Medicare COVID-19 Data Snapshot Overview

Our Medicare COVID-19 Data Snapshot is about people with Medicare who are diagnosed with COVID-19. The data sources for the Snapshot are Medicare Fee-for-Service (FFS) claims data, Medicare Advantage (MA) encounter data, and Medicare enrollment information.

Medicare COVID-19 Cases and Hospitalizations

Medicare COVID-19 Case: A count of beneficiaries with a diagnosis of COVID-19 on a claim or encounter record for *any* healthcare setting (e.g., physician's office, inpatient hospital, laboratory).

We use the following International Classification of Diseases (ICD), Tenth Revision (ICD-10), diagnosis codes to identify COVID-19 cases on claims and encounters:
- B97.29 (other coronavirus as the cause of diseases classified elsewhere) - before April 1, 2020
- U07.1 (2019 Novel Coronavirus, COVID-19) – from April 1, 2020 onward.

We find COVID-19 cases using ICD-10 diagnosis codes on claims and encounters. The Centers for Disease Control and Prevention (CDC) has issued COVID-19 ICD-10 coding guidance. Diagnosis code accuracy depends on: (1) how clinicians document (e.g., omitting information or using synonyms or abbreviations to describe a patient's condition) and (2) medical coder experience and training. As a result, we consider diagnosis information from claims and encounters less reliable than clinical information collected other ways (e.g., chart reviews). Since we don't need this type of clinical information to run our programs, we only collect it in limited circumstances (e.g., for program integrity purposes).

Medicare COVID-19 Hospitalization: A count of beneficiaries with a diagnosis of COVID-19 on a claim or encounter record for an *inpatient hospital* setting. These beneficiaries are a subset of the Medicare COVID-19 Cases described above.

For additional details on data limitations, please see the disclaimer on the next page and view the methodology document available here.

Medicare Enrollee Facts

As of early 2020, over 62.3 million Americans are enrolled in Medicare: 60% in Medicare Fee-for-Service (FFS), also known as Original Medicare, and 40% in Medicare Advantage (MA) plans.

What You Should Know When Using Our Data (Disclaimer)

You should use caution when interpreting our data. We collect Medicare claims and encounter data for payment and other program purposes, but not for public health surveillance. There will always be a delay or "claims lag" between when a service occurs and when the claim or encounter for that service is in our database. The length of the lag depends on the service type and program. There may also be longer claims lag due to the pandemic, but we're not sure of the impact.

Historically, 90% of FFS claims across all claim types are submitted within 3 months, while 90% of MA encounters across all claim types are submitted within 12 months. We expect timely FFS claims submissions because providers submit claims directly to us for payment. A longer claims lag is expected for Medicare Advantage encounters because Medicare Advantage Organizations: (1) collect encounters before submitting them to us and (2) have more time to submit encounters because there are different programmatic uses for the data, like risk adjustment.

Percent of Medicare FFS Claims Received by Time after Date of Service

Claim Type	1 Month[†]	2 Months	3 Months		6 Months		9 Months		12 Months
Inpatient	43%	91%	96%		99%		99%		100%
SNF	2%	81%	94%		98%		99%		100%
Hospice	3%	81%	92%		98%		99%		100%
Home Health	22%	74%	90%		97%		99%		100%
Outpatient	37%	90%	95%		98%		99%		100%
Carrier	43%	87%	93%		98%		99%		100%
DME	57%	84%	90%		96%		98%		100%

Percent of Medicare Advantage Claims Received by Time after Date of Service

Claim Type	1 Month	2 Months	3 Months		6 Months		9 Months		12 Months
Inpatient	11%	52%	61%		80%		88%		92%
SNF	5%	46%	66%		81%		87%		92%
Home Health	11%	52%	65%		83%		89%		93%
Outpatient	17%	63%	73%		87%		92%		95%
Professional	21%	62%	73%		87%		93%		95%
DME	23%	61%	72%		86%		91%		94%

Month 1 is the service month (i.e., month for the claim through date); FFS claims analysis based on data for July 2016; MA encounter data shows the % of encounters reported to us by 30 day increments from the through date of the service for January 2018. The data in this table is meant to be descriptive, but shouldn't be used to adjust data presented in this update due to pandemic-related claims submission uncertainties.

COVID-19 Cases

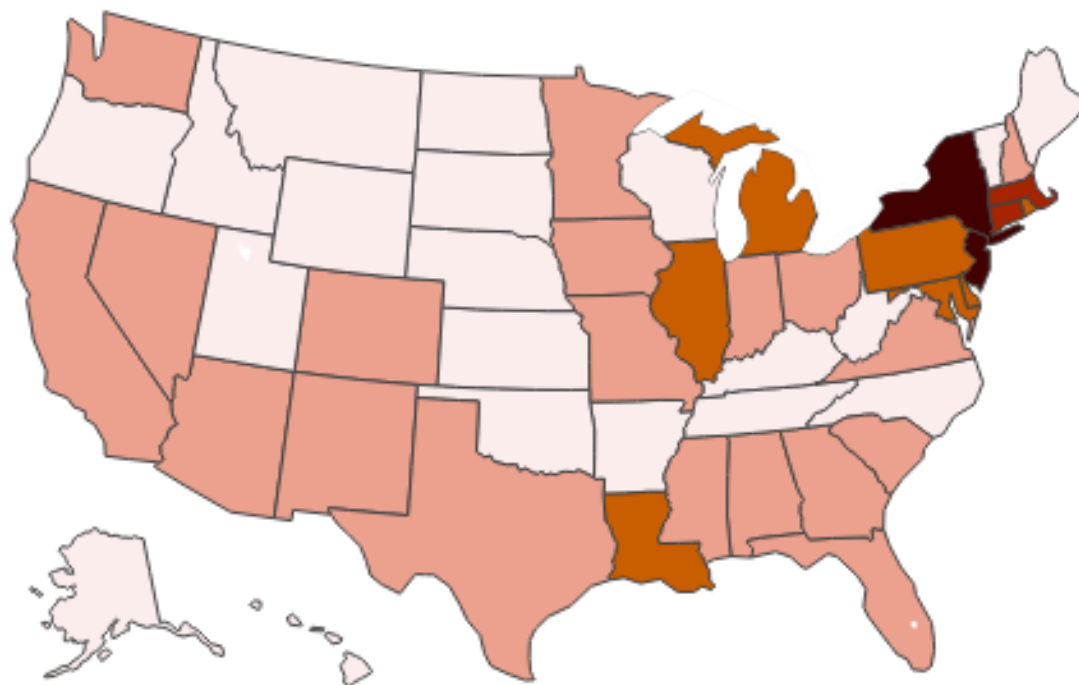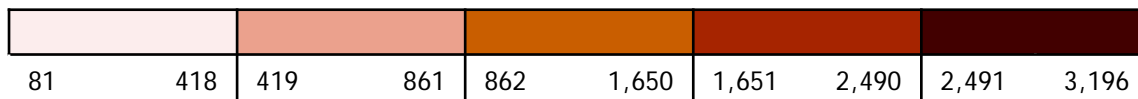**549,414** Total COVID-19 Cases   **863** COVID-19 Cases per 100K

COVID-19 Cases per 100K by Geography

Rural Areas: **402** per 100K

Urban Areas: **982** per 100K

Map Scale: per 100K

| 81 | 418 | 419 | 861 | 862 | 1,650 | 1,651 | 2,490 | 2,491 | 3,196 |

Disclaimer: All data presented in this update are preliminary and will continue to change as CMS processes additional claims and encounters for the reporting period. COVID-19 cases are identified using the following ICD-10 diagnosis codes: B97.29 (from 1/1-3/31/2020) and U07.1 (4/1/2020 and after). Medicare claims and encounter data are collected for payment and other program purposes, not public health surveillance, so caution must be used when interpreting the data. For additional details on data limitations, please see page 2 of this data update and view the methodology document available here.
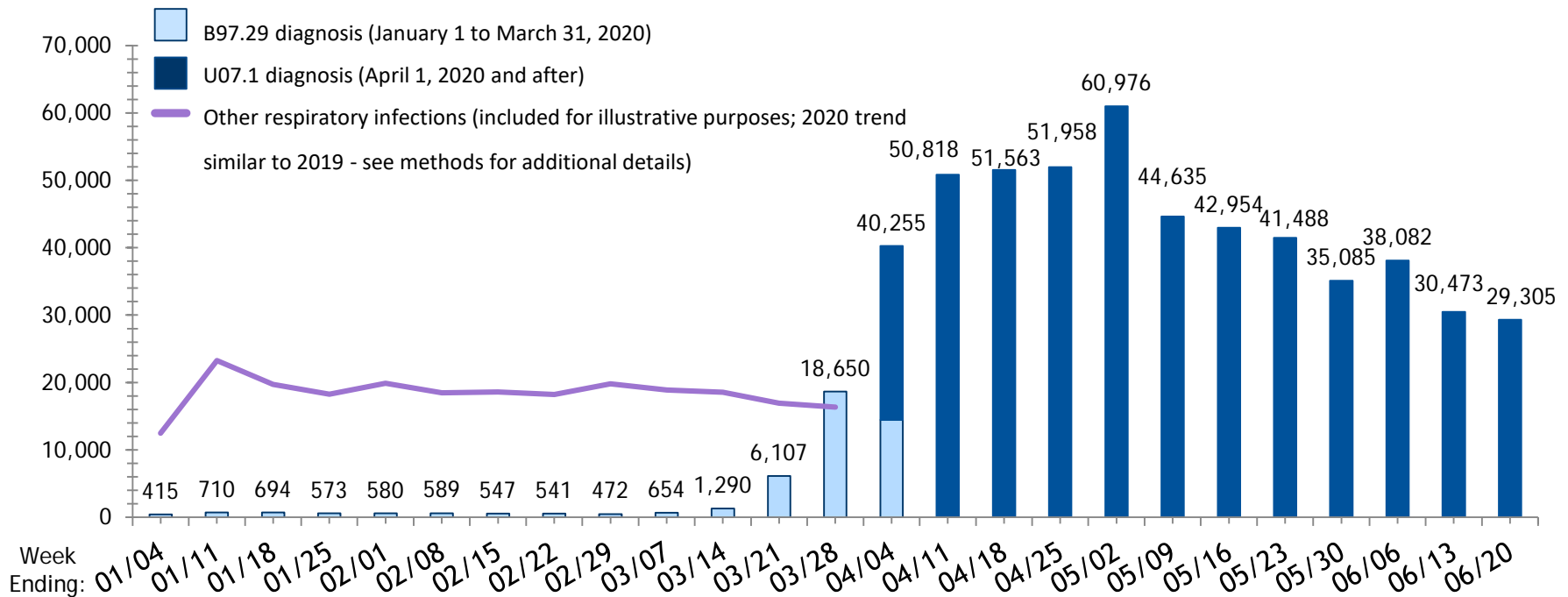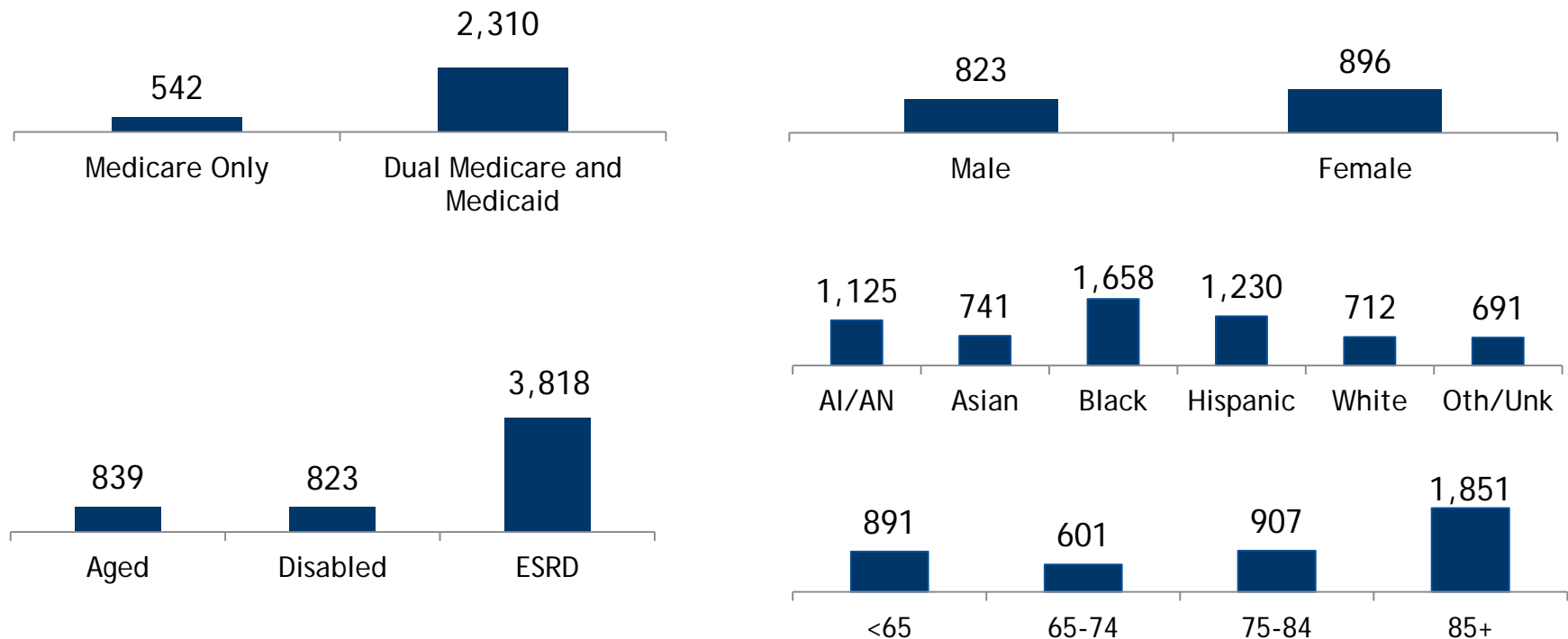
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COVID-19 Cases

549,414 Total COVID-19 Cases   **863** COVID-19 Cases per 100K

COVID-19 Case Trend

Legend:
- B97.29 diagnosis (January 1 to March 31, 2020)
- U07.1 diagnosis (April 1, 2020 and after)
- Other respiratory infections (included for illustrative purposes; 2020 trend similar to 2019 - see methods for additional details)

Week Ending data:
Week Ending	Value
01/04	415
01/11	710
01/18	694
01/25	573
02/01	580
02/08	589
02/15	547
02/22	541
02/29	472
03/07	654
03/14	1,290
03/21	6,107
03/28	18,650
04/04	40,255
04/11	50,818
04/18	51,563
04/25	51,958
05/02	60,976
05/09	44,635
05/16	42,954
05/23	41,488
05/30	35,085
06/06	38,082
06/13	30,473
06/20	29,305

Note: Other respiratory infection refers to J80 – Acute respiratory distress syndrome, J22 – Unspecified acute lower respiratory infection, J988 – Other specified respiratory disorders, and J1289 – Other viral pneumonia.

Note: The decreasing number of cases in the final two weeks displayed on the chart is due in part to claims lag; see page 2 of this data update for additional details on claims lag.

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COVID-19 Cases

549,414 Total COVID-19 Cases   **863** COVID-19 Cases per 100K

COVID-19 Cases per 100K by Beneficiary Characteristics

Characteristic	Cases per 100K
Medicare Only	542
Dual Medicare and Medicaid	2,310
Aged	839
Disabled	823
ESRD	3,818
Male	823
Female	896
AI/AN	1,125
Asian	741
Black	1,658
Hispanic	1,230
White	712
Oth/Unk	691
<65	891
65-74	601
75-84	907
85+	1,851

Note: AI/AN = American Indian/Alaskan Native

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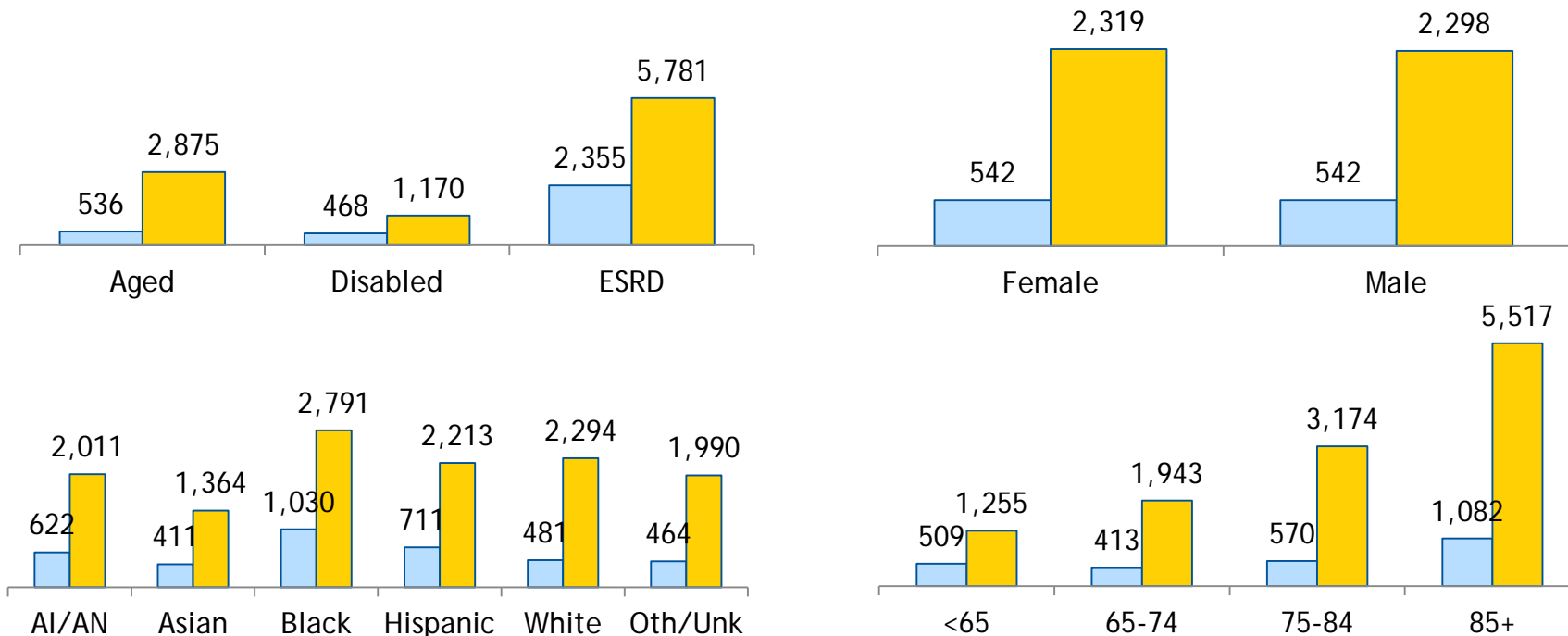
COVID-19 Cases

549,414 Total COVID-19 Cases   **863** COVID-19 Cases per 100K

COVID-19 Cases per 100K by Beneficiary Characteristics
-Medicare Only vs. Dual Medicare and Medicaid Eligibility-

☐ Medicare Only   ☐ Dual Medicare and Medicaid

Category	Medicare Only	Dual Medicare and Medicaid
Aged	536	2,875
Disabled	468	1,170
ESRD	2,355	5,781
Female	542	2,319
Male	542	2,298
AI/AN	622	2,011
Asian	411	1,364
Black	1,030	2,791
Hispanic	711	2,213
White	481	2,294
Oth/Unk	464	1,990
<65	509	1,255
65-74	413	1,943
75-84	570	3,174
85+	1,082	5,517

Note: AI/AN = American Indian/Alaskan Native

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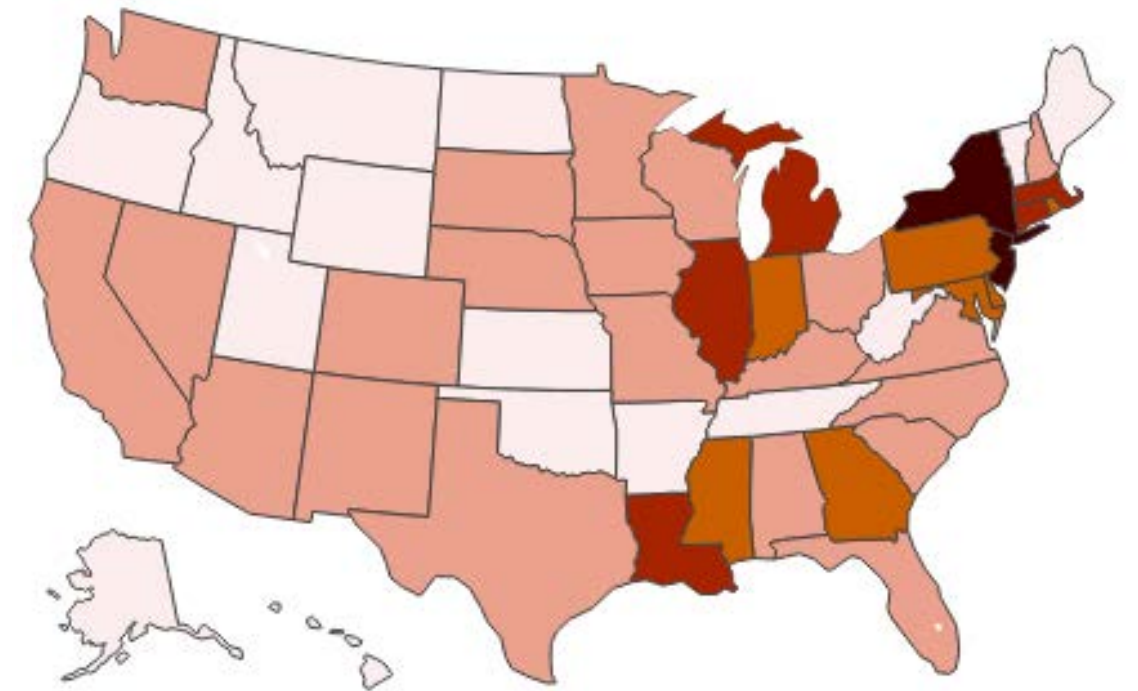CENTERS FOR MEDICARE & MEDICAID SERVICES

Preliminary Medicare COVID-19 Data Snapshot:
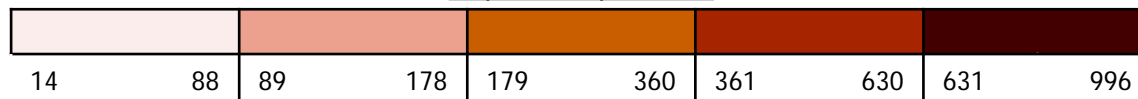*Medicare Claims and Encounter Data: Services January 1 to June 20, 2020, Received by July 17, 2020*

COVID-19 Hospitalizations

160,807 Total COVID-19 Hospitalizations   **254** COVID-19 Hospitalizations per 100K

COVID-19 Hospitalizations per 100K by Geography

Rural Areas: **99** per 100K

Urban Areas: **294** per 100K

Map Scale: per 100K

| 14 | 88 | 89 | 178 | 179 | 360 | 361 | 630 | 631 | 996 |

COVID-19 Hospitalizations

160,807 Total COVID-19 Hospitalizations   254 COVID-19 Hospitalizations per 100K

COVID-19 Hospitalizations Trend

Legend:
- B97.29 diagnosis (January 1 to March 31, 2020)
- U07.1 diagnosis (April 1, 2020 and after)

Week Ending values:
- 01/04: 286
- 01/11: 569
- 01/18: 568
- 01/25: 453
- 02/01: 450
- 02/08: 459
- 02/15: 427
- 02/22: 397
- 02/29: 323
- 03/07: 325
- 03/14: 468
- 03/21: 1,348
- 03/28: 5,067
- 04/04: 12,779
- 04/11: 18,709
- 04/18: 20,323
- 04/25: 18,509
- 05/02: 16,787
- 05/09: 14,362
- 05/16: 11,405
- 05/23: 9,812
- 05/30: 8,203
- 06/06: 7,186
- 06/13: 6,177
- 06/20: 5,415

Note: The decreasing number of hospitalizations in the final two weeks displayed on the chart is due in part to claims lag; see page 2 of this data update for additional details on claims lag.

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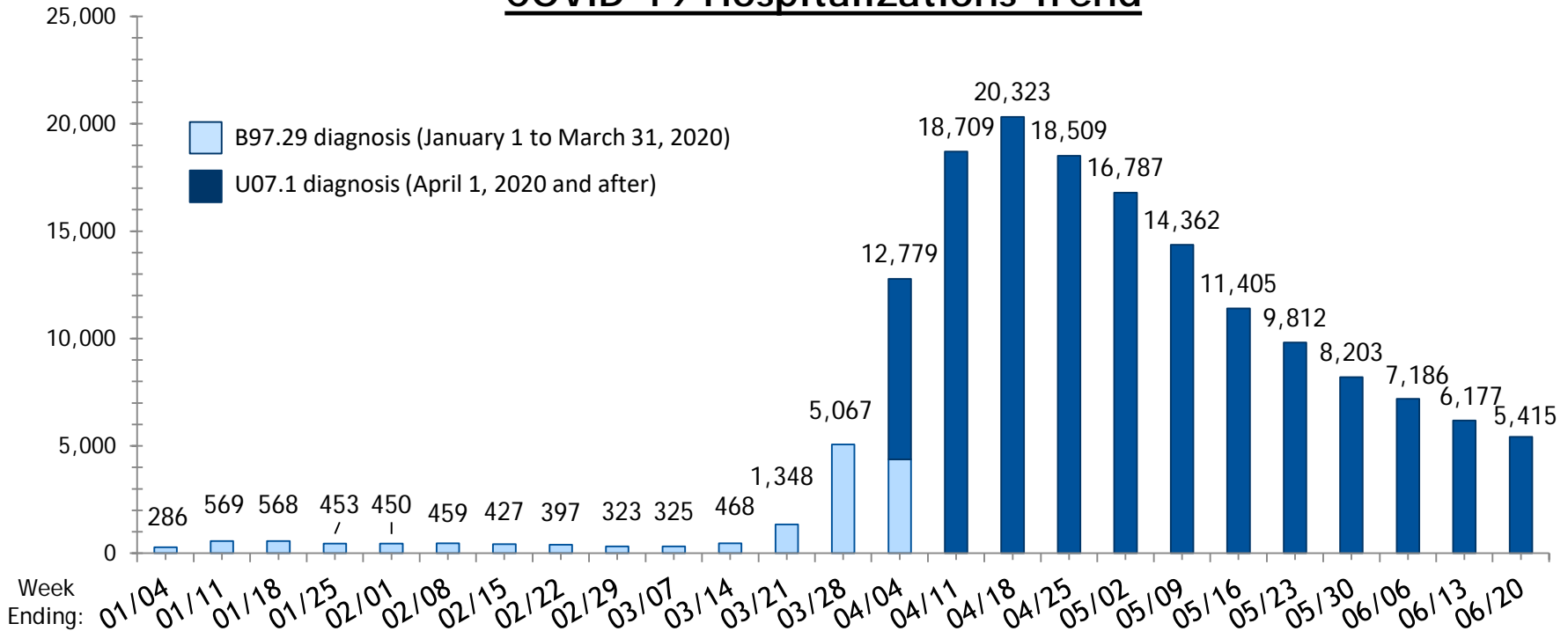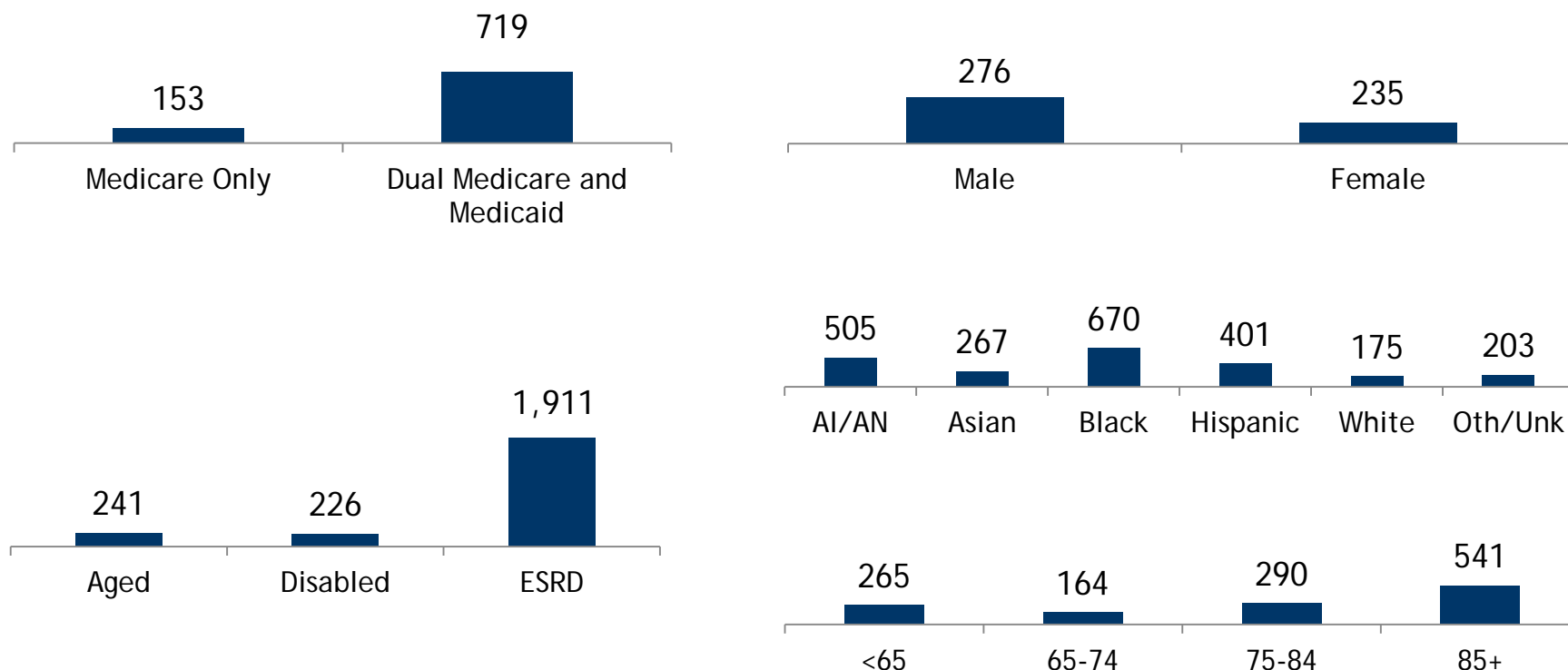
Preliminary Medicare COVID-19 Data Snapshot:
Medicare Claims and Encounter Data: Services January 1 to June 20, 2020, Received by July 17, 2020
COVID-19 Hospitalizations

160,807 Total COVID-19 Hospitalizations   **254** COVID-19 Hospitalizations per 100K

COVID-19 Hospitalizations per 100K by Beneficiary Characteristics

Category	Value
Medicare Only	153
Dual Medicare and Medicaid	719
Male	276
Female	235
Aged	241
Disabled	226
ESRD	1,911
AI/AN	505
Asian	267
Black	670
Hispanic	401
White	175
Oth/Unk	203
<65	265
65-74	164
75-84	290
85+	541

Note: AI/AN = American Indian/Alaskan Native

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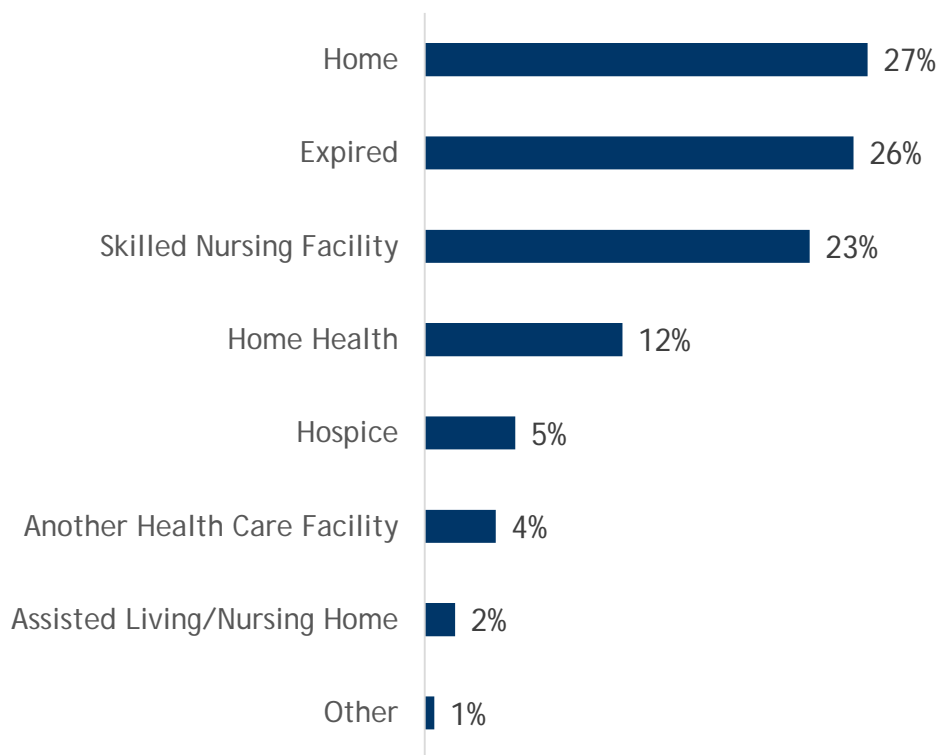
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Medicare Claims and Encounter Data: Services January 1 to June 20, 2020, Received by July 17, 2020

COVID-19 Hospitalizations

160,807 Total COVID-19 Hospitalizations   **254** COVID-19 Hospitalizations per 100K

COVID-19 Hospitalizations per 100K by Beneficiary Characteristics
-Medicare Only vs. Dual Medicare and Medicaid Eligibility-

Legend: □ Medicare Only □ Dual Medicare and Medicaid

Category	Medicare Only	Dual Medicare and Medicaid
Aged	150	878
Disabled	111	339
ESRD	1,132	2,970
Female	136	646
Male	173	827
AI/AN	304	870
Asian	134	541
Black	444	1,086
Hispanic	191	810
White	120	559
Oth/Unk	115	751
<65	133	391
65-74	99	646
75-84	178	1,075
85+	351	1,483

Note: AI/AN = American Indian/Alaskan Native

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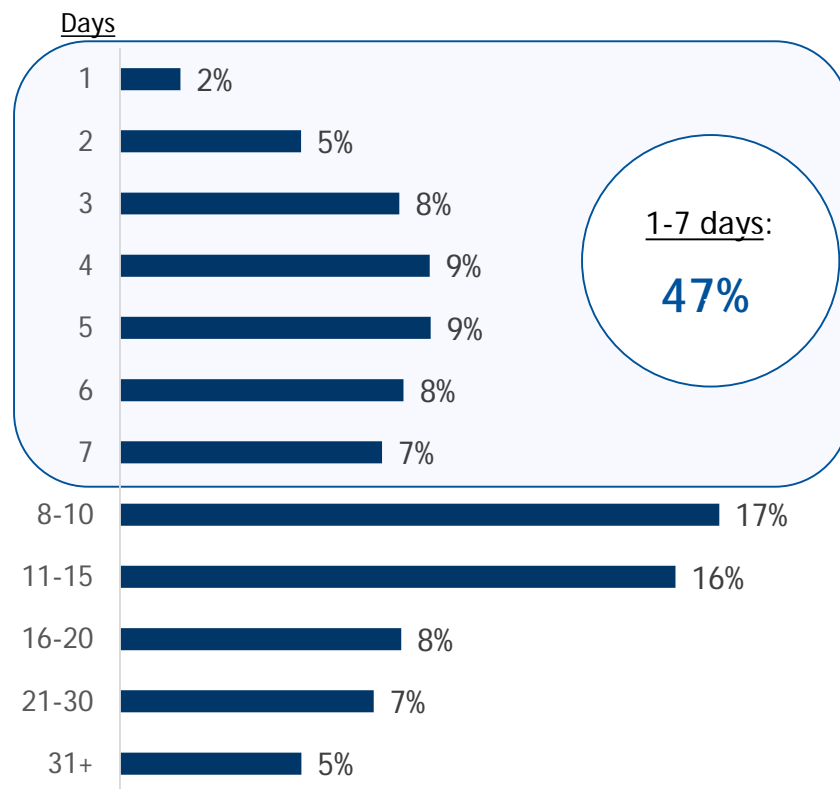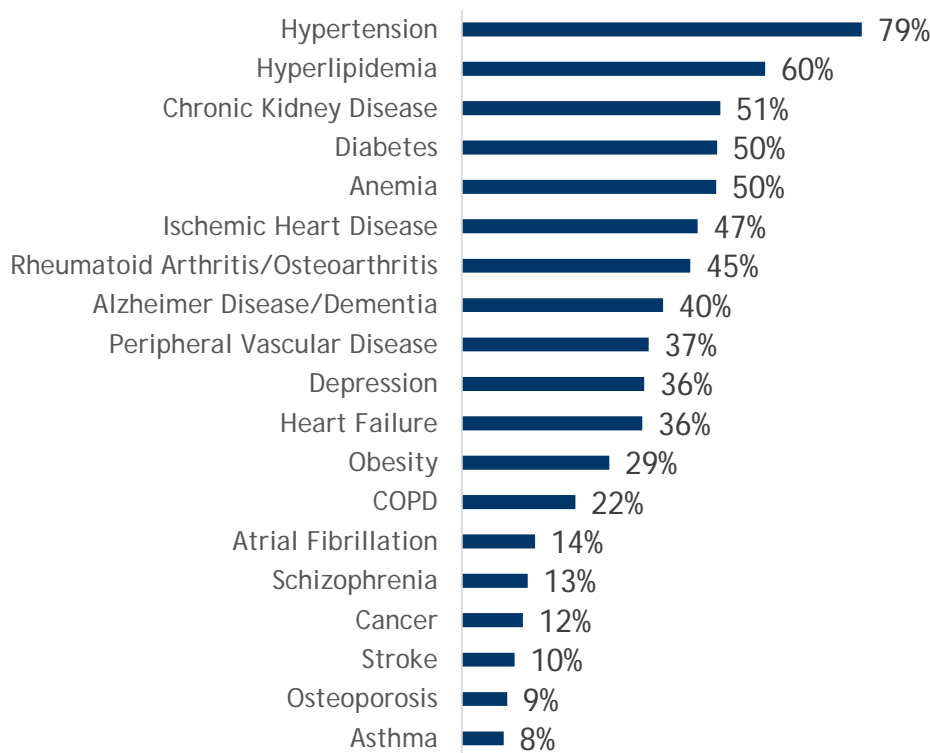**CMS** CENTERS FOR MEDICARE & MEDICAID SERVICES

COVID-19 Hospitalizations

160,807 Total COVID-19 Hospitalizations

254 COVID-19 Hospitalizations per 100K

Percent of COVID-19 Hospitalizations by Discharge Status

Discharge Status	Percent
Home	27%
Expired	26%
Skilled Nursing Facility	23%
Home Health	12%
Hospice	5%
Another Health Care Facility	4%
Assisted Living/Nursing Home	2%
Other	1%

Percent of COVID-19 Hospitalizations by Length of Stay

Days

Days	Percent
1	2%
2	5%
3	8%
4	9%
5	9%
6	8%
7	7%
8-10	17%
11-15	16%
16-20	8%
21-30	7%
31+	5%

1-7 days: **47%**

Note: Percentages may not add to 100% because of rounding.

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Preliminary Medicare COVID-19 Data Snapshot:
Medicare Claims and Encounter Data: Services January 1 to June 20, 2020, Received by July 17, 2020

COVID-19 Hospitalizations

112,369 Total <u>Fee-for-Service</u> COVID-19 Hospitalizations

Chronic Condition Prevalence Among Fee-for-Service COVID-19 Hospitalized Beneficiaries

Condition	Prevalence
Hypertension	79%
Hyperlipidemia	60%
Chronic Kidney Disease	51%
Diabetes	50%
Anemia	50%
Ischemic Heart Disease	47%
Rheumatoid Arthritis/Osteoarthritis	45%
Alzheimer Disease/Dementia	40%
Peripheral Vascular Disease	37%
Depression	36%
Heart Failure	36%
Obesity	29%
COPD	22%
Atrial Fibrillation	14%
Schizophrenia	13%
Cancer	12%
Stroke	10%
Osteoporosis	9%
Asthma	8%

Medicare Payments for Fee-for-Service COVID-19 Hospitalizations

$2.8 Billion

Total Medicare payment for fee-for-service COVID-19 hospitalizations

$25,255

$5,248 (5th percentile) - **$70,685** (95th percentile)

Average Medicare payment per fee-for-service COVID-19 hospitalization