left summarizes the rates and management of Crs and icons. Please note that there were no grade, three, four crs or icons events. I won't go through the data in detail, but focusing on Ics. First we see that four patients experienced icons and three of those cases were grade. Two

1034

02:46:19.700 --> 02:46:28.090

Dr. Caroline Hoang: icans was managed with tocy and steroids, and none of the patients permanently discontinued aroad due to Ics. In addition, there were no fatal neurotoxicity events

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02:46:28.100 --> 02:46:45.389

Brenda Hudson: focusing on crs. We see the majority of crs, events for grade, one with grade, two events reported in fourteen percent of patients. Fifteen percent of patients experience more than grade more than one Crs event patients who manage with toasti or steroids, and no patients permanently discontinued aroad due to Crs on the right hand side

1036

02:46:45.400 --> 02:46:51.440

Brenda Hudson: that visualizes the timing of Crs events for Elro, for each patient

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02:46:51.450 --> 02:47:20.440

Dr. Caroline Hoang: going from left to right on the horizontal axis. The first and second hash hash marks represents double dose. One and step up does two respectively. The third hash mark is the third nose, which is the first full dose of era, and the fourth hash part represents doses for and beyond the majority of Crs events occurred with step up dosing. The rate of crs was forty, five percent after

dose, one, twenty percent after dose, two and six percent after dose, three and less than one percent after dose for and beyond the main takeaway. Here is a crs profile that aura is predicted.

1038

02:47:20.460 --> 02:47:28.300

Dr. Caroline Hoang: Crs events are early and manageable with supportive care. And again, no patients permanently discontinued Elro, due to Crs next slide, please.

1039

02:47:29.730 --> 02:47:42.470

Dr. Caroline Hoang: In summary. There is currently high unmet need implications for the real astro factory, multiple nyloma after multiple lines of therapy, and this is due largely to either inadequate response rates or challenges in broad immediate access with available treatments.

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02:47:42.480 --> 02:47:49.769

Dr. Caroline Hoang: Ellra is expected to provide substantial clinical improvement in this treatment setting, and it is well studied in patients sixty five years of age and older.

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02:47:50.240 --> 02:47:58.989

Dr. Caroline Hoang: The potential of Elro to demonstrate significant improvement over existing therapies was recognized by the Fda with the breakthrough therapy designation granted in early November.

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02:47:59.000 --> 02:47:59.869

Dr. Caroline Hoang: Thank you.

1043

02:48:06.260 --> 02:48:09.790

Drew Kasper: Okay. Thank you for your presentation.

1044

02:48:10.560 --> 02:48:14.880

Drew Kasper: Are there any questions from the public or from Cms.

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02:48:16.960 --> 02:48:20.180

Drew Kasper: Now enter your questions in the Q. And A.

1046

02:48:20.310 --> 02:48:22.110

Drew Kasper: Raise a hand,

1047

02:48:23.140 --> 02:48:30.619

Drew Kasper: or if you're on telephone only, and don't have access to those features, you can email us at N. Ew. Tvch,

1048

02:48:30.750 --> 02:48:33.650

Drew Kasper: at B. M. S. Dot A. H. S. Gov.

1049

02:48:37.570 --> 02:48:46.280

Drew Kasper: No questions in the Q. And A. I do see a raised hands about Dr. Alexei.

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02:48:47.250 --> 02:48:49.690

Perry Alexion: Good afternoon. Thank you for your presentation.

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02:48:49.700 --> 02:49:01.699

Perry Alexion: There's some evidence to suggest that parties therapies may be amendable to patients with real and sufficiently insufficiency, at least in the in the lymphoma setting.

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02:49:01.710 --> 02:49:11.350

Perry Alexion: Do you find that as being a significant portion of the of the reasons for in availability of Car t in your second bullet

1053

02:49:14.730 --> 02:49:32.330

Dr. Caroline Hoang: um from the the publications. Um! And what is out there in to-reviewed journals? It is not I. I don't believe that renal ah inadequate renal function is the reason for that. There I believe that it's a manufacturing process, and the availability of slots for patients

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02:49:32.340 --> 02:49:34.930

Dr. Caroline Hoang: that limit the access to the treatment.

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02:49:38.830 --> 02:49:39.989

Okay, thank you.

1056

02:49:45.450 --> 02:49:48.549

Drew Kasper: Any follow up questions or

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02:49:49.220 --> 02:49:54.050

Drew Kasper: for their questions. I do see Adena and her scope. Please proceed.

1058

02:49:55.120 --> 02:50:07.489

Adina Hersko: Thank you. And will the data from cohort be that you mentioned with where patients were tested with Prior, Bcme, therapy, c. Provided to Cms one won't be available.

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02:50:09.400 --> 02:50:20.949

Dr. Caroline Hoang: The data from cohort B um has not been presented or published yet. Um, we are waiting for a longer follow up to to present that data when it is available, we will make it available to Cms:

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02:50:23.150 --> 02:50:24.220

Adina Hersko: Thank you.

1061

02:50:31.680 --> 02:50:32.930

Drew Kasper: A.

1062

02:50:33.150 --> 02:50:36.819

Drew Kasper: I don't see any new questions in the new tech mailbox.

1063

02:50:37.570 --> 02:50:39.869

Drew Kasper: No new questions in the Q. A

1064

02:50:40.350 --> 02:50:44.949

Drew Kasper: last call for follow up questions from attendees or panelists,

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02:50:49.400 --> 02:50:51.159

Drew Kasper: Adina, Is that a following

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02:51:04.650 --> 02:51:07.960

Adina Hersko: any of the evidence here, or any thoughts about that.

1067

02:51:08.550 --> 02:51:38.129

Dr. Caroline Hoang: Yes, um so ah! Between the ah submission of our application and the presentation today another vcm a by-specific

cluster. Math was approved for relapse. Your factory multiple myeloma after four prior lines of therapy. In addition to that the latomap the pcma antibody drug conjugate has made public that they've ah initiated plans to withdraw the the U. S. Indication, because of a

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02:51:38.140 --> 02:51:55.750

Dr. Caroline Hoang: three study that that did not meet the the primary endpoint, I think, in terms of the the application. There is no evidence at this time to suggest that Elvin Asom app is or is not substantially different from tquista map.

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02:51:55.760 --> 02:52:07.510

Dr. Caroline Hoang: Um! It's our position that these two therapies should be considered as a class against other therapies, and not against each other in terms of the in-tap submission.

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02:52:09.980 --> 02:52:11.020

Adina Hersko: Thank you.

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02:52:15.950 --> 02:52:18.300

Drew Kasper: And last call for any other questions.

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02:52:20.400 --> 02:52:26.630

Drew Kasper: There are no hands raised, nothing new in the Q. And A. And no new emails at the new tech mailbox.

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02:52:27.320 --> 02:52:40.879

Drew Kasper: So with that, thank you again. We will now hear from presenters for the Soviet Union technology application, and you may Now unmute your phone.

1074

02:52:41.920 --> 02:52:51.610

Dr. Arash Mostaghimi: Good afternoon. I'm a Raj mah sugimi. And today i'm excited to talk to you about Sp. Viggo and generalize Buster's rises where for adults next slide, please,

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02:52:52.550 --> 02:53:22.140

Dr. Arash Mostaghimi: so as to Viggo, is a first and class humanized monochronal antibody against il thirty six is part of the innate immune pathway as part of the I. One family of cytokines that includes three isoforms, A, B and and Gamma, and also an antagonist, and when the aisle thirty six pathway is activated. It leads to downstream

information, including neutrophilic information which is the core of partial,

1076

02:53:22.150 --> 02:53:44.190

Dr. Arash Mostaghimi: ah generalized questionlosis. So aisle thirty. Six. Our pathway is distinct from the Tnf and aisle twenty three pathways that we are familiar with for Psoriasis and I'll go a little bit into the details of this momentarily, and we're excited that the Viggo, as of September of this year, is actually approved for the treatment of generalized question which rises, flares and adults

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02:53:44.200 --> 02:53:45.230

Dr. Arash Mostaghimi: next slide.

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02:53:47.440 --> 02:54:12.440

Dr. Arash Mostaghimi: So unlike psoriasis, which has a more indolent course. Generalized butular psoriasis is a multi-systemic disease with a relapsing and remaining clinical course acute generosis is notable for flares where you get scattered sterile pustules occurring all over the body, although the word psoriasis is in the name Gpp. This can occur with or without psoriasis,

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02:54:12.450 --> 02:54:20.969

Dr. Arash Mostaghimi: and when people get these spots. They have distinct skin symptoms, including pain and

1080

02:54:20.980 --> 02:54:34.239

Dr. Arash Mostaghimi: and peritis, but they also get systemic symptoms, including fever, which i'll go into into the next slide. There are also systemic signs of inflammation, which again we'll review it more closely on the next slide. Next slide, please.

1081

02:54:35.930 --> 02:55:04.710

Dr. Arash Mostaghimi: So to draw the distinction between Gpp and plaques. For is this a little bit more clearly? So? As I said, the primary skin finding and Gpp is the partial. So you get these little studded white dots over the body, and in addition to the skin findings, you have substantial morbidity, including fever. Malays pain increased inflammatory markers and organ involvement, including hepatic, renal, respiratory, and cardiovascular systems.

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02:55:04.720 --> 02:55:16.390

Dr. Arash Mostaghimi: The mortality from this affair can be up to

sixteen percent, as reported in some studies. Gpp can occur in patients who have a history of plaques, viruses, or can occur independently without psoriasis

1083

02:55:16.400 --> 02:55:35.969

Dr. Arash Mostaghimi: in contrast psoriasis is a bit more familiar with in general is a chronic inflammatory condition with sharp boundaries. It may have some cluster of this that's not the primary endpoint, and although it may flare, it has a much more indolent Ah! And chronic component to it.

1084

02:55:35.980 --> 02:55:41.179

Dr. Arash Mostaghimi: When it does flare it does not have the systemic symptoms typically next slide, please.

1085

02:55:42.230 --> 02:56:12.180

Dr. Arash Mostaghimi: As a result of these flares, which are associated with both skin conditions and substantial systemic comorbidity comparing psoriasis with other inflammatory conditions, such as rheumatoid arthritis, psoriasis, and general psoriasis. It shows worst outcomes in physical functioning, vitality and mental health, as measured by the S-S. Thirty six scale on the red bar on the left is Gdp, and a lower score is,

1086

02:56:12.190 --> 02:56:19.919

Dr. Arash Mostaghimi: and you can see that across all three domains it is lower or very similar to the comparison. Cohorts next slide, please.

1087

02:56:23.800 --> 02:56:25.339

Dr. Arash Mostaghimi: Next slide, please.

1088

02:56:28.000 --> 02:56:57.770

Dr. Arash Mostaghimi: So, as I mentioned, the flares are the key component of psoriasis that's the Viggo treats at present. Ah! Flares can come in. An unpredictable fashion can be triggered by many different things. One of the most common things we see is medications, so either new medications, like biologic blockers or lithiums, but also withdrawal of temporary immunosuppressive medication. For example, if somebody takes a short course of steroids for an flare or an exacerbation of flare that they can

1089

02:56:57.780 --> 02:57:27.639

Dr. Arash Mostaghimi: results in uh, that the cessation of steroids can result in a gpp flair. Environmental triggers upon traveling or changes in season with sunlight can do it. We've seen a range of respiratory illnesses, including, uh, Coronavirus, Rsv. And other retroviral infections that can cause these triggers. There are no genetic mutations which are associated with increased risk of of Gpp. Pregnancy itself is a risk factor, and it can be particularly dangerous for both the mother and the fetus of those conditions,

1090

02:57:27.650 --> 02:57:37.769

Dr. Arash Mostaghimi: and simply stress, emotional or physical stress can cause this many times. We cannot identify a clear trigger for somebody's flair next slide, please.

1091

02:57:40.970 --> 02:58:07.649

Dr. Arash Mostaghimi: In addition to having more systemic conditions when they have a flare, the patients with Gpp have a worse comorbidity profile than plaques for Isis patients. You can see that twenty one percent of patients have arthritis versus six, with psoriasis, hyperlipidemia type, two diabetes and mental health conditions such as anxiety and depression are more highly expressed in Gdp patients than blacks rises. Patients next slide, please.

1092

02:58:09.990 --> 02:58:39.390

Dr. Arash Mostaghimi: As I mentioned there is some cross-talk, and we'll go and a little bit more detail with this on the next slide between Gpp and psoriasis. So, prior to the approval of Sp Viggo, other Psoriasis medications and biologics were typically used for the treatment of Gpp. The The challenge with these treatments is that although on some occasions they may help partially a survey in two thousand and twenty one prior to the approvals to Viggo demonstrated that eighty three percent of dermatologists reported that patients

1093

02:58:39.400 --> 02:58:45.219

Dr. Arash Mostaghimi: still have continued flares despite and residual disease. Despite these treatments. Next slide.

1094

02:58:47.860 --> 02:59:17.829

Dr. Arash Mostaghimi: Let's dive a little bit more into the aisle Thirty, six pathway, and how it differentiates Gdp from facts for Isis. So on the right you have plaques for Isis driven by I twenty, three. I'll seventeen in it alpha leading to epidermal hyperproliferation. On the left you see gpp which is defined by custules and neutrophilic drive disease driven by ile thirty, six idle six, I one, and although there's a different phenotype of disease in

the middle, you can see. There's crosstock between these two differences

1095

02:59:17.840 --> 02:59:32.480

Dr. Arash Mostaghimi: systems with some interplay between the aisle six, i'll seventeen ah pathways. So while there's some connection, and that's why some of the flax. Horiasis medications are thought to help Tpp. You can see why a more targeted is key next slide, please.

1096

02:59:34.880 --> 02:59:47.290

Dr. Arash Mostaghimi: So Slavico blocks the Io thirty, six receptor, and when it blocks a receptor it does not allow the binding of endogenous agonists. When those agonists do not bind, you do not have it

1097

02:59:47.300 --> 02:59:49.190

Campbell, Kimberly A. (CMS/CM): three minutes for a meeting

1098

02:59:49.200 --> 02:59:57.040

Dr. Arash Mostaghimi: for Io. Thirty, six to dimerize with I one, and as a result you have attenuated aisle thirty, six inflammatory signaling.

1099

02:59:57.470 --> 02:59:58.910

Dr. Arash Mostaghimi: Next slide, please.

1100

03:00:00.720 --> 03:00:09.360

Dr. Arash Mostaghimi: I'll quickly go through a proof of concept phase, one trial. This is of seven patients getting a single dose of Suvigo at ten milligrams per kilogram. Iv. Next slide.

1101

03:00:10.550 --> 03:00:19.890

Dr. Arash Mostaghimi: You can see that as soon as week one patients had substantial improvement in their postular score, with many patients clearing next slide.

1102

03:00:20.690 --> 03:00:34.299

Dr. Arash Mostaghimi: The key thing here is really in the pictures. You can see the tremendous difference between the baseline clusterlysis in both patients here at week one you had improvement of the posture, with computed improvement in Eroshema by week. Four next slide

1103

03:00:35.610 --> 03:00:59.619

Dr. Arash Mostaghimi: our pivotal trial. The Fsl. One trial design recruited fifty three patients from all across the world. They were randomized either to a single dose of nine hundred milligrams of Savigo or Placebo at on day. One at day eight patients who did not respond completely to the initial dose, or who were in the placebo, or given a second dose of Suvigo. Next slide, please.

1104

03:01:01.200 --> 03:01:22.170

Dr. Arash Mostaghimi: You can see here on the left postulation of the score. So at a week we had fifty, three, and fifty. Four percent of patients were clear from a pussular ah standpoint versus only five percent of placebo D. T. To get a plust of arithmetic and scaling forty, two percent clear at a week versus eleven percent in placebo, showing the tremendous response of this medication. Next slide, please.

1105

03:01:23.170 --> 03:01:43.189

Dr. Arash Mostaghimi: Here again you see the pictures with the resolution Ah! Of the partial beginning at day, three and completely by week, one ah! With improvements through week, twelve sustained on the bottom. You have a patient that's the same at baseline and week one post placebo res resolution of crust rules at week, two and complete clearing by week. Twelve next slide, please.

1106

03:01:45.030 --> 03:01:55.510

Dr. Arash Mostaghimi: In addition to having the improvements in their physical condition, patients report a substantial improvement in patient-reported outcomes, including pain, fatigue, and quality of life. Next slide

1107

03:01:57.360 --> 03:02:09.439

Dr. Arash Mostaghimi: the side-effect profiles were mild and included. Ah nausea and vomiting and headache Ah! Some ah for uncles and influenza were reported at a slightly higher rate than placebo next slide.

1108

03:02:11.720 --> 03:02:26.690

Dr. Arash Mostaghimi: Two areas that were identified in the trial were asidely, were two reported cases addressed in three reported cases of yamboree syndrome. These were adjudicated and found to not be true cases or not likely not caused by Svigo next slide.

1109

03:02:27.360 --> 03:02:56.629

Dr. Arash Mostaghimi: So, in conclusion, Fsl: one was a pivotal trial for Sp Viggo, which is the first in class medication uh approved for uh by the fda for treatment of pestular uh generalized clusterlosis in adults, with presenting with flares to Viggo rapidly treated their skin and improve their both skin condition and patient-reported Outcomes the most common adverse effects for a Sydney and fatigue Nige and vomiting with a no clear signal for elevated risk of infection.

1110

03:02:56.640 --> 03:03:08.759

Dr. Arash Mostaghimi: The present long-term administration of to Viggo is being evaluated in a subcutaneous formulation, and an ongoing five-year open label extension for prevention of flares. Thank you very much for your time. I'm happy to take any questions.

1111

03:03:12.290 --> 03:03:14.290

Drew Kasper: Thank you for your presentation.

1112

03:03:14.300 --> 03:03:17.770

Drew Kasper: Are there any questions from the public, or Cms

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03:03:22.980 --> 03:03:25.640

Drew Kasper: and Dina if you get it started?

1114

03:03:27.120 --> 03:03:36.050

Adina Hersko: So in this trial there was the availability of escape treatment offered for position, discretion. Can you talk about what the standard to care treatments that were offered? Were:

1115

03:03:36.750 --> 03:04:03.530

Dr. Arash Mostaghimi: Yeah. So per uh physician discretion. They had the option to uh do the traditional treatments for Gpp. If patients either did not respond or had not responded completely. Um! About seventeen percent of patients received this with six patients overall. They included topical steroids. Ah, two patients receive cyclone or methotrexate, which are conventional treatments, and one each received uh exekism at an influx of that.

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03:04:09.890 --> 03:04:16.630

Adina Hersko: Thank you. Is there any clinical evidence available comparing those treatment to the use of the Viggo?

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03:04:16.850 --> 03:04:24.389

Dr. Arash Mostaghimi: No, there haven't been randomized control trials or Fda approval for any of those treatments based on the

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03:04:24.400 --> 03:04:37.780

Dr. Arash Mostaghimi: overlap of the pathways that I presented to you. They have been ah used. But, as I said, even in in the studies, their efficacy has been very limited. They may reduce disease, but do not result in clearance, generally speaking.

1119

03:04:51.440 --> 03:04:57.320

Drew Kasper: Okay, Do we have any follow-up questions or any questions from others?

1120

03:05:02.240 --> 03:05:11.049

Drew Kasper: One here i'll ask for cms could you describe or clarify the inpatient or outpatient administration of the medication.

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03:05:11.480 --> 03:05:27.919

Dr. Arash Mostaghimi: Ah! This medication is an Iv medication. It can be administered in either. Setting Often it is given in an in-patient setting just because the patients are very ill when they are ah receiving the treatment. But it is also been given in outpatient settings at normal and fusion centers.

1122

03:05:35.280 --> 03:05:41.720

Drew Kasper: And Adina, I you have a raised hand. Is that from before? Do you have an additional question?

1123

03:05:44.590 --> 03:05:46.560

Adina Hersko: Sorry that was from before?

1124

03:05:49.170 --> 03:05:51.739

Drew Kasper: Um great. How about uh, Cindy ache.

1125

03:05:52.920 --> 03:06:10.380

Cindy Hake: I appreciate your presentation. The um, the outpatient treatments. Are they explicitly done in Id centers? Or have you had patients with the treatment at their home.

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03:06:11.350 --> 03:06:21.010

Dr. Arash Mostaghimi: My understanding to date is that the majority of patients have received treatment in fusion centers. There has been one patient who has received therapy at home.

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03:06:21.760 --> 03:06:27.970

Dr. Arash Mostaghimi: It's only been available since September, so the true treatment patterns haven't been clarified, yet

1128

03:06:32.950 --> 03:06:39.609

Cindy Hake: there's no Fda recommendations or restrictions on setting of care.

1129

03:06:40.240 --> 03:06:47.619

Dr. Arash Mostaghimi: I do not think so? No, it's based on where the where the patient is comfortable and where they have the nursing,

1130

03:07:11.920 --> 03:07:15.920

Dr. Arash Mostaghimi: you know I see your hand raise. I'm not sure if you have a question again.

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03:07:17.810 --> 03:07:33.819

Adina Hersko: Yes, so it's in the study. From what I understand, two of the patients treated were over sixty five. Can you explain whether the results being here can demonstrate whether

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03:07:34.510 --> 03:07:36.920

respond differently. Given the numbers

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03:07:39.200 --> 03:07:43.470

Dr. Arash Mostaghimi: so which patients who had What if I missed the first part?

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03:07:45.010 --> 03:07:46.790

Adina Hersko: Patients over sixty, five,

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03:07:46.800 --> 03:07:48.289

Dr. Arash Mostaghimi: a patient over sixty, five.

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03:07:48.300 --> 03:08:14.999

Dr. Arash Mostaghimi: Yes, yes, there are two patients over there. I I don't I don't have the the details separating them from from the rest of the patients. Um, so I I don't have those specifically. Um! This is a condition that affects a range of patients. Ah! Of all different ages it is very rare. Ah, so an orphan disease, which is why we only have those two, those two patients. Um. The sample size, I think, is too small to make specific conclusions. But, um! My understanding is that they talk

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03:08:15.010 --> 03:08:18.590

Dr. Arash Mostaghimi: it, that the study drug appropriately.

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03:08:29.970 --> 03:08:36.620

Adina Hersko: Another question is where any skin biopsies is done to confirm diagnosis or in follow-up assessment.

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03:08:37.510 --> 03:09:04.360

Dr. Arash Mostaghimi: So biases are not required for confirmation of this disease. Histologically, there's a lot of overlap between um just psoriasis ah acute, generalized ex andematous pustulosis, and this condition, so it's a combination of clinical assessment. And uh, and in the context of where the disease is occurring, so uh, there's not bias, is not required for inclusion. And the following biases: We're not we're not done as part of this trial.

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03:09:08.080 --> 03:09:09.240

Adina Hersko: Thank you.

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03:09:16.230 --> 03:09:32.819

Dr. Arash Mostaghimi: Yeah. So there's three different sub-scores. There's an error theme. They're scaling, and there's by oscillation, and there's a specific. There's specific guidelines for how you categorize each subscore individually and then you combine them into a total score.

1142

03:09:37.270 --> 03:09:40.049

Dr. Arash Mostaghimi: I'm not sure if that answered your your question.

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03:09:43.380 --> 03:09:44.810

Adina Hersko: Yeah, that's all. Thank you.

1144

03:09:45.850 --> 03:09:47.149

Dr. Arash Mostaghimi: You are our constituents.

1145

03:09:49.930 --> 03:09:52.139

Drew Kasper: Are there any last questions,

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03:09:54.650 --> 03:10:00.030

Drew Kasper: any questions in the Q. And A. There are currently no raised hands, and there are

1147

03:10:00.180 --> 03:10:03.449

Drew Kasper: no new questions in the new tech box.

1148

03:10:03.940 --> 03:10:07.250

Drew Kasper: Okay? Well again, Thank you.

1149

03:10:07.300 --> 03:10:17.189

Dr. Arash Mostaghimi: And we will now hear from presenters for the Sabbath Zabulin technology application. You may now unmute your phone.

1150

03:10:26.340 --> 03:10:28.400

Oh, again.

1151

03:10:33.670 --> 03:10:49.589

Fangting Yu: And Dr. Ginfallis, you may. Yeah, you're still muted. I'll say thank you to your throne or i'm still in a question for us this past two weeks. Oh, that's That's great. It's good. Yeah, it's very complimentary of both of you and and sterling to that.

1152

03:10:49.600 --> 03:10:50.990

Fangting Yu: That's good.

1153

03:10:51.000 --> 03:10:55.589

Fangting Yu: Okay, that's great. Yeah, that's been a year. I have an army. I Haven't really had to say

1154

03:10:55.600 --> 03:10:57.480

Fangting Yu: that a two of your phone.

1155

03:10:59.010 --> 03:11:02.559
Fangting Yu: We're getting there. That's exciting.

1156
03:11:04.130 --> 03:11:06.470
Drew Kasper: Okay? And Dr. Gonzalez, Are you ready?

1157
03:11:11.350 --> 03:11:14.709
Drew Kasper: I think you were unmuted for a moment. There, and

1158
03:11:15.030 --> 03:11:16.120
there we go.

1159
03:11:20.510 --> 03:11:21.830
Drew Kasper: Here, Gonzales,

1160
03:11:22.160 --> 03:11:27.339
you may be double-needed. If you have a mute on your phone as well. It looks like you're unmuted in Zoom.

1161
03:11:29.420 --> 03:11:33.119
Drew Kasper: Okay, now, i'm unmuted in both. The Ra will be all right.

1162
03:11:33.180 --> 03:11:35.500
Drew Kasper: Thank you. Yeah, Please proceed.

1163
03:11:35.660 --> 03:11:38.690
Dr. Tara L. Gonzales: Is there an echo? Because i'm unmuted in both, and I don't want to

1164
03:11:38.700 --> 03:11:39.590
echo.

1165
03:11:40.480 --> 03:11:42.250
Drew Kasper: I do not hear an echo.

1166
03:11:50.740 --> 03:12:02.170
Dr. Tara L. Gonzales: I'm going to quickly go over the Covid nineteen overview and unmet need, as it relates to mortality. Then I will introduce the visibility and go over our clinical trial data. So next

slide, please,

1167

03:12:03.900 --> 03:12:05.020

Dr. Tara L. Gonzales: next slide.

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03:12:06.890 --> 03:12:24.259

Dr. Tara L. Gonzales: So I think we all can recognize. There still is an unmet need, as it relates to Covid, nineteen mortality. This slide looks at her historical trends since March twenty twenty, and it shows that there are recurring sites throughout up to this point, and the spikes may continue

1169

03:12:24.270 --> 03:12:41.500

Dr. Tara L. Gonzales: looking at the weekly total of of Covid mortality out to November fourteenth of this year we are seeing numbers as high as one thousand nine hundred and seventy two. When I checked this morning on the Cdc. Site, even up as high as two thousand nine hundred and eighty one.

1170

03:12:42.850 --> 03:12:55.310

Dr. Tara L. Gonzales: This just underscores what it looks like from a monthly standpoint, looking at the last three to four months. We are seeing thousands of deaths that are occurring monthly, as it relates to Covid. Nineteen disease next slide, please,

1171

03:12:56.800 --> 03:13:14.630

Dr. Tara L. Gonzales: and this is even in light of available pharmacologic agents, that both function in an antiviral and anti-inflammatory manner. We're still seeing large numbers of deaths that are occurring that are averaging out to between four and five hundred per day next slide, please.

1172

03:13:17.000 --> 03:13:26.800

Dr. Tara L. Gonzales: So one of the key indicators that lead to morbidity and mortality associated with Covid. Nineteen disease is, of course, acute respiratory distress, syndrome, or ards.

1173

03:13:26.910 --> 03:13:39.900

Dr. Tara L. Gonzales: In terms of prevalence, thirty, three percent of hospitalized Covid. Nineteen patients may develop a Rds while hospitalized seventy five percent of Covid, nineteen patients who have been minutes who have been admitted to the Icu have a Rdf.

1174

03:13:39.990 --> 03:13:48.550

So preventing disease. Progression is paramount to reducing mobility and mortality. Seen with Kovat nineteen early diagnosis is

1175

03:13:48.560 --> 03:14:02.119

Dr. Tara L. Gonzales: clearly important, but also safe and effective mechanisms for treatment from an antiviral and anti-inflammatory standpoint are also important, because studies do show. Reducing inflammation can reduce progression to Ards

1176

03:14:02.140 --> 03:14:03.310

next slide, please

1177

03:14:04.780 --> 03:14:06.000

Dr. Tara L. Gonzales: next slide.

1178

03:14:07.730 --> 03:14:28.090

Dr. Tara L. Gonzales: So let me first start off by saying that the Zealand is not a Us. Fda-approved product at this time, and so the Zealand has not been granted Fda emergency use authorization in clinical trials to visibility or in West Studies for the treatment of Sars. Cov. Two Infections in hospitalizable patients with moderately severe Covid. Nineteen infection we're at high risk for

1179

03:14:28.100 --> 03:14:43.160

Dr. Tara L. Gonzales: Yes, this positive results of direct stars could be two viral testing who are hospitalized, and we're at high risk for developing ards, and for whom alternative covid. Nineteen treatment options authorized by the Fda are not accessible or not clinically appropriate.

1180

03:14:43.510 --> 03:14:51.889

Dr. Tara L. Gonzales: The visibility is dose in nine milligrams, capsules given daily orally, or can be opened and administered via the navigatric tube

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03:14:52.130 --> 03:14:57.679

Dr. Tara L. Gonzales: Viru ink has requested emergency use, authorization for the visa eulen next slide.

1182

03:14:59.770 --> 03:15:13.100

Dr. Tara L. Gonzales: So the visibility is a unique agent. It has both antiviral and anti-inflammatory processes. It is a microtubule of disruptor which functions by the inhibiting polymerization and inducing depolarization of the microtubules

1183

03:15:13.190 --> 03:15:28.980

Dr. Tara L. Gonzales: from an an antiviral standpoint to the Zebulin is believed to interrupt the transport of Sars cov two into and out of the cell thereby disrupting the sars. So we two viral life cycles from an anti-inflammatory standpoint. The visibility is believed to suppress inflammatory

1184

03:15:29.530 --> 03:15:40.360

Dr. Tara L. Gonzales: thereby reducing the cytokine storm triggered by sars. Clearly two infections specifically tnf alpha I one alpha I. 0 one beta I l six and ilh next slide, please.

1185

03:15:44.440 --> 03:16:02.699

Dr. Tara L. Gonzales: So let's look at the antiviral action. We are aware that microtubule, traffic and networks play a critical role in viral infection replication, and spread. Sars Cov. Two uses microtubules for viral entry, transport to the endoplasm for endoplasmic reticulum for replication

1186

03:16:02.710 --> 03:16:15.480

Dr. Tara L. Gonzales: and transferred to the endoplasmic reticulum golgi intermediate compartment to the golgi apparatus assembly, and finally outbound trafficking to address the infected viral particles from the south

1187

03:16:15.800 --> 03:16:27.449

Dr. Tara L. Gonzales: the visibulin targets binds and cross-link Alpha and Beta-tubulin subunits to inhibit polymerization and induce deep polymerization of the microtubules by doing this it disrupts the

1188

03:16:27.460 --> 03:16:36.000

margaret two group microtubule trafficking network, which makes them unusable for the virus, thereby disrupting and suppressing the Sars Cov. Two viral life cycle

1189

03:16:36.740 --> 03:16:37.760

slide, please,

1190

03:16:41.450 --> 03:17:00.579

Dr. Tara L. Gonzales: from an anti-inflammatory standpoint. We also know that microtubules play a key role in transporting proteins necessary for inflammation, assembly and activation to the microtubule organizing center, waiting for the release of hydrogen in the cytokines. Microtubules are also necessary for the transport of cytokines from the neutral field.

1191

03:17:00.700 --> 03:17:13.830

Dr. Tara L. Gonzales: So, by inhibiting microtubulinization and inducing deep polymerization the vibrant may inhibit the release of pyrogens or cytokines known to be involved in the in the Covid nineteen cytokine store next slide, please.

1192

03:17:16.370 --> 03:17:19.159

Dr. Tara L. Gonzales: So let's look at our phase. Three clinical study.

1193

03:17:19.220 --> 03:17:36.120

Dr. Tara L. Gonzales: So this was a randomized, double-controlled trial of Covid, nineteen patients. These were a hospitalized basis with modern to Severe Covid, nineteen at high risk for Ards, and death, and they had to be adults greater than or equal to eighteen years of age. Patients patients were randomly assigned to

1194

03:17:36.230 --> 03:17:48.219

Dr. Tara L. Gonzales: randomly signed, two to one to receive either nine milligrams of oral to visibility, or a placebo plus standard of care up to twenty, one days, or discharge whichever came first. Next slide, please.

1195

03:17:50.940 --> 03:17:53.719

Dr. Tara L. Gonzales: So i'm going to discuss our interim analysis.

1196

03:17:53.730 --> 03:17:59.019

Analysis, population that we will be discussing will be of one hundred and fifty subjects.

1197

03:17:59.150 --> 03:18:18.720

Dr. Tara L. Gonzales: Patients were included in the study. If they were greater than April to eighteen years of age, they had laboratory confirmed sars Go v. Two infection had a baseline S. C. 0. Two of less

than or equal to ninety. Four patients were then categorized, based on A. W. H. O. Nine point ordinal scale for clinical improvement.

1198

03:18:18.730 --> 03:18:20.690

Dr. Tara L. Gonzales: Patients were categorized as oh,

1199

03:18:20.700 --> 03:18:35.869

Dr. Tara L. Gonzales: for if they were receiving oxygen via mass or nasal prone, but they also had to have a document of comorbidity, such as asthma, crime, lung disease, diabetes, hypertension, severe obesity. They had to be greater than, or equal to sixty. Five years of age

1200

03:18:35.880 --> 03:18:49.690

Dr. Tara L. Gonzales: they had to primarily reside in a heresy home or a long-term care, facility, or were in their compromise. Patients were classified as wh Oh, five if they were receiving oxygen via noninvasive ventilation, or high school

1201

03:18:49.700 --> 03:18:50.800

three minutes,

1202

03:18:51.240 --> 03:19:08.899

Dr. Tara L. Gonzales: and patients who would. W. H. Six, were intubated in our mechanical ventilation. Patients were exclusive; they were pregnant of breastfeeding required mechanical ventilation, and other supportive care they were excluded. If they had hepatic insufficiency or realist efficiency, hepatic insufficiency

1203

03:19:08.910 --> 03:19:26.569

Dr. Tara L. Gonzales: was was determined by the refrunction studies that were greater than eight or three times the upper upper limit of normal, and a toability with this level that was above the upper limit of normal renal insufficiency was determined by a creative experience of less than sixty milliliters per minute. Next slide, please.

1204

03:19:28.500 --> 03:19:32.310

Dr. Tara L. Gonzales: Standard of care What's similar in both groups next slide, please.

1205

03:19:34.600 --> 03:19:50.000

Dr. Tara L. Gonzales: So, looking at the primary Fsb. Endpoint the

Zealand demonstrated a twenty, four point, nine percent absolute reduction in mortality versus the evil and standards of care that translated into a fifty five point two percent relative reduction in all all cause mortality

1206

03:19:50.010 --> 03:20:04.319

Dr. Tara L. Gonzales: um by the sixty versus standard of care, and which gave a p-value of zero point zero zero four one. The mortality rate in the of the bulin arm was twenty point two. The mortality rate in the plus c. One was forty, five point, one, six, five, please.

1207

03:20:07.240 --> 03:20:19.829

Dr. Tara L. Gonzales: And looking at the subgroup analysis, the relative existing death was consistent with overall study, results favoring for disabilities, treatment, regardless of the subgroup that they were grouped into next slide, please.

1208

03:20:21.390 --> 03:20:39.429

Dr. Tara L. Gonzales: T-secondary endpoints were as follows: For visual and treatment resulted in a forty, three percent relative reduction in ipu days a forty, nine percent relative reduction in mechanical ventilation days and a twenty, six percent reduction in hospitaling the same versus Perceval of standard of care. These were all statistically significant and exciting

1209

03:20:44.320 --> 03:21:01.190

Campbell, Kimberly A. (CMS/CM): in terms of safety. Ah! The proportion of patients who experienced any antibiotics in the vibrant treatment group was lower at sixty one point five percent compared to conceivable to seventy, eight point, three percent. And in terms of the serious adverse events there there were a lower proportion of patients who experienced

1210

03:21:01.200 --> 03:21:08.919

serious adversity of instance, the Dol and Treatment Group at twenty nine point two compared to the Placebo group at forty six point four next by planes.

1211

03:21:10.830 --> 03:21:24.439

Dr. Tara L. Gonzales: So in summary vis-bulent, has a unique mechanism of action. It functions as both an antiviral and anti-inflammatory agent in clinical clinical trials There was a fifty five point two reduction in death versus disabling

1212

03:21:24.530 --> 03:21:38.279

person's Death versus the C. One standard of care. And there was a twenty, four point, nine percent absolute reduction in mortality rate which translates to another needed to treat of four. There was reduction in Hospital Bay's, Ic. Days in the Council ventilation.

1213

03:21:38.540 --> 03:21:43.790

Peru again has requested emergencies authorization for the Zealand. Thank you very much,

1214

03:21:44.200 --> 03:21:46.060

Dr. Tara L. Gonzales: and i'm happy to answer any questions.

1215

03:21:51.300 --> 03:21:53.860

Drew Kasper: Thank you very much for your presentation.

1216

03:21:54.010 --> 03:21:57.790

Drew Kasper: I will now take questions from the public or Cms.

1217

03:21:58.290 --> 03:22:02.719

Drew Kasper: I see we do have a question in the Q. And A.

1218

03:22:03.340 --> 03:22:11.590

Drew Kasper: When does Veru expect the Fda to grant an Eu A. For Sabbath, and thank you.

1219

03:22:12.480 --> 03:22:25.770

Dr. Tara L. Gonzales: So we are waiting as well because we are applying for emergency use. There is no peduce a date, so we have. We continue to have conversations with them, but we are waiting

1220

03:22:26.670 --> 03:22:28.869

for them to come up with their decision.

1221

03:22:31.340 --> 03:22:34.680

Drew Kasper: Yeah, and uh, Adina, please go ahead and unmute.

1222

03:22:35.350 --> 03:22:48.719

Adina Hersko: Thank you. Um! You had a slide that talked about Um,

said Visibility, being tested in patients who for whom other treatments are not accessible or clinically appropriate. Can you talk more about that fusion population.

1223

03:22:49.630 --> 03:22:54.169

Dr. Tara L. Gonzales: So that is actually the Eua verbiage.

1224

03:22:54.210 --> 03:23:01.069

Dr. Tara L. Gonzales: So that's why we were able to use. That's why we included standard of care in both arms of the study,

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03:23:01.760 --> 03:23:03.300

Dr. Tara L. Gonzales: because we,

1226

03:23:03.430 --> 03:23:22.440

Dr. Tara L. Gonzales: in in order for us to meet meet that language, we had to be able to say, You know, use the standard of care that was available for people to use to use that study. So the patients that we that we looked at with faces that were included in the study those who required oxygen at a baseline o two, that of less than or equal to ninety, four,

1227

03:23:22.450 --> 03:23:27.399

Dr. Tara L. Gonzales: and we're adults; and if we're considered to be at a high risk for a Rdf.

1228

03:23:31.600 --> 03:23:38.739

Adina Hersko: So to clarify the study tested patient for whom those standard of care treatments were accessible.

1229

03:23:43.780 --> 03:23:46.369

Dr. Tara L. Gonzales: I know it's confusing it conceives me as well.

1230

03:23:47.930 --> 03:23:50.290

Adina Hersko: So is there a patient population

1231

03:23:50.740 --> 03:23:57.139

Adina Hersko: for whom this would be eligible as a treatment option, that Don't have access to other options.

1232

03:23:58.240 --> 03:24:06.040

Dr. Tara L. Gonzales: So yes, it could be used in patients that that also did not have these other standard of care. Standards of care use as well,

1233

03:24:07.740 --> 03:24:12.420

Dr. Tara L. Gonzales: so it's not looked at as an add on it could be used in solo as well

1234

03:24:15.350 --> 03:24:20.469

Adina Hersko: for those standard of care. Treatments stratified to determine differences in outcome.

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03:24:21.240 --> 03:24:22.810

Dr. Tara L. Gonzales: No, they were not.

1236

03:24:23.830 --> 03:24:24.869

Adina Hersko: Thank you.

1237

03:24:29.700 --> 03:24:46.019

Dr. Tara L. Gonzales: So just as a follow. Up to that the majority of patients in both arms in the study were given Dexter messes, but only about thirty percent of the patients received Rem Dezevir in both arms of the study, and in terms of they're sitting in to legitimate

1238

03:24:46.030 --> 03:24:50.560

and other Jack inhibitors, they were less than five percent in both arms of the study.

1239

03:24:55.170 --> 03:25:06.870

Adina Hersko: Is there Is there any clinical evidence comparing the outcomes between patients treated with that did not have those prior treatment, and those treated with only the prior treatment.

1240

03:25:07.120 --> 03:25:22.860

Dr. Tara L. Gonzales: So yes, actually so looking. Um! What we did. And I I apologize because I guess it was stratified when we look at the subgroup analysis, i'm looking at that fourth button. I'm sorry I didn't have enough time to go through it. But these data are published in New or in Journal of Medicine Evidence

1241

03:25:22.870 --> 03:25:41.480

There is there's it's it's. It's still favor to the the dealing with either with or without either of these, so we look at it with decks without decks, with, from disappear with the Jack inhibitors without the deck and interest as well. So I apologize. Yes, we did. We did stratify that. I I missed.

1242

03:25:41.490 --> 03:25:43.769

I misspoke. I misunderstood your question.

1243

03:25:45.900 --> 03:25:47.219

Adina Hersko: Okay, Thank you.

1244

03:25:52.740 --> 03:25:57.289

Drew Kasper: Are there any other questions from the public or from Cms:

1245

03:26:06.060 --> 03:26:07.240

Drew Kasper: Okay?

1246

03:26:07.820 --> 03:26:15.880

Drew Kasper: Well, thank you again, and at this point we will move into a brief break.

1247

03:26:16.690 --> 03:26:21.999

Drew Kasper: We will rejoin in ten minutes and one hundred and forty five.

1248

03:35:21.290 --> 03:35:36.259

Drew Kasper: We will begin again in just a minute here as a reminder for folks. Please do make sure that if you are in charge of your own new functions that you make sure you aren't indeed muted when you are not presenting you appreciate it

1249

03:35:38.180 --> 03:35:43.059

Drew Kasper: day we could begin re-recording it. It looks like we are all right.

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03:35:46.560 --> 03:35:48.609

Drew Kasper: We'll start again in just a minute Here,

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03:35:54.490 --> 03:35:56.129

Drew Kasper: all right. So

1252

03:35:56.370 --> 03:36:04.390

Drew Kasper: we will now hear from presenters for the tech bailey or to quest of lab technology application.

1253

03:36:04.650 --> 03:36:06.649

Drew Kasper: You may now unmute your phone.

1254

03:36:06.820 --> 03:36:09.169

Dr. Jessica Fowler: Good afternoon. Can you hear me? Okay,

1255

03:36:10.360 --> 03:36:19.040

Dr. Jessica Fowler: we can thank you. Okay, This is Jessica Fowler. I'm. The Us. Met affairs, Lee, for the by specifics program at Jansen next slide.

1256

03:36:20.290 --> 03:36:43.579

Dr. Jessica Fowler: So my almost as we've already seen, is characterized by the stereotypical cycling of relapse and permission which is represented by the Graphic below. That shows M. Protein that's indicative of tumor burden. And you can see that patients have these recurring cycles of relapse, and about two-thirds of patients in the us database study shows that

1257

03:36:43.590 --> 03:36:48.889

Dr. Jessica Fowler: that two-thirds of the patients received at least three or more prior lines of

1258

03:36:48.900 --> 03:37:04.249

Dr. Jessica Fowler: treatments. Um, since their initial myeloma diagnosis, and we know that my aluma primarily affects the elderly, patient population and patient comorbidities typically increase with each line of therapy as well

1259

03:37:04.410 --> 03:37:05.690

Dr. Jessica Fowler: next line

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03:37:05.700 --> 03:37:06.670

Dr. Jessica Fowler: slide.

1261

03:37:07.510 --> 03:37:36.379

Dr. Jessica Fowler: So with this cycling of relapse and remission, we know that that that time to progression also shortens with each subsequent line of therapy, and that the duration of these responses really diminishes over time. And typically, you know, patients that have a media prior for power lines of therapy and that are triple-class refractory biological patients. Um have really aggression free survival only around three months and overall survival around nine months. This is

1262

03:37:36.390 --> 03:37:57.150

Dr. Jessica Fowler: obviously outside of the carte clinical trial data. Uh, but um current treatment there. The options for these patients that are in this triple class refractory disease are really limited by toxicities and accessibility, which is the case in carte therapy as a further elaborate and subsequent slides.

1263

03:37:57.270 --> 03:37:58.740

Dr. Jessica Fowler: Next slide.

1264

03:37:59.630 --> 03:38:18.190

Dr. Jessica Fowler: So T. Vailey is the the first and only by specific. That is, a Btm. A directed Cd. Three T-cell Engagement that's indicated for a treatment of myeloma patients with relapsed refractory disease that have received at least four prior lines of therapy that include ah

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03:38:18.700 --> 03:38:24.659

Dr. Jessica Fowler: Proteasome, inhibitor enamid as well as an anti-sev thirty eight monochronal antibodies,

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03:38:24.670 --> 03:38:37.020

Dr. Jessica Fowler: and we received approval at the end of October, based on an early phase trial that will be further validated in subsequent confirmatory trials. Next slide.

1267

03:38:38.050 --> 03:38:57.229

Dr. Jessica Fowler: So Tech Vale is based on this dual body platform of t cell directing therapies, and it really provides an off-the-shelf ah therapy that doesn't require the same manufacturing delays and utilizes the patient's own. So to target the myeloma cells

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03:38:57.240 --> 03:38:58.390

Dr. Jessica Fowler: next slide

1269

03:39:00.840 --> 03:39:02.900

Dr. Jessica Fowler: next. Okay, Thank you.

1270

03:39:02.910 --> 03:39:23.270

Dr. Jessica Fowler: So um in ah tequila's mechanism of action. Like I already mentioned, it real. It activates the patient's immune system by binding the Cd. Three receptor that's expressed on the surface of T cells to the b cell Maturation Antigen that's expressed on the multiple myeloma cells, as well as some healthy B cell lineage cells

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03:39:23.280 --> 03:39:24.440

Dr. Jessica Fowler: next slide.

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03:39:26.020 --> 03:39:42.059

Dr. Jessica Fowler: So the Fda accelerated approval was based on the majestic one cohort a study, and in this study there were a total of one hundred and sixty five patients that were treated with Tech as part of this phase one and two

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03:39:42.070 --> 03:40:04.190

Dr. Jessica Fowler: um, and then, just for clarity's sake, that there the safety analysis was based on the total one hundred and sixty-five patients, and the efficacy analysis was based on one hundred and ten patients, which included only the patients in the phase two uh portion that have received the first treatment dose by that march um eighteenth data cut off,

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03:40:04.200 --> 03:40:12.419

Dr. Jessica Fowler: and the Median Ah! Treatment duration was around was eight point five months in terms of this data cut off that was used

1275

03:40:13.190 --> 03:40:14.730

Dr. Jessica Fowler: next slide.

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03:40:16.100 --> 03:40:43.699

Dr. Jessica Fowler: So in terms of Ah key patient characteristics,

We're part of this. Ah, follow up but the the seven point four months, the the age. The Median age was sixty six years of age, but the range was thirty, three to to eighty, two years of age. Also key to point out is that the end of prior line therapy was close to eighty percent

1277

03:40:44.300 --> 03:40:45.730

Dr. Jessica Fowler: next slide.

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03:40:47.020 --> 03:41:10.829

Dr. Jessica Fowler: So in terms of the efficacy data or this I already mentioned, you'll see in the the Graphic. In the middle is the efficacy patient population. That's part of the the Us. Prescribing information that consisted of the one hundred and ten patients you'll see. The overall response rate was close to sixty two, but the the deeper responses of Cr. Greater at twenty, eight percent.

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03:41:10.840 --> 03:41:21.880

Dr. Jessica Fowler: The responses were relatively quick for the median time to first response being one point, two months, and median time to best response being three point eight months.

1280

03:41:21.940 --> 03:41:36.489

Dr. Jessica Fowler: And these these responses are typically viewed as being durable, and they deepened over time where we had a data cut off. Seventy of the one hundred and four patients responders that had maintained their response

1281

03:41:36.500 --> 03:41:38.409

Dr. Jessica Fowler: next slide.

1282

03:41:40.360 --> 03:41:43.789

Dr. Jessica Fowler: So, as I already mentioned on the previous presentation there,

1283

03:41:43.800 --> 03:42:08.359

Dr. Jessica Fowler: our have been recent changes to the treatment landscape so primarily focused your attention on Selenex, or when uh has been uh currently removed as only used uh through a compassionate use program. So selenex or uh it's the other therapy that's found in the same treatment population, and relapsed for fractured patients with four more prior lines of therapy

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03:42:08.370 --> 03:42:21.470

Dr. Jessica Fowler: to note the overall response rate in the their pivotal study that the label was based on in this patient population was twenty five percent compared to the sixty. One point, eight percent of

1285

03:42:21.480 --> 03:42:46.679

Dr. Jessica Fowler: an overall response rate that was found in the majestic. One study, also important to note is that the the number of patients, the percentage of patients that result in discontinuation of of tech daily due to adverse events was only one point, two percent uh in comparison to the twenty-seven percent of selenex or patients that had to discontinue therapy due to toxicity

1286

03:42:47.140 --> 03:42:48.640

next slide,

1287

03:42:49.730 --> 03:43:17.590

Dr. Jessica Fowler: and, as I mentioned in the Introduction um accessibility not only toxicity but excess. Accessibility is a problem with some of the carte therapies, and this is due to a a number of complexities. Um, you know, one of which, being manufacturing constraints, and and also the the complex logistics that are required for Rt. Directed therapy. There are multiple steps, including a pheresis, t cell activation.

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03:43:17.600 --> 03:43:23.589

Dr. Jessica Fowler: The introduction of the therapy is quality controlled, etc. And so patients are not

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03:43:23.600 --> 03:43:24.690

Dr. Jessica Fowler: all right,

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03:43:24.700 --> 03:43:46.969

Dr. Jessica Fowler: and not all patients that are intended to receive the carte therapies end up receiving the therapy due to them, expiring or having a product that is not able to be given, as well as the wait lists that have already been mentioned in previous presentation, and the carte therapies also require a specialized trained staff, and

1291

03:43:46.980 --> 03:43:52.969

Dr. Jessica Fowler: at certain centers that are in fact certified to be able to deliver these therapies as well.

1292

03:43:53.840 --> 03:43:55.559

Dr. Jessica Fowler: So next slide.

1293

03:43:56.210 --> 03:44:07.360

Dr. Jessica Fowler: So, in conclusion of tech vale, or to cluster map, um. Efficacy results in this first ah approval is based on the digestive one study,

1294

03:44:07.370 --> 03:44:35.479

Dr. Jessica Fowler: and we have demonstrated that this does provide a substantial clinical benefit over approved therapies, and even more so. Now the other blend rep has been removed off of the market. This therapy does not require the manipulation of complex manufacturing, such as carte therapies, and in comparison to car t therapies that crs rates are relatively low and manageable compared to carbon therapy

1295

03:44:35.490 --> 03:44:50.420

Dr. Jessica Fowler: Response Rates are, you know, at close to sixty, two percent in comparison to the current other off the shelf therapy that sell an Xor that is, is less than thirty percent.

1296

03:44:50.430 --> 03:45:12.739

Dr. Jessica Fowler: So really overall the the efficacy results as well as the lower toxicity profile that's seen in comparison to cardi therapy, and the the um therapy being off the shelf readily available, really make this um really support this as a substantial clinical benefit, and for currently available therapies,

1297

03:45:22.210 --> 03:45:24.420

Dr. Jessica Fowler: and i'll take any questions.

1298

03:46:02.840 --> 03:46:05.530

Dr. Jessica Fowler: Hello! Can you still hear me?

1299

03:46:07.050 --> 03:46:13.729

Dr. Jessica Fowler: I'm sorry I fell victim to the double mute myself. Okay,

1300

03:46:13.740 --> 03:46:20.849

Drew Kasper: So thank you very much for your presentation. Are there

any questions from the public, or Cms

1301

03:46:21.740 --> 03:46:39.639

Drew Kasper: as a recap for those of you that weren't around for earlier announcements? You both have recently joined. You can use the Q. And a function within the zoom toolbar to type in your questions for presenters, or you can read the hand, and we will undo you, or you can unmute yourself. Of course, if you're a panelist,

1302

03:46:39.650 --> 03:46:42.589

Drew Kasper: that is a participant or a presenter,

1303

03:46:44.550 --> 03:46:46.510

Drew Kasper: any questions

1304

03:46:46.520 --> 03:46:52.799

Drew Kasper: don't see any questions in the Q. And A. And there are no new questions in the new tech

1305

03:46:52.990 --> 03:47:00.129

Drew Kasper: email box, which is an Ew. Tech at Cms. Hhs. Gov:

1306

03:47:00.260 --> 03:47:08.559

Drew Kasper: you have that email box. If folks are only on the telephone and don't have access to the Q. And A. Or the raised Hand features in zoom

1307

03:47:08.890 --> 03:47:15.390

Drew Kasper: there, Aren't. Questions there, though there are no questions in the Q. And A. And there are no raised hands, so i'll make a last call.

1308

03:47:19.460 --> 03:47:22.390

Drew Kasper: Great? Well,

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03:47:22.450 --> 03:47:28.569

Drew Kasper: Thank you again, and we will now hear from presenters,

1310

03:47:30.300 --> 03:47:37.159

Drew Kasper: from the nexar Grid or an extra bride technology

application.

1311

03:47:37.350 --> 03:47:39.480

Drew Kasper: You may proceed and unmute.

1312

03:47:40.200 --> 03:47:42.019

Dr. James Boron: Thank you, Drew. Can you hear me?

1313

03:47:43.240 --> 03:47:45.819

Drew Kasper: I can. Okay, Wonderful.

1314

03:47:46.210 --> 03:47:56.180

Dr. James Boron: Good afternoon, everybody, and thank you for joining us. I'm Dr. James Boron and I'm the medical director for Burned products at Arizona, and today we'll be discussing next of it

1315

03:47:56.490 --> 03:47:59.839

a new enzymatic agreement agent for a thermal birds.

1316

03:48:00.040 --> 03:48:01.190

Dr. James Boron: Next slide

1317

03:48:04.290 --> 03:48:11.320

Dr. James Boron: Nex bread, or inaccurate is currently pending The Fda Review with an anticipated padua day of January. The first

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03:48:11.790 --> 03:48:17.650

Dr. James Boron: It is an enzymatic non-surgical option for escal removal and hospitalized burn patients

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03:48:17.820 --> 03:48:24.820

Dr. James Boron: the proposed indication for Mexico is escal removal, and adults with deep, partial, and faultless thermal groups

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03:48:25.080 --> 03:48:32.139

Dr. James Boron: I've heard of the American Burn Association. More than forty thousand patients are hospitalized, annually following a burning

1321

03:48:32.900 --> 03:48:40.379

Dr. James Boron: after a burn to the skin occurs. Non-fiable ascar is formed in the area of in Theascar contains dead tissue

1322

03:48:40.630 --> 03:48:43.499

Dr. James Boron: that skin along with dried secretion.

1323

03:48:43.660 --> 03:48:46.349

Dr. James Boron: The removal of this ascar is important for properties.

1324

03:48:47.690 --> 03:48:53.870

Dr. James Boron: An exhibit is a biologic product derived from pineapple stems that is delivered in two components

1325

03:48:54.160 --> 03:49:05.040

Dr. James Boron: The first is an expert powder, which contains proteolytic enzymes. In the rich and brumbling. The second component is the ched vehicle. The two components are mixed prior to application on me.

1326

03:49:05.480 --> 03:49:10.539

Dr. James Boron: An expert has been used in Europe since his approval by the Ema in two thousand and twelve.

1327

03:49:10.860 --> 03:49:25.389

Dr. James Boron: Next to bread can be used on up to fifteen percent. Tbsa, during one application, once applied to clean burnskin is left on the barn, wound s car under an inclusive dressing for four hours, and then removed the gentle stream,

1328

03:49:25.500 --> 03:49:27.880

Dr. James Boron: revealing viable healthy tissue.

1329

03:49:28.320 --> 03:49:29.460

Dr. James Boron: Next slide.

1330

03:49:31.950 --> 03:49:38.940

Dr. James Boron: The current standard of of care and burn wounds involves timely removal of wood, of Bernoulli Ascar.

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03:49:39.040 --> 03:49:45.640

Dr. James Boron: Often by search folk. City surgical excision involves general anesthesia in an operating theory.

1332

03:49:45.850 --> 03:49:52.679

Dr. James Boron: During the procedure the patient may experience blood loss heat loss along with sacrifice of healthy viable tissues.

1333

03:49:52.830 --> 03:50:05.449

Dr. James Boron: The timely removal of eschar usually accomplished within the first two to three days after Burgundy is essential to stop local inflammation that can constrict adjacent blood vessels further extending the zone of.

1334

03:50:06.260 --> 03:50:11.890

Dr. James Boron: In addition, the dead non-violent tissue contained in the eschar can become a source of infection

1335

03:50:12.000 --> 03:50:20.969

Dr. James Boron: may lead to Systemic sepsis, burn-u, and infection and sepsis are one major cause of morbidity. Mortality falling Burning

1336

03:50:21.170 --> 03:50:29.030

Dr. James Boron: nexa bread may be applied outside of the operating room theater in the patient's bed bedside with appropriate pain control.

1337

03:50:29.440 --> 03:50:34.660

Dr. James Boron: It was developed to selectively target only teenager collagen. While sparing healthy tissue.

1338

03:50:34.820 --> 03:50:42.770

Dr. James Boron: This may reduce the amount of tissue that is removed. And thus we've reduced the need for skin grafts to close the loop

1339

03:50:43.140 --> 03:50:50.890

Dr. James Boron: limited single-center retrospective studies have also demonstrated clinical benefit of necks of bread when used on difficult to excise areas

1340

03:50:50.900 --> 03:50:56.589

Dr. James Boron: including hands and face, while shield in sensitive areas such as eyes and proposal services

1341

03:50:56.760 --> 03:51:03.010

Dr. James Boron: next to it has been identified by the Us. Biomedical advance, research and development of Dorothea authority,

1342

03:51:03.540 --> 03:51:08.039

Dr. James Boron: a critical countermeasure for public health emergence emergencies. The

1343

03:51:08.050 --> 03:51:11.849

Dr. James Boron: has procured an exhibit stockpile for emergency response.

1344

03:51:12.170 --> 03:51:13.320

Dr. James Boron: Next slide

1345

03:51:15.270 --> 03:51:20.260

Dr. James Boron: two phase, three studies have been completed. Studying. Next to

1346

03:51:20.360 --> 03:51:28.930

Dr. James Boron: that a check trial was a multi-center-winded, randomized, controlled, free-armed phase three study that included multiple uss.

1347

03:51:29.520 --> 03:51:38.610

Dr. James Boron: The study compared an exorbit to the standard of care. And Jel vehicle and deep, partial and full thing is Burns raging from three to thirty percent in adults.

1348

03:51:38.620 --> 03:51:44.290

Dr. James Boron: A total of one hundred and seventy five patients were studied, randomized, the three to three to one ratio.

1349

03:51:44.580 --> 03:52:00.850

Dr. James Boron: Mw. Two thousand and four trial was a multi-center, open-layable, randomized, two-arm phase, Three study completed outside of the United States the study compared an exhibit to the standard of

care and one hundred and fifty, six patients, aged as four through fifty five.

1350

03:52:00.930 --> 03:52:05.589

Dr. James Boron: The patients had deep, partial, and fol thickness. Burns ranging from five to thirty percent

1351

03:52:05.980 --> 03:52:15.340

Dr. James Boron: standard of care patients were treated with a combination of both surgical and non-surgical eschar removal procedures based on the investigator's judgment and post-

1352

03:52:16.640 --> 03:52:17.799

Dr. James Boron: Next, slide

1353

03:52:20.060 --> 03:52:23.809

Dr. James Boron: the results of the text study are demonstrated on this slide.

1354

03:52:23.910 --> 03:52:30.740

Dr. James Boron: Nexuberg completely removed Bernoulli, Nascar, and ninety three percent of patients compared to four percent in the gel vehicle.

1355

03:52:31.100 --> 03:52:34.649

Dr. James Boron: The other incidents of patients require a surgical excision.

1356

03:52:34.860 --> 03:52:38.380

Dr. James Boron: Their Bernoulli's was just four percent in the next

1357

03:52:39.120 --> 03:52:42.060

Dr. James Boron: to seventy, two percent in the standard of care.

1358

03:52:42.450 --> 03:52:52.669

Dr. James Boron: In addition, an exhibit demonstrated a short shortened time to complete eschar removal and less blood loss associated with eschar removal compared to the standard of care,

1359

03:52:54.190 --> 03:52:55.369

Dr. James Boron: looks like

1360

03:52:57.860 --> 03:53:00.969

Dr. James Boron: Mw. Two thousand and four is outlined up here.

1361

03:53:02.660 --> 03:53:19.270

Dr. James Boron: The surgical eschar removal was performed in only twenty-five percent of next grid patients, while seventy percent of the standard of care patients had their scar surgically removed. In addition, a statistically significant smaller version of the wounds were excised in the next retreat

1362

03:53:20.070 --> 03:53:28.009

Dr. James Boron: in patients with deep partial thickness wounds a decrease need for skin grafting was demonstrated in the next big group. Compared to the standard of care.

1363

03:53:28.040 --> 03:53:34.719

Dr. James Boron: Only eighteen percent of the wounds autographed to the next big group compared to thirty four percent in the standard of care.

1364

03:53:35.310 --> 03:53:46.560

Dr. James Boron: In addition, the next word group wounds has statistically smaller percentage of the wounds autographed in compared to standard of care, eight point, four percent versus twenty, one point, five percent.

1365

03:53:47.700 --> 03:53:55.420

Dr. James Boron: When autographed or skin grafting is performed, a new wound is created, and this skin is often harvested from

1366

03:53:55.610 --> 03:53:59.109

Dr. James Boron: the patient's own skin. This is referred to as a donor site,

1367

03:53:59.240 --> 03:54:09.220

Dr. James Boron: a reduction in the number of burns in the burn area. Auto crafted may translate to decreased need for donor-site tissue and decrease donor-site-related morbid

1368

03:54:10.270 --> 03:54:11.530

Dr. James Boron: next slide

1369

03:54:16.200 --> 03:54:18.749

Dr. James Boron: the next of bread was well tolerant.

1370

03:54:18.900 --> 03:54:26.090

Dr. James Boron: The slide demonstrates adverse reactions that occur even greater than five percent of patients treated with an expert based on

1371

03:54:26.100 --> 03:54:27.999

Dr. James Boron: who will face three studies.

1372

03:54:28.220 --> 03:54:34.099

Dr. James Boron: The most common adverse reactions for patients with necks and bread were paritis and pyroxy

1373

03:54:34.450 --> 03:54:35.869

Dr. James Boron: The frequency of

1374

03:54:36.150 --> 03:54:38.489

Dr. James Boron: treatment emergent events

1375

03:54:38.500 --> 03:54:48.370

Dr. James Boron: has indicated as any pain, any fever wound-related infections for any sepsis were similar between the next orbital and the standard of care.

1376

03:54:51.410 --> 03:54:52.490

Dr. James Boron: Next slide,

1377

03:54:56.430 --> 03:55:07.769

Dr. James Boron: therefore, in summary next to bread encules is indicated for the escar removal or agreement in adults with deep partial thickness and full thickness; thermal,

1378

03:55:08.460 --> 03:55:13.300

Dr. James Boron: that bedside and provides a non-surgical option for complete escar remove the

1379

03:55:13.600 --> 03:55:21.009

Dr. James Boron: the next of bread was developed to targets. Selective removal of ascar or teenager collagen. Well-spared healthy tissue

1380

03:55:21.400 --> 03:55:39.669

Dr. James Boron: in phase three randomized controlled trials An exorbit was shown to decrease the time needed to achieve complete escalating, reduce the incidence of surgical exhibition, decrease the need for autographs in deep, partial fitness, rooms to reduce actual blood loss related to Ascard

1381

03:55:40.530 --> 03:55:41.619

Dr. James Boron: next slide.

1382

03:55:43.480 --> 03:55:49.020

Dr. James Boron: Thank you very much for your time, and i'm happy to answer any questions that any of anyone may ask.

1383

03:55:52.060 --> 03:55:54.179

Drew Kasper: Thank you for your presentation

1384

03:55:54.830 --> 03:55:58.379

Drew Kasper: there any questions from the public or from Cms.

1385

03:56:01.990 --> 03:56:06.859

Drew Kasper: I see a hand raised, Please unmute and proceed, Valerie.

1386

03:56:08.900 --> 03:56:15.710

Valerie Favela: Thank you. Is there any available clinical data demonstrating comparisons between Mexal grid and collagen. A.

1387

03:56:16.670 --> 03:56:17.949

Dr. James Boron: Currently no.

1388

03:56:18.350 --> 03:56:23.750

Dr. James Boron: The two products have a much different

1389

03:56:23.820 --> 03:56:37.339

Dr. James Boron: indicate, or much different usage case. Um, with the time needed to use a collagenase, being days to weeks, and the time needed to use next for it being minutes to

1390

03:56:40.630 --> 03:56:42.039

thank you for that.

1391

03:56:46.280 --> 03:56:47.539

Drew Kasper: And Theina.

1392

03:56:49.020 --> 03:56:58.909

Adina Hersko: Thank you. Can you explain a little bit more about what you mean? Are you saying that cloud units cannot be used immediately in the same time, frame, or that it takes longer to be effective,

1393

03:56:59.470 --> 03:57:13.350

Dr. James Boron: it generally takes longer to be effective. Ah! Patients who generally receive Pelagenase Ah! Will receive it for longer than a day. Where an exhibit is used in a timeframe of four hours.

1394

03:57:18.060 --> 03:57:25.280

Adina Hersko: Thank you. Were any of these products included in a standard of care arms for the non-surgical methods you mentioned.

1395

03:57:26.380 --> 03:57:28.209

Dr. James Boron: Ah, I boo!

1396

03:57:28.840 --> 03:57:30.530

The use of Santal would have been

1397

03:57:31.470 --> 03:57:35.170

Dr. James Boron: some patients in both trials. Yes,

1398

03:57:36.960 --> 03:57:39.619

Adina Hersko: so is there any stratification of those outcome?

1399

03:57:40.400 --> 03:57:42.920

Dr. James Boron: Uh, not in the published item.

1400

03:57:44.420 --> 03:57:45.480

Adina Hersko: Thank you.

1401

03:57:54.310 --> 03:57:58.070

Drew Kasper: Are there any other questions from the public

1402

03:57:58.200 --> 03:58:00.060

Drew Kasper: for Cms.

1403

03:58:00.690 --> 03:58:09.540

Drew Kasper: There are no new questions in the new tech mailbox which there are only a couple of people who are on phone only. But if you don't have access to

1404

03:58:09.760 --> 03:58:11.480

Drew Kasper: the Um.

1405

03:58:11.700 --> 03:58:16.060

Q. And a function or the radiation function in zoom.

1406

03:58:16.480 --> 03:58:30.469

Drew Kasper: You can use the speed new heck at Cms. Ah, Ah, go to the email box to submit your questions, and we'll be sure to ask them for you. There are no questions in the Q. And A. And there are no new raised hands.

1407

03:58:31.030 --> 03:58:33.860

Drew Kasper: So with that we thank you again,

1408

03:58:34.530 --> 03:58:40.499

Drew Kasper: and we will now hear from presenters for the duration of technology. Applications

1409

03:58:41.090 --> 03:58:43.460

may now unmute your phone.

1410

03:58:44.010 --> 03:58:46.309

Dr. Steve Brooks: Okay, thank you. Everyone

1411

03:58:46.320 --> 03:59:01.410

Dr. Steve Brooks: Hi. My name is Steve Brooks. I'm. The chief Medical Officer Marrazine. We'll speak today about duragraph a solution for the preservation of vascular conduits during bypass surgery. My disclosures are that i'm an employee of stockholder. Mar the next slide, please.

1412

03:59:01.470 --> 03:59:06.189

Dr. Steve Brooks: There are over four hundred thousand bypass surgeries in the United States. Every year

1413

03:59:06.200 --> 03:59:35.640

Dr. Steve Brooks: Multiple studies have documented its clinical value, and it has a class. One indication of the latest ech and guidelines. Studies have shown the cabbage surgery of truce, survival on symptoms of patients with advanced and complex coronary disease next libraries. Unfortunately, over the past sixty years there has been little innovation, innovation to address the major issue of being graph failure. Bing graph disease from addressing to being rest. Failure remains the major cause of long term failure of bypass surgery.

1414

03:59:35.650 --> 03:59:37.410

Dr. Steve Brooks: Next slide, please.

1415

03:59:37.440 --> 03:59:56.710

Dr. Steve Brooks: Eighty five percent of surgeries employed. Beans as conduits. This slide shows the findings of a bit analysis looking to Stephen as being graph failure rates at different time points the failure rate of individual graphs known as graph level failure rate is approximately thirty percent in the first year, increasingly greater than forty percent between five to ten years

1416

03:59:56.720 --> 04:00:07.790

Dr. Steve Brooks: since most patients have more than one graph. The patient level graph failure rate is fifty percent meaning that fifty percent experience at least the failure of one graph within twelve months

1417

04:00:07.800 --> 04:00:22.839

Dr. Steve Brooks: Multivariate analysis from the prevent four trial looked at causative factors of ingrat failure. One of the most important was the beam graph storage solution used with a p-value of p less than zero point zero one next slide, please.

1418

04:00:22.870 --> 04:00:40.720

Dr. Steve Brooks: Um. This slide depicts the path of physiology of being grab disease bypass graphs. Experience stress resulting from the physical trauma of harvesting, inhaling, post-harvesty ischemia oxidative stress rate, profusion, industry, and adaptive stress in the new post-rafting environment

1419

04:00:40.730 --> 04:01:10.439

Dr. Steve Brooks: the occurrence of staphonous being graft disease after my certificate can be divided into three temporally distinct but at the physiologically-related mechanisms, the first is thrombosis which occurs within hours to less than a month. The second intimal hyperplasia, which occurs within months, and the last atherosclerosis, which occurs within twelve hours, which occurs greater than twelve months. This process is depicted. Here, again, with the accumulation of platelets, inflammatory cells, and from fly this trigger, smooth muscle cell proliferation,

1420

04:01:10.450 --> 04:01:31.160

Dr. Steve Brooks: which manifest is wall thickening this progresses to atheron formation. This damage of the endothelia on which comprises the structural and functional integrity of the graphs, is identified as the mean trigger for these path of logic processes within the conduits, and is the target of bangrap preservation with to our rep next slide, please,

1421

04:01:31.170 --> 04:01:35.159

Dr. Steve Brooks: and actually let's skip this next slide and move on to the next one. So

1422

04:01:35.490 --> 04:01:36.090

Dr. Steve Brooks: you

1423

04:01:36.100 --> 04:01:37.420

Dr. Steve Brooks: perfect.

1424

04:01:37.430 --> 04:01:56.269

Dr. Steve Brooks: These are the important clinical impacts of vagraph, disease and Bangladesh failure being ref failure, can lead to microcardial infarction. We Pedro Vascularization Hospital readmission itself an important cause of morbidity and mortality, as well as a great cost to the health care system. The poor quality of life. Next

slide, please

1425

04:01:57.690 --> 04:02:26.849

Dr. Steve Brooks: to target this problem, Mirrorzyme has developed Dur a raft, a solution for the flushing and storage of vascular conduits used one of the harvesting and grafting interval of bypass surgery is prepared by pouring the two containers into a bowl on the or back table during preparation for the bypass surgery. This is similar to how ceiling or alpha buffered, say alien, would be poured into the same role. The surgeon harvest the Venus, or arterial conduits flushes to a ref down the conduit, and then stores the conduit in the roll until it is ready to be signed

1426

04:02:26.860 --> 04:02:35.519

Dr. Steve Brooks: of the patient. The preparation and use of derelict, therefore, does not disrupt or modify the natural course of the circle. Procedure Next slide, please.

1427

04:02:35.610 --> 04:02:46.829

Dr. Steve Brooks: Derelict is composed of inorganics, components, and salts, All components, including the organic components at their respective concentrations, are normal constituents of blood,

1428

04:02:46.840 --> 04:03:05.739

Dr. Steve Brooks: and they are included for their roles in preserving and maintaining the extracellular environment of vascular conduit together. The components impart ph balance and buffering Ionic balance and isotonicity and a reducing environment to reduce prevent risk for oxidative damage during scheming storage. Next slide, please.

1429

04:03:06.510 --> 04:03:24.219

Dr. Steve Brooks: Multiple Creek clinical studies demonstrate the path of physiology, of deregraph's, Effects on beans, including reduction of oxidative damage and stress decreased hypoxic damage and increased antioxidant reserves, and the maintenance of the structural and functional integrity of the vascular andp helium at

1430

04:03:24.230 --> 04:03:53.329

Dr. Steve Brooks: three clinical studies demonstrate the path of fizi anthropology of durograph's use and important clinical outcomes. The first is a randomized clinical trial of one hundred and twenty five patients undergoing first-time bypass surgery. The trials have placed at seven Sites, in Canada and Europe, between two thousand and fourteen, and two thousand and sixteen having libraries. The design

was a within-patient randomized double blind, a study to compare the impact of durograph treated graphs against a standard of care. Sailing tree graphs.

1431

04:03:53.340 --> 04:04:11.889

Dr. Steve Brooks: One hundred and twenty five patients had at least two staff in his vein graphs of their surgery. One was randomized to durograph treatment, the other to staling treatment. Ct. Scanning was performed at one, three and twelve months to measure wall, thickness, lum and diameter, and maximal focal lum and narrowing of the grass next slide, please.

1432

04:04:11.900 --> 04:04:27.259

Dr. Steve Brooks: This ah, unfortunately complicated slide depicts the outcomes of the study at three months there were no mace events. At twelve months there was no death or re-puber vascularization in either. Arm. One. Stephen's name was occluded causing an Mi in a salient treated graph

1433

04:04:27.490 --> 04:04:47.069

Dr. Steve Brooks: for the primary effectiveness, endpoint, wall thickness at three months. Ct. Analysis real. But there was no statistically significant difference between Dur and the ceiling room for the mean of all thickness. There was numerical thickness difference, however. At twelve months this difference had increased, and the durigraph treated Stefan as Vegas

1434

04:04:47.080 --> 04:05:16.090

Dr. Steve Brooks: has a significantly smaller. Meanwhile thickness versus their sailing-treated counterparts point one two millimeters compared to point two millimeters almost half total vessel diameter was also significantly lower in the durable affluence group at three to twelve months, indicating less negative remodeling of the being graphs. These images and grass here show duragraph-treated veins in blue and ceiling and red. On the left. The maximum little narrowing in the whole graph is seen to be decreased,

1435

04:05:16.100 --> 04:05:34.969

Dr. Steve Brooks: but it does not reach statistical significance with a P. Of one zero eight in the proximal five centimeters of the graphs where the maximum sheep, pure forces are, and studies have shown the highest rate of bread, narrowing the difference in maximal focal thickening, narrowing, Sorry is significant. Next slide, please.

1436

04:05:35.510 --> 04:05:52.449

Dr. Steve Brooks: A second study was a retrospective cohort study performed at the Ba. Medical Center in Boston, comparing the performance of Gala, a direct precursor, Derek to ceiling. Heal and durographs have identical components. The only difference is La Gayla is compounded.

1437

04:05:52.690 --> 04:05:53.930

Dr. Steve Brooks: I'm: sorry.

1438

04:05:56.110 --> 04:05:58.989

Campbell, Kimberly A. (CMS/CM): Three minutes. Oh, okay, Sorry

1439

04:05:59.000 --> 04:06:25.549

Dr. Steve Brooks: is compounded by the hospital pharmacy that sent to the aerop for use, whereby Dur Raft is manufactured and shifted to keen containers, which are mixed in the or at the time of use. Two thousand four hundred and thirty six patients were studied, underwent first time bypass surgery. The control group of one thousand four hundred patients had standard care treatment between one thousand nine hundred and ninety, six and one thousand nine hundred and ninety nine. The treatment group of one thousand and thirty six patients had a surface vagraph street of a durable

1440

04:06:25.560 --> 04:06:45.710

Dr. Steve Brooks: between two thousand and one and two thousand and four. The results demonstrated a benefit of Derek at one thousand days follow up with a forty five percent reduction in Mi, thirty five percent reduction in repeated vascularization and percent reduction of mace, driven primarily by improvement in Mi and repeat riskquisition. Next slide, please.

1441

04:06:46.150 --> 04:06:57.700

Dr. Steve Brooks: The final study was performed after an observation of the principal investigator of our Ce Marc Bruce approval. Study that patients, and who we used aircraft had lower elevations of tone and post-operatively

1442

04:06:57.910 --> 04:07:17.660

Dr. Steve Brooks: troponin is a biomarker, indicating myocardial cell death that is used to detect post-op Emmon in addition to flesh and and storing the grass with dagraph Dr. Winkler willrew a flesh-turgraph down the graft and into the vascular bed to perform leak Testing of the grass after sewing in the distal an estimosis to

investigate This analysis was performed,

1443

04:07:17.670 --> 04:07:44.989

Dr. Steve Brooks: was recently published in the frontiers of cardiovascular medicine. Dr. Winkler compared patients who wonder what by? Passed from July two thousand and nineteen to march twenty twenty, using either dirt, aircraft, or a combination of sailing. At the second the seco is a commercially available hem plasma derivative indicated for interbascular volume, expansion and protein replacement. Mix with ceiling. That's also been used as a graph storage solution during cabbage surgery to bring the ph of ceiling to physiologic levels.

1444

04:07:45.000 --> 04:07:55.890

Dr. Steve Brooks: Next slide, please Two hundred and seventy. Two patients were identified, who, under my bypass surgery. During this interval they were divided into two propensity match groups of eighty three patients. Each one was remaining.

1445

04:07:55.900 --> 04:07:58.649

Dr. Steve Brooks: Okay, uh, next slide, please.

1446

04:07:58.660 --> 04:08:28.489

Dr. Steve Brooks: This table demonstrates the measurements of a sensitivity chapone in the two groups. The second column is the directory to patients. The third is the ceiling of the Eco, and the fourth is the p-value You can see that you're probably in Rose quickly, peaking at three to six hours, twelve to twenty, four hours one day, two day, and four days next slide, please. This table is similar, showing the Cdk levels. These were not statistically significant. Going to the non specific nature of C.

1447

04:08:28.500 --> 04:08:45.960

Dr. Steve Brooks: Okay, our next slide, please. In conclusion, Ah! Repeated Flushing, the distal anastomosis with the aircraft was associated with significantly lower toprono levels. Post cabbage. Um suggest the enhanced monochrome protection when compared to you. Don't see any less live, please.

1448

04:08:45.970 --> 04:09:15.959

Dr. Steve Brooks: In conclusion, Dur a graft is a solution for preservation, of rescue, of conduits during a bypass surgery which targets the path of physiology, of being raft disease being graph failure by preventing damage to the end of healing from iskemia,

reprofusion, injury. Three studies validate the mechanism of actually path physiology, including the randomized trials showing reductions in wall, thickness and vocalulum, and narrowing the Ba. Study showing reduction in mi repeat or vascularization and bease, and finally, the sulkwood study showing a reduction

1449

04:09:15.970 --> 04:09:24.399

Dr. Steve Brooks: and high-sensitive in with durograph use, demonstrating a protective effect of derelict and cabbage surgery. Thank you very much,

1450

04:09:28.790 --> 04:09:31.850

Drew Kasper: and thank you very much for your presentation.

1451

04:09:31.870 --> 04:09:35.110

Are there any questions from the public

1452

04:09:35.510 --> 04:09:37.000

Drew Kasper: for Cms.

1453

04:09:42.950 --> 04:09:47.999

That's so. Be a chance. I have a question here, and nobody from the

1454

04:09:48.320 --> 04:09:52.720

it has caught in and asked questions that

1455

04:09:53.510 --> 04:09:55.480

Dr. Steve Brooks: Yes, please.

1456

04:09:56.130 --> 04:10:00.430

SOPHIA CHAN: Ah, thank you so much, Dr. Brooks. For your presentation.

1457

04:10:01.260 --> 04:10:09.449

SOPHIA CHAN: You clarify how the components of gala are different from those of

1458

04:10:10.010 --> 04:10:16.690

Dr. Steve Brooks: Yeah. That's the great question. So the components are identical, and the concentration in the final product is identical.

1459

04:10:16.700 --> 04:10:46.689

Dr. Steve Brooks: The only difference is the method of manufacturers. So gala was manufactured in a compounding pharmacy of the hospital brought up to the operating room. It was captive at that time for a period of up to two weeks. We know now that ah, after approximately four to six hours, the the activity starts to decline the buffering capacity. So you know, you can see the forty five percent mi reduction thirty, five percent return to vascarization.

1460

04:10:46.700 --> 04:10:58.739

Dr. Steve Brooks: So it's the current manufacturing. Is It's manufactured in two different and stored in two bottles, and these are combined in the operating room at the time of the surgery stirred up.

1461

04:10:58.750 --> 04:11:17.829

Dr. Steve Brooks: And then you have the same final product, the same concentrations, because of the nature of the manufacturing um, the activity, the buffering, the reduction of the oxidative Ah! Reduction that lasts much longer. So, in fact, had this been deregred and not ah gala.

1462

04:11:17.840 --> 04:11:24.429

Dr. Steve Brooks: The effects may have been even larger, so we hope to see that in in some upcoming studies which we have going on,

1463

04:11:32.500 --> 04:11:40.910

Drew Kasper: Sophia, if you have additional questions. You can continue on on your questioning before we solicit more broadly.

1464

04:11:43.110 --> 04:11:56.249

SOPHIA CHAN: Yes. Are you aware of any study or studies that look at the effects of dereograph on us Medicare population.

1465

04:11:57.790 --> 04:12:26.329

Dr. Steve Brooks: Um, so um The The va study, which was the gala study had about two-thirds of the patients were back your age. Um! We are not, you know, cleared in the United States yet. We are starting a prospective, randomized trial to look at biomarkers. If all the outcomes out for a year pending clearance, and our denot will be hopefully cleared by the deadline

1466

04:12:26.340 --> 04:12:39.930

Dr. Steve Brooks: we expect to, and some us ah patients that said as part of our Ce mark. We were. We were See you marked in two thousand and fifteen. We have a nearly three thousand patient post approval, Study in Europe,

1467

04:12:39.940 --> 04:13:09.649

Dr. Steve Brooks: forty, five sites, and eight countries. Of those again two-thirds are older than age sixty, five. Um! We've performed a propensity match analysis from the Us. Sts database that's a Us database of about ninety seven percent of the United States patients undergoing bypass surgery, and we compared ours. We did a propensity match group. We matched two thousand four hundred patients that received isolated cabbage. That's ninety five percent of our

1468

04:13:09.660 --> 04:13:38.830

Dr. Steve Brooks: cohort very close match. We looked at mortality compared to the Sts, which was us database, and ah! The mortality was identical. Um, that Ah, that data is going to be hopefully published soon. Ah, two-thirds of those patients in the Sts database and our database were sixty, five and older Medicare age, and we're hoping to take the next step with Sts, and can again draw from the Dcr controls the

1469

04:13:38.870 --> 04:13:51.419

Dr. Steve Brooks: um, the Medicare. Ah, database we're hoping to do a cohort match looking at M. I'm repeated. So we we hope to have that data. But we do not have that it today. Hopefully, in the next year we have more of that data.

1470

04:13:52.370 --> 04:13:53.989

Okay, thank you.

1471

04:14:00.460 --> 04:14:05.219

Drew Kasper: Do we have any other questions from the public or from Cms.

1472

04:14:10.670 --> 04:14:12.940

Drew Kasper: Adina. Please go ahead and unmute it.

1473

04:14:13.250 --> 04:14:24.139

Adina Hersko: Thank you. I'm sorry i'm not sure if i'm a first one to clarify something I heard earlier. Were you saying that in some of

these studies it was, in fact, gala that was used and not

1474

04:14:24.230 --> 04:14:26.640

Dr. Steve Brooks: It was only the Va. Study.

1475

04:14:26.650 --> 04:14:54.340

Dr. Steve Brooks: And since that's that was that. That's the one to depict it in the middle of the page. Here the the randomized study was telegraphed. The silkwood study on the right. That was also derelict, you know, and in our development of the product we approved the manufacturing process. So it is always fresh and and most active. That's the only difference in the in the difference between gala and

1476

04:14:54.350 --> 04:14:58.200

Dr. Steve Brooks: and dereographed, and that's the one. Study the Va: study.

1477

04:14:59.260 --> 04:15:00.529

Adina Hersko: Okay, Thank you.

1478

04:15:01.300 --> 04:15:02.510

Yes.

1479

04:15:06.250 --> 04:15:09.549

Drew Kasper: Are there any other questions from anyone?

1480

04:15:14.080 --> 04:15:20.709

Dr. Steve Brooks: Also, to add that last question. Our post-approval study was also nearly three thousand patients. With the

1481

04:15:20.790 --> 04:15:21.840

So

1482

04:15:28.210 --> 04:15:30.190

Drew Kasper: Thanks. Last call for questions.

1483

04:15:36.210 --> 04:15:38.390

Drew Kasper: Okay? Well, thanks again.

1484

04:15:38.540 --> 04:15:40.039
Dr. Steve Brooks: Thank you. Everyone.

1485
04:15:41.010 --> 04:15:46.820
Drew Kasper: We'll now hear from presenters for the Van flydo or quizzart lid

1486
04:15:47.000 --> 04:15:49.180
Drew Kasper: technology application.

1487
04:15:49.390 --> 04:15:52.330
You may now unmute your phones

1488
04:15:52.340 --> 04:16:04.210
Dr. Albert Fliss: great. Ah, thank you for allowing me to present today. My name is Alplhiss. I'm an employee of Daiji. Thank you. Working on this particular um inhibitor of Ah flip three next slide

1489
04:16:06.220 --> 04:16:08.810
Dr. Albert Fliss: a little bit about next slide, please.

1490
04:16:10.080 --> 04:16:26.980
Dr. Albert Fliss: A little bit about. Aml Aml is a highly aggressive and acute disease. That accounts for the the largest block of patients um of acute leukemia and the highest mortality for acute leukemia Of these patients that have aml,

1491
04:16:26.990 --> 04:16:33.469
Dr. Albert Fliss: about thirty percent have a particular mutation as a group of mutations in a gene called Flip three

1492
04:16:33.540 --> 04:16:51.380
Dr. Albert Fliss: um. Some of these mutations in the gene called Flip three cause a very, very poor outcomes. Generally the outcomes in Aml are poor in general, with A. With a five-year survival of about thirty um, and about forty. Eight percent of the deaths related to leukemia are associated with aml.

1493
04:16:51.390 --> 04:16:55.700
Dr. Albert Fliss: There's about twenty thousand new cases of aml every year. Next slide, please.

1494

04:16:58.030 --> 04:17:11.910

Dr. Albert Fliss: Very relevant is is that aml is a disease of generally of the elderly. The mean age of diagnosis is well within the Medicare Age bracket of sixty, eight years old next slide,

1495

04:17:14.700 --> 04:17:32.799

Dr. Albert Fliss: and, as I mentioned earlier, one of the one of the primary drivers of of poor outcomes in this primarily elderly, patient population is the presence of a particular mutation in a gene called Flip three itd that pretends a very, very poor outcome Next slide, please.

1496

04:17:34.840 --> 04:17:47.080

Dr. Albert Fliss: And as you can see in this slide, this is so retrospective analysis of looking at the particular flip-three, itd mutation in comparison to other flip-three mutations and flickering wild type patients

1497

04:17:47.090 --> 04:18:00.100

Dr. Albert Fliss: the itd mutation actually poor tends a very poor outcome with about a twenty percent overall survival rate compared to your standard flip. Three wild type patient, which is about, you know, between thirty and forty percent

1498

04:18:00.620 --> 04:18:02.099

Dr. Albert Fliss: next slide, please.

1499

04:18:03.570 --> 04:18:20.199

Dr. Albert Fliss: What one of the primary drivers of of poor prognosis in this particular variety of aml is the the reoccurrence of relapse essentially after treatment with intensive chemotherapy,

1500

04:18:20.300 --> 04:18:31.560

Dr. Albert Fliss: about forty percent of the patients will relapse by the the second year of therapy with the existing therapeutic options that exist in this space.

1501

04:18:31.820 --> 04:18:33.329

Dr. Albert Fliss: Next slide, please.

1502

04:18:34.720 --> 04:18:38.639

Dr. Albert Fliss: And now i'll talk about quizzart and him again. Quizzart nib next slide,

1503

04:18:40.150 --> 04:18:57.719

Dr. Albert Fliss: Juzartin. It is a a targeted and Ah Tyrosine kindness inhibitor that is highly potent, and targets a particular mutation, the flip three itd mutation. This slide shows the pivotal trial that is currently with the Fda for review.

1504

04:18:57.730 --> 04:19:10.380

Dr. Albert Fliss: In this patient population Um Cruzartnid was added to Standard seven plus three chemotherapy, and compared to um the standard of care, which is a seven plus three chemotherapy alone.

1505

04:19:10.530 --> 04:19:32.759

Dr. Albert Fliss: It was it was Um. It was treated through the induction phase um, which is primary um utilized to debug the disease followed by the consolidation phase, which is Um. The goal of this is to um reduce the disease, burden and follow. And then followed by the maintenance phase and the goal of this stage is to actually prevent relapse.

1506

04:19:32.770 --> 04:19:39.870

Dr. Albert Fliss: This particular clinical study, looked at an age range from eighteen years old to seventy five years old.

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04:19:39.880 --> 04:19:56.290

Dr. Albert Fliss: Previous clinical innovations in this particular. Um Disease State pivotal studies looked at only from eighteen to fifty-nine years old, making this particular study much more relevant to the Medicare population next slide, please,

1508

04:19:57.990 --> 04:20:07.850

Dr. Albert Fliss: and it is here. These are the inclusion criteria for the pivotal study again at eighteen years old, to seventy, five newly diagnosed acute myeloid leukemia.

1509

04:20:07.860 --> 04:20:33.519

Dr. Albert Fliss: Ah! In these patient populations are the patients that are eligible for what we call intensive chemotherapy or standard seven plus three. The patient had to have a flip. Three Itd Mutation. Previous innovations in this space looked at a broad group of flip,

three mutations, including the flip, three T Kd. Mutations that do not pretend a a particularly poor outcome.

1510

04:20:33.530 --> 04:20:35.089

Dr. Albert Fliss: Next slide, please.

1511

04:20:36.540 --> 04:21:06.090

Dr. Albert Fliss: And and again, the the the Median age in this particular study that will hopefully lead to the approval of Cresar, and in this space is is, and in the in the upper fifty S. In comparison to the the um. The The previous innovator in this space, for the the Median age of the the Median age of diagnosis was in the mid forty S. In this particular study about forty percent of the patient's population was over sixty, and about twenty. Five percent of the population was over. Sixty. Five

1512

04:21:06.120 --> 04:21:07.590

Dr. Albert Fliss: next slide, please.

1513

04:21:09.010 --> 04:21:19.280

Dr. Albert Fliss: And again, this is this is a a very well-balanced study when comparing the quizzart nip seven plus three arm versus the seven plus three next slide please

1514

04:21:21.040 --> 04:21:44.090

Dr. Albert Fliss: um. In this this slide represents the Kaplan Meyer curve, showing the overall survival benefit of quizzart nip added to standard seven plus three, and this population, ranging from eighteen to seventy five years old, with approximately a twenty, two percent reduction in the risk of death and overall um and overall doubling the overall survival.

1515

04:21:44.230 --> 04:21:45.780

Dr. Albert Fliss: Next slide, please.

1516

04:21:47.780 --> 04:21:59.890

Dr. Albert Fliss: Um. This this slide represents a look at um Comparing patients that went through a stem cell transplant versus patients who did not go through stem, cell transplant

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04:21:59.900 --> 04:22:19.979

Dr. Albert Fliss: and quizartin was able to show substantial clinical

benefit in both of these patient populations. I think it's important to note that the the elderly patients are less likely to go through a stem cell transplant because of the rigorous and aggressive treatment, you know, based on the age.

1518

04:22:20.480 --> 04:22:34.500

Dr. Albert Fliss: Um, and again, the the you know, the the clinical benefit with transplant or without transplant, is relatively the same, and again showing a a significant improvement over the comparison.

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04:22:34.510 --> 04:22:35.610

Dr. Albert Fliss: Next slide.

1520

04:22:38.120 --> 04:23:05.119

Dr. Albert Fliss: And, as I mentioned earlier, the other major issue as as far as a female leukemia that drives very, very poor outcomes. Um. And again, in this patient population and overall survival rate of about twenty percent is relapse. And as you can see on this slide when comparing the quizarnip arm to the standard seven plus three arm, you have A. You have a more than threefold difference in the relapse, free survival

1521

04:23:05.130 --> 04:23:15.240

Dr. Albert Fliss: from like, I believe it's thirty, nine months compared to a little bit over a year again showing substantial clinical benefit Here, next slide, please.

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04:23:17.570 --> 04:23:36.770

Dr. Albert Fliss: In addition, this is another way to look at this. This is actually looking at the the rate of of of cumulative relapse and and quizzart, and have had about a about eleven percent better cumulative relapse rate here. So

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04:23:36.780 --> 04:23:43.989

Dr. Albert Fliss: I believe it was. It was thirty, one percent to about the lower forty percent, showing that quizzart n

1524

04:23:44.120 --> 04:23:55.770

Dr. Albert Fliss: decrease the rate of cumulative relapse. And again, this is the major driver of poor outcomes in this, you know heavily Medicare eligible population

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04:23:55.790 --> 04:23:57.080
Dr. Albert Fliss: next slide,

1526
04:23:59.690 --> 04:24:03.149
Dr. Albert Fliss: and I and I thank you for for your time.

1527
04:24:10.670 --> 04:24:13.119
Drew Kasper: Thank you very much for your presentation.

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04:24:13.910 --> 04:24:17.680
Drew Kasper: Are there any questions from the public or from Cms.

1529
04:24:21.630 --> 04:24:24.750
Drew Kasper: Kelsey? Marie? Go ahead and unmute, please.

1530
04:24:27.630 --> 04:24:33.519
Kelcymarie Bye: Hi, Thank you. So the one question that I had was,

1531
04:24:33.540 --> 04:24:40.949
I know a couple of times you mentioned another therapy, and you were mentioning the age group of the population.

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04:24:40.980 --> 04:24:47.389
Kelcymarie Bye: Um, do you have any other kind of comparison between that other therapy in terms of clinical outcomes.

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04:24:48.410 --> 04:25:17.709
Dr. Albert Fliss: Um! Nothing, nothing, nothing that would be apples to apples, because the the the particular a particular clinical study that I I was kind of all alluding to, looked at a a mixed population of Flip three mutations, and and I remember there there's the flippery. It d mutation. That port turns a very poor prognosis, and and in poor patient outcomes, whereas the the the other innovator that is currently on the market

1534
04:25:17.720 --> 04:25:30.239
Dr. Albert Fliss: had a mixture of the flip three, itd as well as the Tkd population, so it's It's very. It's very hard to compare those two directly.

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04:25:32.420 --> 04:25:43.920

Kelcymarie Bye: Thank you. Thank you for that. Um. And just one of our questions. Can you just clarify what the dose that you're submitting? Um for approval is?

1536

04:25:44.520 --> 04:26:02.740

Dr. Albert Fliss: Um, I mean it is as far as there. There, there, there, there, there's There's multiple dosage forms there, there, there's actually two dosage forms, and and each level of therapy from induction to consolidation to maintenance, has its own, its own dosage.

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04:26:04.090 --> 04:26:10.609

Dr. Albert Fliss: It's it's, it's, it's a it's a rather complicated um, you know, flow as far as dosage is concerned.

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04:26:11.540 --> 04:26:15.570

Kelcymarie Bye: So it's a hard question. It's a hard question to answer.

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04:26:16.020 --> 04:26:20.690

Kelcymarie Bye: Yeah, but would it be similar to what the trial the thing was?

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04:26:20.700 --> 04:26:25.449

Dr. Albert Fliss: It's it's it's it's it's it's it's It's exactly as what the trial is. Yes,

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04:26:26.850 --> 04:26:27.910

Kelcymarie Bye: okay.

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04:26:37.640 --> 04:26:46.290

Drew Kasper: And Dr. Deb. Could you go ahead and unmute? Sure. Thank you. For the presentation. Can you hear me?

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04:26:46.300 --> 04:26:49.690

Arkaprava Deb: Yes, I can hear you absolutely thank you for a presentation

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04:26:49.700 --> 04:27:12.619

Arkaprava Deb: and um and you're working down on um, Let's say, for

the for the first study since we're looking at it. Um, we realized that um some pay issues, or what the some patients got stem cell transportation set up transplantation someday for that protocol. Yes, I did. Did the results. Um adjust for this

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04:27:12.630 --> 04:27:23.989

Arkaprava Deb: and um, and was stem cell. Transplantation also was part of the protocol. Who can? Um! Who can tolerate stem cell transportation at the time? Is that part of the protocol?

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04:27:24.000 --> 04:27:38.440

Dr. Albert Fliss: Yeah, I mean, I mean all all ultimately, you know, and in the in the you know, the the protocol, you know. Definition of of whether a patient could get to stem cell transplant was was based on whether they had a a composite complete remission.

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04:27:38.450 --> 04:27:50.159

Dr. Albert Fliss: Um, but ultimately them getting stem cell transplant is is going to be a a discussion between the you know the patient and the Hcp. In this situation, because

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04:27:50.570 --> 04:28:09.749

Dr. Albert Fliss: stem cell transplant itself, you know, has a, you know, anywhere from a ten to a twenty percent risk of mortality. So it it. It really depends on on where they were at the end of of standard seven plus three, and in standard um high deck consolidation to whether they would actually go through a transplant.

1549

04:28:11.630 --> 04:28:22.369

Arkaprava Deb: But but but but the bar, the bar here was they. They would They would have to have a a some level of a complete remission. So what we would call a crc event

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04:28:24.130 --> 04:28:40.700

Arkaprava Deb: sure uh, is that shown? And I guess the only thing I have to look at is your um sort of the slide deck from the presentation at one point is that still adjusted for it all in the data or in your findings, or is there any?

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04:28:40.710 --> 04:28:45.080

Arkaprava Deb: Yeah, is that? That's my my question. Is there an adjustment in your findings for that?

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04:28:45.190 --> 04:28:51.009

Dr. Albert Fliss: An adjustment for for for for that kind of decision, whether to go to transplant or not,

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04:28:51.210 --> 04:28:59.399

Arkaprava Deb: even even just the finding of who got transplant amongst the people in one arm another who got transplanted. Who didn't?

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04:28:59.410 --> 04:29:28.819

Dr. Albert Fliss: I mean that that that that was accounted for in in the in the one figure in that I believe in the slide that you had um, actually. Maybe it wasn't in the site we we have looked at that where we've actually censored the patient at time of transplant and looked at that to you know again, you know. Try to take that transplant out of it, and and the clinical, the clinical benefit. When the patients were centered at the time of transplant. The the reduction in the risk of death was about twenty five percent,

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04:29:28.830 --> 04:29:45.620

Dr. Albert Fliss: and in the in the whole study the rust. The The reduction in the risk of death was between twenty two and twenty-three percent. So again, it's pretty consistent between the two. Whether we extract transplant from the entire study.

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04:29:46.350 --> 04:29:48.050

Dr. Albert Fliss: I hope I hope that helps.

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04:29:49.090 --> 04:30:07.549

Arkaprava Deb: I appreciate the attempt. I i'll indulge myself with another question. Can you let him speak on comparing this to a ride that is, Is there any studies that compare this to

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04:30:07.560 --> 04:30:10.500

Arkaprava Deb: the the first generation? Um tkis

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04:30:10.640 --> 04:30:29.120

Dr. Albert Fliss: um No, no, there there there, there is, There is no current study that is, is walking at that at this point in time with Cuzart, and it has not been compared directly to riot app, because when the original, when the the quantum first study was initiated, ride app wasn't approved.

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04:30:29.130 --> 04:30:45.690

Dr. Albert Fliss: So so we used a comparative of of standard, so seven plus three. In this particular situation. There there there will be in the future some um, you know, future innovators, comparative studies that that are looking ahead to head at right now.

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04:30:47.390 --> 04:31:05.290

Arkaprava Deb: This will be my last one. I promised. Yeah, it's okay for, and I I guess I also want to make space for my colleagues. Is there a role for the other sort of second generation more specific? I felt t three inhibitors, The ones we found were the alternative.

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04:31:05.300 --> 04:31:10.990

Arkaprava Deb: Good, Yeah, guilty, you guilty. It's their role for them in this illness.

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04:31:11.000 --> 04:31:17.990

Dr. Albert Fliss: There, there's there's I mean, guilty guilt or rhythm is is currently approved for

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04:31:18.140 --> 04:31:25.429

Dr. Albert Fliss: either flip three itd or flip three Tkd patient population in the refractory relapse setting at this point in time.

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04:31:26.100 --> 04:31:43.400

Dr. Matthew Matasar: There, there, there are future studies. I mean. There are studies that are ongoing that are currently enrolling there. There's a couple of studies, one's the pre-cogged study, and one's the Hov on study that are looking at guilty written in this this upfront.

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04:31:43.410 --> 04:31:49.599

Dr. Albert Fliss: But there's no data from those studies to this point in time. So it's it's it's difficult to judge that.

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04:31:50.010 --> 04:31:54.560

Arkaprava Deb: Thank you very much i'll i'll I'll see my time. Thanks, everyone, sure. Sure. Pleasure.

1568

04:31:58.480 --> 04:32:03.369

Drew Kasper: Do we have any other questions from the public or Cms

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04:32:07.360 --> 04:32:11.010

Drew Kasper: any new tech mailbox? There are no new questions there.

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04:32:11.360 --> 04:32:13.620

Drew Kasper: There are no questions in the Q. A.

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04:32:14.520 --> 04:32:17.499

Drew Kasper: And there are no raised hands.

1572

04:32:17.520 --> 04:32:19.530

Drew Kasper: Let's call for questions.

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04:32:24.500 --> 04:32:35.780

Drew Kasper: Okay, Then at this point we will move into a break until three o'clock. Thanks for the opportunity to see.

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04:32:36.630 --> 04:32:38.089

Drew Kasper: Yes, thank you.

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04:32:39.330 --> 04:32:45.589

Drew Kasper: At which time, at three o'clock, we will enter our last block of presentations, we

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04:32:46.070 --> 04:32:48.460

Drew Kasper: starting with Mos and the twos man.

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04:32:48.850 --> 04:32:52.170

Drew Kasper: We will see you at three o'clock,

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04:33:06.189 --> 04:33:11.920

Drew Kasper: and Jay, if you want to pause the recording. We've got about eighteen minutes till we go live again.

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04:33:35.250 --> 04:33:37.359

Drew Kasper: Right? So um

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04:33:37.660 --> 04:33:47.959

Drew Kasper: welcome back everyone from that break. We're entering the last block of presentations now, and we'll now hear from presenters for the

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04:33:48.279 --> 04:33:49.420

Drew Kasper: um.

1582

04:33:49.970 --> 04:33:56.929

Drew Kasper: I was in Rosa to choose an app technology application. He may now unmute your phone.

1583

04:34:06.080 --> 04:34:12.330

Dr. Matthew Matasar: Thank you so much for the opportunity to present today. Will I be controlling the slides.

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04:34:14.119 --> 04:34:20.189

Dr. Matthew Matasar: We will advance the slides if you just give us a queue such as the using slide

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04:34:20.200 --> 04:34:31.289

Dr. Matthew Matasar: perfect. So my name is Dr. Matthew Madison. I'm. The chief of blood disorders at the Rutgers, Kansas Vitamin, New Jersey. It's my pleasure to be presenting to you today on the subject of Mos on a Tuesday

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04:34:31.300 --> 04:34:32.190

next slide.

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04:34:33.869 --> 04:34:49.429

Dr. Matthew Matasar: So, by way of brief introduction, we'll on a two-sab is a novel t-cell engaging by specific antibody targeting Cd. Twenty and Cd. Three that offers patients the opportunity to achieve a deep and durable response. And this is with with manageable safety profile,

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04:34:49.590 --> 04:34:59.430

Dr. Matthew Matasar: it's being evaluated in the treatment of patients with relapse, or refracted for lymphoma, for patients who have received two or more prior lines of therapy next slide.

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04:35:00.990 --> 04:35:08.580

Dr. Matthew Matasar: So to set the stage for you. Follicular lymphoma is the most common, indolent B. Seldom found in America and other Western countries.

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04:35:08.900 --> 04:35:18.980

Dr. Matthew Matasar: As such, it is considered an incurable disease, and is usually managed as a chronic illness, and thus patients are expected to experience multiple relapses over the course of their illness.

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04:35:19.450 --> 04:35:29.549

Dr. Matthew Matasar: This is a common illness and a common illness of older patients, with a median age of diagnosis of sixty four years, making it particularly relevant to the Medicare population.

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04:35:30.230 --> 04:35:44.350

Dr. Matthew Matasar: Unfortunately, when patients experience readouts of this disease, this is typically associated with worst disease status, meaning that patients are expected to achieve lower response rates and less durable response when they do respond with each subsequent line of therapy,

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04:35:44.849 --> 04:35:58.190

Dr. Matthew Matasar: the most common cause of death for patients diagnosed with follicular lymphoma. Unfortunately, is the lymphoma itself. Although treatment-related morbidity is an important cause of mortality in this patient population as well highlighting the need for safe treatments,

1594

04:35:58.810 --> 04:36:10.360

Dr. Matthew Matasar: unfortunately as patients go through subsequent lines of therapy. Outcomes do indeed worsen, and patients are less and less likely to achieve deep responses as measured by complete response or durability.

1595

04:36:10.369 --> 04:36:24.190

Dr. Matthew Matasar: Furthermore, as it is a disease largely of older patients, it's important to note that older patients with follicular or diffuse large B-cell lymphoma do indeed experience greater toxicities with the subsequent line of therapy. In addition to this pattern I've described, of course, outcomes

1596

04:36:24.200 --> 04:36:25.200

Dr. Matthew Matasar: next slide

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04:36:28.400 --> 04:36:39.560

Dr. Matthew Matasar: so given this multi-breeding nature of molecular lymphoma it's important to understand that this does really lead to a high societal burden resulting from this.

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04:36:39.570 --> 04:37:05.369

Dr. Matthew Matasar: This is all the more true in patients who have higher risk disease, and we understand that there are certain clinical characteristics associated with higher-risk disease, including a higher score on the so-called flippy or follicular diploma international prognostic index further more patients who are refractory to prior Cd twenty antibody therapy by itself, or that in combination with alternative chemotherapy, so-called double refractory disease, is known to be high risk and lastly

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04:37:05.700 --> 04:37:17.679

Dr. Matthew Matasar: patients who experience Congressional disease within twenty four months of initiation of initial chemotherapy or so-called od twenty four failures are known to portendoorse prognosis

1600

04:37:17.869 --> 04:37:39.979

Dr. Matthew Matasar: The outcome of this is that the disease does indeed impose a significant economic burden on our society with annualized health care costs high across all lines of therapy, but going up, as we need to give treatments for subsequent lines of therapy, starting at approximately ninety-seven thousand dollars for first-line therapy, going to as high as over four hundred and twenty-four thousand dollars, or

1601

04:37:41.220 --> 04:37:58.009

Dr. Matthew Matasar: it's not just a financial burden. There certainly is a quality of life for not patients living with footage of a phenomenon, and it's well recognized that patients who experience relapse disease tend to score much more unfavorably on folded life indices than newly diagnosed. Patients will have.

1602

04:37:58.029 --> 04:38:06.700

Dr. Matthew Matasar: This is due to overall quality of life, negative impact, as well as the experience of anxiety and depression associated with the disease and impacts on work, productivity.

1603

04:38:06.939 --> 04:38:08.300
Dr. Matthew Matasar: Next slide

1604

04:38:09.930 --> 04:38:24.989
Dr. Matthew Matasar: for patients. With multiply we left molecular development as third line and beyond setting. While there are treatments that have currently been Fda approved, there is certainly no single standard of care for this patient population, and this is due to limitations associated with our currently available treatments.

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04:38:25.000 --> 04:38:32.640
Dr. Matthew Matasar: Two such treatments include the pi three T inhibitor in Copenhagen, and the orally administered Zh, two inhibitor tasimatostat

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04:38:32.650 --> 04:38:46.519
Dr. Matthew Matasar: panelists, and is associated with modest clinical activity with an overall response rate of approximately sixty percent and a complete response rate of approximately twenty percent Durability, however, is suboptimal with only a twelve month Median duration of response.

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04:38:46.529 --> 04:38:57.809
Dr. Matthew Matasar: This treatment is further limited by a challenging treatment schedule with an intravenous administration three weeks on and one week off, with an intention of treatment and to progression or intolerance

1608

04:38:58.570 --> 04:39:16.609
Dr. Matthew Matasar: casimetostat has activity, although this activity is differential between whether or not the disease harbors a mutation, in the ezh? Two gene in both so-called mutant and wild type. Disease, However, durability also is suboptimal with durations of response only approximately one year in both groups.

1609

04:39:17.169 --> 04:39:30.539
Dr. Matthew Matasar: This, too, is limited by treatment until progression or intolerance formats, as well as the observation that only a minority of patients disease harbors this mutation, though we believe, sensitizes to best effects of test medicine.

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04:39:30.660 --> 04:39:31.980
Dr. Matthew Matasar: Next slide.

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04:39:34.279 --> 04:39:51.380

Dr. Matthew Matasar: Certainly we also have access to car t-cell therapy for patients with multiple relapse molecular lymphoma including both axi, cell and tease a cell. These drugs are both very highly active in its patient population, with high rates of complete response and excellent durability of response.

1612

04:39:51.770 --> 04:40:19.290

Dr. Matthew Matasar: These agents are limited, however, by toxicity, with unfortunately high rates of cytokine, ready syndrome, and neurological adverse events, as well as challenges regarding limitations of access. Understanding that relatively few patients have the ability to receive this treatment given geographic variability and access. Long wait times for aphoresis slots and the social impacts of hospitalization and post hospital care.

1613

04:40:20.580 --> 04:40:32.150

Dr. Matthew Matasar: In this context we recognize that there remains on mended in this patient population, and thus we sought to pursue an evaluation of the role form of Santa two's and map in the treatment of patients with malls that relapse molecular phone.

1614

04:40:32.210 --> 04:40:33.350

Dr. Matthew Matasar: Next slide.

1615

04:40:35.900 --> 04:40:56.860

Dr. Matthew Matasar: This molecule, again, is what we call a bicycific antibody, and I know that this group is now familiar with by specific antibodies. This is a constructed antibody with an epidel binding Cd. Twenty on the malignant beam cell, and Cd. Three on healthy native t cells, creating this immune synapse alone for t cell activation expansion, antisl mediated cell

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04:40:57.060 --> 04:41:03.610

Dr. Matthew Matasar: Well, son of two's map was granted breakthrough designation in two thousand and twenty for patients with multi-year-olds, molecular And

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04:41:03.780 --> 04:41:04.850

Dr. Matthew Matasar: next slide

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04:41:07.240 --> 04:41:29.780

Dr. Matthew Matasar: we've conducted our single arm pivotal phase to study of most unitudes in that monotherapy in patients with follicular involvement having received two or one prior treatment. This medicine is given intravenously in a step up format, with a small dose given cycle one day, one then day eight, and then step up dosing on cycle one day fifteen, and then it goes to every three week intravenous treatment.

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04:41:30.230 --> 04:41:41.190

Dr. Matthew Matasar: This is a fixed duration and treatment with eight cycles administered, followed by a response assessment for patients who have achieved a complete response. At that time treatment is discontinued

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04:41:41.200 --> 04:41:53.069

Dr. Matthew Matasar: for patients who have drive clinical benefit, but have not yet achieved a complete response. Treatment may be continued up to seventeen cycles in total, after which responses are again assessed, and treatment is discontinued.

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04:41:53.780 --> 04:42:20.150

Dr. Matthew Matasar: Inclusion, exclusion, criteria, are shown for you here, and the patients that we treated were largely in all our patient population in keeping with the demographics of this disease, with the Median age of sixty patients, largely had a band-stage disease. Patients had a median of three prior lines of therapeutic treatment, and this population was enriched for adverse factors, such as refract readiness to the last line of therapy, double refractory status, and ped twenty, four fifty

1622

04:42:20.430 --> 04:42:26.899

Dr. Matthew Matasar: primary objective was to measure the complete response rate, and we will see these results on in subsequent slides.

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04:42:26.910 --> 04:42:27.730

It's like

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04:42:29.290 --> 04:42:45.769

Allison Pompey: it's it's primary, unplugged, met it's primary, unplugged with an overall response rate of eighty percent and a complete response rate of sixty percent when we reported the same Median font of eighteen point three months, certainly far in excess of what we would have anticipated with historical controls in this

patient population.

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04:42:45.780 --> 04:42:46.780

Dr. Matthew Matasar: Next slide.

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04:42:49.160 --> 04:42:59.039

Dr. Matthew Matasar: In looking at sub-group analyses, we see that there is no subgroup of patients which did not derive clinical benefit from Jeremiah Bilson and touse me, including the risk factors that I've outlined for you already

1627

04:42:59.050 --> 04:43:09.490

Dr. Matthew Matasar: certainly of note is the fact that patients over the age of sixty five seem to derive, if anything, numerically superior, results from treatment. Mos on a Tuesday's map compared to the younger patients

1628

04:43:09.700 --> 04:43:10.850

Dr. Matthew Matasar: next slide.

1629

04:43:13.360 --> 04:43:28.939

Dr. Matthew Matasar: Not only is this drug active in terms of achieving response, but we are seeing durability of response at this earlier cut off. We estimate a duration and response of almost two years in duration of a complete response. Also almost two years, with an overall. Pfs originally estimated in eighteen months.

1630

04:43:29.130 --> 04:43:30.420

Dr. Matthew Matasar: Next slide

1631

04:43:32.300 --> 04:43:56.070

Dr. Matthew Matasar: balancing against that activity is the toxicity profile. And i'm saying that this toxicity profile is indeed manageable with low rates of treatment, discontinuation due to adverse events which I feel is a very nice summit of statistic to look at. The tolerability of treatment to only four percent of patients discontinuing treatment due to any adverse events attributed by investigators to most lemon shoes.

1632

04:43:56.550 --> 04:43:57.840

Dr. Matthew Matasar: Next slide.

1633

04:43:58.340 --> 04:44:09.490

Dr. Matthew Matasar: In looking more carefully at the key toxicity of the cited kind, release Syndrome Crs was seen in this patient population, but with largely low rate in severity grades one and two, and was self-limited

1634

04:44:09.500 --> 04:44:16.110

Allison Pompey: It typically occurred during the step up first cycle dosing, and was uncommon in subsequent a minute

1635

04:44:16.740 --> 04:44:20.700

Dr. Matthew Matasar: postalism and cortico steroid use was rare. Next slide

1636

04:44:21.910 --> 04:44:33.670

Dr. Matthew Matasar: we've offered updated results out of the recent ash meeting, and we see that durability estimates have indeed persisted, as our data have matured encouraging progress. Next slide,

1637

04:44:34.990 --> 04:44:51.159

Dr. Matthew Matasar: in some remote sanitary's about it is a highly active and tolerable treatment that meets unmet need in this patient population and multi-trade s mole it offers high overall and committed response rates and is well tolerated offering a readily available off-the-shelf therapy that can be accessed to cross-treatment. Settings

1638

04:44:51.170 --> 04:45:00.820

Dr. Matthew Matasar: fixed duration treatment is an additional advantage to this treatment, and really does represent a significant advance in the treatment of patients with multi-grade labs for liquid on.

1639

04:45:01.020 --> 04:45:03.639

Dr. Matthew Matasar: Thank you for your attention and I welcome your questions.

1640

04:45:08.830 --> 04:45:10.919

Drew Kasper: Thank you for your presentation.

1641

04:45:11.390 --> 04:45:18.610

Drew Kasper: Are there any questions from the public or Cms, and I see

a hand up

1642

04:45:18.650 --> 04:45:22.839

Drew Kasper: from Lang. Let's start with you, Lane. Go ahead and unmute, please.

1643

04:45:23.940 --> 04:45:28.629

Lang Le: Hi Drew. Thanks. I just have a few questions. You're going to be on

1644

04:45:28.890 --> 04:45:44.920

Lang Le: a study that was submitted as part of the application. Um, and i'm trying to just wrap my head around the um how the drug is administered! And now, in the in-patient setting, I did see you know in in the

1645

04:45:44.930 --> 04:46:04.679

Lang Le: towards the bomb um where I was describing some simple mental materials. Where um you know where you guys describe how the drug is administered. Uh, we will then intervene in this in the inefficient setting. It's like to confirm that, and when or not it can also be done in the location serving.

1646

04:46:04.810 --> 04:46:21.519

Dr. Matthew Matasar: Thank you for your question. So. Yes, no sanitism that is being developed as an intravenous administration For this submission it is being co-developed in separate efforts as a subcutaneous treatment. But here we are discussing its use intravenously administered, it can be administered in the outpatient setting,

1647

04:46:21.530 --> 04:46:26.749

Dr. Matthew Matasar: particularly during this step up period of time. Given that there is a risk of cytokine release syndrome.

1648

04:46:27.020 --> 04:46:44.460

Dr. Matthew Matasar: We will typically leave it to physician discretion, whether patients need to be admitted for observation and management of potential risk of such a kind release. Once treatment has been stepped up and tolerated, treatment typically reverts to the outpatient setting for subsequent cycles.

1649

04:46:45.010 --> 04:46:46.489
Lang Le: Okay, thank you for that.

1650
04:46:46.500 --> 04:46:54.689
Lang Le: And um. Just to um just to um to go over here. So when the when the drug is in the in the in the in-patient setting

1651
04:46:54.700 --> 04:47:11.010
Lang Le: I think um the protocol had mentioned. Um during the first bills. The picture may require at least seventy two hours of um Patient modeling is that is, that where the patient stays in the inpatient setting for the first seventy two hours.

1652
04:47:11.020 --> 04:47:19.269
Dr. Matthew Matasar: That's right. So So to to remind you of the step up dosing it's cycle one day one day eight, and then a full step up on day. Fifteen

1653
04:47:19.280 --> 04:47:26.780
Dr. Matthew Matasar: cytokine, really syndrome can be seen during any of these treatments, as well as a little bit of a lower rate, but still seeing it cycle to day one,

1654
04:47:27.020 --> 04:47:33.400
Dr. Matthew Matasar: the majority of the Crs seemed does happen at that full step up dose. So the cycle one day fifteen dose.

1655
04:47:33.460 --> 04:47:50.030
Dr. Matthew Matasar: But whenever a physician feels that it's in the patient's safety and best interests to receive hospital-based care during this step of dosing time. It would typically be monitoring for forty, eight to seventy, two hours. Given the kinetics of cytokine and syndrome that we've seen in this.

1656
04:47:51.180 --> 04:48:03.050
Lang Le: And um. Are there any planned trials or ongoing trials where you compare? Does this enjoy that? The The drug to the same um, the end of care or current stand up here.

1657
04:48:03.060 --> 04:48:26.840
Dr. Matthew Matasar: It's a good question, and there is certainly multiple studies that are currently ongoing to further evaluate how

best the leverage most undertes that it's being compared. Um! It's being studied as a single agent in earlier lines of therapy, it's being studied as monotherapy compared to other treatments, and we're evaluating its combination with other agents, all with the attempt of trying to best understand how best to deploy this effectiveness,

1658

04:48:27.700 --> 04:48:30.170

Lang Le: and the last question drew um

1659

04:48:30.230 --> 04:48:43.469

Lang Le: um for the the phase two trial. I believe that's not um. Is there any survival data on the ninety patients or so?

1660

04:48:44.090 --> 04:49:08.889

Dr. Matthew Matasar: So? We actually just at this last Ash, two days ago offered our updated outcomes data. Now we have a Median and a Median follow up of twenty-seven months At that time. We now have improved estimates of durability and response. And we see that the Median progression-free survival has not yet been reached at a Median in the following twenty-seven months. And those that do respond in chief

1661

04:49:08.900 --> 04:49:14.289

Dr. Matthew Matasar: response we see durability of complete response. That is really quite extraordinary in this data set as well

1662

04:49:14.300 --> 04:49:23.809

Dr. Matthew Matasar: overall survival is very high as we would expect, given the activity by the more stringent measures of pfs and duration and response.

1663

04:49:25.340 --> 04:49:29.369

Lang Le: Thank you, Dr. Matthews. Sorry I'm. Drew um and Vina, I don't have any additional questions.

1664

04:49:31.540 --> 04:49:32.830

Thanks.

1665

04:49:32.950 --> 04:49:40.489

Drew Kasper: There is a question that dovetails nicely into what the two of you were just talking about with

1666

04:49:41.150 --> 04:49:52.650

Drew Kasper: requirements for hospitalization there was a question and type. How often does that happen that Mosaitus and Abdosos require hospitalization for administration?

1667

04:49:53.930 --> 04:50:02.820

Dr. Matthew Matasar: So good question. I don't have the statistic off the top of my head in terms of the percent of patients that underwent elective admission during the trial.

1668

04:50:02.940 --> 04:50:22.209

Dr. Matthew Matasar: It would be fair to ask whether that estimate would be representative of what would be experienced in the real world after it's anticipated approval and deployment in community-based settings. My personal anticipation is that particularly earlier on, as physicians who may not yet have experience with the administration of I of the antibodies

1669

04:50:22.270 --> 04:50:35.190

Dr. Matthew Matasar: may be expected to take a more conservative approach, and perhaps use hospitalization during step of dosing more frequently in order to make sure that they are keeping patient safety centered in their practice.

1670

04:50:38.090 --> 04:50:42.370

Drew Kasper: Thank you. And Adina. Can you go ahead and unmute?

1671

04:50:43.660 --> 04:50:52.479

Adina Hersko: Yes, thank you. So just to confirm what you were talking about previously. It's it's possible that this would require multiple admissions

1672

04:50:52.980 --> 04:50:55.070

Adina Hersko: for the multiple devices.

1673

04:50:55.840 --> 04:51:04.869

Dr. Matthew Matasar: It is possible, you know, as we have conducted the work that has been left to position discretion. My anticipation is that it it would not be

1674

04:51:04.880 --> 04:51:34.260

Adina Hersko: many admissions when we are worried about a patient given their disease, kinetics, their disease, burden the factors that we believe may be associated with higher risk of cytokine release. We will often do an elective admission um for that. Step up dose to the foldos that's like a one-day fifteen dose, and if that is tolerated without significant side of time release, then we would typically return such treatments to outpatient therapy. If Crs were seen. During that admission

1675

04:51:34.270 --> 04:51:39.759

Dr. Matthew Matasar: you may again elect to treat the cycle two day, one a patient as well

1676

04:51:39.820 --> 04:51:55.200

Dr. Matthew Matasar: out of a measure of caution. So is there a chance that there could be multiple missions as a chance, but it's not intended to be sequentially and indefinitely administered in a patient setting. That's not my anticipation for how the medicine would be used.

1677

04:51:56.040 --> 04:52:14.219

Adina Hersko: Thank you. Um. You had noted that before the proposed invocation was for molecular lymphoma. Um. I noted that the trial tested patients with popular lymphoma upgrade um for one through three A. Can you confirm that the indication wouldn't include a patient for a bulk of simple Must be.

1678

04:52:14.700 --> 04:52:27.239

Dr. Matthew Matasar: That's my understanding. Correct. We we group phillip it on the following grade: one two and three under the rubric of low-grade molecular lymphoma Grade Iii. B foricular lymphoma is probably best understood and certainly recognized by

1679

04:52:27.250 --> 04:52:38.769

Dr. Matthew Matasar: one of the film of physicians as a more aggressive form of peace on a hodgkin Loma, and would typically follow treatment practice patterns more aligned with that of its congen or diffuse large B cell.

1680

04:52:39.640 --> 04:52:40.770

Adina Hersko: Thank you.

1681

04:52:40.870 --> 04:52:42.890

Adina Hersko: An additional question

1682

04:52:42.900 --> 04:52:53.940

Adina Hersko: in the base. Two trial. How many patients that we're receiving with Matthews and maps had previously a failed treatment with at least three of the other currently available airline plus lego. And

1683

04:52:54.550 --> 04:53:14.220

Dr. Matthew Matasar: so in the ninety patients that we report in the pivotal study. Um, who are eligible for molecular environment. Indeed, the median number of prior lines of therapy was three. I don't know the exact percentage, but with a meeting of free that tells you that the majority of patients were indeed pre-treated to this degree.

1684

04:53:21.850 --> 04:53:24.940

Dr. Matthew Matasar: Perhaps I don't understand your question could ask you to clarify

1685

04:53:25.910 --> 04:53:36.099

Adina Hersko: so of the of the drugs that you had listed, as indicated for third line, plus treatment for those previously treated with those particular drugs.

1686

04:53:36.440 --> 04:53:49.580

Dr. Matthew Matasar: I do not know that we have collected all of the prior. Ah! The the components of the prior lines of therapy that patients received prior to enrolment On go two hundred and seventy.

1687

04:53:52.880 --> 04:54:00.750

Adina Hersko: Thank you. How many patients were treated at centers that were approved to administer the carte treatment

1688

04:54:01.660 --> 04:54:03.000

Adina Hersko: in this condition.

1689

04:54:04.390 --> 04:54:16.979

Dr. Matthew Matasar: That's a good question. I do not know the full list on the daft on my head, which were all the participating centers in this trial. Um, i'm sure that we can get that information for you.

1690

04:54:18.550 --> 04:54:19.630

Adina Hersko: Thank you.

1691

04:54:26.040 --> 04:54:32.819

Drew Kasper: Are there any more questions? Laying? Is that a new hand up, or is that from before.

1692

04:54:34.120 --> 04:54:35.490

Lang Le: Sorry your goes home

1693

04:54:35.500 --> 04:54:36.430

Lang Le: before.

1694

04:54:47.690 --> 04:54:57.880

Drew Kasper: Okay. I don't see any additional hands up, and there are no questions in the Q. And A. There are no new questions in the and mailbox.

1695

04:54:59.070 --> 04:55:01.820

Drew Kasper: Okay? Well, again, Thank you.

1696

04:55:01.950 --> 04:55:03.560

Dr. Matthew Matasar: Thank you for the opportunity.

1697

04:55:05.250 --> 04:55:14.779

Drew Kasper: We'll now hear from presenters for the Lova cell technology application, and you may now unmute your phone.

1698

04:55:17.250 --> 04:55:19.989

Dr. Jennifer Leiding: Let me pick my camera real quick. Thanks, guys.

1699

04:55:23.950 --> 04:55:25.580

Dr. Jennifer Leiding: Can I get started?

1700

04:55:29.800 --> 04:55:31.620

Dr. Jennifer Leiding: Would not be okay to hear you.

1701

04:55:31.860 --> 04:55:33.480

Dr. Jennifer Leiding: Okay, perfect.

1702

04:55:33.660 --> 04:55:49.010

Dr. Jennifer Leiding: Um. My name is Dr. Jennifer Leiding, and I am a medical director at Bluebird Bio, and today i'm going to speak to you about Lovo T. Beglaging auto tempal, which I will now refer to as lovo cell for treatment of sickle cell disease. Next slide,

1703

04:55:50.640 --> 04:56:01.809

Dr. Jennifer Leiding: so sickle cell disease is a severe, progressive, and facilitating disease that begins with a point mutation in the beta globe and gene which is depicted in the the picture on the right.

1704

04:56:02.550 --> 04:56:14.180

Dr. Jennifer Leiding: This abnormality in the boat beta-globin gene leads to high levels of sickled hemoglobin that leads to subsequent polymerization of red blood cells under low oxygen conditions

1705

04:56:14.190 --> 04:56:24.540

Dr. Jennifer Leiding: causing red blood cells to become sickled, sticky, and rigid, that ultimately lead to painful and unpredictable episodes of ves occlusion, which are the hallmark of sickle, cell disease,

1706

04:56:24.550 --> 04:56:32.959

Dr. Jennifer Leiding: current management, of sickle cell disease relies on lifelong use of acute and chronic therapies which have sub-optimal clinical benefits

1707

04:56:32.970 --> 04:56:40.490

Dr. Jennifer Leiding: to date. The only potentially curative treatment for sickle cell disease is allogenic stem cell transplant with a match sibling sona.

1708

04:56:40.580 --> 04:56:44.540

Dr. Jennifer Leiding: But significant risk is associated with that next slide

1709

04:56:46.260 --> 04:56:55.750

Dr. Jennifer Leiding: so lova cell is an investigational personalized one-time administered autologist and therapy that's under evaluation for the treatment of sickle cell disease

1710

04:56:55.890 --> 04:57:07.849

Dr. Jennifer Leiding: as of December, two thousand and twenty one. The Fda has placed a partial clinical hold on our program for patients under the age of eighteen. Um. In this particular treatment,

1711

04:57:07.930 --> 04:57:24.420

Dr. Jennifer Leiding: that being said, Lovo cell is still a one-time administration gene therapy product that results in durable production of an antisycling adult hemoglobin. Hb. A. T. Eighty, seven, two that reduces red blood cell cycling by intervening at the genetic level a hallmark

1712

04:57:24.430 --> 04:57:36.069

Dr. Jennifer Leiding: of hemoglobin. T. Eighty sevenq is that it substantially reduces sickling with a goal of reducing hemoglobin S. Homolysis and other complications.

1713

04:57:36.080 --> 04:57:52.609

Dr. Jennifer Leiding: We are expecting to submit our biologic license. Application by Q. One of twenty twenty, three, with a request for priority review. But other earlier regulatory designations for Lova style include fast-track orpan drugs, rare pediatric disease and regenerative medicine advanced therapy.

1714

04:57:53.650 --> 04:57:54.720

Dr. Jennifer Leiding: Thanks. Bye

1715

04:57:56.330 --> 04:58:07.960

Dr. Jennifer Leiding: so on this slide i'm going to walk you through the process of our x-vo gene therapy with loomo cell for patients enrolled in our clinical trials, and what would be expected in the real world setting as well.

1716

04:58:07.970 --> 04:58:23.470

Dr. Jennifer Leiding: So initially, patients are admitted to the hospital where they undergo stem cell collection. Um! This part of the procedure typically occurs in the hospital, but could theoretically occur in the fusion center, but within our clinical trial setting has been in the hospital

1717

04:58:23.480 --> 04:58:33.200

Dr. Jennifer Leiding: patients. Then those cells are then sent to our

manufacturing facility, where they undergo transduction of the Bb. Three hundred and five lent viral. Vector

1718

04:58:33.210 --> 04:58:53.009

Dr. Jennifer Leiding: Once um that has been successful, the cells are then sent back to the treating facility. The patient is readmitted to undergo myelobulative conditioning. They remain in the hospital during this time, where they receive the drug product infusion with a hospitalization of approximately five weeks within our study.

1719

04:58:53.020 --> 04:59:09.960

Dr. Jennifer Leiding: During this time we are anticipating and waiting for engraftment and repopulation. Of these modified hematophobic control. Patients are then followed for a two year follow, and are eligible for a thirteen year long. Term follow up study next slide,

1720

04:59:11.490 --> 04:59:20.970

Dr. Jennifer Leiding: So, if approved by the Fda Lovo cells expected to provide a much-needed treatment option that's with potentially durable effects for people with sickle cell disease.

1721

04:59:20.980 --> 04:59:42.230

Dr. Jennifer Leiding: So, as I mentioned already, allogenic transplant is the only temporal restorative treatment option for a circle protected. At this time, however, it's broad utility is significantly limited by the age of the patient being treated. Limited Availability of Hla match donors, and the rarity of hla haplotypes specifically in patients of African or black assass.

1722

04:59:42.240 --> 04:59:57.049

Dr. Jennifer Leiding: Um, patients that use or sickle cell disease. Patients that do undergo allergenic transplant using an unrelated or mismatched donor have increased risk of serious, potentially fatal complications, such as graffiti and graph rejection

1723

04:59:57.060 --> 05:00:07.170

Dr. Jennifer Leiding: in comparison. Low a cell utilizes the stem cells from the patient themselves with the fulfill diseases and starting material, thereby relieving the need for a matched donor

1724

05:00:07.230 --> 05:00:08.460

Dr. Jennifer Leiding: next slide.

1725

05:00:09.610 --> 05:00:26.840

Dr. Jennifer Leiding: So our study, H. T. V. Two S. Six, is an ongoing phase one, two non-randomized open, labeled a study that's being conducted at eleven sites across the United States. I'm going to present data from our most recent data cut of February twenty, twenty, one which were recently published in the Ring on Journal of Madison.

1726

05:00:26.850 --> 05:00:37.489

Dr. Jennifer Leiding: So Group c. Was Ah. Was established for the pivotal evaluation of Lovo Sal, and as of February, two thousand and twenty, one, thirty, five patients in group, c. Had received logo cell infusion.

1727

05:00:37.530 --> 05:00:57.139

Dr. Jennifer Leiding: Our primary efficacy Endpoint has been the assessment or our determining proportion of patients. Um. Achieving complete resolution of severe voe's between six months and eighteen months after drug products in fusion. We did assess many other endpoints, including the proportion of patients achieving a gorb and response.

1728

05:00:57.150 --> 05:01:07.349

Dr. Jennifer Leiding: Other voe and svoe endpoints an assessment of multiple humans logic, clinical and disease endpoints as well as pharmac dynamic assessment.

1729

05:01:07.820 --> 05:01:19.730

Dr. Jennifer Leiding: I will say that not all patients who are valuable for severe voes as they had to meet certain criteria which are listed here, including a force for their abilities in the twenty four months before, and

1730

05:01:19.740 --> 05:01:23.799

Dr. Jennifer Leiding: and reaching the minimum follow-up time of six months for the analysis,

1731

05:01:23.910 --> 05:01:25.020

Dr. Jennifer Leiding: but fine.

1732

05:01:26.430 --> 05:01:55.150

Dr. Jennifer Leiding: So, as you can see in this slide patients with sickle cell disease, experience, complete remission of serious phase

of inclusive events. After the one-time treatment of love of cell with an overall meeting rate of viewe at zero per year. So again, just reminding you, this is data from our group C Beta cut off of February two thousand and twenty one. This particular graphic, those swim lanes of individual patients with the blue dots indicating

1733

05:01:55.160 --> 05:02:06.650

Dr. Jennifer Leiding: um voe's pre-treatment, and then post-lobo solemn fusion in the yellow which is on the right side so on the left there was a Median of three point five severe voes

1734

05:02:06.660 --> 05:02:15.339

Dr. Jennifer Leiding: pre pre-lower cell treatment, and then following love of cell treatment has been complete resolution of the oes in the

1735

05:02:15.740 --> 05:02:16.940

Dr. Jennifer Leiding: next slide.

1736

05:02:17.960 --> 05:02:32.290

Dr. Jennifer Leiding: Additionally, we assess the quantity of hemoglobin, T. Eighty, seven. Q. That was produced amongst patients, and again each line represents an individual patient over time with months, post-lobo cell infusion,

1737

05:02:32.300 --> 05:02:35.970

Allison Pompey: three minutes on the bottom.

1738

05:02:35.980 --> 05:03:01.040

Dr. Jennifer Leiding: So what you can see is that um with treatment with lova cell Um, there's an increase in total hemoglobin concentration and overall decreased concentration of humor than s in the blood. And with this increased concentration of hemoglobin a we expect halting of sickle cell disease in the halting of sickle cell disease, progression through lifelong production of hemoglobin, A. T. Eighty, seven. Q.

1739

05:03:01.510 --> 05:03:02.750

Dr. Jennifer Leiding: That's fine.

1740

05:03:03.800 --> 05:03:21.589

Dr. Jennifer Leiding: So our safety data from Study Hgv To a sex um group, c. Does appear to present an acceptable benefit. Risk profile

for patients with chemical properties. In the left panel are treatment related aes, and then in the smaller right panel is serious treatment emergent aes.

1741

05:03:21.600 --> 05:03:33.470

Dr. Jennifer Leiding: The majority of these, especially those on the left, are consistent with the effects of Myelobi of conditioning that we would expect than any individual who received that conditioning prior to cellular therapy.

1742

05:03:33.480 --> 05:04:02.899

Dr. Jennifer Leiding: I should also mention that in ah an earlier cohort of our groups of group A. And just to remind you I've been presenting data for mercy. But from group a two patients treated with globe cell did develop a amount Um, after investigation as to the cause of aml. Ah! We believe that the underlying risk of human's, logical lignancy and sickle cell disease, combined with the transplant procedure and associate of proliferative stress and continued hemataquatic stress due to mental clinical benefit in these two patients,

1743

05:04:03.040 --> 05:04:10.919

Dr. Jennifer Leiding: the cause of their Aml. The data regarding these investigations has been published with with references listed here.

1744

05:04:11.330 --> 05:04:12.520

Dr. Jennifer Leiding: That's fine.

1745

05:04:13.370 --> 05:04:23.530

Dr. Jennifer Leiding: So in summary, if approved by the Fda Bovo so provide a much-needed one-time potentially curative treatment for patients with sickle cell disease.

1746

05:04:23.540 --> 05:04:51.469

Allison Pompey: Um, In summary our http to a six routine data, Ah demonstrate that lovo cell uniquely impacts the have the physiology of sickle cell disease at the genetic level. It offers seven minutes stable, durable and light bulk production of anticycling hemoglobin, H. B. A. T. Eighty seven, two. The normalization or near a normalization of hemoglobin and hemololytic markers. We resolution that seriously,

1747

05:04:51.480 --> 05:04:53.890

Dr. Jennifer Leiding: fifty-four point eight patient here's a follow up

1748

05:04:54.240 --> 05:05:06.190

Dr. Jennifer Leiding: the sustained results support the potential for long-term durability from this one-time treatment, and represent a paradigm shift in the treatment of sickle cell disease which can be transformational benefit for patients and society

1749

05:05:06.400 --> 05:05:07.649

Dr. Jennifer Leiding: looks fine.

1750

05:05:09.220 --> 05:05:12.159

Dr. Jennifer Leiding: Thank you for your attention, and I welcome any questions.

1751

05:05:15.840 --> 05:05:18.050

Drew Kasper: Thank you very much for your presentation.

1752

05:05:18.560 --> 05:05:22.229

Drew Kasper: Are there any questions from the public or from Cms?

1753

05:05:25.310 --> 05:05:29.630

Drew Kasper: Let's start with with Cindy. Go ahead and unmute Cindy.

1754

05:05:30.510 --> 05:05:44.249

Cindy Hake: Thanks, Jay. Thank you, Dr. Lining, for your presentation. Do you have a Kadufa or other date from the Fda by which you anticipate authorization for marketing.

1755

05:05:44.260 --> 05:05:55.259

Dr. Jennifer Leiding: Yeah, we can't speak to the Fda Timelines. We're still on schedule to submit in our Bla in Q. One two thousand and twenty three, and then the Fda will determine that timeframe for us.

1756

05:06:03.960 --> 05:06:05.190

Cindy Hake: Thank you.

1757

05:06:09.140 --> 05:06:10.960

Drew Kasper: You have any other questions

1758

05:06:11.030 --> 05:06:13.469

Um. Public or Cms

1759

05:06:16.170 --> 05:06:21.349

Drew Kasper: checking the new tech mailbox. I don't see any new questions. There.

1760

05:06:22.500 --> 05:06:24.870

Drew Kasper: There are no questions in the Q. A.

1761

05:06:29.520 --> 05:06:31.519

Drew Kasper: Um last call

1762

05:06:31.600 --> 05:06:33.470

Drew Kasper: for any questions.

1763

05:06:39.100 --> 05:06:40.380

Drew Kasper: Okay,

1764

05:06:40.660 --> 05:06:42.720

Drew Kasper: All right. Well, thanks again.

1765

05:06:43.110 --> 05:06:44.150

Dr. Jennifer Leiding: Thank you.

1766

05:06:45.670 --> 05:06:55.250

Drew Kasper: This next presentation is actually going to be. It's. It's two presentations combined. Two applications combined.

1767

05:06:55.520 --> 05:07:00.930

Drew Kasper: So we have a lot of twenty minutes for this and ten minutes to Q. And A. To follow the.

1768

05:07:01.210 --> 05:07:05.700

Drew Kasper: We will now hear from the presenters for sidelocks

1769

05:07:05.820 --> 05:07:07.710

Drew Kasper: otherwise known as

1770

05:07:08.270 --> 05:07:10.050

Drew Kasper: Ephol the See, a name

1771

05:07:10.870 --> 05:07:12.629

Drew Kasper: we Now unmute your phone.

1772

05:07:13.300 --> 05:07:28.479

Dr. Bert Slade: Great. Thank you very much. So i'm Dr. Burke's slate. I'm serving as the chief medical officer for on target laboratories, and I'm going to give the first part of the talk, introduce you to the problem and what it is that Cyidlocks does.

1773

05:07:28.540 --> 05:07:32.789

Dr. Bert Slade: It's new and novel and quite elegant. It literally allows surgeons to

1774

05:07:33.200 --> 05:07:34.380

see cancer

1775

05:07:34.580 --> 05:07:40.760

Dr. Bert Slade: intra-operatively, the goal being to remove more cancer than they would otherwise be able to remove the

1776

05:07:40.810 --> 05:07:42.680

Dr. Bert Slade: and potentially remove all of the cancer,

1777

05:07:43.050 --> 05:07:44.249

the next one,

1778

05:07:45.990 --> 05:07:50.119

Dr. Bert Slade: the surgery of the first one therapy ovarian cancer, lung cancer.

1779

05:08:00.840 --> 05:08:04.190

Dr. Bert Slade: The problem is recurrence is the

1780

05:08:04.400 --> 05:08:08.209

this is unable to find all of the cancer station in the movement the

1781

05:08:09.910 --> 05:08:15.670

Dr. Bert Slade: seventy percent of patients with ovarian will have a recurrence, and up to half of patients

1782

05:08:15.820 --> 05:08:17.780

I want to go surgery for

1783

05:08:23.450 --> 05:08:24.650

indicating that

1784

05:08:26.220 --> 05:08:29.840

operative field, and it just wasn't found by the sergeant

1785

05:08:31.410 --> 05:08:32.510

Dr. Bert Slade: next one.

1786

05:08:34.070 --> 05:08:37.060

Dr. Bert Slade: So would it be better to get more of the cancer

1787

05:08:37.080 --> 05:08:39.320

out of the data suggests.

1788

05:08:39.340 --> 05:08:40.520

The answer is Yes,

1789

05:08:40.720 --> 05:08:54.390

Dr. Bert Slade: for ovarian cancer on the left, five-year overall survival if you look at the blue line, that's the survival with no cytone reduction, and the orange line on the top is cases where the surgeon believed that all of them

1790

05:08:54.490 --> 05:08:56.800

Dr. Bert Slade: the cancer system has been removed. The

1791

05:08:57.580 --> 05:08:58.969

Dr. Bert Slade: so in R. Zero

1792

05:09:01.850 --> 05:09:05.710

is looking at margins of respected tissue,

1793

05:09:05.730 --> 05:09:08.470

and so you can take the tissue out and look at

1794

05:09:23.390 --> 05:09:26.210

Dr. Bert Slade: so Cylinder looks. Um

1795

05:09:27.810 --> 05:09:29.620

Dr. Bert Slade: Many, most

1796

05:09:29.740 --> 05:09:33.830

of ovarian and lung cancers over express full-legged receptors.

1797

05:09:33.990 --> 05:09:37.359

Dr. Bert Slade: These are receptors on the cell that will bind to foamic acid

1798

05:09:37.420 --> 05:09:38.740

cytlux is

1799

05:09:39.010 --> 05:09:40.320

some analog

1800

05:09:41.140 --> 05:09:53.710

Dr. Bert Slade: there's an analog of folding N. So the then it's linked to a floor of four. And so what does that mean when it's excited with the proper wavelength of light? It fluoresces, and so literally the cancer

1801

05:09:54.140 --> 05:09:57.890

Dr. Bert Slade: glows when it's exposed to near infrared light.

1802

05:09:57.990 --> 05:10:03.630

Dr. Bert Slade: And so this is given intravenously for one to nine hours with prior to surgery.

1803

05:10:03.720 --> 05:10:05.150
It's a one hour. Infusion.

1804
05:10:05.400 --> 05:10:07.849
Um. The drug is

1805
05:10:07.950 --> 05:10:09.080
distributed

1806
05:10:10.900 --> 05:10:16.359
in the body, and it's taken up by the cancer cells, and it's amber
cycl. So it concentrates.

1807
05:10:26.310 --> 05:10:27.809
Dr. Bert Slade: So it's a nice,

1808
05:10:32.430 --> 05:10:33.580
Dr. Bert Slade: the next,

1809
05:10:41.340 --> 05:10:43.210
and the agency designated that

1810
05:10:43.380 --> 05:10:48.130
Dr. Bert Slade: fast track and priority review on the business of the
data

1811
05:10:48.350 --> 05:10:51.049
presented to them. They recognize that this is

1812
05:10:52.230 --> 05:10:54.160
Dr. Bert Slade: a substantial input.

1813
05:10:55.180 --> 05:10:58.899
Dr. Bert Slade: So it's ah described as an optical imaging, A

1814
05:11:00.000 --> 05:11:05.290
Dr. Bert Slade: for adult patients with a variant cancer as an adjunct
for interoperative identification

1815
05:11:05.730 --> 05:11:07.000
living in patients.

1816
05:11:10.870 --> 05:11:13.730
Dr. Bert Slade: So everybody is going to look on the right side, even if it's

1817
05:11:19.050 --> 05:11:20.580
of source tissue between the

1818
05:11:22.060 --> 05:11:24.459
Dr. Bert Slade: it doesn't look any different from the rest of the tissue

1819
05:11:24.650 --> 05:11:25.789
can feel a different

1820
05:11:26.330 --> 05:11:41.610
Dr. Bert Slade: Ah, but you know you don't necessarily see that it looks like cancer. So this patient has been accused of someone else, and when the their infrared light source is turned on, you can now see this issue that has taken up

1821
05:11:42.910 --> 05:11:49.200
Dr. Bert Slade: literally are able to visualize where that cancer tissue is, and the

1822
05:11:49.870 --> 05:11:50.990
Dr. Bert Slade: potentially not,

1823
05:11:51.750 --> 05:11:54.790
then you would be able to otherwise.

1824
05:11:54.840 --> 05:11:55.900
Um.

1825
05:11:56.080 --> 05:11:59.010
Dr. Bert Slade: So let's come over to the left and read it from the bottom up. So it's

1826

05:11:59.160 --> 05:12:01.829

the use of visual inspection and palpation.

1827

05:12:08.240 --> 05:12:20.569

Dr. Bert Slade: If if you can get most of all of it out you have better progression-free survival and overall survival, and the amount of residual tissue is an independent and diagnostic benefactor

1828

05:12:20.750 --> 05:12:21.859

of survival.

1829

05:12:24.700 --> 05:12:33.330

Dr. Bert Slade: So here's the phase: Three study. One hundred and fifty patients were infused, and then they all underwent the examination under white light and palpation.

1830

05:12:33.420 --> 05:12:43.960

Dr. Bert Slade: An envelope was open, and one hundred and thirty. I'm: Sorry. Yeah. One hundred and thirty. Four of them had been randomized to have to turn on their infrared. So then the surgeon was able to make it

1831

05:12:45.060 --> 05:12:47.210

um and visualize.

1832

05:12:49.820 --> 05:12:57.220

Dr. Bert Slade: The surgery took place, Susan was able to come back and look again under ar to see if I missed anything to take additional.

1833

05:12:57.750 --> 05:13:01.690

Dr. Bert Slade: All of the issues were sent for pathologic evaluation.

1834

05:13:01.700 --> 05:13:02.380

This.

1835

05:13:05.270 --> 05:13:19.289

Dr. Bert Slade: So who was in the study that among the one hundred and fifty they were mostly white and eighty five percent, mostly post

menopausal, eighty, five, and among one hundred and nine, Ah C. Fifty, who had confirmed cancer and coming in

1836

05:13:19.300 --> 05:13:25.949

Dr. Bert Slade: about eighty, five percent head stage, three or four, and it was mostly Sara and the person

1837

05:13:29.800 --> 05:13:35.839

Dr. Bert Slade: the safety profiles. So these are adverse events reported as to

1838

05:13:37.040 --> 05:13:44.020

Dr. Bert Slade: possibly they were mild and moderate. The only severe was, and a Nieman Anemia, which

1839

05:13:57.850 --> 05:14:05.280

Dr. Bert Slade: So here's what happens if I'm one hundred and thirty, four, the bar on the left, twenty, seven percent of them had tissue removed

1840

05:14:05.630 --> 05:14:06.860

that proof

1841

05:14:07.040 --> 05:14:09.160

the cancer, and would not have been removed,

1842

05:14:09.340 --> 05:14:11.429

and it not been visualized. With this,

1843

05:14:11.510 --> 05:14:12.540

the cytoplasm

1844

05:14:12.630 --> 05:14:15.740

Dr. Bert Slade: among his one hundred and night cancer, patients, thirty, three percent

1845

05:14:23.610 --> 05:14:25.869

Dr. Bert Slade: among patients coming in for cyto reduction mate

1846

05:14:26.200 --> 05:14:27.839
to have additional tissue boots,

1847

05:14:28.120 --> 05:14:31.240
Dr. Bert Slade: and those who were in for interval people and forty percent

1848

05:14:40.350 --> 05:14:44.199
Dr. Bert Slade: detective using slid locks and not detective using

1849

05:14:44.340 --> 05:14:47.190
Dr. Bert Slade: It's a standard, you know. White lighted palpation alone.

1850

05:14:50.570 --> 05:14:55.699
Dr. Bert Slade: So my last slide, the investigators reported to us that

1851

05:14:55.750 --> 05:14:57.460
fifty six percent of patients

1852

05:15:02.930 --> 05:15:05.200
side of being able to visualize tissue

1853

05:15:05.400 --> 05:15:06.489
the with us,

1854

05:15:08.610 --> 05:15:10.550
Dr. Bert Slade: fifty, one percent of patients

1855

05:15:15.040 --> 05:15:16.720
Dr. Bert Slade: and sixty-two percent that she,

1856

05:15:17.110 --> 05:15:20.039
section or zero, In the opinion the

1857

05:15:22.400 --> 05:15:24.090
normally be in the ranch, and

1858

05:15:24.120 --> 05:15:25.460

twenty to seventy percent.

1859

05:15:27.110 --> 05:15:29.119

It's a wide way to tell patient alone.

1860

05:15:29.540 --> 05:15:33.129

Dr. Bert Slade: Those are my slides. I'm going to turn it over to Dr. Eva.

1861

05:15:33.200 --> 05:15:35.599

Dr. Bert Slade: Talk about the the lung study.

1862

05:15:36.180 --> 05:15:47.249

Dr. Michael Ebright: Hello! Thank you for giving us the opportunity to present today. My name is Michael Ebr. Right? I'm. A thoracic surgeon at Stanford Hospital in Connecticut, at Columbia University, New York.

1863

05:15:47.260 --> 05:15:57.959

Dr. Michael Ebright: I'll be speaking about the use of sidelines during Lung Cancer Surgery and please. Forgive me. I'm getting over some kind of respiratory thing like half the population. So forgive my voice.

1864

05:15:58.080 --> 05:15:59.770

Dr. Michael Ebright: Next slide.

1865

05:16:00.190 --> 05:16:03.410

Dr. Michael Ebright: Those are my disclosures. Next slide.

1866

05:16:04.040 --> 05:16:19.709

Dr. Michael Ebright: So sidelocks is currently under review by the Fda for the proposed indication as an optical imaging agent for patients with known or suspected lung cancer. It's received fast track and Priority review designations demonstrating a significant unmet need

1867

05:16:20.010 --> 05:16:21.410

Dr. Michael Ebright: next slide.

1868

05:16:24.120 --> 05:16:40.419

Dr. Michael Ebright: So Sidelock's address is an important unmet clinical need in the surgical treatment of Lung Cancer five year. Survival for lung cancer, even at early stage, remains poor at just over sixty percent for localized disease, and about only one in three for regional disease.

1869

05:16:40.430 --> 05:16:49.590

Dr. Michael Ebright: A high percentage of patients end up with a recurrence after surgery, with a quarter of them recurring locally, meaning near a suture liner within the same lobe of the lung,

1870

05:16:49.690 --> 05:17:00.799

Dr. Michael Ebright: and what's really important to note is that the average survival after a local recurrence is less than one year. This is when you start off with early stage disease potentially curable.

1871

05:17:01.060 --> 05:17:11.800

Dr. Michael Ebright: We know that a significant number of patients have synchronous malignant lesions undetected by pre-operative imaging. In fact, one study showed this number to be eight to nine percent.

1872

05:17:11.850 --> 05:17:18.820

Dr. Michael Ebright: We know we are occasionally and unknowingly leaving disease behind in patients after surgery.

1873

05:17:18.830 --> 05:17:38.590

Dr. Michael Ebright: We also know that obtaining an adequate surgical margin is critical In lung cancer surgery, for instance, a ten millimeter margin from the edge of the tumor to the staple line has about a forty-five percent lower risk of recurrence than if the margin were half done. And so we need to know that i've obtained an adequate march at the time of surgery.

1874

05:17:38.660 --> 05:17:47.330

Dr. Michael Ebright: And very importantly, as we're proprotting more and more of our operations thoroughscopically more robotically meaning, we're not spreading the ribs to get into the chest

1875

05:17:47.340 --> 05:18:00.729

Dr. Michael Ebright: it's very difficult to perform deportation with your own fingers during imaging it. You can um during the surgery, as

you can imagine, to feel, and and and obviously a lot of these lesions are below the surface of the bung. You can't actually see them.

1876

05:18:00.740 --> 05:18:09.800

Dr. Michael Ebright: And currently, we have no foolproof techniques for this, although minimally invasive surgery has become, or it's quickly becoming, the standard of care for lung cancer.

1877

05:18:09.810 --> 05:18:34.979

Dr. Michael Ebright: And if your eyes haven't already moved to the right of this slide, you see, or maybe you don't see in the upper panel. Ah, that's the upper lobe of the lung, and there's a tumor there. You can't see the tumor, because it's below the plural surface. By using side locks you can clearly see where it is, and you know where to perform the resection, and I don't think you need to be a thoracic surgeon to see how amazing this technology is. Next slide

1878

05:18:37.080 --> 05:18:52.789

Dr. Michael Ebright: a prospective, randomized, clinical trial was performed in order to assess the utility of cytos for the surgical treatment of lung cancer. This was a phase Iii. Randomized, controlled surge of trial cases with a known or suspected lung cancer undergoing minimally invasive thoracic surgery.

1879

05:18:52.800 --> 05:19:11.740

Dr. Michael Ebright: We're given sidelux infusion within twenty-four hours pre-operatively all patients underwent standard of care white light examination you know with your scope in the chest and palpation of the lung, to the best of a certain ability to detect the primary tumor or any other suspicious abnormalities. When looking around the store,

1880

05:19:11.820 --> 05:19:28.719

Dr. Michael Ebright: ten to one. Randomization was performed, and those who are randomized to sidelocks underwent near-infrared imaging pre-operative just like dr slade sent for ovarian um lesions, seen by white light and through mirror and thread imaging, were documented, and then resection was performed,

1881

05:19:28.730 --> 05:19:39.590

Dr. Michael Ebright: all sessions were evaluated with post-section near infrared imaging, and to evaluate to valued margins, and of course all specimens were ultimately sent for a pathological valuation.

1882

05:19:40.180 --> 05:19:41.470

Dr. Michael Ebright: Next slide.

1883

05:19:44.070 --> 05:19:56.340

Dr. Michael Ebright: The demographics were fairly uninteresting. You can see the mean age of a cohort with sixty six years. This is actually younger than most, since the average age of diagnosis of lung cancer is aged seventy.

1884

05:19:56.410 --> 05:20:14.370

Dr. Michael Ebright: Ah! Smoking history was as expected, for this population. Most cases were Adenal carcinoma, as expected. Initial procedures were mostly sublimari sections, taking out less and low like a wedge or a sect, and all cases were basically evenly split between

1885

05:20:14.380 --> 05:20:17.860

Dr. Michael Ebright: plain, handheld camera, throatoscopic and robotic circuit.

1886

05:20:18.570 --> 05:20:19.750

Dr. Michael Ebright: Next slide.

1887

05:20:21.160 --> 05:20:31.940

Dr. Michael Ebright: Thank you, the infusion was found to be safe. The most common effect was nausea. Ninety Three percent of the adverse effects were considered mild to moderate, and there were no essays.

1888

05:20:32.130 --> 05:20:33.320

Dr. Michael Ebright: Next slide.

1889

05:20:36.430 --> 05:20:46.870

Dr. Michael Ebright: The primary endpoint was what was defined as a clinically significant event. These were defined as three specific scenarios where the use of sidelocks allowed the surgeon to detect cancer

1890

05:20:47.070 --> 05:20:55.429

Dr. Michael Ebright: which was not visualized during standard methods. So where was there an advantage? In nineteen percent of cases the

primary tumor

1891

05:20:55.440 --> 05:21:08.570

Dr. Michael Ebright: was unable to be visualized or detected interoperatively using the standard white light and palpation that was only able to be localized after near image, near infrared dimension was performed similar to the picture I showed you on the prior slide

1892

05:21:08.910 --> 05:21:20.690

Dr. Michael Ebright: in eight percent of cases in a cult malignant lesion not seen on pre-operative imaging and not detected by standard visualization was discovered only after the use of side locks in the Arctic red image.

1893

05:21:20.930 --> 05:21:38.529

Dr. Michael Ebright: Finally, in thirty-eight percent of cases, a close Martian was identified, using sidelines by God, too close marshal with identification sidelocks which ordinarily mandated, seeking a more aggressive margin. All in all, fifty three percent of cases had one or more clinically significant events

1894

05:21:38.670 --> 05:21:39.850

Dr. Michael Ebright: next slide.

1895

05:21:41.530 --> 05:21:49.540

Dr. Michael Ebright: So to reach that there are three important ways that Sidelux imparts a substantial clinical improvement to the way we operate on lung cancer today.

1896

05:21:49.550 --> 05:21:56.600

Dr. Michael Ebright: In fact, this may prove to be one of the most important advances in throughout the rest of social ecology. In recent years Number one

1897

05:21:56.620 --> 05:22:13.209

Dr. Michael Ebright: it helps us localize tumors. When we want to remove a tumor in the lung it should be emphasized that the tumor is often beneath the surface of the plura, and you cannot see it. So we're dependent on being able to feel it with a finger between the ribs, which is not so easy and sometimes impossible,

1898

05:22:13.220 --> 05:22:20.340

Dr. Michael Ebright: with side locks, the tumor just close right in front of you, like you can see on these pictures, even if it's three centimeters beneath the surface

1899

05:22:20.350 --> 05:22:31.800

Dr. Michael Ebright: without cycle. Observation has to go through an additional invasive procedure for preactive localization. That may be an interventional radiology procedure, such as a wire localization in a different department,

1900

05:22:31.810 --> 05:22:43.119

Dr. Michael Ebright: or potentially navigational bronchoscopy, which often requires an additional Ct stand. Both are associated with their own complications and their own costs, and neither of those methods for food.

1901

05:22:43.190 --> 05:22:57.319

Dr. Michael Ebright: You need to have aporary knowledge of where the tumor is in order for both of those techniques to work. You don't need it for cytos. So logistically sunlocks is easy on the patient. It's easier on the surgeon, and it's more reliable.

1902

05:22:57.850 --> 05:23:07.890

Dr. Michael Ebright: Number two. It helps us find cancer where we didn't know it existed. We have a pre-operative Ct. And we have a pre-operative pet for most patients but they're far from perfect.

1903

05:23:07.900 --> 05:23:23.449

Dr. Michael Ebright: You need to. They have a limited sensitivity. So, for instance, here's a personal example. I had a patient with the tumor in the left upper low, who who agreed to be on the trial we use the sidelux I use near infrared image Gene. I found that tumor with no difficulty.

1904

05:23:23.500 --> 05:23:45.569

Dr. Michael Ebright: The Ct. Scan was otherwise clear when I flipped on the nearest red light, I actually saw a very tiny area in the lower, low along the plural service, which I initially completely would have written off as a small focus of star, basically less than two millimeters, and I never would have taken it out. But we were on trial. My level of fish was a little higher because it glowed. I removed it, and lo and behold, it was actually

1905

05:23:45.580 --> 05:24:04.019

Dr. Michael Ebright: ah cancer and a culture cancer that I absolutely absolutely would have left behind. Had I not used the cytos? The patient is so happy. She signed up for this trial. It changed our discussion in tumor board. We discussed the need for agent therapy office much closer. Ah, luckily, today she is still disease-free.

1906

05:24:05.200 --> 05:24:12.950

Dr. Michael Ebright: We also know that if you leave the seas behind, there's a local recurrence, as I mentioned before, survival is less than one year.

1907

05:24:13.860 --> 05:24:15.170

Dr. Michael Ebright: Number three

1908

05:24:15.180 --> 05:24:31.559

Allison Pompey: three minutes. Bidalux allows us to visually see the distance from the tumor edge to the margin of our stable, so this may ultimately allow us to plan our resection margins with greater accuracy. So, for instance, when i'm performing an operation, and I see the tumor goal

1909

05:24:33.700 --> 05:24:37.510

Dr. Michael Ebright: to take my margin to make sure it's adequate on the first shot,

1910

05:24:37.640 --> 05:24:55.020

Dr. Michael Ebright: and the first shot is usually the best shot. All in all satellites may change the way we perform selassic surgery, and it allows the surgeon to approach the disease with much greater confidence. In fact, surgeons indicated a change in slope of their procedure due to sidewalks for twenty nine percent of their case patients in the study

1911

05:24:55.900 --> 05:24:57.800

Dr. Michael Ebright: last slide next one for me.

1912

05:24:58.190 --> 05:25:13.650

Dr. Michael Ebright: So just to sum up um in ovarian cancer. Patient survival is greater among patients who receive complete set of reduction satellites identified additional cancer not otherwise plan for re-section in twenty, seven percent of the Mitch patients,

1913

05:25:13.960 --> 05:25:20.490

Dr. Michael Ebright: ovarian cancer patients receiving interval defaulting sidelines identified additional cancer, and forty percent of patients

1914

05:25:20.610 --> 05:25:33.120

Dr. Michael Ebright: students indicated achieving a complete reception. In sixty-two percent of cases with the use of sidewalks in lung cancer, thirty to Fifty five percent of patients have recurrence following lung cancer surgery

1915

05:25:33.130 --> 05:25:45.700

Dr. Michael Ebright: fifty-three percent of cases in the Iucidite trial had a clinically significant event. Using satellites in percent of patients. The surgeon localized the primary lesion where they otherwise would not have been able to localize it with,

1916

05:25:45.710 --> 05:26:00.850

Dr. Michael Ebright: and eight percent of patients that surgeon identified occult, synchronous lesions that would not have been identified were not recycled, and in thirty eight percent of patients a close reception margin was identified from each of the sidelines. So basically it indicated that surgeons use in sidelines,

1917

05:26:01.370 --> 05:26:05.089

Dr. Michael Ebright: their operative scope in twenty nine percent of taxes.

1918

05:26:05.910 --> 05:26:10.880

Dr. Michael Ebright: That's all I have. Thank you very much for allowing us to present this very exciting technology,

1919

05:26:14.880 --> 05:26:17.519

Drew Kasper: and thank you very much for your presentation.

1920

05:26:17.690 --> 05:26:21.879

Drew Kasper: Are there any questions from the public or from Cms.

1921

05:26:23.330 --> 05:26:26.239

Drew Kasper: And we start with Jane? Go ahead and unmute, please, Jane.

1922

05:26:27.080 --> 05:26:44.430

Jing Xu: Hi, and thank you for this, your presentation and I have one question for the ovarian cancer, and we noticed that in the phase three trial you reported that the sensitivity to detect the ovarian cancer was eighty, three percent, and the patient false positive rate

1923

05:26:44.460 --> 05:26:52.870

Jing Xu: was twenty, four point eight percent. And could you discuss the impact of that false, positive rate in terms of patient outcome.

1924

05:26:53.140 --> 05:26:54.240

Jing Xu: Thank you.

1925

05:26:54.800 --> 05:26:56.520

Dr. Bert Slade: Yes, thank you

1926

05:27:03.400 --> 05:27:06.469

Dr. Bert Slade: has been done removing Fisher, but

1927

05:27:06.560 --> 05:27:08.079

turned out not to be cancer, and

1928

05:27:08.270 --> 05:27:15.389

Dr. Bert Slade: and did it affect morbidity in in any substantial way? And it did not.

1929

05:27:15.430 --> 05:27:19.250

Dr. Bert Slade: I have an adverse effect on the patient to have those additional

1930

05:27:31.020 --> 05:27:37.580

Drew Kasper: okay? Do we have additional questions from the public or Cms. Adina? Please go ahead and unmute.

1931

05:27:38.240 --> 05:27:39.190

Adina Hersko: Thank you.

1932

05:27:39.200 --> 05:27:48.809

Adina Hersko: The sixty two percent recorded for a complete reception with the ovarian. Would that only the use of title? Or is that in the total of

1933

05:27:51.400 --> 05:27:54.010

Dr. Bert Slade: um that was only with sidelines?

1934

05:27:56.570 --> 05:28:04.729

Adina Hersko: Thank you. Can you also talk about how much more extra tissue was taken when you're in the sidelines. On average,

1935

05:28:06.020 --> 05:28:08.010

Dr. Bert Slade: I don't have the answer to that. But

1936

05:28:08.170 --> 05:28:09.240

you get a for you.

1937

05:28:10.570 --> 05:28:11.770

Adina Hersko: Thank you.

1938

05:28:20.490 --> 05:28:23.019

Jim Rollins: This is Jim Rowland's.

1939

05:28:24.250 --> 05:28:27.320

Jim Rollins: Can you please go ahead, Dr. Wrongs? Yes.

1940

05:28:27.330 --> 05:28:30.760

Jim Rollins: Can you explain why a false positive might occur?

1941

05:28:34.470 --> 05:28:36.450

Dr. Bert Slade: Um,

1942

05:28:36.820 --> 05:28:40.240

Dr. Bert Slade: you know One possibility is that macrophations

1943

05:28:40.410 --> 05:28:43.190

Dr. Bert Slade: um fully receptor beta,

1944

05:28:43.680 --> 05:28:47.179
and so they can't.

1945
05:28:49.180 --> 05:28:51.700
And

1946
05:28:53.230 --> 05:28:54.860
Dr. Bert Slade: if some,

1947
05:28:55.300 --> 05:28:57.379
Dr. Bert Slade: if there are enough of them to download,

1948
05:28:57.650 --> 05:29:01.160
Dr. Bert Slade: that would be a good thing, because if they are tumor
invading macrophations,

1949
05:29:08.280 --> 05:29:10.300
Dr. Bert Slade: I tell you, when the cancer was gone.

1950
05:29:10.340 --> 05:29:13.489
Dr. Bert Slade: But you know other than that,

1951
05:29:14.690 --> 05:29:16.210
Dr. Bert Slade: i'll tell you

1952
05:29:16.260 --> 05:29:17.489
Dr. Bert Slade: what are the other tissues,

1953
05:29:24.010 --> 05:29:27.810
Dr. Bert Slade: you know, interoperatively.

1954
05:29:28.850 --> 05:29:32.130
Dr. Bert Slade: It may not always be quite so clear whether

1955
05:29:32.770 --> 05:29:33.990
false coloration is

1956
05:29:35.500 --> 05:29:38.550

Make you believe that, he said. You should take that tissue out,

1957

05:29:38.860 --> 05:29:40.290

Dr. Bert Slade: and so I think

1958

05:29:40.590 --> 05:29:44.319

Dr. Bert Slade: experience and practice. The false policy in the rate will certainly go down.

1959

05:29:46.300 --> 05:29:48.689

Dr. Michael Ebright: I I agree with that wholeheartedly. Yes,

1960

05:29:48.700 --> 05:30:13.300

Tim Biro, RPh: not. This is Timberl and i'm cheap oper an obst for Ontario laboratories. In the case of lung cancer surgery I can verify this. These patients are the known lung cancer, or are they suspicious for lung cancer? So there are cases where it's suspicious, based on Ct. And ah, if the doctor could not, the surgeon could not find it, which found on her side of lots. Only several of those lesions were not cancer.

1961

05:30:13.310 --> 05:30:19.159

Tim Biro, RPh: They were, you know, they could have been ground glass capacities or other small areas of interest, but

1962

05:30:19.770 --> 05:30:32.389

Tim Biro, RPh: did not have cancer in those cases. So that would be another source of the false positives, even though the side of it was exactly what it was meant to do which has helped to identify cancer. They might have missed otherwise, or even non-cancerization.

1963

05:30:32.420 --> 05:30:34.400

They're not. Only

1964

05:30:35.370 --> 05:30:37.150

Jim Rollins: thank you, Thank you.

1965

05:30:40.140 --> 05:30:45.420

Jim Rollins: One more question. And speaking of lymph nodes

1966

05:30:45.490 --> 05:30:51.630

Jim Rollins: during the examination, were there any left notes positive, based on ciderlux?

1967

05:30:52.070 --> 05:30:54.540

Dr. Michael Ebright: I can answer that in the long.

1968

05:30:54.550 --> 05:31:18.870

Dr. Michael Ebright: Um! So just for the same reasons, Dr. Slade. Ah, ah! Mentioned the lymph. Nodes can often light up. Ah, because there are macro pages in the lymphatic system. So it's. It's very clear to the thoracic surgeon where the lymph nodes lie, and where they don't in any of these receptions, it's standard of care to reset a generous amount of lymph nodes. So they're coming out, anyway, and they're all being evaluated.

1969

05:31:18.880 --> 05:31:35.960

Dr. Michael Ebright: That's part of the learning curve, as when you're looking at the lung of something within the long lights up we're much more concerned. But if something within a regional dream lymphatic station lights up, we're less concerned. But those areas are coming out anyway. So it's less of a problem.

1970

05:31:36.790 --> 05:31:38.539

Jim Rollins: Thank you. Thank you.

1971

05:31:38.640 --> 05:31:45.679

Dr. Bert Slade: Covariant study there. There were a few links, those they were removed only because they were positive of satellites.

1972

05:31:46.880 --> 05:31:48.020

Jim Rollins: Thank you.

1973

05:31:53.140 --> 05:31:58.210

Drew Kasper: And I see Dean also has a hand up who i'm unmuted enough.

1974

05:31:59.180 --> 05:32:11.520

Adina Hersko: Thank you. Um. Going back to my question previously about the sixty two percent with complete reception, you had an answer that was just in the side of look. Were you able to determine how many had complete reflection without sidelines.

1975

05:32:13.990 --> 05:32:16.629

Dr. Bert Slade: I don't have that answer. Maybe

1976

05:32:19.820 --> 05:32:23.460

Tim Biro, RPh: no. We don't we don't have that information readily available.

1977

05:32:24.840 --> 05:32:34.150

Adina Hersko: Thank you Is there any longer-term data on the outcomes comparing Sedalu to no sidelock Or is that kind of

1978

05:32:34.180 --> 05:32:38.710

Adina Hersko: are you able to kind of demonstrate the change in outcomes

1979

05:32:38.930 --> 05:32:44.610

Adina Hersko: without side of locks, and how it might have changed. Having looked at it with the side of

1980

05:32:45.470 --> 05:32:55.100

Dr. Michael Ebright: we do not in lung cancer, it's it's very difficult to use the early endpoints and the studies, you know

1981

05:32:55.120 --> 05:32:59.400

Dr. Michael Ebright: not old enough to figure that out and wasn't powered for it. But

1982

05:32:59.900 --> 05:33:14.289

Dr. Michael Ebright: what we do know historically, is that leaving cancer behind is a bad thing, and we know that without the sidelux, in a good number patients it was eight. We would have left cancer behind. How do we not use it?

1983

05:33:14.300 --> 05:33:15.990

Dr. Michael Ebright: Including one of my cases?

1984

05:33:19.910 --> 05:33:23.519

Adina Hersko: But the impact of that was not directly demonstrated. Is that right?

1985

05:33:23.600 --> 05:33:26.560

Dr. Michael Ebright: No, no, the study was not designed to look at that.

1986

05:33:27.140 --> 05:33:28.249

Thank you.

1987

05:33:38.130 --> 05:33:45.039

Drew Kasper: I don't see any questions in the intoat mailbox, or in the Q. And A.

1988

05:33:45.700 --> 05:33:47.420

Drew Kasper: Do we have any

1989

05:33:47.530 --> 05:33:51.179

Drew Kasper: additional questions from the public or Cms.

1990

05:33:59.060 --> 05:34:03.099

Drew Kasper: And Dr. Wrongs. I think your hands just up from the previous question. Is that right?

1991

05:34:06.360 --> 05:34:08.760

Jim Rollins: Yeah, I think That's from the previous question.

1992

05:34:09.550 --> 05:34:10.920

Drew Kasper: Okay, thanks.

1993

05:34:13.310 --> 05:34:15.450

Adina Hersko: One additional question.

1994

05:34:17.390 --> 05:34:18.980

Drew Kasper: Please proceed. Adena.

1995

05:34:20.210 --> 05:34:30.209

Adina Hersko: Um. One additional question without sidelock is the determination of clear surgical margins determined by pathology by local recurrence at follow-up, or both

1996

05:34:31.820 --> 05:34:32.970
Dr. Bert Slade: orthropology

1997
05:34:34.780 --> 05:34:36.140
Dr. Michael Ebright: by mythology.

1998
05:34:37.390 --> 05:34:41.159
Adina Hersko: Thank you. And how long was the follow up in the trial.

1999
05:34:44.320 --> 05:34:46.609
Dr. Michael Ebright: There were no survival studies done.

2000
05:34:47.070 --> 05:34:49.649
Dr. Bert Slade: Yeah, but they didn't incorporate long-term follow up.

2001
05:34:50.960 --> 05:34:53.400
Adina Hersko: So it was just that at the time of the surgery

2002
05:34:53.990 --> 05:34:54.790
Adina Hersko: right

2003
05:34:54.800 --> 05:35:02.040
Dr. Michael Ebright: looking at the difference between white light and sidelux, and looking at the the pathologic metrics.

2004
05:35:03.280 --> 05:35:06.530
But we have regarding margins in the lung study of the surgeon.

2005
05:35:07.120 --> 05:35:08.460
We removed

2006
05:35:08.760 --> 05:35:15.210
Dr. Bert Slade: you to a back table and illuminate it with the new infrared, and and measure the

2007
05:35:16.120 --> 05:35:18.820
the staple line to the edge of the fluorescence,

2008

05:35:19.420 --> 05:35:23.290

Dr. Bert Slade: allows them the opportunity to go back in and take for an issue of it

2009

05:35:24.020 --> 05:35:26.520

that the fluorescence was too close

2010

05:35:27.140 --> 05:35:28.480

than ten millimeters.

2011

05:35:31.300 --> 05:35:39.409

Dr. Michael Ebright: Just a quick correction to that. There was twenty eight. They follow up just for safety in the trial, but nothing for survival or recurrence

2012

05:35:41.690 --> 05:35:44.490

Adina Hersko: for for uh re operation for margin.

2013

05:35:44.500 --> 05:35:49.869

Dr. Michael Ebright: No, not for me. It was well, yes, exactly for any serious adverse events

2014

05:35:49.920 --> 05:35:53.360

Dr. Michael Ebright: based on the surgery or on the the infusion.

2015

05:36:00.170 --> 05:36:01.240

Thank you.

2016

05:36:08.800 --> 05:36:12.840

Drew Kasper: Okay. No new questions have come up in the Q. A.

2017

05:36:13.570 --> 05:36:17.469

Drew Kasper: No new questions have come up in the mailbox,

2018

05:36:18.250 --> 05:36:26.769

Drew Kasper: but we'll take a last call for questions. I don't see any hands at the moment, any last questions from the public or from Cms:

2019

05:36:31.530 --> 05:36:34.609

Drew Kasper: Okay, Great. Well, again, Thank you.

2020

05:36:35.150 --> 05:36:36.789

Dr. Michael Ebright: Thank you for the opportunity,

2021

05:36:38.590 --> 05:36:45.039

Drew Kasper: and we'll now hear from presenters for the Xeno View hyperpolarize Gen. On one hundred and twenty nine

2022

05:36:45.200 --> 05:36:49.720

Drew Kasper: technology application. You may now unmute your phones.

2023

05:36:50.650 --> 05:37:03.609

Dr. Bastiaan Driehuys: Okay, thank you very much for the opportunity to present Xeno view is a method of enabling Mri to be used to image pulmonary function three dimensionally and regionally. This patented agent

2024

05:37:03.620 --> 05:37:18.790

Dr. Bastiaan Driehuys: helps us identify treatment for diseases like idiopathic pulmonary fibrosis has unique sensitivity to abnormalities in long Covid and can quantify ventilation abnormalities in obstructive lung diseases. Next slide please

2025

05:37:20.560 --> 05:37:39.099

Dr. Bastiaan Driehuys: the fundamental technology platform is that with the conventional Mri scan. The addition of Xeno view allows patients to inhale the gas, and we are able to produce a three-dimensional image of the distribution of that gas in a ten second breathful without using ionizing radiation.

2026

05:37:39.130 --> 05:37:52.659

Dr. Bastiaan Driehuys: The technology is supported by positive results from two phase, three trials that were completed, and they are currently under review by Fda with action Expected December thirtieth of this year. Next slide, please.

2027

05:37:54.180 --> 05:37:59.950

Dr. Bastiaan Driehuys: The workflow, for Xeno view is depicted here. Xenon is a stable,

2028

05:37:59.960 --> 05:38:18.209

Dr. Bastiaan Driehuys: an inert gas isotope that comes from the atmosphere. It is activated by aligning the nuclear magnetic moments in the hyperpolarization system during dose production, and that is measured and dispensed into a dose delivery device that's highlighted in the blue Box. There

2029

05:38:18.220 --> 05:38:35.689

Dr. Bastiaan Driehuys: it's, then transported to the mri suite, where the patient has been positioned on the table in a radio frequency coil that can be used to detect Xenon signals. A very rapid scan is then acquired in the ten second breathful, and it can be interpreted by just radiologists.

2030

05:38:35.700 --> 05:38:39.239

Dr. Bastiaan Driehuys: Xeno View is considered a new chemical entity.

2031

05:38:39.570 --> 05:38:41.450

Dr. Bastiaan Driehuys: Next slide, please,

2032

05:38:42.790 --> 05:38:51.269

Dr. Bastiaan Driehuys: as compared to other means of evaluating lung function. You're of course, aware that conventional lung function, testing such as spirometry

2033

05:38:51.280 --> 05:39:10.359

Dr. Bastiaan Driehuys: is not able to visualize function regionally is relatively effort-dependent and therefore relatively insensitive function is possible to image spatially, using gamma centigraphy. But this is a low resolution scan that takes a long time to acquire and administers radiation.

2034

05:39:10.370 --> 05:39:26.670

Dr. Bastiaan Driehuys: Ct, Scanning, of course, does an exquisite job of imaging long anatomy, but not function. It delivers ionizing radiation. Xenon and Mri, as you can see, overcomes each of these obstacles by achieving functional imaging

2035

05:39:26.680 --> 05:39:30.479

Dr. Bastiaan Driehuys: without ionizing radiation and effort. Dependence Next slide please.

2036

05:39:32.620 --> 05:40:02.030

Dr. Bastiaan Driehuys: A particularly unique aspect of Xenon that we'll highlight in this presentation is that when it is inhaled, it enters the album and airspace. It fuses freely across the blood gas barrier and into the pulmonary capillary red blood cells. In each of these three compartments the Xenon can be imaged and distinguished separately from the others, and what that lets us do is essentially decompose each of the aspects of pulmonary gas exchange that are conventionally measured by

2037

05:40:02.040 --> 05:40:19.480

Dr. Bastiaan Driehuys: the diffusing capacity of carbon monoxide dlco But of course, we're able to resolve it three-dimensional and identify the contributions of each of these compartments to pathophysiology, and the next slide I'll ask my colleague, Joe Monopoly, to walk you through. What these images look like,

2038

05:40:20.230 --> 05:40:38.049

Dr. Joe Mammarappallil: hey? Everyone! Thank you for the opportunity to present I'm. Just radiologists at Duke and I'm going to talk to you about the diverse cardiaculary. Some of the signatures we see with different type of diseases in the lung, so i'll draw your attention to the left, where you're looking at your healthy patient with the three different signatures that we

2039

05:40:38.180 --> 05:40:47.230

Dr. Joe Mammarappallil: just talked about. We're able to actually image the gas in a ventilatory aspect that you can see here in our healthy

2040

05:40:47.360 --> 05:41:09.770

Dr. Joe Mammarappallil: controlled here. What are the healthy appearances indicated by the green. We can also in, as it transits from the airspaces to the membrane tissue, and this is a normal appearance here to the left, with our normal patient, with our green barrier tissue signal there, and ultimately we can see the gas being imaged in a gas exchange transit to the Rbc. In an old patient we have normally

2041

05:41:09.780 --> 05:41:15.610

Dr. Joe Mammarappallil: transferred to the Rbc. Indicated by Green. So we have some specific signatures with our three different.

2042

05:41:15.620 --> 05:41:45.170

Dr. Joe Mammarrappallil: So we're showing you here, and the first one i'll draw your attention to is our Co. Pd. Group. So what do we see with specific types of beta type with Cpd. Obviously ventilation defects, and you can see that indicating here by a decrease in multifocal areas of red. Seeing here with coronal imaging here we indicate a defect percentage of ventilation of fifty six percent. Now, we're going to move to a signature which I love to talk about, which is our Ips

2043

05:41:45.180 --> 05:41:46.090
patient.

2044

05:41:46.360 --> 05:42:07.279

Dr. Joe Mammarrappallil: And what is the classic we willow, we see with a lot of I Pm. Patients. Well, in most patients. I draw your attention here to the barrier tissue and a lot of those patients with the stick in areas of fibroitic membrane. What we see is an elevated barrier signal, and you can see in this situation, in this particular patient in eighty to seven percent

2045

05:42:07.290 --> 05:42:25.889

Dr. Joe Mammarrappallil: high barrier percentage. And then ultimately, as we talked about, we can image gas exchange where we're imaging the gas. All that we get all the way to the Rbc. And i'll draw your attention to the third column, where we're looking at pulmonary or hypertension. We've imagined many groups of image, these patients, and what we see here is a low

2046

05:42:25.900 --> 05:42:40.849

Dr. Joe Mammarrappallil: transition to the Rbc. We're, indicating here for forty-seven percent, and that's indicated where we saw green with our healthy patient. We have got decreased areas of Rbc. Transfer, particularly here at the lung basis and the next slide, please.

2047

05:42:42.700 --> 05:42:48.910

Dr. Joe Mammarrappallil: So some examples of the clinical applications of hyper polarizing on Mri

2048

05:42:49.110 --> 05:43:02.040

Dr. Joe Mammarrappallil: to draw your attention here to the left, looking at this patient with asthma and the tier on the left lower lobe here in criminal imaging. And if we look at the pre treatment image, you can see that there's a ventilation team

2049

05:43:02.050 --> 05:43:19.470

Dr. Joe Mammarappallil: ventilation, percentage defects here indicated by ten percent most notable here at the lung bases And this is pre-treatment. Now, post treatment you can see that this area almost completely resolves, and that Bdp percentage has dropped as well. So a nice way to see how post biologic, positive response in an asthma patient.

2050

05:43:19.480 --> 05:43:35.780

Dr. Joe Mammarappallil: Another thing we're really excited about is looking at barrier tissue particularly. We talked about it with our pulmonary fibrosis patients. And if you look at this pulmonary Fibrosis patient. This is now just barriers. That was ventilation that we looked at with the asthma patient

2051

05:43:35.790 --> 05:43:55.789

Dr. Joe Mammarappallil: the various signal in this patient pre-treatment is elevated indicated by the purple, and we can see post-treatment scans. That That barrier tissue is actually we think shrunk in because the gas is now no longer elevated in this area of tissue. Another aspect we're really excited about as well, which is Rbc. Transfer defects. And you can see that nicely evidenced here

2052

05:43:55.800 --> 05:43:58.490

Dr. Joe Mammarappallil: by this long haul Kovat patients, which we'll get into

2053

05:43:58.500 --> 05:43:59.810

Allison Pompey: three minutes.

2054

05:44:00.010 --> 05:44:05.569

Dr. Joe Mammarappallil: You can see normal patient here, and our abnormal Covid patient here. Next slide.

2055

05:44:07.470 --> 05:44:14.259

Dr. Joe Mammarappallil: Also, there is we all focus on Ct: If you look at this Ct image here, what can we see with with

2056

05:44:14.270 --> 05:44:33.970

Dr. Joe Mammarappallil: with hyperpolarized Gen. On imaging? Well, we can see abnormalities that we wouldn't see in Ct. And if you look at the the bottom image, this patient's relatively neural normal, there

is some permanent fibrosis going on. But i'll draw your attention to the barrier tissue. Much more abnormal, very tissue than we would see with abnormalities in Ct. Next slide, and i'll hear this off.

2057

05:44:37.050 --> 05:45:07.040

Dr. Chase S. Hall: I get up here and Chase Hall here. Hominologist, University of Kansas, one of the most uh unique things that we're seeing in interstitial Lyme disease is that this Um, as previously alluded to, a barrier signal is elevated in the setting interstitial lung disease, and we're seeing this in all sorts of interstitial lung disease, where it's ipf or nsip um. But what the remarkable feature about it is that it signifies um long tissue that is, at risk of progression. Um! And here you can see that we can actually, on an individual patients, see

2058

05:45:07.050 --> 05:45:36.539

Dr. Chase S. Hall: the the change in the barrier signal after only three months of treatment with op-ed Um! If you think about the clinical trials. Looking at Opec to see a response, it's taken hundreds of patients over a year to demonstrate a change in course vital capacity, which is our typical um endpoint in clinical trials. But here you can see that there, within three months in an individual patient, we can see response to treatment, and then, when the treatment is withdrawn, you can also see that that barrier signal begins to increase again over time. Next to our next step

2059

05:45:36.550 --> 05:45:37.760

side, please

2060

05:45:39.430 --> 05:46:05.699

Dr. Chase S. Hall: in this study here. Um! Ah, that was performed. Looking at ipf patients, they compared um progressors to non-progressors. So the definition of progressors was a decline in forced by a capacity of ten percent or greater over a year or a Dlco decline of fifteen percent over a year or ah transitioned into the life, care of death. And what was unique about this was that

2061

05:46:05.710 --> 05:46:33.749

Dr. Chase S. Hall: Ct. Imaging areas of fibrosis? Obviously, if there's more fibrosis that can predict that progression. But what was interesting here was that in areas where there was not progression or ah fibrosis on Ct. Imaging. But yet there was a low Rvc. To barrier, meaning that the Xenon was not getting to the Rvcs, or was increased in the barrier. These were the patients that demonstrated progression. So you could predict who was going to have decline at one year's time

based on this imaging signal. Next slide

2062

05:46:36.440 --> 05:46:39.240

Dr. Chase S. Hall: i'll pass off to Dr. Gleason.

2063

05:46:47.240 --> 05:46:53.689

Dr. Chase S. Hall: You may be inadvertently in the attendee room, so he looks to be trapped in the attendees room.

2064

05:46:53.700 --> 05:47:16.629

Dr. Chase S. Hall: What would you like to finish it off? Yeah, I can go ahead and talk about these slides here. So um one of the uh newest problems, obviously that um pulmonologists, and everyone has really been seeing in the clinical world. Here is this long Covid. So patients who are having uh persistent symptoms after a a diagnosis of Covid Um, and finding out what is causing those symptoms, has been quite challenging.

2065

05:47:16.640 --> 05:47:21.290

Dr. Chase S. Hall: Um! So we've often obtained Pfts echo.

2066

05:47:21.300 --> 05:47:47.370

Dr. Chase S. Hall: I I think I can speak now so oh, perfect! So i'm sorry about that folks. Clinton here in Austin, in my attic in North Oxford. We know that we know that Covid is a big problem. Long Covid affects about two hundred thousand people in the Uk. And probably about eighteen million in the States. They have normal lung function, normal Ct: but a shorter breath. And what we've shown in a couple of hundred patients is that Zen, or despite

2067

05:47:47.380 --> 05:48:16.159

FERGUS gleason: having normal cts, can identify patients who have abnormal abnormalities within their lungs, functional abnormalities, and in a study with a couple of hundred patients. We've shown that that persists in around about half of the patients, one to two years after they have had their covid inflation, we can separate them out from those that are disnick. But don't have functional lung damage from those using Xenon,

2068

05:48:16.170 --> 05:48:24.989

FERGUS gleason: and we're repeating them at three, six and twelve months, and we've shown that a significant proportion about half of those patients Don't, get better. So

2069

05:48:25.000 --> 05:48:40.350

FERGUS gleeson: at the moment it looks like Xenon is the only way of actually identifying an abnormality of patients with Long Covid cannot be seen in any other, any other form of imaging or testing next slide, please.

2070

05:48:41.580 --> 05:48:54.150

FERGUS gleeson: And What this study shows is that we've identified where it's. Actually I'm. I'm. I'm sorry we we gave you an extra minute here, because the second launch is always few, but we do need to keep to

2071

05:48:54.250 --> 05:48:58.400

Drew Kasper: for ten minutes to be fair to all other presenters.

2072

05:48:59.930 --> 05:49:04.160

Drew Kasper: So if you have just a sentence and closing it. That would be helpful.

2073

05:49:04.170 --> 05:49:18.739

Dr. Bastiaan Driehuys: Okay. So, Bastian, I'll hand back to you back to you to close if I made him. Thank you, Fergus. No, thank you. All for the opportunity, and you can have a look at this data. But we understand we've gone over time. So happy to answer questions.

2074

05:49:21.040 --> 05:49:27.259

Drew Kasper: Okay, and thanks very much for your presentation. Are there any questions from the public or from Cms?

2075

05:49:28.530 --> 05:49:31.230

Start with Lily. Go ahead and on, mute, please, Lily.

2076

05:49:31.650 --> 05:49:45.969

Lily Yuan: This is clearly for Cms. May you discuss how the use of Zemo view, such as the visualized therapy response, or to identify gas sheet exchange abnormalities that are undetectable with Ct. Has effective management of patients.

2077

05:49:47.790 --> 05:49:50.790

Dr. Bastiaan Driehuys: Can I ask Dr. Gleason to comment on that?

2078

05:49:50.800 --> 05:50:02.100

FERGUS gleeson: Thanks, bass. So the answer is at the moment it hasn't, because we have to confirm, as we are confirming that it's a real finding, and then

2079

05:50:02.110 --> 05:50:15.520

FERGUS gleeson: the patients that there is no proven therapy for long, Covid Yet so what you need to do is establish that you can identify an abnormality and then trial different therapies to see if they are work.

2080

05:50:15.530 --> 05:50:23.689

FERGUS gleeson: So at the moment there isn't a proven therapy, so we can't confirm that Xenon will identify that it is working,

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05:50:32.350 --> 05:50:37.030

Drew Kasper: and Dr. Jim Rollins, please go ahead and unmute.

2082

05:50:37.380 --> 05:50:54.420

Jim Rollins: Yes, thanks. Um. If you have a patient population that has ads and a Copd cystic fibrosis as well as idiopathic pulmonary fibrosis Can this technology differentiate between all four of them. I know you showed a previous slide,

2083

05:50:54.430 --> 05:51:01.490

Jim Rollins: which seemed to indicate things was sort of different. But can you differentiate? Especially if I know it's impossible.

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05:51:01.500 --> 05:51:11.410

Jim Rollins: If it were to occur in a single patient, would you be able to tell which of those diseases are present?

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05:51:11.770 --> 05:51:14.630

Dr. Bastiaan Driehuys: I'm going to ask Dr. Hall to take that one.

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05:51:15.600 --> 05:51:44.800

Dr. Chase S. Hall: Oh, I was hoping you. And it's now to yeah, he's being bashful. But uh, actually they've kind of developed an algorithm that looks at these different signatures from from Xenon. So, looking at the ventilation, um barrier or membrane uptake and um Rvc. Uptake

as well as something, we didn't talk about looking at um the red blood cell oscillations, and can actually look at that imaging profile, and independent of knowing anything about the patient.

2087

05:51:44.810 --> 05:52:14.269

Dr. Chase S. Hall: Um, take a pretty good guess at what the disease is that's causing them So for um many of these diseases, it's it's pretty easy to separate out, so you know. Uh, say, asthma compared to Ipf. You can absolutely tell the difference based on Xenon imaging, because the imaging profiles are so different. Um Ipf patients will not have a lot of ventilation abnormalities, although they'll have this elevated barrier signal as well as reduced. Rvc. Uptake, whereas the asthma patients are going to

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05:52:14.280 --> 05:52:39.820

Dr. Chase S. Hall: have the ventilation. Defects. But otherwise we'll have, you know, preserved um gas exchange um metrics. Um! It could get a little bit more complicated in Co. Pd. And asthma. However, again you'll be able to see those Rbc. Uh. Defects are going to be much higher uh in the Covid patient. So yes, you can tell the difference. If you were in a in a vacuum, and didn't have any other clinical information the difference between these diseases.

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05:52:43.290 --> 05:52:44.429

Thank you.

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05:52:50.230 --> 05:52:54.209

Drew Kasper: We We have a question from Medina herscow. You go ahead and unmute.

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05:52:54.830 --> 05:53:06.080

Adina Hersko: Thank you. It sounds like you were mostly referring to in the the case of Long Covid before, when you're talking about change of management. Has there been any studies showing a change of management, and the other disease that you're talking about

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05:53:06.390 --> 05:53:08.329

Adina Hersko: for any change in outcome?

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05:53:10.610 --> 05:53:17.190

Dr. Bastiaan Driehuys: It's early days for those chase. Are you? Are you willing to take a stab at that one as well?

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05:53:17.200 --> 05:53:40.379

Dr. Chase S. Hall: Yeah, I mean, i'll definitely I can give an example where it was. Um absolutely change management, although it's just not been uh studied yet. So in the case of I showed you the study looking at IpF showing progression of IpF. Um. You know it's fairly standard that most patients wants to diagnose with IpF for being placed on an antibiotic treatment. What's not so clear is

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05:53:40.390 --> 05:54:05.930

Dr. Chase S. Hall: patients with interstitial lung abnormalities. So these early changes that are um increasingly being seen on Ct. Scan, where a subset of those patients are going to progress into a full-fledged and interstitial lung disease. That's going to be progressive in identifying who would benefit from early treatment, and that situation is challenging at this point in time, uh which requires frequent follow up in the clinic with tfts and

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05:54:06.020 --> 05:54:07.890

Dr. Chase S. Hall: Ct scans and um.

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05:54:07.900 --> 05:54:23.250

Dr. Chase S. Hall: So in that regards, if we had an imaging modality that can show. Who's more likely to progress? Um, Then that makes it much easier to decide who we're going to treat early before the disease is already progressed in the full, full-fledged dial. D

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05:54:24.050 --> 05:54:29.290

Dr. Bastiaan Driehuys: That question may I add for long of hope? It please do. Yes,

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05:54:29.300 --> 05:54:32.250

FERGUS gleeson: thank you just to say, although we haven't altered

2100

05:54:32.260 --> 05:54:58.720

FERGUS gleeson: um in terms of new treatments. When the patients are referred to us, and their lungs are entirely normal. On Xenon and on Ct. And on lung function. They then get um sent to um the physiotherapist for um treatment of what's called breathing passion disorders, so it doesn't lead to a drug, though it does lead to reassurance of patients and concentrating on helping them get getting back to the

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05:54:59.330 --> 05:55:00.450
FERGUS gleeson: Thank you.

2102
05:55:03.190 --> 05:55:06.190
Dr. Bastiaan Driehuys: Thank you and commute. Sorry. Go ahead.

2103
05:55:06.200 --> 05:55:08.440
Dr. Bastiaan Driehuys: No, go ahead. I'm sorry, please.

2104
05:55:09.290 --> 05:55:25.460
Adina Hersko: Um, I had just one more question. Um! Would this be used when When exactly would this be use? Would it be um when a follow up for a patient that has a known disease. But no currents have done, or to diagnose something

2105
05:55:25.560 --> 05:55:27.150
Adina Hersko: for the first time.

2106
05:55:33.970 --> 05:55:37.259
Dr. Bastiaan Driehuys: Right, Fergus, would you. Would you take that one?

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05:55:37.880 --> 05:55:53.149
FERGUS gleeson: Well, in in Long Covid? We we we do it. When the patients have got a normal Ct: normal lung function, We're doing it as part of the study. But that's when we're doing it in in Long Covid. In that patient,

2108
05:55:53.190 --> 05:55:58.950
FERGUS gleeson: you know clinical practice. But now we've converted into a trial practice to confirm our findings,

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05:55:59.220 --> 05:56:01.600
Dr. Bastiaan Driehuys: and and maybe Dr. Hall can.

2110
05:56:01.610 --> 05:56:30.650
Dr. Chase S. Hall: I would like to take a stab at this as well. So this is pretty versatile, I mean, when we're going to use it, It's going to be on the situation. So um a lot of diseases we're not going to be using this necessarily to make the diagnosis right? A lot of diseases can be made. Um diagnoses can be made based on the clinical

history, and maybe spirometry um, and Ct. Scan is is definitely not going anywhere. Um. So a lot of diagnoses are going to made in that regards, however,

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05:56:30.660 --> 05:57:00.540

Dr. Chase S. Hall: um treatment decisions, as I mentioned with ilas or interstitial lyme disease, for that matter. Um is Ah, it's an extremely evolving field, whether to use immunosuppressants or antibiotics patients need escalation of therapy. Um, seeing areas that are at risk would be very helpful in making that decision. And as of right now, we have no way to know for our patients to know if they're responding to treatment. So you start a preach on the antibiotic. All you can tell them is that yes, you're going to have symptoms of side effects. Your lung function is still going to decline, but

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05:57:00.550 --> 05:57:09.239

Dr. Chase S. Hall: the study suggests that you're declining slower than you would if you're not on this treatment. Here we have a way to actual visualize response to therapy.

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05:57:09.250 --> 05:57:38.249

Dr. Chase S. Hall: The other thing is, um. There are other situations, interstitial lung disease where this may be helpful in diagnosing, so we're currently undergoing a study. Um in school or derma, so patients are younger. Um, they're getting frequent ct scans um to screen for interstitial one disease at an early stage. Um, And we're doing a study using this to actually diagnose um interstitial one disease at an early stage without ionizing mediation, so that they can get repeated studies over time

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05:57:38.260 --> 05:57:44.850

Dr. Chase S. Hall: without having concerns about long-term issues from the ct scans, since it's beginning at such an early age.

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05:57:48.820 --> 05:57:51.070

Drew Kasper: Now. Um I see. Uh,

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05:57:51.080 --> 05:58:02.890

Drew Kasper: Dr. Ron and the Adena Hesco. Both have had hands up there. If either of you have something follow on to um to to this. But let's do that first before any new questions.

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05:58:02.900 --> 05:58:04.590

Yes, this is Jim. Um.

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05:58:04.600 --> 05:58:11.200

Jim Rollins: Would this test ever be used as a screening test in patients who had had previous lung transplants.

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05:58:14.620 --> 05:58:33.330

Dr. Bastiaan Driehuys: That's an excellent question. We we have a study ongoing at following patients with lung transplants, and that's in its early stages, but we're able to see abnormalities quite early on, really much before spirometric decreases

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05:58:33.370 --> 05:58:46.759

Dr. Bastiaan Driehuys: currently used. So we're in the process of looking at outcomes on those patients. But yes, certainly we are able to see abnormalities Actually, in all three of these compartments in patients who have undergone lyme transplant.

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05:58:50.870 --> 05:58:53.039

Jim Rollins: Thank you. Thank you.

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05:58:56.380 --> 05:58:59.369

Drew Kasper: Are there any other questions from the public or them?

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05:59:03.580 --> 05:59:13.599

Drew Kasper: And taking one last look at our antenna mailbox? There are no new questions. There are no questions in the Q. And A. And there are no new raised hands.

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05:59:14.150 --> 05:59:18.460

Drew Kasper: Okay. So with that, thank you again for your presentation.

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05:59:18.950 --> 05:59:21.080

Dr. Bastiaan Driehuys: Thank you for the opportunity. I'm.

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05:59:22.640 --> 05:59:43.460

FERGUS gleeson: And as a reminder for cms of consideration in the Ips proposed rule, public comments must be submitted to Pms. In writing via comments via email Excuse me to New Tech at Cms. Dot hs I go at N. E. W. T. V. C. H. C. Ms. Dot H. S. Gov.

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05:59:43.470 --> 05:59:50.329

Drew Kasper: With the subject line Town Hall comment, and then we'd appreciate it If you'd insert the technology name that it pertains to.

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05:59:50.340 --> 06:00:03.970

Drew Kasper: All comments must be received by five Pm Eastern standards time on Thursday, December twenty second, two thousand and twenty two. So even if you raised a verbal comment during the Channel today, you must send the written comment to ensure a consideration in the post rule.

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06:00:04.070 --> 06:00:16.930

Drew Kasper: We'd also appreciate any feedback on the Town Hall, whether it's about what you think worked well or what didn't work well or how we might improve the process. We welcome any input that you have about the Town Hall sincerely.

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06:00:16.940 --> 06:00:26.859

Drew Kasper: So any feedback can be sent to us via email as well at that new tech and a Pms. Ah, ehs gov email box with the subject line Town Hall.

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06:00:28.390 --> 06:00:33.570

Drew Kasper: Thanks again to all the presenters all the panelists and all the attendees,

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06:00:34.390 --> 06:00:38.099

Drew Kasper: and concludes our day's, events, happy holidays to you all.

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06:00:38.500 --> 06:00:40.599

Allison Pompey: Thank you, Drew. Good job.