Emergency Department Patient Experience of Care Discharged to Community Survey (EDPEC DTC Survey)

Recommended Guidelines

Version 1.0 February 2020



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Abbreviations

CAHPS Consumer Assessment of Healthcare Providers and Systems

CMS Centers for Medicare & Medicaid Services

DTC Discharged to Community
ED Emergency Department

EDPEC Emergency Department Patient Experience of Care

HCAHPS Hospital Consumer Assessment of Healthcare Providers and Systems

1. Introduction

As the leading organization spearheading national implementation of patient experience of care surveys, the Centers for Medicare & Medicaid Services (CMS) has made considerable investments in developing and testing the Emergency Department Patient Experience of Care (EDPEC) Survey. This work comprises a key contribution that CMS makes to one of the six priorities included in the Department of Health and Human Services' National Quality Strategy – ensuring patient and family engagement in care. The EDPEC survey was designed to measure the experiences of patients (18 and older) with emergency department care and was developed by following the principles used to develop Consumer Assessment of Healthcare Providers and Systems (CAHPS) surveys. The EDPEC Discharged to Community (DTC) Survey is intended for patients who are discharged home following their ED visit (as opposed to being admitted to the hospital or other care facility). Development and testing of the EDPEC DTC Survey began in 2012 and included multiple rounds of cognitive testing, usability testing, and experiments involving various mode protocols. Using information acquired during this development and testing, this document contains recommended guidelines for the survey including:

- Recommended survey administration procedures including recommended modes of survey administration;
- Recommended technical specifications including a recommended data file layout for vendors administering the survey;
- Web survey style guide;
- Survey instrument (English and Spanish), survey invitation materials, and screenshots of a web survey example.

By providing these materials and the survey instrument, CMS aims to encourage hospital-based EDs to consider use of the EDPEC survey to measure patient experience in their ED such that results may inform quality improvement efforts and ultimately improve patient experience of care in the ED. A hospital-based ED can administer the EDPEC DTC Survey for itself, or engage a survey vendor to do so. If a hospital-based ED administers the survey, then the terms "vendor" and "survey vendor" in these Guidelines refer to the hospital. For more information or if you have any questions, please contact: ED Survey@cms.hhs.gov.

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2. Recommended Survey Administration Procedures

This chapter describes the recommended survey administration procedures for the EDPEC DTC Survey. Topics include:

- Survey instrument
- Patient eligibility
- De-duplication
- Sampling and number of completes
- Modes of survey administration
- Timing of surveys
- Proxy responses
- Scoring and analysis

2.1 Survey Instrument

The current version of the EDPEC DTC Survey instrument (Version 5.0) is composed of 34 items (see Appendix). Survey content covers the following topics: Going to the emergency room, During this emergency room visit, People who took care of you, Leaving the emergency room, Overall experience, Your health care, and About you. It is strongly recommended that the survey be administered without any alteration to the content of survey items or the response options, or to the order of the survey items and response options as presented in the survey instrument. It is also strongly recommended that, if any supplemental items are added, they are added after survey item #34 (i.e., the final item), and that added supplemental items be kept to a minimum so to not diminish the response rate.

2.2 Patient Eligibility

In terms of eligibility for the EDPEC DTC Survey, all adult patients should be eligible for inclusion in the sampling universe unless they are in one of the following exclusion groups:

• Patients under the age of 18

- Patients who were not discharged home (i.e., patients with a discharge code other than 01¹)
- Patient who died in the ED
- Patients who request that they not be contacted (those who sign "no publicity" requests while hospitalized or otherwise directly request not to be contacted)
- Court/law enforcement patients (i.e., prisoners) classified under admission source code 8 or discharge codes 21 and 87²
- Patients with a foreign (Non-US or US Territory address) home address
- Patients who are excluded because of state regulations that place further restrictions on which patients may be contacted after discharge
- Patients who left without being seen and did not receive a billing code
- Patients who were admitted to the hospital from the ED
- Patients who were admitted to an observation unit from the ED

Identification of patients for exclusion should be based on hospital administrative data. It is important that hospitals and survey vendors understand how patients in the last three categories (patients who left without being seen and did not receive a billing code, patients who were admitted to the hospital from the ED, and patients who were admitted to an observation unit from the ED) can be accurately identified using hospital administrative data. In addition, it is important that hospitals and vendors obtain complete and timely discharge codes to ensure that patients who are ineligible based on the above criteria (e.g. discharges other than home, and court/law enforcement patients) are appropriately identified before sampling.

It is recommended that all patients be included in the EDPEC DTC Survey sample frame unless the hospital/survey vendor has evidence that a patient is ineligible or falls within an excluded category. If information is missing on any variable that affects patient eligibility for the EDPEC Survey when the sample frame is constructed, it is recommended that the patient be included in the sample frame. Patients who are determined to be ineligible for the EDPEC survey post-sampling can be removed at a later stage (e.g. during analysis).

² National Uniform Billing Committee Official UB-04, Data Specifications Manual, Copyright 2018, by the American Hospital Association. If a more recent version of this manual is available, CMS recommends use of the more recent version.

¹ National Uniform Billing Committee Official UB-04, Data Specifications Manual, Copyright 2018, by the American Hospital Association. If a more recent version of this manual is available, CMS recommends use of the more recent version.

2.3 De-duplication

ED DTC patients' visits should be de-duplicated within each calendar month, utilizing address information and the patient's medical record number (or other unique identifier). While patients are eligible to be included in the EDPEC sample in consecutive months, if a patient is discharged more than once within a given calendar month, only one discharge date should be included in the sample frame. The method used for de-duplicating depends on whether sampling is conducted continuously throughout the month, or is conducted only at the end of the month. Suggested approaches are described below.

- If continuous daily sampling is used, then include only the first discharge date identified in a single month.
- If weekly sampling is used, each weekly discharge list should be compared to the previous weekly discharge lists for the month. The first discharge encountered would be included in the sample frame and discharges encountered in subsequent weeks would be excluded from the sample frame. In the event a patient is listed with two discharges in the same week (provided the patient had not been included in the sample frame in an earlier week within the same month), then include only the last discharge date during the week in the sample frame. Each weekly discharge list should be compared to the previous discharge lists received in the month in order to exclude additional discharges for a particular patient.
- If end-of-the-month sampling is used, then include only the last discharge date of the month in the sample frame.

2.4 Sampling and Number of Completes

Based on reliability estimates for items from the EDPEC DTC Mode Experiment conducted in 2016 (Parast et al. 2019) and the EDPEC DTC Feasibility Test II conducted in 2018 (Parast et al. 2019), Table 2.1 indicates sample sizes needed to obtain adequate hospital-level reliability (0.70) for the composite and two global measures (see Scoring and Analysis section). The table displays sample sizes needed using both linear mean and top-box scoring. For example, to achieve adequate reliability (0.70) for the Overall ED Rating measure, a hospital would need 97 completed surveys if linear mean scoring were used to score survey items, or 104 completed surveys if top-box scoring were used.

Table 2.1. Sample size needed to ensure adequate (0.70) reliability, by EDPEC DTC Survey measure³

Survey Composite and Global Measures	Number of completed surveys needed ^a
Getting timely care	31/32
How well doctors and nurses communicate	85/113
Communication about medications ^b	363/447
Communication about follow-up ^b	256/336
Overall ED rating	97/104
Willingness to recommend the ED	44/52

^aThe number before the slash applies to linear mean scoring; the number after the slash applies to top-box scoring ^bCalculations for these composites were done using data from Feasibility Test II since item content and wording was different compared to the instrument used for the mode experiment

Based on these results, a minimum of 375 completed surveys per hospital is recommended if linear mean scoring is used; a minimum of 450 completed surveys per hospital is recommended if top-box scoring is used. The number of patients to be sampled will also depend on the selected mode protocol, the hospital's email coverage, and the hospital's response rate. In terms of sampling approach, it is recommended that a simple random sample of eligible patients be drawn within each hospital.

Ability of Hospitals to Achieve Sample Targets

In general, it is reasonable to assume that about 20% of ED visits will result in a hospital admission (and thus not be eligible for the EDPEC DTC Survey) and that 20% of ED visits will not be eligible for the EDPEC DTC Survey due to other patient eligibility requirements described above. Conservatively estimating a response rate of 20% and assuming sampling would occur throughout the year, a hospital would need to have at least 3,125 ED visits annually (using linear mean scoring; 3,750 if using top-box scoring) to be expected to achieve the recommended number of completes. Therefore, survey administration of the EDPEC DTC survey is not recommended for hospitals with fewer than 3,125 (if using linear mean scoring; or 3,750 if using top-box scoring) ED visits annually. Based on these estimates, it is expected that the majority of US hospitals (86-88%) would have a sufficient number of ED visits annually.

³ Reliability/sample size estimates from the Mode Experiment are preferred because they are based on a larger and more representative set of hospitals. However, items in two composite measures (Communication about medications and Communication about follow-up) were changed subsequent to the Mode Experiment, thus Feasibility Test II results are used for these calculations.

2.5 Modes of Survey Administration

There are three recommended modes of survey administration for the EDPEC DTC Survey: (1) Standard mixed mode (i.e., mail-telephone), (2) Web-telephone mode, and (3) Web-mail-telephone mode. The selection of these recommended modes was informed by results of several field tests, including the EDPEC DTC Mode Experiment conducted in 2016 (Parast et al. 2019), the EDPEC DTC Feasibility Test 1 conducted in 2016 (Mathews et al. 2019), and the EDPEC DTC Feasibility Test II conducted in 2018 (Parast et al. 2019). For all modes, the first attempt to reach the patient should be sent between 48 hours and 35 days after the ED discharge. The detailed protocol for each recommended mode is described below. Day 1 represents the day the first survey or invitation is sent, and the timing of subsequent contact attempts is counted from that day. Table 2.2 shows the schedule of contact attempts in tabular format.

Standard Mixed Mode (Mail-Telephone) Procedures. The first attempt to reach the patient is via mail. The mailing packet should include:

- Patient's name and address
- ED name
- Date of ED visit
- Individual's unique tracking number
- Cover letter
- The EDPEC DTC survey instrument

Patients who have not responded via mail by day 21 are to be contacted by telephone beginning on day 22. These cases should be called for a period of two weeks with up to five call attempts. Data collection should be closed out for a sampled patient by five weeks (35 calendar days) following the mailing of the survey. The five calls should be made over a minimum of eight days and should be varied by day of the week and time of day.

Web-Telephone Mode. The first attempt to reach the patient is via email with a web link for survey administration. Email reminders should be sent on days 2 and 4 until web completion occurs. Patients who have not responded via web are to be contacted by phone beginning on day 6 with up to five call attempts. Data collection should be closed out for a sampled patient by five weeks (35 calendar days) following the first email contact attempt. The five calls should be made over a minimum of eight days and should be varied by day of the week and time of day.

Table 2.2. Schedule of Contact Attempts

Mode Day	Mixed Mode	Web-Telephone Mode	Web-Mail-Telephone Mode
1 (First contact)	Mail out packet	Email web link	Email web link
2		First reminder email	First reminder email
4		Second reminder email	Second reminder email
6		Phone calls begin	Mail out packet
22	Phone calls begin		Phone calls begin
35	Phone calls end	Phone calls end	Phone calls end

Web-Mail-Telephone Procedures. The first attempt to reach the patient is via email with a web link for survey administration. Email reminders should be sent on days 2 and 4 until web completion occurs. Patients who have not responded via web are to be contacted by mail on day 6. The mailing packet is to include:

- Patient's name and address
- ED name
- Date of ED visit
- Individual's unique tracking number (see Section 3.1)
- Cover letter
- The EDPEC DTC survey instrument

Patients who have not responded via mail are then to be contacted by phone beginning on day 22 with up to five call attempts. Data collection should be closed out for a sampled patient by five weeks (35 calendar days) following the initial email contact attempt. The five calls should be made over a minimum of eight days and should be varied by day of the week and time of day.

Web Survey. If a web survey is used, it is recommended that the format of the web survey parallel the mailed survey to the extent possible (see Appendix for an example).

Incentives. Regardless of protocol, it is strongly recommended that patients who receive the EDPEC DTC Survey not be offered incentives of any kind.

2.6 Timing of Surveys

Regardless of survey mode, it is recommended that vendors initiate contact with sampled patients between 48 hours and 35 days after their ED date of discharge. Patients should not be surveyed during their ED visit, at discharge from the ED, or in the 48 hours following discharge. This will allow enough time to pass for the patient to return home and feel settled after his or her ED visit. Patients should <u>not</u> be given the survey while they are still in the ED.

Vendors are encouraged to work with their hospitals to facilitate contact as quickly as possible within this window.

Regardless of survey mode protocol, the data collection field period should close 35 days from the time of initial contact attempt.

2.7 Proxy Responses

It is recommended that proxy assistance be allowed on the EDPEC DTC Survey. The survey instrument collects information on use of proxy assistance and an indicator of whether the proxy was with the patient in the ED during the visit. It is recommended that proxy assistance information be used in case-mix adjustment of ED scores (see Scoring and Analysis Section).

2.8 Scoring and Analysis

Item Scoring. It is recommended that evaluative items be scored using either linear mean scoring or top-box scoring (see Technical Details section for more detail regarding adjusted score calculation). When using linear mean scoring (in the absence of adjustment for case-mix and/or mode), response options should be rescaled from 0 (worst) to best (100) with equal intervals between each option. For example, for question 7, "Before giving you medicine, did the doctors or nurses tell you what the medicine was for?" which has response options "Yes, definitely," "Yes, somewhat" and "No," the response option "Yes, definitely" should be coded as 100; a "Yes, somewhat" should be coded as 50; and "No" should be coded as 0 when using linear mean scoring.

When using top-box scoring, the most positive response option (or response options "9" and "10" for Overall Rating, Question 22) should be recoded to 100 and all other response options should be recoded as 0. For example, for question 7, "Before giving you medicine, did the doctors or nurses tell you what the medicine was for?," the response option "Yes, definitely" should be coded as 100, and "Yes, somewhat" and "No" should be coded as 0 when using top-box scoring. For survey items with Yes/No response options, these two scoring methods are identical ("Yes" is recoded as 100; "No" is recoded as 0).

Linear scoring is sometimes preferred to top-box scoring because it gives "partial credit" for intermediate response options, such as "Yes, somewhat." However, consumers often prefer top-box scoring due to ease of interpretation (e.g., 60% of patients said "Yes, definitely" doctors or nurses told them what the medicine was for).

If an evaluative item has an explicit N/A option, it is recommended that respondents who selected the N/A option should not be scored (i.e. set the score to have a missing value) in either linear mean or top-box scoring method.

If an evaluative item is a dependent item (i.e., if based on their responses to a prior question, patients may have been asked to skip the respective item, described further in Chapter 3), all patients who screen out of the question should not be scored (i.e. set the score to have a missing value) using either scoring method, regardless of whether or not the patients provided an answer to the respective item.

It is recommended that only completed surveys (defined in Chapter 3) be included when calculating item and measure scores (i.e., exclude cases determined to be ineligible, break-offs or cases who only partially completed the survey).

Measure Scoring. Table 2.3 lists the measures developed for the EDPEC DTC Survey along with the items (Q1 denotes question number 1) that comprise each measure.

Table 2.3. EDPEC DTC Survey Measures

Composite measure: Getting timely care

How long until someone talked to you about the reason for the ER visit (Q3)

Did you get care within 30 minutes of getting to the ER (Q4)

Composite measure: How well doctors and nurses communicate

How often nurses treated you with courtesy and respect (Q11)

How often nurses listened to you carefully (Q12)

How often nurses explained things in a way you could understand (Q13)

How often doctors treated you with courtesy and respect (Q14)

How often doctors listened to you carefully (Q15)

How often doctors explained things in a way you could understand (Q16)

Composite measure: Communication about medications

Doctors or nurses asked you about all the medicines you were taking (Q5)

Doctors or nurses told you what medicine was for (Q7)

Doctors or nurses explained possible side effects of medicines (Q8)

Doctors or nurses told you what medicine was for (at discharge) (Q18)

Composite measure: Communication about follow-up

Talk with you about follow-up care before leaving ER (Q19) Info on how to get follow up before leaving ER (Q20)

Info on symptoms to look out for at home (Q21)

Global measure: Overall ED rating (Q22)

Global measure: Willingness to recommend the ED (Q23)

Case-mix Adjustment. If survey response data are to be used to calculate and compare hospital-based ED scores, it is strongly recommended that scores be adjusted for differences in the case-mix of respondents. At a minimum, it is recommended that scores be adjusted for patients' age, education, self-rated health status, language spoken at home, reason for the ED visit, whether the patient was taken to the ED in an ambulance, whether the patient had a proxy answer for them, whether the patient used proxy assistance in some way other than answering for them, and response percentile.

Response percentile is generally defined (in the EDPEC DTC mode experiment and HCAHPS) by first calculating the number of days between an eligible patient's discharge date and the date that data collection activities ended (i.e., date of response for responders, or date that the fielding period closed for non-responders), and then calculating the percentile of this quantity amongst all eligible patients within each ED, within each mode. We additionally recommend that for modes involving email as the first mode of survey invitation (web-telephone mode and web-telephone-mail mode), response percentile be calculated within each ED, within each mode, and stratified by "web survey access." (i.e., stratifying by (a) those with a valid email and consent to email (where required), meaning all patients who could have possibly accessed the web survey given the observed information vs. (b) everyone else.) For standard mixed mode, where the first mode of survey invitation is by mail, response percentile should be calculated within each ED and within each mode only and should not be further stratified.

Mode Adjustments. Mode adjustments are currently not available for the three recommended mode protocols for this survey.

Technical Details. It is recommended that if item or measure scores are to be calculated, the following steps take place. It is recommended that responses to the survey items used in each EDPEC DTC Survey measure (Table 2.3) be scored linearly (or top-box), adjusted and rescaled to produce a 0-100 score.

First, items are scored as follows (which is parallel to the adjustment approach used within the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey⁴):

- If using **linear mean scoring**, for items with response options Never/Sometimes/Usually/Always, "Never" = 1; "Sometimes" = 2; "Usually" = 3; and "Always" = 4. For items with response options No/Yes, "No"=0; and "Yes"=1. For items with response options No/Yes, somewhat/Yes, definitely, "No"=0; "Yes, somewhat"=1; "Yes, definitely"=2. For the one item with response options Less than 5 minutes/5 to 15 minutes/More than 15 minutes, "Less than 5 minutes"=3; "5 to 15 minutes"=2; "More than 15 minutes" = 1. For the one item with response options 0-10, "0"=0; "1" = 1; "2"=2; "3"=3; "4"=4; "5"=5; "6"=6; "7"=7; "8"=8; "9"=9; "10"=10. For the one item with response options Definitely no/Probably no/Probably yes/Definitely yes, "Definitely no"=0; "Probably no"=1; "Probably yes"=2; "Definitely yes"=3.
- If using **top-box scoring**, for items with response options

 Never/Sometimes/Usually/Always, "Never" = 0; "Sometimes" = 0; "Usually" = 0; and

 "Always" = 1. For items with response options No/Ye, "No"=0; and "Yes"=1. For items

 with response options No/Yes, somewhat/Yes, definitely, "No"=0; "Yes, somewhat"=0;

 "Yes, definitely"=1. For the one item with response options Less than 5 minutes/5 to 15

 minutes/More than 15 minutes, "Less than 5 minutes"=1; "5 to 15 minutes"=0; "More

 than 15 minutes" = 0. For the one item with response options 0-10, "0"=0; "1" = 0; "2"=0;

 "3"=0; "4"=0; "5"=0; "6"=0; "7"=0; "8"=0; "9"=1; "10"=1. For the one item with

 response options Definitely no/Probably no/Probably yes/Definitely yes, "Definitely

 no"=0; "Probably no"=0; "Probably yes"=0; "Definitely yes"=1.
- Using either scoring approach, responses of "I did not need follow-up care" to Q19 and "I did not need information about how to get follow-up care" to Q20 should be set to missing and not scored.
- Using either scoring approach, patients who screen out of the question should not be scored (i.e. if the patient provided a response, set the score to have a missing value).

Second, these scores should be adjusted for the effects of case mix and mode (when available). To adjust for differences in case mix, it is recommended that scores be adjusted (using linear regression) for age, education, self-rated health status, language spoken at home, reason for the ED visit, whether the patient was taken to the ED in an ambulance, whether the patient had a proxy answer for them, and whether the patient used proxy assistance in some way other than answering for them.

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⁴ https://hcahpsonline.org

Third, each item score should be transformed into a 0-100 score using the following conversion: let M = the adjusted ED-level item mean score; let R = the lowest possible response to the item (e.g. 0); let K = the highest possible response to the item (e.g. 4). The transformed 0-100 score is then: 100*(M-R)/(K-R).

Lastly, if calculating a measure score (as opposed to an item score), one should take the average of the item scores among items within the measure (Table 2.3).

3. Recommended Technical Specifications

The following technical specifications are patterned after those in the HCAHPS survey's Quality Assurance Guidelines (HCAHPS 2020). This section contains information about preparing the EDPEC DTC Survey data files for analysis, including information on recommendations for coding and interpreting ambiguous or missing data elements in returned surveys.

3.1 Random, Unique, De-Identified Tracking Number

It is recommended that the hospital or survey vendor assign each patient in the sample a random, unique, de-identified patient identification number (Patient ID). This Patient ID is used to track and report whether the patient has returned the survey. Any de-identified combination of up to 16 letters and numbers may be used. The Patient ID should not include any combination of letters or numbers that can otherwise identify the patient. For example, the discharge date, the birth date (month, date and/or year) and hospital ID number (i.e., patient's hospital medical record number) should not be combined in any manner to generate the Patient ID.

3.2 File Specifications

It is recommended that survey vendors organize survey data into monthly files and specifically use a flat ASCII file format such that there is one record for each sampled patient, both eligible and ineligible. It is recommended that each record consist of three parts:

- 1. Header Section
- 2. Patient Administrative Data Section
- 3. Patient Survey Data Section

More detailed descriptions of each of these recommended sections is provided below. For further details on the recommended ASCII file record layouts for the EDPEC DTC Survey, see the Appendix.

Header Section

Each record of the monthly data file should begin with the Header Section. The Header Section contains identification and sampling information that is applicable to every sampled record in that month. The Header Section includes but is not limited to: hospital's name; CMS Certification Number (CCN), formerly known as the Medicare Provider Number; National Provider Identifier (NPI), which is an optional field; the discharge year and month; mode of survey administration; the number of eligible discharges; and the number of sampled discharges.

Header information should be populated for all sampled patients. A complete layout of the Header Section can be found in the Appendix.

Patient Administrative Data Section

The second part of the recommended submission file is the Patient Administrative Data Section. This record contains de-identified information on each patient, including but not limited to discharge date; Patient ID; patient discharge status; final survey status; survey completion mode; primary language; primary ICD-10 diagnostic code; survey language in which the survey was administered or attempted to be administered; lag time (number of days from discharge to survey completion or field period end); gender; age at visit; emergency severity index; race/ethnicity; payer for medical care received; and mode of arrival. Some of this information comes from the survey vendor's survey records, while other information is taken from the patient's hospital administrative record.

The Patient Administrative Data Section is recommended for each patient sampled for the EDPEC DTC Survey, whether or not the patient responded to the survey. A complete layout of the Patient Administrative Data Section can be found in the Appendix.

Patient Survey Data Section

The third part of the data record is the patient Survey Data Section, which contains the actual survey responses to the EDPEC DTC Survey from every patient who completed or partially completed a survey. If a patient Survey Data Section is being populated for a given patient, <u>all</u> response fields should have a valid value, which can include "M – Missing" or "88 – Not Applicable."

The Appendix also includes a description of the file layout for the Patient Survey Data Section, including the valid codes for each data element as well as a description of the codes.

3.3 Header Section

This section describes the recommended content and layout of the Header Section of the file. All fields in the Header Section should have a valid value entered. A complete layout of the Header Section can be found in the Appendix.

- The "Survey Mode" field should be coded with the survey mode for the hospital.
- The "Eligible Discharges" field should include the count of patients who are eligible for the EDPEC DTC Survey, even if the patient's information is received from the hospital with discharge dates that are beyond the initial contact period specified for the EDPEC DTC Survey.

- In calculating the "Eligible Discharges" field, the number of eligible discharges in the sample frame in the month should not include patients who are determined to be ineligible or excluded, regardless of whether they are selected for the survey sample. "Sample Size" can therefore be larger than the number of "Eligible Discharges." For example, if a patient was selected for the survey sample and later determined to be ineligible (i.e., "Final Survey Status" code of "3 Ineligible: Not in eligible population"), then the patient should be subtracted from the number of eligible discharges in the month. However, this does NOT apply to "Final Survey Status" codes of "2 Ineligible: Deceased," "4 Ineligible: Language barrier," or "5 Ineligible: Mental/Physical incapacity." See Example 1 below.
- If a patient is not selected for the survey sample and is later determined to be ineligible (for example, if the patient is later found to be ineligible due to an updated discharge status code), then the patient should be subtracted from the number of eligible discharges in the month. See Example 2 below.

Example	Example 1: Eligible Discharges Calculations			
100	=	Number of eligible patients in original sample frame (Eligible Discharges)		
100	=	Number of patients selected for sample (Sample Size)		
2	=	Number of patients with "Final Survey Status" code of "2 – Ineligible: Deceased"		
5	=	Number of patients with "Final Survey Status" code of "3 – Ineligible: Not in eligible population"		
2	=	Number of patients with "Final Survey Status" code of "4 – Ineligible: Language Barrier"		
4	=	Number of patients with "Final Survey Status" code of "5 – Ineligible: Mental/Physical incapacity"		
95	=	Number reported in the "Eligible Discharges" field		

In this example:

- The initial "Eligible Discharges" is 100 and "Sample Size" is 100 (i.e., census sampling)
- Five patients were subtracted from the "Eligible Discharges" because they had a "Final Survey Status" code of "3 Ineligible: Not in eligible population," resulting in 95 "Eligible Discharges"
- Patients with a Final Survey Status code of 2, 4 or 5 were not subtracted
- In the Header Record, "Sample Size" of 100 is larger than the number of "Eligible Discharges" of 95

Example :	Example 2: Eligible Discharges Calculations		
100	=	Number of eligible patients in original sample frame (Eligible Discharges)	
50	=	Number of patients selected for sample (Sample Size)	
2	=	Number of patients with "Final Survey Status" code of "2 – Ineligible: Deceased"	
5		Number of patients with "Final Survey Status" code of "3 – Ineligible: Not in eligible population"	
2	=	Number of patients with "Final Survey Status" code of "4 – Ineligible: Language Barrier"	
4		Number of patients with "Final Survey Status" code of "5 – Ineligible: Mental/Physical incapacity"	
10		Number of patients not selected for the survey sample but deemed ineligible after sampling due to an updated discharge status code	
85	=	Number reported in the "Eligible Discharges" field	

In this example:

- The initial "Eligible Discharges" is 100 and "Sample Size" is 50
- The final "Eligible Discharges" is 85
- Five patients were subtracted from the "Eligible Discharges" because they had a "Final Survey Status" code of "3 Ineligible: Not in eligible population"
- Patients with Final Survey Status code of 2, 4 and 5 were not subtracted
- Ten patients were subtracted from the "Eligible Discharges" because they had an updated ineligible discharge code, resulting in 85 "Eligible Discharges"

3.4 Patient Administrative Data Section

This section describes the recommended content and layout of the Patient Administrative Data Section of the file. A complete layout of this section can be found in the Appendix. All fields in the Patient Administrative Data Record should have a valid value. Use code "M–Missing/Don't Know" for all missing fields, with the following exception: the "language" field should be completed with the appropriate valid value indicating the survey language in which the survey was administered, even if a patient does not complete the survey.

- Patient administrative information should be populated for all patients selected for the survey sample, including patients found to be ineligible prior to survey administration.
 - o If a patient is found to be ineligible or excluded after the sample is drawn, the patient should be assigned a "Final Survey Status" code of "3 Ineligible: Not in eligible population."
 - o If the patient is selected for the EDPEC DTC Survey and based on the patient's discharge date the specified initial contact period has lapsed prior to

- any contact attempt, then the patient should be assigned a "Final Survey Status" code of "8 Non-Response: Non-response after maximum attempts."
- The "Survey Completion Mode" field should be submitted if "Final Survey Status" is "1 Completed survey" or "6 Non-response: Break off."
- Since all recommended mode protocols include a telephone component, the "Number Survey Attempts Telephone" field should always be populated.
- The "Lag Time" should be calculated for each patient in the sample and is defined as the number of days between the patient's discharge date from the hospital and the date that data collection activities ended for the patient.
 - o All surveys (i.e., "Final Survey Status" codes of 1, 2, 3, 4, 5, 6, 7, 8, 9, or M) should contain the actual lag time
 - o Surveys should NOT have a lag time coded as "8 Not Applicable"
 - The following are brief illustrations of how lag time would be determined for each Final Survey Status in EDPEC DTC:
 - Completed survey (code 1): Lag time is the number of days between the patient's discharge date from the hospital and the receipt of a completed web survey, mail survey, or the completion of a telephone survey
 - **Ineligible: Deceased** (code 2): Lag time is the number of days between the patient's discharge date from the hospital and the date it is determined that the patient is deceased
 - Ineligible: Not in eligible population (code 3): Lag time is the number of days between the patient's discharge date from the hospital and the date it is determined that the patient is not eligible for the EDPEC DTC Survey
 - Ineligible: Language barrier (code 4): Lag time is the number of days between the patient's discharge date from the hospital and the date it is determined that a language barrier prevents the patient from completing the EDPEC DTC Survey
 - Ineligible: Mental/physical incapacity (code 5): Lag time is the number of days between the patient's discharge date from the hospital and the date it is determined that a mental or physical incapacity prevents the patient from completing the EDPEC DTC Survey
 - Non-response: Break off (code 6): Lag time is the number of days between the patient's discharge date from the hospital and the date the patient "breaks off" or fails to complete the EDPEC DTC Survey after the survey has started
 - Non-response: Refusal (code 7): Lag time is the number of days between the patient's discharge date from the hospital and the date the

- patient (or someone on the patient's behalf) refuses to take the EDPEC DTC Survey
- Non-response: Non-response after maximum attempts (code 8): Lag time is the number of days between the patient's discharge date from the hospital and the date of the final attempt (Mail: non-return of the second mailing of survey; Telephone: fifth call attempt) to administer the EDPEC DTC Survey
- Non-response: Bad/no phone number (code 9): Lag time is the number of days between the patient's discharge date from the hospital and the date it is determined that the patient's actual telephone number is not viable

To illustrate the calculation of lag time, two examples are provided:

Patient A: Lag Time Calculation Mail	
Mode of Survey Administration	Mail-phone
Discharge Date	July 1
Date of Mail Attempt	August 5 (35 days after discharge)
Date of First Phone Attempt	August 26 (21 days after mail attempt)
	September 9 (35 days after mail attempt) Patient never returned the EDPEC DTC Survey or responded to phone attempts
EDPEC DTC Final Survey Status	Code as "8 – Non-response: non-response after maximum attempts" because the data collection protocol of 35 days has been reached and the patient has not responded
Lag Time	Calculated as 70 Days (number of days between the patient's discharge [July 1] from the hospital to the date data collection activities ended [September 9])

Patient B: Lag Time Calculation Telephone		
Mode of Survey Administration	Web-phone	
Discharge Date	July 1	
Date of First Attempt	July 3 (48 hours after discharge)	
Date Data Collection Activities Ended for this Patient	August 7 (35 days after first contact attempt) Patient never completed the web survey and did not respond to phone attempts	
EDPEC DTC Final Survey Status	Code as "8 – Non-response: non-response after maximum attempts" because the data collection protocol of 35 days had ended and the patient had not been reached although five phone attempts were made	

Lag Time	Calculated as 37 Days (number of days between the
	patient's discharge from the hospital [July 1] to the date
	data collection activities ended [August 7])

3.5 Patient Survey Data Section

This section describes the recommended content and layout of the Patient Survey Data Section of the file. A complete layout of this section can be found in the Appendix. All survey responses as provided by the patient for each survey item should be entered in this section.

- All survey questions should have a valid value. For "Final Survey Status" of "1 –
 Completed survey" or "6 Non-Response: Break-off," code missing answers as "M –
 Missing/Don't Know," unless the questions were appropriately skipped dependent
 questions which would be coded as "8 Not Applicable"
- Patients may select more than one response category in Question 30, "What is your race? Please choose one or more.", and Question 33, "How did that person help you? Mark one or more."
 - o Mail Survey
 - Enter **all** of the categories that the patient has selected. For example, for any race category not selected, enter "0." If no race categories are selected, enter "M Missing/Don't Know" for all race categories.
 - o Telephone Survey
 - Enter all of the categories that the patient has selected. For example, if the patient responds "Yes" to a race category, enter "1." If the patient responds "No" to a race category, enter "0." If the patient does not provide a response to any of the race categories or skips the question, enter "M Missing/Don't Know."
 - Web Survey
 - Record **all** of the categories that the patient has selected. For example, for any race category not selected, enter "0." If no race categories are selected, enter "M Missing/Don't Know" for all race categories.

3.6 Survey Disposition Codes

Maintaining up-to-date dispositions of survey codes is an important part of the EDPEC DTC Survey administration process. Using the random, unique, de-identified Patient ID, the survey vendor should assign each patient in the sample a survey status code, which is used to track and report whether the patient has completed a survey or requires further follow-up. Typically, survey status codes are either interim (which indicate the status of each sampled patient during

the data collection period), or final (which indicate the final outcome of each patient surveyed at the end of data collection, that is — "Final Survey Status"). Interim disposition codes are expected to be used only for internal tracking purposes. The data files that are used for any analyses should contain the EDPEC DTC final survey status codes. Interim survey status codes allow the survey vendor to calculate and report the number of completed questionnaires and the response rate at any time during the data collection period. After data collection is completed, the survey vendor assigns each sampled patient a final survey status code. The following table provides details on the recommended assignment of the "Final Survey Status" field. Note that while there is a disposition code related to bad/no telephone number, there is no disposition code for bad email address or bad mailing address because the web survey and mailed survey are not the final modes of invitation for any of the recommended mode protocols. Thus, bad email address or bad mailing address cannot be an explanation for non-response.

Final St	urvey Status / Disposition Codes
Code	Description
1	Completed survey Survey vendors assign a patient a "Final Survey Status" code of "1 – Completed survey" when the patient answers at least 50 percent of the questions applicable to all patients (questions 1, 2, 3, 4, 5, 6, 9, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23). Dependent items (described in Section 3.8), Your Health Care questions and About You questions do not count against the required 50 percent. There should be no evidence that the patient is ineligible.
2	Ineligible: Deceased Survey vendors assign a "Final Survey Status" code of "2 – Ineligible: Deceased" when the patient was alive at the time of discharge but deceased by time of survey administration.
3	Ineligible: Not in Eligible population Survey vendors assign a "Final Survey Status" code of "3 – Ineligible: Not in eligible population" when there is evidence that the patient is ineligible. All patients are eligible unless they are in one of the following ineligible groups: Patients under the age of 18 Patients who were not discharged home (i.e., patients with a discharge code other than "01") Patients who died in the ED Patients who request that they not be contacted (those who sign "no publicity" requests while hospitalized or otherwise directly request not to be contacted) Court/law enforcement patients (i.e., prisoners) with an "Admission Source" of "8 – Court/Law enforcement," "Discharge Status" of "21 – Discharged/Transferred to court/law enforcement," or "Discharge Status" of "87 – Discharged/Transferred to court/law enforcement with a planned acute care hospital inpatient readmission." Patients with a foreign (Non-US or US Territory address) home address (the U.S. territories – Virgin Islands, Puerto Rico, Guam, American Samoa, and Northern Mariana Islands are not considered foreign addresses and therefore, are not excluded) Patients who are excluded because of state regulations that place further restrictions on which patients may be contacted after discharge Patients who were admitted to the hospital or to an observation unit from the ED

4	Ineligible: Language barrier Survey vendors assign a "Final Survey Status" code of "4 – Ineligible: Language barrier" when there is evidence that the patient does not read or speak the language in which the survey is being administered.
5	Ineligible: Mental or physical incapacity Survey vendors assign a "Final Survey Status" code of "5 – Ineligible: Mental/physical incapacity" when the patient is unable to complete the survey because he/she is mentally or physically incapacitated. This includes patients who are visually/hearing impaired.
6	Non-response: Break-off Survey vendors assign a "Final Survey Status" code of "6 – Non-response: Break-off" when a patient provides a response to at least one EDPEC DTC question, but answered too few questions to meet the criteria for a completed survey
7	Non-response: Refusal Survey vendors assign a "Final Survey Status" code of "7 – Non-response: Refusal" when a patient returns a blank survey with a note stating they do not wish to participate, or when a patient responds to an email stating they do not wish to participate, or when a patient verbally refuses to begin the survey. Surveys completed by a proxy respondent are coded as "7 – Non-response: Refusal."
8	 Non-response: Non-response after maximum attempts Survey vendors assign a "Final Survey Status" code of "8 – Non-response: Non-response after maximum attempts" when one of the following occurs: There is no evidence to suggest that a patient's contact information is bad (e.g., bad telephone number) or If after the maximum number of attempts, the patient has not completed the survey by the end of the survey administration time period (i.e., 35 days from initial contact), or If the survey is returned by mail or completed by telephone with a lag time from discharge greater than 70 days Note: If a patient is selected for the EDPEC DTC Survey and based on the patient's discharge date the 35-day initial contact period has lapsed prior to any contact attempt, then the patient should be assigned a "Final Survey Status" code of "8 – Non-Response: Non-response after maximum
	attempts." In addition, a Discrepancy Report should be filed to account for patient information received beyond the 35-day initial contact protocol.
9	Non-response: Bad/no telephone number This disposition code applies to the web-phone, web-mail-phone, and mail-phone modes of administration. Survey vendors assign a "Final Survey Status" code of "9 – Non-response: Bad/no phone number" when there is evidence that a patient's telephone number is bad (e.g., no telephone number available or a disconnected telephone number, etc.).

3.7 Assigning Bad Phone Number Disposition Codes

The "Final Survey Status" codes of "8 – Non-response after maximum attempts," and "9 – Non-response: Bad/no phone number" should be assigned based on the viability (i.e., the ability to work successfully) of the telephone number for the patient. Survey vendors should track the viability of the mailing address, telephone number, and email address for each patient during survey administration. In general, the contact information is assumed to be viable unless there is sufficient evidence to suggest otherwise. If the evidence is insufficient, the survey vendor should continue attempting to contact the patient until the required number of attempts has been exhausted.

Attempts should be made to contact every eligible patient drawn into the sample, whether or not they have a complete mailing address, telephone number, and/or email address. Survey vendors have flexibility in not sending mail surveys to patients without mailing addresses. However, survey vendors should first make every reasonable attempt to obtain a patient's address including re-contacting the hospital client to inquire about an address update for patients with no mailing address. Survey vendors should use commercial software or other means to update addresses, telephone numbers, and/or email addresses provided by the hospital for sampled patients. If the hospital/survey vendor is unsuccessful in obtaining a viable mailing address, telephone number, and/or email address, it is recommended that vendors retain a record of their attempts to acquire the missing information.

To provide some examples, the following may be considered as reasonable evidence of non-viability of a patient's mailing address:

- The hospital does not provide an address in the patient discharge list, and the survey vendor is unable to obtain an address for the patient
- Mail is returned marked "Address Unknown"
- Mail is returned marked "Moved No Forwarding Address"

The following may be considered as reasonable evidence of non-viability of a patient's email address:

- Bounced back email invitation indicating the email was undeliverable
- An email address in an incorrect format e.g., with no @ symbol

The following may be considered as reasonable evidence of non-viability of a patient's telephone number:

- The hospital does not provide a telephone number in the patient discharge list, and the survey vendor is unable to obtain a telephone number for the patient
- The telephone interviewer dials the patient's telephone number and receives a message that the telephone number is non-working or out of order, and no updated number is available or obtained
- The telephone interviewer dials the patient's telephone number, speaks to a person, and is informed that he/she has the wrong telephone number and other attempts to obtain the correct telephone number are not successful

3.8 Decision Rules and Coding Guidelines

The EDPEC DTC Survey recommended decision rules and coding guidelines have been developed to address situations in which survey responses are ambiguous, missing or provided incorrectly, and to capture appropriate information for data submission. It is recommended that survey vendors use the following guidelines to ensure valid and consistent coding of these situations.

Mail Surveys

A common problem in mail surveys is ambiguity of responses on returned questionnaires. In order to ensure uniformity in data coding, survey vendors should strictly apply the following guidelines. Survey vendors that scan or key-enter mail surveys should employ the following decision rules for resolving common ambiguous situations.

- If a mark falls between two response options but is obviously closer to one than the other, then select the choice to which the mark is closest
- If a mark falls equidistant between two response options, then code the value of the item as "M Missing/Don't Know"
- If a value is missing, then code the response as "M Missing/Don't Know." Survey vendors should not impute a response; in other words, do not try to determine what the patient would have responded for the missing value based on answers to other questions.
- When more than one response option is marked, code the value as "M Missing/Don't Know"
 - Exception: Question 30, "What is your race? Please choose one or more." For Question 30, enter responses for ALL of the categories that the respondent has selected.
 - Exception: Question 33, "How did that person help you? Mark one or more."
 For Question 33, enter responses for ALL of the categories that the respondent has selected.

In instances where there are multiple marks but the patient's intent is clear, survey vendors should code the survey with the patient's clearly identified intended response.

Decision Rules for Screener and Dependent Questions: Mail Surveys

There are several items in the EDPEC DTC Survey that can and should be skipped by certain patients. These items form skip patterns. Six questions in the EDPEC DTC Survey serve as screener questions (Questions 6, 9, 17, and 19) that determine whether the associated dependent questions require an answer. The following decision rules are provided to assist in the coding of patient responses to skip pattern questions.

Decision rules for coding **screener questions** 6, 9, 17, 19:

- Enter the value provided by the patient. Do not impute a response based on the patient's answers to the dependent questions.
- If the screener question is left blank, then code it as "M Missing/Don't Know." Do not impute a response based on the patient's answers to the dependent questions.

Decision rules for coding **dependent questions** 7, 8, 10, 18, and 20:

- If the corresponding screener question is answered such that the dependent question(s) should have been answered according to the specific skip pattern and the dependent question(s) is left blank, then code the dependent question(s) as "M – Missing/Don't Know"
- If the corresponding screener question is answered such that the dependent question(s) should have been answered according to the specific skip pattern and the dependent question(s) is not left blank, then enter the value provided by the patient for the dependent questions(s)
- If the corresponding screener question is answered such that the dependent question(s) should not have been answered according to the specific skip pattern and the dependent question(s) is left blank, then code the dependent question(s) as "88 Not Applicable"
- If the corresponding screener question is answered such that the dependent question(s) should not have been answered according to the specific skip pattern and the dependent question(s) is not left blank, then enter the value provided by the patient for the dependent question(s). However, as described in Chapter 2, for the purpose of scoring items and measures, set scores for such instances to be missing.
- If the corresponding screener question is left blank and the dependent question(s) is left blank, then code both the corresponding screener question and dependent question(s) as "M Missing/Don't Know"
- If the corresponding screener question is left blank and the dependent questions(s) is not left blank, then code the corresponding screener question as "M Missing/Don't know" and enter the value provided by the patient for the dependent questions(s)

Telephone Surveys

It is important for telephone interviewers to be able to appropriately skip dependent questions while conducting the EDPEC DTC Survey. In order to uniformly code EDPEC DTC data, survey vendors should strictly apply the following guidelines.

Skip Patterns: Telephone Surveys

For the telephone survey mode, skip patterns should be programmed into the electronic telephone interviewing system.

- If screener questions 6, 9, 17, and 19 are answered such that patients should skip the dependent questions as specified by the skip pattern in the survey, then the corresponding dependent questions should be skipped.
- In these instances, appropriately skipped dependent questions should be coded as "88 Not Applicable." For example, if a respondent answers "No" to Question 19 of the

- EDPEC DTC Survey, the program should skip Question 20 and go to Question 21. Question 20 should then be coded as "88 Not Applicable." Coding may be done automatically by the telephone interviewing system or later during data preparation.
- In instances where an interviewer is unable to obtain a response to a screener question, the screener question and any question in the skip pattern should be coded as "M Missing/Don't know." For example, if a respondent does not provide an answer to Question 19 of the EDPEC DTC Survey and the interviewer selects "M Missing/Don't know" to Question 19, then the telephone interviewing system should be programmed to skip Question 20 and go to Question 21. Question 20 should then be coded as "M Missing/Don't know." Coding may be done automatically by the telephone interviewing system or later during data preparation.

Web Surveys

The web survey should be programmed to appropriately skip dependent questions while administering the EDPEC DTC Survey. In order to uniformly code EDPEC DTC data, survey vendors should strictly apply the following guidelines.

Skip Patterns: Web Surveys

For the web survey mode, skip patterns should be programmed into the web survey system.

- If screener questions 6, 9, 17, and 19 are answered such that patients should skip the dependent questions as specified by the skip pattern in the survey, then the corresponding dependent questions should not be presented to the patient.
 - o In these instances, appropriately skipped dependent questions should be coded as "88 Not Applicable." For example, if a respondent answers "No" to Question 19 of the EDPEC DTC Survey, the program should skip Question 20 and go to Question 21. Question 20 should then be coded as "88 Not Applicable." Coding may be done automatically by the web survey system or later during data preparation.
- If the patient does not answer screener questions 6, 9, 17, and 19, the corresponding dependent questions should not be presented to the patient. The web survey system should therefore code the screener question and any question in the skip pattern as "M Missing/Don't know." For example, if a patient does not provide an answer to Question 19 of the EDPEC DTC Survey, the web survey system should be programmed to skip Question 20 and go to Question 21. Questions 19 and 20 should then be coded as "M Missing/Don't know." Coding may be done automatically by the web survey system or later during data preparation.

3.9 Definition of a Completed Survey

It is recommended that survey vendors assign a patient's survey a "Final Survey Status" code of "1 – Completed survey" when at least 50 percent of the questions applicable to all patients (questions 1, 2, 3, 4, 5, 6, 9, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23) are answered. Dependent questions, Your Health Care questions and About You questions do not count against the required 50 percent. Any valid response should be counted as having answered the question, including explicit N/A's. The following steps describe how to determine if a survey is completed:

Step 1 - Sum the number of questions that have been answered by the patient that are applicable to all patients (i.e., questions 1, 2, 3, 4, 5, 6, 9, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23).

 \mathbf{R} = total number of questions answered

Step 2 – Divide the total number of questions answered by 18, which is the total number of questions applicable to all patients, and then multiply by 100.

Percentage Complete = $(R/18) \times 100$

Step 3 – If the Percentage Complete is at least 50 percent, then assign the survey a "Final Survey Status" code of "1 – Completed survey."

The following examples illustrate how to determine if a survey is "completed."

Determining if a Survey is Completed: Example A

A mail survey is returned to the survey vendor. Of the questions that are applicable to all patients, the patient answered the following: 1, 2, 3, 4, 5, 6, 9, 11, 12, 13, 14. The remaining items applicable to everyone were left blank or were coded as "M – Missing/Don't know."

Step 1:

R = total number of questions answered = 11

Step 2:

Percentage Complete = $(11/18) \times 100 = 61.1\%$

Step 3:

Percentage Complete = 61.1% which meets the criteria for a completed survey (≥ 50%). Survey vendor assigns a "Final Survey Status" code of "1 – Completed survey" to this survey.

Determining if a Survey is Completed: Example B

A web survey is completed using the web survey system. Of the questions that are applicable to all patients, the patient answered the following: 1, 2, 3, 4, 5, and 6. The remaining items applicable to everyone were left blank or were coded as "M – Missing/Don't know."

Step 1:

R = total number of questions answered = 6

Step 2:

Percentage Complete = $(6/18) \times 100 = 33.3\%$

Step 3:

Percentage Complete = 33.3% which does not meet the criteria for a completed survey (≥ 50%). Survey vendor assigns a "Final Survey Status" code of code of "6 – Non-response: Break off" to this survey.

4. Web Survey Style Guide

4.1 General Guidelines

Accessibility

It is recommended that the web survey comply with the requirements of Section 508 of the Rehabilitation Act,⁵ as they apply to the specifications of the desktop and mobile versions of the web survey instrument.

The web survey instrument (or "form") should be programmed ensuring that:

- Assistive technology devices will read the form in same order it is meant to be filled in.
- The relationship between the form field and the field label is clear.
- The form is navigable via the keyboard with or without assistive technology.

In addition, a defined tab order, using the "Tabindex" attribute, is acceptable but not required.

There are three acceptable methods that may be used when creating HTML forms:

- Using the title attribute to identify the input for the form field.
- Using Explicit Labels: Explicit labels include the "for" attribute in the "Label" element and the "Id" attribute in the "Input" element.
- Using Implicit Labels: Implicit Labels use tables for form layout, both the title and the form field should be in the same table cell.

The survey questionnaire structure should be used to define the navigation of form fields whenever possible.

For more information, see: HHS Research-Based Web Design & Usability Guidelines⁶, Section 9.1.

Responsive Design

The web survey instrument should respond to different browser sizes and work across platforms, automatically and optimally resizing for the screen on which it is viewed. This includes, but is

⁵ Available at https://www.section508.gov/manage/laws-and-policies

⁶ U.S. Department of Health and Human Services. *Research-Based Web Design & Usability Guidelines*. Retrieved from https://www.hhs.gov/sites/default/files/research-based-web-design-and-usability-guidelines-book.pdf on January 31, 2020.

not limited to, programming the web survey instrument to enable a mobile-optimized visual display ("mobile optimization"). Key components of a mobile-optimized web survey instrument include:

- Using large input fields (e.g., radio buttons, check boxes) to facilitate selection.
- Allowing the option to select an answer choice by clicking not only the input field (e.g., radio buttons, check boxes) themselves, but the entire corresponding answer choice label.
- Setting relative font sizes 20%-25% bigger compared to the desktop version to display the text in larger font size.
- Using smaller font size on headers compared to the desktop version.
- Placing the "Back" and "Next" buttons statically at the bottom of the web form, rather than floating them at the bottom of the screen to always be visible.

Security Requirements

The web survey data tables and data storage should be compliant with security standards specified by the hospital and vendor.

Print Survey Conformity

The print version of the survey has been designed with purposeful use of font styles. The web survey instrument should retain all underlining and font styles from the print version.

Survey Access

Respondents can access the web survey three ways, via:

- *Direct-link hyperlink* embedded in invitations sent via email, to be clicked to access the survey automatically.
- *Unique username and password combination* provided in an invitation letter or email, to be manually typed into the correspondingly-programmed login page.
 - It is recommended that the username and password be short and easy to enter (i.e., limit or omit use of alphanumeric combinations, mixed-case, special characters, etc.)
 - o It is recommended that the web survey URL be as short as possible and use recognizable words or logical acronyms (i.e., limit or omit use of complex alphanumeric combinations, special characters, etc.)
- *Unique PIN* provided in an invitation letter or email, to be manually typed into the correspondingly-programmed login page.
 - o It is recommended that the PIN be short and easy to enter (i.e. limit or omit use of mixed case, special characters, etc.)

 It is recommended that the web survey URL be as short as possible and use recognizable words or logical acronyms (i.e., limit or omit use of complex alphanumeric combinations, special characters, etc.)

Entry pages to web surveys represent potential respondents' first opportunity to consciously reconsider their participation in a web survey. For this reason, regardless of chosen access method, barriers to accessing the web survey should be kept low; the interface and mechanism for doing so should be kept as user-friendly as possible.

4.2 Survey Design

Basic Layout

Each page should include the following elements:

- Descriptive page headers
- Content applicable to the specific page type (i.e., login, welcome, question, and thank you)
 - Suggested layouts for each page type are provided under the page-specific guidelines in Section 4.3 of this document.
- Clearly-labeled navigation buttons,
- Informational footer
 - o Exact phrasing of the footer text is up to vendor discretion, but it is recommended that footer text include, at a minimum, an email address for the survey respondent to contact with questions or problems.

Fonts

Use of 12-point (or larger) Verdana (preferred) or Arial font for standard text and links is recommended. Exceptions to this rule include heading styles (H1, H2, H3, etc.), which may use serif fonts for design purposes. Additionally, fonts should be selected that will to allow the user to increase and decrease text size using the browser functionality. For more information, see HHS Research-Based Web Design & Usability Guidelines, Chapter 11.

As specified in Section 4.1, in the mobile-optimized version of the web survey instrument, relative font should be set 20%-25% bigger compared to the desktop version.

Color

For standard text it is recommended for maximum legibility to use black text on a plain, high-contrast, non-patterned background. For more information, see HHS Research-Based Web Design & Usability Guidelines, Section 11.1.

For links, it is recommended to use default text link colors such as blue for unvisited links, and purple for visited links for maximum ease of use. Ensure that all links sharing the same target (e.g., external websites) change colors as well. For more information, see HHS Research-Based Web Design & Usability Guidelines, Chapter 10.

For choosing color combinations for other features such as banners, buttons, backgrounds, or headers, it is recommended the planned combination be evaluated using a color contrast checker such as the one found at https://webaim.org/resources/contrastchecker/.

Graphics

In general, it is recommended to avoid graphics and other visual elements as these are not integral to the implementation of the survey HHS Research-Based Web Design & Usability Guidelines, Section 14.9. Where used, ensure graphics are reflective of and sensitive to respondent diversity per HHS Research-Based Web Design & Usability Guidelines, Section 14.8.

As specified in Section 4.1, the web survey instrument overall, including graphics, should be programmed to appropriately scale for different display sizes and device types to accommodate a mobile-optimized interface.

Navigation

Action Buttons

Action button on landing/login page and welcome page should be labeled with clear, user-friendly instructional text, such as "Login" and "Start" or "Start Survey". For button background and text color combinations, it is recommended to use black text on a plain, high-contrast, non-patterned background per HHS Research-Based Web Design & Usability Guidelines, Section 11.1, and to use a color contrast checker when choosing color combinations.

Navigation Buttons

Active survey windows should display standard "Back" and "Next" buttons at the bottom left and right of the web form, respectively. It is recommended that these buttons be labeled with their function (i.e., "Back" and "Next") per HHS Research-Based Web Design & Usability Guidelines, Section 11.1. The buttons may also take the shape of the corresponding directional arrow.

Back and next buttons should not appear on login/landing or welcome pages. Those pages should use Action Buttons, as described in the previous section.

Progress Indicator

Given the relatively short survey length and evidence of potential distraction from their use, it is recommended that the web survey not use a progress bar or other progress indicator.

Question Page Design

Question Display Functionality

It is recommended that the web survey instrument be programmed using a "paging" design, by which one survey question is displayed per page and respondents advance to subsequent questions through the use of navigation buttons. This is preferable over a "scrolling" design, by which multiple (or all) questions are displayed on a single screen, as it (1) reduces the potential for lost data when respondents exit the survey without submitting their answers and (2) makes the survey taking experience more user-friendly when built-in skip patterns lead to the addition or removal of individual questions.

Question Skipping

It is recommended that skipping of survey questions be discouraged but permitted. It is recommended that following the first skip attempt (i.e., leave a question unanswered) an error message be displayed that encourages selection of an answer choice. See the Question Page with Error Message sub-section for error message wording suggestions and other information.

If, after display of the error message, a respondent re-attempts to advance to the next question without answering the current, the web survey instrument should allow this to occur without further prompting.

Question and Answer Choice Formatting

Questions should be placed at the top of the screen below the header, followed by the answer choices. It is recommended that answer choices be programmed with control functionality that allows respondents to (1) select their chosen response by clicking on either the radio button itself or its label (as described as a minimum recommendation for mobile-optimized versions in Section 4.1 above), and (2) clear (i.e., deselect) an erroneously-chosen response by repeating the same action. It is also recommended that text wrapping of response options be minimized as much as possible.

The list of answer choices should be formatted to correspond with the question type:

Radio buttons should be used for single-choice responses, e.g. when respondents need to choose one, and only one, response from a list of mutually exclusive options. Additional information on the use of radio buttons can be found at:

- For mutually exclusive selections: HHS Research-Based Web Design & Usability Guidelines, Section 13.9
- For minimum number of selections: HHS Research-Based Web Design & Usability Guidelines, Section 13.23

Check boxes should be used for multiple-choice responses, e.g. when respondents may choose one or more items from a list of possible choices. Each check box should be able to be selected independently of all other check boxes. Additional information on the use of check boxes can be found at: HHS Research-Based Web Design & Usability Guidelines, Section 13.15.

Action Buttons

Question pages should be made navigable using standard "Back" and "Next" buttons displayed at the bottom left and right, respectively. It is recommended that the action buttons be labeled with their function (i.e., "Back" and "Next"). Alternatively, the buttons may also take the shape of the corresponding directional arrow. It is recommended that the "Next" button color match the chosen header (bar) color, whereas the "Back" button be gray.

4.3 Page-Specific Guidelines

Login Page

If respondents do not access the web survey via a personalized direct-link hyperlink that takes them directly to the survey's Welcome page (recommended for email invitations), the web survey URL included in the invitation letter or email should be directed to a login page that can take one of two formats:

- A login page with a username and password box (see Figure 1), or
- A login page with a single box to enter a PIN (see Figure 2)

These login credentials will have been provided to the respondent in the invitation letter or email. It is up to vendor discretion which method is used.

Figure 4.1. Username and Password Login Page

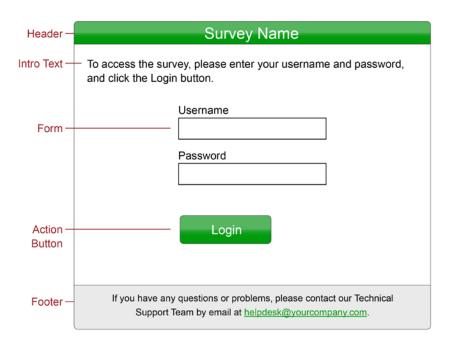
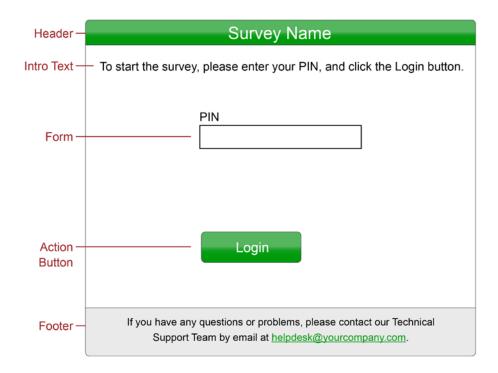


Figure 4.2. PIN Login Page



The following guidelines apply to both login question formats.

Page Fonts, Colors, Graphics, Headers

Fonts, colors, graphics, and headers should be selected based on the specifications outlined in this Chapter.

Intro Text

The login page should display a brief sentence directing respondents to enter their username and password or PIN—depending on vendor-selected login method—and then click the Login button

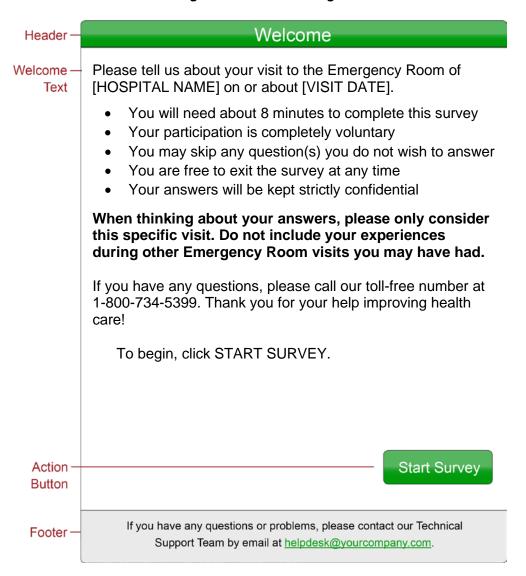
Action Button

To maximize usability and set the Login page apart from the Welcome page that immediately follows, the button text for the Login page should say "Login" (rather than "Start" or "Start Survey", which is the label recommended for the action button on the Welcome page). The Action button should be formatted based on the specifications outlined in Section 4.2. It is recommended that the button color coordinate with the color theme of the overall web survey instrument.

Welcome Page

Upon entering their login credentials or clicking the direct-link hyperlink, respondents are taken to the Welcome page. This page should provide the respondent with information about the survey and be individualized to each respondent (e.g., show their hospital name, visit date, etc.), along with any required disclosures. The Welcome page should organize text in a clear manner; a bullet-centric format that offsets key information in bolded font has been found in cognitive testing to be preferable over a uniform paragraph of text; see below.

Figure 4.3. Welcome Page



Page Fonts, Colors, Graphics, Headers

Fonts, colors, graphics, and headers should be selected based on the specifications outlined in this Chapter.

Welcome Text Content

Welcome text should read similar to and contain all the key elements included in the sample text provided in example below. Autofill the [TEXT IN BRACKETS] from the data file.

Example: WELCOME TEXT FOR COPY/PASTE

Please tell us about your visit to the Emergency Room of [HOSPITAL NAME] on or about [VISIT DATE].

- You will need about 8 minutes to complete this survey
- Your participation is completely voluntary
- You may skip any question(s) you do not wish to answer
- You are free to exit the survey at any time
- Your answers will be kept strictly confidential

When thinking about your answers, please only consider this specific visit. Do not include your experiences during other Emergency Room visits you may have had.

If you have any questions, please call our toll-free number at 1-800-734-5399. Thank you for your help improving health care!

To begin, click START SURVEY.

Action Button

To maximize usability, the buttons displayed on the welcome page should be labeled with "Start" or "Start Survey" (rather than "Login" or "Next", to distinguish this page from the preceding Login and following content pages that use these action button labels, respectively). It is recommended that the button color coordinate with the color theme of the overall web survey instrument.

Question Page with Error Message

Header

Headers should be displayed on each question page showing the name of the survey section in which the question is located, corresponding to the section titles shown in the print survey. Though Verdana or Arial font are preferred, serif fonts may be used for headings for design purposes. Selected header font should be consistent throughout the site.

Error Message

As described previously, it is recommended that an error message be displayed when respondents attempt to advance to the next question having left a question unanswered. Red font is recommended to maximize noticeability. Placement of the error message (i.e., above or below the question text) is up to vendor discretion. It is recommended that the error message text displayed when respondents attempt to advance to the next question having left a question unanswered read: "Please answer all questions. If you skipped this question on purpose, click NEXT to continue without answering."

Section Title Header Please answer all questions. If you skipped this question Error on purpose, click NEXT to continue without answering. Message Optional **Placements** Thinking about this visit, what was the main reason why you went to the emergency room? Please answer all questions. If you skipped this question on purpose, click NEXT to continue without answering. An accident or injury A new health problem An ongoing health condition or concern Action **Buttons** Next Back If you have any questions or problems, please contact our Technical Footer Support Team by email at helpdesk@yourcompany.com.

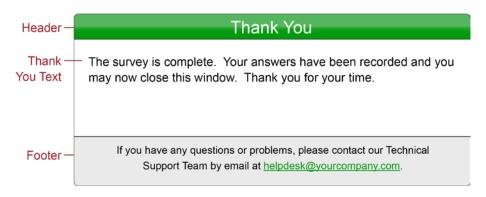
Figure 4.4. Error Message

Thank You Page

Thank You Text

Message styling and text can be customized, but is recommended to include (1) an indication that respondents have reached the end of the survey, and (2) an expression of appreciation for their participation.

Figure 4.5. Thank You Page



5. Appendices

5.1 Mailed survey invitation example

[SAMPLED PATIENT NAME] [ADDRESS] [CITY, STATE ZIP]

Dear Patient:

Our records show that you recently visited the emergency room at [HOSPITAL NAME] on or around [INSERT ER VISIT DATE]. We are asking you to complete a short survey about your experience.

The goal of this survey is to understand and improve emergency room care. It will take you about 8 minutes to complete. We hope that you will take the time to fill it out.

To ensure confidentiality, this survey is not administered by your hospital but by an independent third party, [VENDOR NAME]. If you have any questions about the survey, please call our toll-free number [PHONE NUMBER].

Thank you for helping us improve your health care. Your participation is greatly appreciated.

[SIGNATURE BLOCK OF HOSPITAL OR VENDOR]

5.2 Emailed survey invitation example

SUBJECT LINE: Please tell us about your recent emergency room visit at [HOSPITAL NAME]

Dear Patient:

Our records show that you recently visited the emergency room at [HOSPITAL NAME] on or around [VISIT DATE]. We are asking you to complete a short survey about your experience.

To take the survey, please click here. [EMBEDDED PERSONALIZED LINK TO SURVEY]

The goal of this survey is to understand and improve emergency room care. The survey will take you about 8 minutes to complete. We hope that you will take the time to fill it out.

To ensure confidentiality, this survey is not administered by your hospital but by an independent third party, [VENDOR NAME]. If you have any questions about the survey, please call our toll-free number 1-8XX-XXX-XXXX.

Thank you for helping us improve your health care. Your participation is greatly appreciated.

[SIGNATURE BLOCK OF HOSPITAL OR VENDOR]

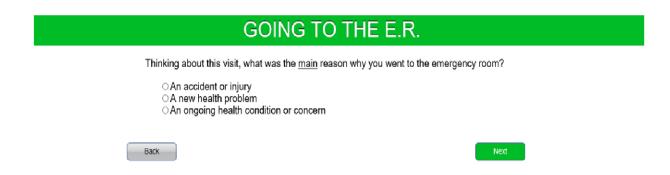
5.3 Screenshot samples of web survey (mobile)

GOING TO THE E.R.
Thinking about this visit, what was the main reason why you went to the emergency room?
An accident or injury
A new health problem
An ongoing health condition or concern
Back Next



When you first arrived at the emergency room, how long was it before someone talked to you about the reason why you were there?
Less than 5 minutes
5 to 15 minutes
More than 15 minutes
Back Next

5.4 Screenshot samples of web survey (desktop)



For this visit, did you go to the emergency room in an ambulance?	
○ Yes ○ No	
Back	Next

5.5 English Survey Version 5.0



About Your Emergency Room Visit

All information that will let someone identify you will be kept private. We will not share your personal information with anyone without your permission, except as required by law. You may choose to answer this survey or not. If you choose not to, this will not affect the health care you get.

Once you complete the survey, place it in the envelope that was provided, seal the envelope, and return the envelope to:

[NAME OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]
[RETURN ADDRESS OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]

If you want to know more about this study, please call [NAME OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL] at (XXX) XXX-XXXX. All calls to that number are free.



EMERGENCY ROOM PATIENT SURVEY

SURVEY INSTRUCTIONS

- Answer <u>all</u> the questions by checking the box to the left of your answer.
- To indicate an answer selected was in error, clearly draw a line through the box and select another box.
- You are sometimes told to skip over some questions in this survey. When this
 happens, you will see an arrow with a note that tells you what question to answer
 next, like this:

□ Yes

 \boxtimes No \rightarrow If No, Go to Question 1

You may notice a number on the survey. This number is used to let us know if you returned your survey so we don't have to send you reminders.

All of the questions in the survey ask about the emergency room visit named in the cover letter.

GOING TO THE EMERGENCY ROOM

1.	Thinking about this visit, what was the main reason why you went to the emergency room?
	☐ An accident or injury
	A new health problem
	☐ An ongoing health condition or concern
2.	For this visit, did you go to the emergency room in an ambulance?
	□Yes
	□No
3.	When you first arrived at the emergency room, how long was it before someone talked to you about the reason why you were there?
	☐ Less than 5 minutes
	☐ 5 to 15 minutes
	☐ More than 15 minutes

DURING THIS EMERGENCY ROOM VISIT

4. During this emergency room visit, did you get care within 30 minutes of getting to the emergency room?

☐ Yes

☐ No

5. During this emergency room visit, did the doctors or nurses ask about <u>all</u> of the medicines you were taking?

☐ Yes

☐ No

6. During this emergency room visit, were you given any medicine?

☐ Yes

 \square No \longrightarrow If No, Go to Question 9

□ Don't know → If Don't know, Go to Question 9



7. Before giving you medicine, did the doctors or nurses tell you what the medicine was for?	PEOPLE WHO TOOK CARE OF YOU
☐ Yes, definitely	Please answer the following questions about
☐ Yes, somewhat	the people who took care of you during this emergency room visit.
□No	11. During this emergency room visit, how often
8. Before giving you medicine, did the doctors or nurses describe possible side effects to you in a way you could understand?	did nurses treat you with <u>courtesy and</u> <u>respect</u> ?
☐ Yes, definitely	□ Never
☐ Yes, somewhat	Sometimes
<u>_</u>	□ Usually
□No	☐ Always
9. During this emergency room visit, did you have a blood test, x-ray, or any other test?	12. During this emergency room visit, how often did nurses <u>listen carefully to you</u> ?
☐Yes	□ Never
\square No \longrightarrow If No, Go to Question 11	☐ Sometimes
	☐ Usually
10. During this emergency room visit, did doctors or nurses give you as much information as	☐ Always
you wanted about the results of these tests?	13. During this emergency room visit, how
☐ Yes, definitely	often did nurses <u>explain things</u> in a way you could understand?
☐ Yes, somewhat	□ Never
□No	☐ Sometimes
	☐ Usually
	☐ Always
	·
	14. During this emergency room visit, how often did doctors treat you with <u>courtesy and respect</u> ?
	□ Never
	☐ Sometimes
	☐ Usually
	☐ Always



15.	During this emergency room visit, how often did doctors <u>listen carefully to you</u> ? ☐ Never	19.	Before you left the emergency room, did staff talk with you about follow-up care?
	☐ Sometimes		☐ Yes, definitely —
			☐ Yes, somewhat
	☐ Usually		□ No
	Always		☐ I did not need follow-up care → Go to Question 21
16.	During this emergency room visit, how often did doctors explain things in a way you could understand?	20.	Did emergency room staff give you information about how to get the
	□ Never		follow-up care you needed?
	☐ Sometimes		□Yes
	☐ Usually		□No
	□ Always		☐ I did not need information about how to get follow-up care
L	LEAVING THE EMERGENCY ROOM	21.	Before you left the emergency room, did
17.	Before you left the emergency room, did a doctor or nurse tell you that you should take any medicine at home?		staff give you information about what symptoms or health problems to look out for at home?
	•		☐ Yes, definitely
	□Yes		TV lead
	II No. No. No. to Overtion 10		☐ Yes, somewhat
	\square No \longrightarrow If No, Go to Question 19		☐ Yes, somewnat
18.	□ No → If No, Go to Question 19 Before you left the emergency room, did a doctor or nurse tell you what the medicine was for?		_ ,
18.	Before you left the emergency room, did a doctor or nurse tell you what the medicine		_ ,
18.	Before you left the emergency room, did a doctor or nurse tell you what the medicine was for?		_ ,
18.	Before you left the emergency room, did a doctor or nurse tell you what the medicine was for? Yes, definitely		_ ,



OVERALL EXPERIENCE

Please answer the following questions about your visit to the emergency room named in the cover letter. Do not include any other

cov	r visit to the emergency room named in the er letter. Do not include any other ergency room visits in your answers.	24.	have you visited <u>any</u> emergency room to get care for yourself? Please include the emergency room visit you have been answering questions about in this survey.
22.	Using any number from 0 to 10, where 0 is the worst care possible and 10 is the best care possible, what number would you use to rate your care during this emergency room visit?		☐ 1 time ☐ 2 times ☐ 3 times ☐ 4 times
	☐ 0 Worst care possible		☐ 5 to 9 times ☐ 10 or more times
	□1 □2 □3 □4	25.	Not counting the emergency room, is there a doctor's office, clinic, or other place you usually go if you need a check-up, want advice about a health problem, or get sick or hurt?
	□ 5 □ 6		☐ Yes ☐ No
	□ 7		
	□8		ABOUT YOU
	□ 8 □ 9 □ 10 Best care possible		ABOUT YOU The are only a few remaining items left. In general, how would you rate your overall health?
23.	□ 9		re are only a few remaining items left. In general, how would you rate your overall health? □ Excellent
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no		re are only a few remaining items left. In general, how would you rate your overall health?
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no ☐ Probably yes		re are only a few remaining items left. In general, how would you rate your overall health? Excellent Very good
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no	26.	re are only a few remaining items left. In general, how would you rate your overall health? Excellent Very good Good Fair
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no ☐ Probably yes	26.	In general, how would you rate your overall health? Excellent Very good Good Fair Poor In general, how would you rate your overall mental or emotional health? Excellent
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no ☐ Probably yes	26.	In general, how would you rate your overall health? Excellent Very good Good Fair Poor In general, how would you rate your overall mental or emotional health? Excellent Very good
23.	☐ 9 ☐ 10 Best care possible Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no ☐ Probably yes	26.	In general, how would you rate your overall health? Excellent Very good Good Fair Poor In general, how would you rate your overall mental or emotional health? Excellent

YOUR HEALTH CARE

24. In the <u>last 6 months</u>, how many times



28.	What is the highest grade or level of school that you have <u>completed</u> ?	32. Did someone help you complete this survey? ☐ Yes
	☐ 8th grade or less	☐ No → Thank you. Please return the
	☐ Some high school, but did not graduate	completed survey in the postage-paid envelope.
	☐ High school graduate or GED	postage-paid envelope.
	☐ Some college or 2-year degree	33. How did that person help you? Mark one or
	4-year college graduate	more.
	☐ More than 4-year college degree	☐ Read the questions to me
29.	Are you of Spanish, Hispanic or Latino	☐ Wrote down the answers I gave
	origin or descent?	☐ Answered the questions for me
	☐ No, not Spanish/Hispanic/Latino	☐ Translated the questions into my language
	☐ Yes, Puerto Rican	☐ Helped in some other way (please print):
	Yes, Mexican, Mexican American, Chicano	
	☐ Yes, Cuban	
	☐ Yes, other Spanish/Hispanic/Latino	34. Was the person who helped you with you at any time during this emergency room visit?
30.	What is your race? Please choose one or more.	☐ Yes ☐ No
	□White	
	☐ Black or African American	
	☐ Asian	
	☐ Native Hawaiian or other Pacific Islander	
	☐ American Indian or Alaska Native	
31.	What language do you mainly speak at home?	
	☐ English	
	☐ Spanish	THANK YOU
	☐ Chinese	Please return the completed survey in the
	Russian	postage-paid envelope.
	☐ Vietnamese	[NAME OF SURVEY VENDOR OR
	☐ Portuguese	SELF-ADMINISTERING HOSPITAL]
	☐ Some other language (please print):	[RETURN ADDRESS OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]

Version 5.0

5.6 Spanish Survey Version 5.0



Sobre su Visita a la Sala de Emergencias

Toda la información que pueda identificarlo se mantendrá privada. Nosotros no compartiremos su información personal con nadie sin su permiso, a menos que lo requiera la ley. Usted puede contestar esta encuesta o no. Si usted decide no contestar la encuesta, esto no afectará la atención médica que usted reciba.

Cuando haya completado la encuesta, póngala dentro del sobre que le enviamos y selle el sobre, y regrese el sobre a:

[NAME OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]
[RETURN ADDRESS OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]

Si desea más información sobre este estudio, por favor llame al/ a la [NAME OF SURVEY VENDOR OR SELF ADMINISTERING HOSPITAL] al XXX-XXX-XXXX. Todas las llamadas a ese número son gratuitas.



2.

3.

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Encuesta Sobre la Sala de Emergencias

INSTRUCCIONES

INSTRUCCIONES	
Conteste todas las respuestas marcando el respuesta que usted elija.	cuadrito que aparece a la izquierda de la
 Para indicar que una respuesta fue elegida per cuadrito y elija otro cuadrito. 	por error, marque una línea a través del
 A veces hay que saltarse alguna pregunta de una flecha con una nota que le indicará la si pasar. Por ejemplo: 	
□Sí	
No → Si contestó "No", pase a la	pregunta 1
2	programa :
Usted tal vez note un número en el cuestion saber que ha regresado su cuestionario y no	
Todas las preguntas de este cuestionario son s	obre la visita a la sala de emergencias que está
nombrada en la carta de presentación.	
CUANDO FUE A LA SALA DE EMERGENCIAS	DURANTE ESTA VISITA A LA SALA DE EMERGENCIAS
LINEINGIAS	BE EMENGIAS
Pensando en esta visita, ¿cuál fue la razón principal por la que usted fue a la sala de emergencias?	 Durante esta visita a la sala de emergenci ¿recibió usted atención dentro de los 30 minutos después de llegar a la sala de
☐ Un accidente o una lesión	emergencias?
☐ Un nuevo problema de salud	□ Sí
 Un problema de salud o enfermedad frecuente 	☐ No 5. Durante esta visita a la sala de emergenci
Para esta visita, ¿fue usted a la sala de	
emergencias en una ambulancia?	¿los doctores o enfermeras le preguntaro cuáles eran <u>todas</u> las medicinas que estal usted tomando?
emergencias en una ambulancia? ☐ Sí	cuáles eran todas las medicinas que esta
	cuáles eran <u>todas</u> las medicinas que esta usted tomando?
□ Sí □	cuáles eran todas las medicinas que esta usted tomando? ☐ Sí ☐ No 6. Durante esta visita a la sala de emergenci ¿le dieron a usted alguna medicina? ☐ Sí
☐ Sí ☐ No Desde el primer momento en que usted llegó a la sala de emergencias, ¿cuánto tiempo pasó antes de que alguien le hablara de la razón por	cuáles eran todas las medicinas que esta usted tomando? ☐ Sí ☐ No 6. Durante esta visita a la sala de emergenci ¿le dieron a usted alguna medicina? ☐ Sí
☐ Sí ☐ No Desde el primer momento en que usted llegó a la sala de emergencias, ¿cuánto tiempo pasó antes de que alguien le hablara de la razón por la que usted estaba allí?	cuáles eran todas las medicinas que esta usted tomando? Sí No 6. Durante esta visita a la sala de emergenci ¿le dieron a usted alguna medicina?



7.	Antes de darle una medicina, ¿los doctores o las enfermeras le dijeron a usted para qué era la medicina? Sí, definitivamente Sí, hasta cierto punto	Por favor responda a las siguientes preguntas sobre las personas que le atendieron a usted durante esta visita a la sala de emergencias. 11. Durante esta visita a la sala de emergencias,
8.	Antes de darle una medicina, ¿los doctores o las enfermeras le explicaron los efectos secundarios posibles de una manera que usted pudiera entender? Sí, definitivamente Sí, hasta cierto punto	¿con qué frecuencia las enfermeras le trataban con <u>cortesía y respeto</u> ? Nunca A veces La mayoría de las veces Siempre
9.	Durante esta visita a la sala de emergencias, ¿le hicieron una prueba de sangre, rayos X o alguna otra prueba? ☐ Sí ☐ No → Si contestó "No", pase a la pregunta 11	12. Durante esta visita a la sala de emergencias, ¿con qué frecuencia las enfermeras le escuchaban con atención? Nunca A veces La mayoría de las veces
10.	Durante esta visita a la sala de emergencias, ¿los doctores o las enfermeras le dieron tanta información como usted quería acerca de los resultados de estas pruebas? Sí, definitivamente Sí, hasta cierto punto No	 13. Durante esta visita a la sala de emergencias, ¿con qué frecuencia las enfermeras le explicaban las cosas de una manera que usted pudiera entender? Nunca A veces La mayoría de las veces Siempre 14. Durante esta visita a la sala de emergencias, ¿con qué frecuencia los doctores le trataban con cortesía y respeto? Nunca A veces La mayoría de las veces Siempre



☐ Sí, definitivamente ☐ Sí, hasta cierto punto ☐ No ☐ No necesité atención de seguimiento → Pase a la pregunta 21 ¿El personal de la sala de emergencias le dio a usted información sobre cómo obtener la atención de seguimiento que necesitaba?
 Sí, hasta cierto punto No No necesité atención de seguimiento → Pase a la pregunta 21 ¿El personal de la sala de emergencias le dio a usted información sobre cómo obtener la
□ No □ No necesité atención de seguimiento → Pase a la pregunta 21 ¿El personal de la sala de emergencias le dio a usted información sobre cómo obtener la
seguimiento Pase a la pregunta 21 ¿El personal de la sala de emergencias le dio a usted información sobre cómo obtener la
a usted información sobre cómo obtener la
□Sí
□No
☐ No necesité ninguna información sobre cómo obtener atención de seguimiento
Antes de que se fuera de la sala de emergencias, ¿el personal le dio información sobre los síntomas o problemas de salud de los que tendría usted que estar pendiente cuando estuviera en su casa? Sí, definitivamente Sí, hasta cierto punto



SU EXPERIENCIA EN LA SALA DE **EMERGENCIAS**

Por favor conteste las siguientes preguntas sobre su visita a la sala de emergencias cuyo nombre aparece en la carta de presentación. No incluya ninguna otra visita a una sala de emergencias en sus respuestas.	24. En los <u>últimos 6 meses</u> , ¿cuántas veces fue usted a <u>alguna</u> sala de emergencias para recibir atención médica? Por favor incluya la visita a la sala de emergencias sobre la que ha estado contestando las preguntas de esta encuesta.
22. Usando un número del 0 al 10, el 0 siendo la peor atención posible y el 10 la mejor atención posible, ¿qué número usaría para calificar su atención durante esta visita a la sala de emergencias? □ 0 La peor atención posible □ 1 □ 2	☐ 1 vez ☐ 2 veces ☐ 3 veces ☐ 4 veces ☐ 5 a 9 veces ☐ 10 veces o más 25. Sin contar la sala de emergencias, ¿hay
□ 2 □ 3 □ 4 □ 5 □ 6 □ 7	algún consultorio médico, clínica u otro lugar al que usted acostumbre ir cuando necesita un chequeo, quiere consejos sobre un problema de salud, o si se enferma o lastima?
	ACEITOA DE COTED
☐ 8 ☐ 9 ☐ 10 La mejor atención posible	Sólo quedan unas cuantas preguntas. 26. En general, ¿cómo calificaría toda su salud?

SU ATENCIÓN MÉDICA



Version 5.0

28.	¿Cuál es el grado o nivel escolar más alto que ha completado?	31. ¿Principalmente qué idioma habla en casa?
	☐ 8 años de escuela o menos	☐ Inglés
	☐ 9 - 12 años de escuela, pero sin graduarse	☐ Español
	☐ Graduado de la escuela de secundaria,	☐ Chino
	Diploma de escuela de secundaria (<i>high school</i>), preparatoria, o su equivalente (o	Ruso
	GED)	☐ Vietnamita
	 Algunos cursos universitarios o un título universitario de un programa de 2 años 	☐ Portugués
	☐ Título universitario de 4 años	☐ Algún otro idioma (escriba en letra de molde):
	☐ Título universitario de más de 4 años	
29.	¿Es usted de ascendencia u origen español, hispano o latino?	32. ¿Le ayudó alguien a responder a esta encuesta?
	☐ No, ni español/hispano/latino	□Sí
	☐ Sí, puertorriqueño	□ No → Gracias. Por favor devuelva el
	☐ Sí, mexicano, mexicano americano, chicano	cuestionario cuando lo haya completado en el sobre con el porte o franqueo pagado.
	☐ Sí, cubano	
	☐ Sí, otro español/hispano/latino	 ¿Cómo le ayudó la persona? Marque todas las que apliquen.
30.	¿A qué raza pertenece? Por favor marque una o más.	☐ Me leyó las preguntas
	☐ Blanca ☐ Negra o afro americana ☐ Asiática	☐ Anotó las respuestas que le di
		☐ Contestó las preguntas por mí
		☐ Tradujo las preguntas a mi idioma
	☐ Nativa de Hawái o de otras islas del Pacífico	☐ Me ayudó de otra manera (Escriba en letra de molde):
	☐ Indígena Americana o nativa de Alaska	
		34. ¿La persona que le ayudó estuvo con usted en cualquier momento durante esta visita a la sala de emergencias? ☐ Sí ☐ No
	_	



GRACIAS

Por favor devuelva el cuestionario cuando lo haya completado en el sobre con el porte o franqueo pagado.

[NAME OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]
[RETURN ADDRESS OF SURVEY VENDOR OR SELF-ADMINISTERING HOSPITAL]

5.7 Recommended Data File Structure

Header Section

Field Name	Description	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
PROVIDER_NAME	Name of the Hospital	1	100	Yes	
PROVIDER_ID	CMS Certification Number	101	10	Yes	No dashes or spaces Valid 6 digit CMS Certification Number (formerly known as Medicare Provider Number)
DISCHARGE_YR	Year of discharge	111	4	Yes	YYYY (2020 or greater; cannot be 9999)
DISCHARGE_MONTH	Month of Discharge	115	2	Yes	MM (01–12 = January–December; cannot be 00, 13–99)
SURVEY_MODE	Mode of survey administration	117	1	Yes	1 = web-phone mode 2 = mail-phone 3 = web-mail-phone
NUMBER_ELIGIBLE_DISCHARGE	Number of eligible discharges in sample frame in the quarter within the hospital	118	10	Yes	Note: Patients found to be ineligible during the survey administration process should be subtracted from the Eligible Discharges count
SAMPLE_SIZE	Number of sampled discharges in the quarter within the hospital	128	10	Yes	

Patient Administrative Data Section

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
DISCHARGE_DATE	Date of discharge	138	8	Yes	YYYYMMDD
	Random, unique, de- identified, patient ID assigned by survey vendor	146	16	Yes	Maximum of 16 characters
DISCHARGE_STATUS	Patient's discharge status	162	2		1 = Home care or self-care 2 = Short-term general hospital for inpatient care (Exclude) 3 = Medicare certified skilled nursing facility (Exclude) 4 = Intermediate care facility (Exclude) 5 = Designated cancer center or children's hospital (Exclude) 6 = Home with home health services (Exclude) 7 = Left against medical advice (Exclude) 20 = Expired (Exclude) 21 = Discharged/transferred to court/law enforcement (Exclude) 40 = Expired at Home (Exclude) 41 = Expired in medical facility (Exclude) 42 = Expired, Place Unknown (Exclude) 43 = Federal healthcare facility 50 = Hospice - home (Exclude) 51 = Hospice - medical facility (Exclude) 61 = Medicare-approved swing bed within hospital (Exclude) 62 = Inpatient rehabilitation facility (Exclude) 63 = Long-term care hospital (Exclude)

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
					64 = Medicaid certified nursing facility (Exclude) 65 = Psychiatric hospital or psychiatric unit (Exclude) 66 = Critical Access Hospital (Exclude) 69 = Discharged/transferred to a designated disaster alternative care site (An alternate care site (ACS) provides basic patient care during a disaster response to a population that would otherwise be hospitalized or in a similar level of dependent care if those resources were available during the disaster. The federal government or state government should declare the disaster. ACS is not an institution; most likely it would be an armory or stadium. (Exclude) 70 = Discharge/transfer to health care institution not defined elsewhere in the code list (Exclude) 81 = Discharged to home or self-care with a planned acute care hospital inpatient readmission (Exclude) 82 = Discharged/transferred to a short term general hospital for inpatient care with a planned acute care hospital inpatient readmission (Exclude) 83 = Discharged/transferred to a Medicare certified skilled nursing facility (SNF) with a planned acute care hospital inpatient readmission (Exclude) 84 = Discharged/transferred to a facility that provides custodial or supportive care with a planned acute care hospital inpatient readmission (Exclude)

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
					85 = Discharged/transferred to a designated cancer center or children's hospital with a planned acute care hospital inpatient readmission (Exclude) 86 = Discharged/transferred to home under care of organized home health service organization with planned acute care hospital inpatient readmission (Exclude) 87 = Discharged/transferred to court/law enforcement with a planned acute care hospital inpatient readmission (Exclude) 88 = Discharged/transferred to federal health care facility with a planned acute care hospital inpatient readmission (Exclude) 89 = Discharged/transferred to a hospital-based Medicare-approved swing bed with a planned acute care hospital inpatient readmission (Exclude) 90 = Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital with a planned acute care hospital inpatient readmission (Exclude) 91 = Discharged/transferred to a Medicare certified long term care hospital (LTCH) with a planned acute care hospital inpatient readmission (Exclude) 92 = Discharged/transferred to a Medicaid certified nursing facility with a planned

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
					acute care hospital inpatient readmission (Exclude) 93 = Discharged/transferred to a psychiatric distinct part unit of a hospital with a planned acute care hospital inpatient readmission (Exclude) 94 = Discharged/transferred to a critical access hospital (CAH) with a planned acute care hospital inpatient readmission (Exclude) 95 = Discharged/transferred to another type of health care institution not defined elsewhere in this code list with a planned acute care hospital inpatient readmission (Exclude) M = Missing
SURVEY_STATUS	Final Disposition of Survey	164	2	Yes	1 = Completed survey 2 = Ineligible: Deceased 3 = Ineligible: Not in eligible population 4 = Ineligible: Language barrier 5 = Ineligible: Mental/physical incapacity 6 = Non-response: Break off 7 = Non-response: Refusal 8 = Non-response: Non-response after maximum attempts 9 = Non-response: Bad/no phone number
SURVEY_COMPLETION_MODE	Survey Mode used to complete a survey administered	166	1	Yes, if Survey Status is "1- Completed Survey" or "6- Non-response: Break off"	1 = mail 2 = phone 3 = web

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
NUMBER_SURVEY_ATTEMPTS_ TELEPHONE	Number of telephone attempts	167	1	"2 -web-	1 = First telephone attempt 2 = Second telephone attempt 3 = Third telephone attempt 4 = Fourth telephone attempt 5 = Fifth telephone attempt 8 = Not applicable
SURVEY_LANGUAGE	Identify survey language in which the survey was administered (or attempted to be administered)	168	1		1 = English 2 = Spanish 3 = Chinese 4 = Russian 8 = Not applicable
LAG_TIME	Number of days between the patient's discharge date and the end of data collection for that patient	169	3	Yes	000-365 888 = Not applicable Note: The Lag Time should be included for all EDPEC DTC Final Survey Status codes. It is anticipated that the Lag Time will not be coded as "Missing"

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
GENDER	Patient's gender	172	1		1 = Male 2 = Female M = Missing
AGE_AT_VISIT	Patient's age at ED visit	173	2		1 = 18-24 2 = 25-29 3 = 30-34 4 = 35-39 5 = 40-44 6 = 45-49 7 = 50-54 8 = 55-59 9 = 60-64 10 = 65-69 11 = 70-74 12 = 75-79 13 = 80-84 14 = 85-89 15 = 90 or older M = Missing/Unknown
PAYER_PRIMARY	Primary payer for medical care received	174	1		1 = Medicare 2 = Medicaid 3 = Private 4 = Uninsured/No payer 5 = Other M = Missing
PAYER_SECONDARY	Secondary payer for medical care received	175	1		1 = Medicare 2 = Medicaid 3 = Private

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
					4 = Uninsured/No payer 5 = Other M = Missing
PAYER_OTHER	Other payer for medical care received	176	1		1 = Medicare 2 = Medicaid 3 = Private 4 = Uninsured/No payer 5 = Other M = Missing
ESI_AT_VISIT	Emergency Severity Index 5-Level	177	1		1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 M = Missing
RACE_ETHNICITY	Race/ethnicity	178	1		1 = Non-Hispanic White 2 = Hispanic 3 = Black or African American 4 = Asian 5 = Native Hawaiian or other Pacific Islander 6 = American Indian or Alaska Native 7 = Multiracial 8 = Other M = Missing
ICD_10	ICD-10 primary diagnosis code	179	7	Yes	ICD-10 code with 3-7 letters/numbers

Field Name	Field Contents	Starting Position in Record	Field Length	Data Element Recommended	Valid Values
PRIMARY_LANGUAGE	Primary language	186	1		1 = English 2 = Spanish 3 = Other M = Missing
HAVE_EMAIL	Patient has email address available	187	1		1= Has email address in record 2 = Does not have email address in record M = Missing

Patient Survey Data Section

Field Name	Survey Question	Field Position	Valid Values
GTER_REASON	Thinking about this visit, what was the main reason why you went to the emergency room? □ An accident or injury □ A new health problem □ An ongoing health condition or concern	188	 1 = An accident or injury 2 = A new health problem 3 = An ongoing health condition or concern M = Missing/Don't know
GTER_AMBULANCE	2. For this visit, did you go to the emergency room in an ambulance?☐ Yes☐ No	189	1 = Yes 2 = No M = Missing/Don't know
GTER_TIME2TALK	3. When you first arrived at the emergency room, how long was it before someone talked to you about the reason why you were there? □ Less than 5 minutes □ 5 to 10 minutes □ More than 15 minutes	190	1 = Less than 5 minutes 2 = 5 to 10 minutes 3 = More than 15 minutes M = Missing/Don't know
DERV_WT30MINS	4. During this emergency room visit, did you get care within 30 minutes of getting to the emergency room? ☐ Yes ☐ No	191	1 = Yes 2 = No M = Missing/Don't know
DERV_ASKMEDS	 5. During this emergency room visit, did the doctors or nurses ask about <u>all</u> of the medicines you were taking? □ Yes, definitely □ Yes, somewhat □ No 	192	1 = Yes 2 = No M = Missing/Don't know

Field Name	Survey Question	Field Position	Valid Values
DERV_MEDS_SCR	 6. During this emergency room visit, were you given any medicine? ☐ Yes ☐ No → If No, Go to Question 9 ☐ Don't Know → If No, Go to Question 9 	193	1 = Yes 2 = (Explicit) Don't know 3 = No M = Missing/Don't know
DERV_MEDSREASON	7. Before giving you any medicine, did the doctors or nurses tell you what the medicine was for? ☐ Yes, definitely ☐ Yes, somewhat ☐ No	194	1 = Yes, definitely 2 = Yes, somewhat 3 = No 88= Not Applicable M = Missing/Don't know
DERV_MEDSSE	8. Before giving you any medicine, did the doctors or nurses describe possible side effects to you in a way you could understand? ☐ Yes, definitely ☐ Yes, somewhat ☐ No	196	1 = Yes, definitely 2 = Yes, somewhat 3 = No 88= Not Applicable M = Missing/Don't know
DERV_TESTS_SCR	 9. During this emergency room visit, did you have a blood test, x-ray, or any other test? ☐ Yes ☐ No → If No, Go to Question 11 	198	1 = Yes 2 = No M = Missing/Don't know
DERV_TESTRESINFO	10. During this emergency room visit, did doctors and nurses give you as much information as you wanted about the results of these tests? ☐ Yes, definitely ☐ Yes, somewhat ☐ No	200	1 = Yes, definitely 2 = Yes, somewhat 3 = No 88= Not Applicable M = Missing/Don't know
PTCY_NURSECAR	11. During this emergency room visit, how often did nurses treat you with courtesy and respect? □ Never	202	1 = Never 2 = Sometimes

Field Name	Survey Question	Field Position	Valid Values
	☐ Sometimes ☐ Usually ☐ Always		3 = Usually 4 = Always M = Missing/Don't know
PTCY_NURSELC	12. During this emergency room visit, how often did nurses listen carefully to you? ☐ Never ☐ Sometimes ☐ Usually ☐ Always	203	1 = Never 2 = Sometimes 3 = Usually 4 = Always M = Missing/Don't know
PTCY_NURSEEAU	13. During this emergency room visit, how often did nurses explain things in a way you could understand? ☐ Never ☐ Sometimes ☐ Usually ☐ Always	204	1 = Never 2 = Sometimes 3 = Usually 4 = Always M = Missing/Don't know
PTCY_DOCCAR	14. During this emergency room visit, how often did doctors treat you with courtesy and respect? ☐ Never ☐ Sometimes ☐ Usually ☐ Always	205	1 = Never 2 = Sometimes 3 = Usually 4 = Always M = Missing/Don't know
PTCY_DOCLC	15. During this emergency room visit, how often did doctors listen carefully to you? ☐ Never ☐ Sometimes ☐ Usually	206	1 = Never 2 = Sometimes 3 = Usually 4 = Always M = Missing/Don't know

Field Name	Survey Question	Field Position	Valid Values
	□ Always		
PTCY_DOCEAU	16. During this emergency room visit, how often did doctors explain things in a way you could understand? ☐ Never ☐ Sometimes ☐ Usually ☐ Always	207	1 = Never 2 = Sometimes 3 = Usually 4 = Always M = Missing/Don't know
LER_PMEDS_SCR	17. Before you left the emergency room, did a doctor or nurse tell you that you should take any medicine at home? ☐ Yes ☐ No→ If No, Go to Question 19	208	1 = Yes 2 = No M = Missing/Don't know
LER_PMEDSREASON	18. Before you left the emergency room, did a doctor or nurse tell you what the medicine was for? ☐ Yes, definitely ☐ Yes, somewhat ☐ No	209	1 = Yes, definitely 2 = Yes, somewhat 3 = No 88= Not Applicable M = Missing/Don't know
LER_FOLLOWUP_SCR	19. Before you left the emergency room, did staff talk with you about follow-up care? ☐ Yes, definitely ☐ Yes, somewhat ☐ No ☐ I did not need follow-up care → If No, Go to Question 21	211	1 = Yes, definitely 2 = Yes, somewhat 3 = No 4 = I did not need follow-up care M = Missing/Don't know
LER_FOLLOWUPINO	20. Did emergency room staff give you information about how to get the follow-up care you needed? ☐ Yes	212	1 = Yes 2 = No

Field Name	Survey Question	Field Position	Valid Values
	☐ No ☐ I did not need information about how to get follow- up care		3= I did not need information about how to get follow-up care 88= Not Applicable M = Missing/Don't know
LER_LOOKOUT	21. Before you left the emergency room, did staff give you information about what symptoms or health problems to look out for at home? ☐ Yes, definitely ☐ Yes, somewhat ☐ No	214	1 = Yes, definitely 2 = Yes, somewhat 3 = No M = Missing/Don't know
OE_RATECARE	22. Using any number from 0 to 10, where 0 is the worst care possible and 10 is the best care possible, what number would you use to rate your care during this emergency room visit? □ 0 Worst care possible □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 Best care possible	215	0 = Worst care possible 1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = Best care possible M = Missing/Don't know
OE_RECOMMEND	23. Would you recommend this emergency room to your friends and family? ☐ Definitely no ☐ Probably no	216	1 = Definitely no 2 = Probably no 3 = Probably yes 4 = Definitely yes

Field Name	Survey Question	Field Position	Valid Values
	☐ Probably yes ☐ Definitely yes		M = Missing/Don't know
YHC_ERVP6MTHS	24. In the last 6 months, have you visited any emergency room to get care for yourself? Please include the emergency room visit you have been answering questions about in this survey. 1 time 2 times 3 times 4 times 10 or more times	217	1 = 1 time 2 = 2 times 3 = 3 times 4 = 4 times 5 = 5 to 9 times 6 = 10 or more times M = Missing/Don't know
YHC_DOCOFFICE_SCR	25. Not counting the emergency room, is there a doctor's office clinic, or other place you usually go if you need a check-up, want advice about a health problem, or get sick or hurt? ☐ Yes ☐ No	218	1 = Yes 2 = No M = Missing/Don't know
AY_OVERALLHEALTH	26. In general, how would you rate your overall health? □ Excellent □ Very good □ Good □ Fair □ Poor	219	1 = Excellent 2 = Very Good 3 = Good 4 = Fair 5 = Poor M = Missing/Don't know
AY_MENTALHEALTH	27. In general, how would you rate your overall mental or emotional health? ☐ Excellent ☐ Very good ☐ Good	220	1 = Excellent 2 = Very Good 3 = Good 4 = Fair 5 = Poor

Field Name	Survey Question	Field Position	Valid Values
	□ Fair □ Poor		M = Missing/Don't know
AY_LANGUAGE	28. What language do you mainly speak at home? □ English □ Spanish □ Chinese □ Russian □ Vietnamese □ Portuguese □ Some other language	221	1 = English 2 = Spanish 3 = Chinese 4 = Russian 5 = Vietnamese 6 = Portuguese 9 = Some other language M = Missing/Don't know
AY_EDUCATION	29. What is the highest grade or level of school that you have completed? □ 8 th grade or less □ Some high school, but did not graduate □ High school graduate or GED □ Some college or 2-year degree □ 4-year college graduate □ More than 4-year college degree	222	1 = 8th Grade Or Less 2 = Some High School, But Did Not Graduate 3 = High School Graduate Or GED 4 = Some College Or 2-Year Degree 5 = 4-Year College Graduate 6 = More Than 4-Year College Degree M = Missing/Don't know
AY_HISPANIC_SCR	30. Are you Spanish, Hispanic or Latino origin or descent? □ No, not Spanish/Hispanic/Latino □ Yes, Puerto Rican □ Yes, Mexican, Mexican American, Chicano □ Yes, Cuban □ Yes, other Spanish/Hispanic/Latino	223	1 = No, not Spanish /Hispanic/Latino 2 = Yes, Puerto Rican 3 = Yes, Mexican, Mexican American, Chicano 4 = Yes, Cuban 5 = Yes, other Spanish /Hispanic/Latino M = Missing/Don't know

Field Name	Survey Question	Field Position	Valid Values
	31. What is your race? Please choose one or more.		
RACE_WHITE	a. Are you white?	224	1 = Yes 2 = No M = Missing/Don't know
RACE_BLACK	b. Are you Black or African American?	225	1 = Yes 2 = No M = Missing/Don't know
RACE_ASIAN	c. Are you Asian?	226	1 = Yes 2 = No M = Missing/Don't know
RACE_HAWAII_PACIFIC	d. Are you Native Hawaiian or other Pacific Islander?	227	1 = Yes 2 = No M = Missing/Don't know
RACE_NATAMER	e. Are you American Indian or Alaska Native?	228	1 = Yes 2 = No M = Missing/Don't know
AY_PROXY_SCR	32. Did someone help you complete this survey? ☐ Yes ☐ No → Thank you	229	1=Yes 2=No M = Missing/Don't know
	33. How did that person help you? Mark one or more.		
PROXY_READ	a. Read the questions to me	230	1 = Yes 2 = No 88= Not Applicable M = Missing/Don't know
PROXY_WROTE	b. Wrote down the answers I gave	232	1 = Yes 2 = No 88= Not Applicable

Field Name	Survey Question	Field Position	Valid Values
			M = Missing/Don't know
PROXY_ANS	c. Answered the questions for me	234	1 = Yes 2 = No 88= Not Applicable M = Missing/Don't know
PROXY_TRANS	d. Translated the questions into my language	236	1 = Yes 2 = No 88= Not Applicable M = Missing/Don't know
PROXY_HELPOTH_TXT	e. Helped in some other way	238	1 = Yes 2 = No 88= Not Applicable M = Missing/Don't know
AY_PROXY_SCR	34. Was the person who helped you with you at any time during this emergency room visit?	240	1 = Yes 2 = No 88= Not Applicable M = Missing/Don't know

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