APPENDIX R

XML File Layout Version 4.4

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Hospital CAHPS XML File Specification
Version 4.4

This XML file specification (Version 4.4) applies to **3Q 2021 discharges and forward**.

Each file submission will represent one month of survey data for each hospital.

An HCAHPS XML file is made up of 3 parts: **1) header record 2) administrative data record 3) survey results record.**
There should be only one header record for each HCAHPS XML file. Each patient within the HCAHPS XML file should have an administrative data record, and if survey results are being submitted for the patient, they should have the survey results record.

Each field (except fields **strata-name, dsrs-inpatient, dsrs-eligible, dsrs-samplesize** and **npi** - see data element description for more details) of the header record and administrative data requires an entry for a valid data submission.

Survey results records are not required for a valid data submission but if survey results are included, then all answers must have an entry. Survey results records are required if the final <survey-status> is "1 - Completed survey" or "6 - Non-response: Break off".

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<monthlydata> Opening Tag, defines the monthly survey data		This is the opening element of the file. The closing tag for this element will be at the end of the file. Attributes describe the element and are included within the opening and closing <> This XML tag should be defined with its attributes as shown below - **<monthlydata xmlns="http://hcahps.ifmc.org" xmlns:xsi="http://www.w3.org/2021/XMLSchema-instance">**				
	See example.	N/A	N/A	NA	N/A	Yes
The following section defines the format of the header record.						
<header> Opening Tag, defines the header record of monthly survey data		This is the opening element of the header record. The closing tag for this element will be at the end of the header record. **Note:** This tag is required in the XML document, however, it contains no data. This header element should only occur once per file.				
	None	N/A	N/A	NA	N/A	Yes
<provider-name> Sub-element of header		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element should only occur once per file. **Example: <provider-name>Sample Hospital</provider-name>**				
	None	Name of the hospital represented by the survey.	N/A	Alphanumeric Character	100	Yes
<provider-id> Sub-element of header		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element will occur again as an administration data element in the patient level data record. **Example: <provider-id>123456</provider-id>**				
	None	ID number of the hospital represented by the survey.	Valid 6 digit CMS Certification Number (formerly known as Medicare Provider Number).	Alphanumeric Character	10	Yes
<npi> Sub-element of header		Each element must have a closing tag that is the same as the opening tag, but with a forward slash. This header element should only occur once per file. This is an optional data element at this time but may be required in the future. **Example: <npi>1234567890</npi>**				
	None	National Provider Identifier	Valid 10 digit National Provider Identifier.	Numeric	10	No
<discharge-yr> Sub-element of header		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element will occur again as an administration data element in the patient level data record. **Example: <discharge-yr>2021</discharge-yr>**				
	None	Year patient was discharged from the hospital.	YYYY YYYY = (2021 or greater) (cannot be 9999)	Numeric	4	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<discharge-month\> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element will occur again as an administration data element in the patient level data record. **Example: \<discharge-month\>7\</discharge-month\>**					
	None	Month patient was discharged from the hospital.	MM MM = (1-12) (cannot be 00, 13-99)	Numeric	2	Yes
\<survey-mode\> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header data element should only occur once per file. *Note: The Survey Mode must be the same for all three months within a quarter.* **Example: \<survey-mode\>1\</survey-mode\>**					
	None	Mode of survey administration. Survey Mode must be the same for all three months within a quarter. Once you have uploaded your first month of data, you have the ability to re-upload that month and change the survey mode if you'd like. However, once you have uploaded data for two months within a given quarter, you are locked into that survey mode and cannot change it for that quarter.	1 - Mail only 2 - Telephone only 3 - Mixed mode 4 - IVR	Alphanumeric Character	1	Yes
\<determination-of-service-line\> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header data element should only occur once per file. **Example: \<determination-of-service-line\>1\</determination-of-service-line\>**					
	None	Methodology used by a facility to determine whether a patient falls into one of the three service line categories eligible for HCAHPS survey.	1 - V.39, V.38, V.37, V.36, V.35, V.34, V.33, V.32, V.31, V.30, V.29, V.28, V.27, V.26, or V.25 MS-DRG codes 2 - CMS V.24 DRG codes 3 - Mix of V.39, V.38, V.37, V.36, V.35, V.34, V.33, V.32, V.31, V.30, V.29, V.28, V.27, V.26, V.25 or V.24 codes based on payer source or a mix of MS-DRG and APR-DRG codes 4 - ICD-10 or ICD-9 codes 5 - Hospital unit 6 - APR-DRG codes 7 - Other - Approved Exception Request only	Numeric	1	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<number-inpatient-discharge> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element should only occur once per file. **Example: <number-inpatient-discharge>800</number-inpatient-discharge>**					
	None	Number of inpatients discharged from the hospital for the month.	N/A	Numeric	10	Yes
<number-eligible-discharge> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element should only occur once per file. **Example: <number-eligible-discharge>650</number-eligible-discharge>**					
	None	Number of eligible patients discharged from the hospital for the month.	N/A	Numeric	10	Yes
<sample-size> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element should only occur once per file. **Example: <sample-size>600</sample-size>**					
	None	Number of eligible patients drawn into the sample for survey administration.	N/A	Numeric	10	Yes
<sample-type> Sub-element of header	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This header element should only occur once per file. *Note: Sample Type must be the same for all three months within a quarter.* **Example: <sample-type>3</sample-type>**					
	None	Sample type must be the same for all three months within a quarter. Once you have uploaded your first month of data, you have the ability to re-upload that month and change the sample type if you'd like. However, once you have uploaded data for two months within a given quarter, you are locked into that sample type and cannot change it for that quarter.	1 - Simple random sample 2 - Proportionate stratified random sample 3 - Disproportionate stratified random sample	Numeric	1	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required

<dsrs-strata>
 	
Sub-element of header
	This is the beginning tag for the section that is used to collect data elements for sample type of Disproportionate Stratified Random Sample (DSRS). This tag is only used if the sampling type is DSRS (sample-type = 3). If the sampling type is DSRS, the XML file must include one **<dsrs-strata>** tag for each strata being defined. **This tag should not be included in the XML file if the sampling type utilized is not DSRS.**
	
	Each <dsrs-strata> section, must have one each of the following associated data elements as shown below -
	
	Example: The following is an example that displays two strata being defined -
	<dsrs-strata>
	     <strata-name>example strata one</strata-name>
	     <dsrs-inpatient>800</dsrs-inpatient>
	     <dsrs-eligible>200</dsrs-eligible>
	     <dsrs-samplesize>125</dsrs-samplesize>
	</dsrs-strata>
	<dsrs-strata>
	     <strata-name>example strata two</strata-name>
	     <dsrs-inpatient>500</dsrs-inpatient>
	     <dsrs-eligible>300</dsrs-eligible>
	     <dsrs-samplesize>170</dsrs-samplesize>
	</dsrs-strata>				

	None	If sample type selected is Disproportionate Stratified Random Sample (DSRS), **there should be at least two <dsrs-strata> sections**. Additional strata can be defined as needed. There should be one <dsrs-strata> tag for each strata defined.	N/A	NA	N/A	No. Required only if sample-type is DSRS.
<strata-name> Sub-element of dsrs-strata	Each element must have a closing tag that is the same as the opening tag but with a forward slash. There should be one <strata-name> tag for each strata defined. This data element, which belongs to the <dsrs-strata> section, should only occur once per <dsrs strata> section. **This tag should not be included in the XML file if the sampling type utilized is not DSRS.** Example: <strata-name>strata one</strata-name>				
	None	If sample type selected is Disproportionate Stratified Random Sample, **then at least two strata names should be defined.** No two strata names can be the same within one file. Strata names must be the same for all three months within a quarter. Once you have uploaded your first month of data, you have the ability to re-upload that month and change the strata names if you'd like. However, once you have uploaded data for two months within a given quarter, you are locked into those strata names and cannot change them for that quarter. Strata names can be changed, added or deleted in subsequent quarters.	NA	Alphanumeric Character	45	No. Required only if sample-type is DSRS.

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<dsrs-inpatient> Sub-element of dsrs-strata		Each element must have a closing tag that is the same as the opening tag but with a forward slash. There should be one <dsrs-inpatient> tag for each strata defined. This data element which belongs to the <dsrs-strata> section, should only occur once per <dsrs-strata> section. **This tag should not be included in the XML file if the sampling type utilized is not DSRS.** **Example: <dsrs-inpatient>800</dsrs-inpatient>**				
	None	If disproportionate stratified random sample is utilized, this is the number of inpatient discharges within the associated strata.	NA	Numeric	10	No. Required only if sample-type is DSRS.
<dsrs-eligible> Sub-element of dsrs-strata		Each element must have a closing tag that is the same as the opening tag but with a forward slash. There should be one <dsrs-eligible> tag for each strata defined. This data element which belongs to the <dsrs-strata> section, should only occur once per <dsrs-strata> section. **This tag should not be included in the XML file if the sampling type utilized is not DSRS.** **Example: <dsrs-eligible>650</dsrs-eligible>**				
	None	If disproportionate stratified random sample is utilized, this is the number of eligible patients within the associated strata.	NA	Numeric	10	No. Required only if sample-type is DSRS.
<dsrs-samplesize> Sub-element of dsrs-strata		Each element must have a closing tag that is the same as the opening tag but with a forward slash. There should be one <dsrs-samplesize> tag for each strata defined. This data element which belongs to the <dsrs-strata> section, should only occur once per <dsrs strata> section. **This tag should not be included in the XML file if the sampling type utilized is not DSRS.** **Example: <dsrs-samplesize>650</dsrs-samplesize>**				
	None	If disproportionate stratified random sample is utilized, this is the number of sampled patients within the associated strata.	NA	Numeric	10	No. Required only if sample-type is DSRS.
</dsrs-strata> Closing tag for dsrs-strata	None	**Note:** This closing tag is required in the XML document, if the sample type utilized is "3 - Disproportionate stratified random sample," however, it contains no data. This closing tag should occur once for each <dsrs-strata> section.				
</header> Closing tag for header	None	**Note:** This closing element for the header is required in the XML document, however, it contains no data. This header element should only occur once per file.				

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
The following section defines the format of the patient level data record.						
<patientleveldata> Opening Tag, defines the patient level data record of monthly survey data	This is the opening element of the patient level data record. The closing tag for this element will be at the end of the patient level data record. **Note:** The <patientleveldata> section includes the opening and closing <patientleveldata> tags and all the tags between these two tags. The <patientleveldata> section is required in the XML file, if at least one patient is being submitted. If the <sample-size> is 0, and no patient data are being submitted, the <patientleveldata> section should not be included in the XML file. This patient level data element should only occur once per patient.				
	None	N/A	N/A	NA	N/A	Yes
An administrative data record is required for each patient as follows:						
<administration> Opening Tag, defines the administrative data record within the patient level data record of monthly survey data	This is the opening element of the administrative record. The closing tag for this element will be at the end of the administrative data record. **Note:** There will be one <administration> section for each patient. The <administration> section includes the opening and closing <administration> tags and all the tags between these two tags. This <administration> section is required in the XML file for each patient being submitted. This <administration> element should only occur once per patient.				
	None	N/A	N/A	NA	N/A	Yes
<provider-id> Sub-element of patientleveldata:administration	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration element also occurs in the previous header record. **Example: <provider-id>123456</provider-id>**				
	None	ID number of the hospital represented by the survey.	Valid 6 digit CMS Certification Number (formerly known as Medicare Provider Number).	Alphanumeric Character	10	Yes
<discharge-yr> Sub-element of patientleveldata:administration	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration element also occurs in the header record. **Example: <discharge-yr>2021</discharge-yr>**				
	None	Year patient was discharged from the hospital.	YYYY YYYY = (2021 or greater) (cannot be 9999)	Numeric	4	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<discharge-month> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration element also occurs in the header record. **Example: <discharge-month>7</discharge-month>**				
	None	Month patient was discharged from the hospital.	MM MM = (1 - 12) (cannot be 00, 13 - 99)	Numeric	2	Yes
<patient-id> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration element should only occur once per patient. **Example: <patient-id>12345</patient-id>**				
	None	Unique de-identified patient id assigned by the provider to uniquely identify the survey.	N/A	Alphanumeric Character	16	Yes
<admission-source> Point of Origin for Admission or Visit		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Example: <admission-source>1</admission-source>**				
	None	Source of inpatient admission for the patient. (same as UB-04 field location 15)	1 - Nonhealthcare Facility Point of Origin	Alphanumeric Character	1	Yes
			2 - Clinic or Physician's Office			
			4 - Transfer from a Hospital (Different Facility)			
			5 - Transfer from a SNF, ICF or ALF			
			6 - Transfer from Another Healthcare Facility			
			8 - Court/Law Enforcement			
			9 - Information Not Available			
			D - Transfer From One Distinct Unit of the Hospital to Another Distinct Unit of the Same Hospital Resulting in a Separate Claim to the Payer			
			E - Transfer from Ambulatory			
			F - Transfer from Hospice Facility			
			G - Transfer from a Designated Disaster Alternative Care Site (ACS)			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<principal-reason-admission> Sub-element of patientleveldata:administration	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Note: If possible the Service Line should not be coded as "Missing."** **Example:** **<principal-reason-admission>1</principal-reason-admission>**					
	None	Assignment of HCAHPS Service Line category.	1 - Maternity Care	Alphanumeric Character	1	Yes
			2 - Medical			
			3 - Surgical			
			M - Missing			
<discharge-status> Sub-element of patientleveldata:administration	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Note: Patients with a Discharge Status of "Expired" (codes 20, 40, 41, or 42) must not be coded as having "Complete" surveys."** **Example: <discharge-status>66</discharge-status>**					
	None	Status of patient's discharge. (same as UB-04 field location 17)	1 - Home Care or Self-Care	Alphanumeric Character	2	Yes
			2 - Short-Term General Hospital for Inpatient Care			
			3 - Medicare Certified Skilled Nursing Facility			
			4 - Intermediate Care Facility			
			5 - Designated Cancer Center or Children's Hospital			
			6 - Home with Home Health Services			
			7 - Left Against Medical Advice			
			9 - Admitted As an Inpatient to This Hospital			
			20 - Expired			
			21 - Discharged/Transferred to Court/Law Enforcement			
			30 - Still a Patient			
			40 - Expired at Home			
			41 - Expired in Medical Facility			
			42 - Expired, Place Unknown			
			43 - Federal Healthcare Facility			
			50 - Hospice - Home			
			51 - Hospice - Medical Facility			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<discharge-status\> Sub-element of patientleveldata:administration (cont'd)	None	Status of patient's discharge. (same as UB-04 field location 17)	61 - Medicare Approved Swing Bed within Hospital	Alphanumeric Character	2	Yes
			62 - Inpatient Rehabilitation Facility			
			63 - Long Term Care Hospital			
			64 - Medicaid Certified Nursing Facility			
			65 - Psychiatric Hospital or Psychiatric Unit			
			66 - Critical Access Hospital			
			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 rescores were available during the disaster. The federal government or state government must declare the disaster. ACS is not an institution; most likely it would be an armory or stadium.)			
			70 - Discharged/Transferred to a Healthcare Institution Not Defined Elsewhere in the Code List			
			81 - Discharged to home or self care with a planned acute care hospital inpatient readmission			
			82 - Discharged/Transferred to a Short Term General Hospital for Inpatient Care with a Planned Acute Care Hospital Inpatient Readmission			
			83 - Discharged/Transferred to a Medicare Certified Skilled Nursing Facility (SNF) with a Planned Acute Care Hospital Inpatient Readmission			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<discharge-status> Sub-element of patientleveldata:administration (cont'd)	None	Status of patient's discharge. (same as UB-04 field location 17)	84 - Discharged/Transferred to a Facility that Provides Custodial or Supportive Care with a Planned Acute Care Hospital Inpatient Readmission	Alphanumeric Character	2	Yes
			85 - Discharged/Transferred to a Designated Cancer Center or Children's Hospital with a Planned Acute Care Hospital Inpatient Readmission			
			86 - Discharged/Transferred to Home Under Care of Organized Home Health Service Organization with Planned Acute Care Hospital Inpatient Readmission			
			87 - Discharged/Transferred to Court/Law Enforcement with a Planned Acute Care Hospital Inpatient Readmission			
			88 - Discharged/Transferred to Federal Health Care Facility with a Planned Acute Care Hospital Inpatient Readmission			
			89 - Discharged/Transferred to a Hospital-based Medicare Approved Swing Bed with a Planned Acute Care Hospital Inpatient Readmission			
			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			
			91 - Discharged/Transferred to a Medicare Certified Long-term Care Hospital (LTCH) with a Planned Acute Care Hospital Inpatient Readmission			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<discharge-status> Sub-element of patientleveldata:administration (cont'd)	None	Status of patient's discharge. (same as UB-04 field location 17)	92 - Discharged/Transferred to a Medicaid Certified Nursing Facility Not Certified Under Medicare with a Planned Acute Care Hospital Inpatient Readmission	Alphanumeric Character	2	Yes
			93 - Discharged/Transferred to a Psychiatric Distinct Part Unit of a Hospital with a Planned Acute Care Hospital Inpatient Readmission			
			94 - Discharged/Transferred to a Critical Access Hospital (CAH) with a Planned Acute Care Hospital Inpatient Readmission			
			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			
			M - Missing			
<strata-name> Sub-element of patientleveldata:administration		This tag is required if the sampling type is DSRS (sample type 3). Name of the strata this patient belongs to. This name must match one of the strata defined in the header section of the XML file. If the sampling type is other than 3, this tag doesn't need to be included in the XML file. **Example: <strata-name>strata one</strata-name>**				
	None	This is the name of the strata the patient belongs to. You can only use one of the valid strata names defined in the header for the data element <strata-name>	You can only use one of the valid strata names defined in the header for the data element <strata-name>	Alphanumeric Character	45	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<survey-status\> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. *Note: It is anticipated that Survey Status should not be coded as "Missing."* **Example: \<survey-status\>10\</survey-status\>**				
	None	Disposition of survey.	1 - Completed survey	Alphanumeric Character	2	Yes
			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 address			
			10 - Non-response: Bad/no phone number			
			M - Missing			
\<survey-completion-mode\> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash.This tag is required if the Survey Mode is Mixed or IVR and the Survey Status is 1 - Completed Survey or 6 - Non-response: Break off. The values entered must match a value corresponding to the Survey Mode defined in the header section of the XML file. If the XML Element \<Survey Mode\> is other than Mixed or IVR, this tag should not be included in the XML file. **Example: \<survey-completion-mode\>1\</survey-completion-mode\>**				
	None	Survey Mode used to complete a survey administered via the Mixed or IVR mode.	1 - Mixed mode-mail	Numeric	1	No, conditionally required only if Survey Mode is Mixed or IVR and Survey Status is 1-Completed Survey or 6-Non-response: Break off.
			2 - Mixed mode-phone			
			3 - IVR mode-IVR			
			4 - IVR mode-phone			
			8 - Not applicable			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<number-survey-attempts-telephone\> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This tag is required if the Survey Mode is Telephone Only, Active IVR or Mixed Mode with a survey completion mode answer of 2 - Mixed Mode - Phone. If the XML Element \<Survey Mode\> is other than Telephone only, Active IVR or Mixed Mode (phone), this tag does not need to be included in the XML file. **Example: \<number-survey-attempts-telephone\>1\</number-survey-attempts-telephone\>**
	None	Number of telephone contact attempts per survey with a survey mode of Telephone Only, Mixed or Active IVR.	1 - First Telephone attempt	Numeric	1	No, conditionally required only if the Survey Mode is Telephone Only Mode, Active IVR Mode or Mixed Mode with survey completion mode = 2- Mixed mode-phone.
			2 - Second Telephone attempt			
			3 - Third Telephone attempt			
			4 - Fourth Telephone attempt			
			5 - Fifth Telephone attempt			
			8 - Not applicable			
\<number-survey-attempts-mail\> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This tag is required if the Survey Mode is Mail Only. If the XML Element \<Survey Mode\> is other than Mail only, this tag does not need to be included in the XML file. **Example: \<number-survey-attempts-mail\>1\</number-survey-attempts-mail\>**
	None	Mail wave for which the survey was completed or final survey status code is determined. Mail Only mode.	1 - First wave mailing	Numeric	1	No, conditionally required only if the Survey Mode is Mail Only
			2 - Second wave mailing			
			8 - Not applicable			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<language> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Example: <language>1</language>**
	None	Identify survey language in which the survey was administered (or attempted to be administered) (English, Spanish, Chinese, Russian, Vietnamese, Portuguese, or German)	1 - English	Numeric	1	Yes
			2 - Spanish			
			3 - Chinese			
			4 - Russian			
			5- Vietnamese			
			6 - Portuguese			
			7 - German			
			8 - Not applicable			
<lag-time> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Note: The Lag Time should not be coded as "Missing" or "888."** **Example: <lag-time>84</lag-time>**
	None	Number of days between patient's discharge date from the hospital and the date that data collection activities ended for the patient.	0-365	Numeric	3	Yes
			888 - Not applicable			
<supplemental-question-count>		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Note: The "Supplemental Question Count" should not be coded as "Missing."** **Example: <supplemental-question-count>4</supplemental-question-count>**
	None	The count is the maximum number of supplemental questions available to the patient regardless if the questions are asked and/or answered.	0-99 M - Missing	Alphanumeric Character	2	Yes. Required for all HCAHPS Final Survey Status Codes.

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<gender> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Example: <gender>1</gender>**				
	None	Patient gender.	1 - Male	Alphanumeric Character	1	Yes
			2 - Female			
			M - Missing			
<patient-age> Sub-element of patientleveldata:administration		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This administration data element should only occur once per patient. **Example: <patient-age>1</patient-age>**				
	None	Patient age at admission.	0 - Under 18	Alphanumeric Character	2	Yes
			1 - 18 to 24			
			2 - 25 to 29			
			3 - 30 to 34			
			4 - 35 to 39			
			5 - 40 to 44			
			6 - 45 to 49			
			7 - 50 to 54			
			8 - 55 to 59			
			9 - 60 to 64			
			10 - 65 to 69			
			11 - 70 to 74			
			12 - 75 to 79			
			13 - 80 to 84			
			14 - 85 to 89			
			15 - 90 or older			
			M - Missing/Unknown			
</administration> Closing tag for administration	None	**Note:** This tag is required in the XML file, however, it contains no data. This administration element should only occur once per patient.				

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
A survey results (patient response) record is defined as the <patient response> and is defined as follows: (Note: Survey results (patient response) records are not required for a valid data submission, however if survey results are included then all answers must have an entry. Survey results (patient response) record is required, if the final <survey-status> is "1 - Completed survey" or "6 - Nonresponse: Break off".)						
<patientresponse> Opening Tag, defines the patient response data record within the patient level data record of monthly survey data	This is the opening element of the patient response record. The closing tag for this element will be at the end of the patient response record. **Note:** There will be one <patientresponse> section for each patient if survey results are being submitted for the patient. The <patientresponse> section includes the opening and closing <patientresponse> tags and all the tags between these two tags. This <patientresponse> section is required in the XML file only if survey results are being submitted for the patient. If survey results are not being submitted for the patient, the <patientresponse> section should not be submitted. This patient response element should only occur once per patient.					
	None	N/A	N/A	NA	N/A	Yes
<nurse-courtesy-respect> Sub-element of patientleveldata: patientresponse	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <nurse-courtesy-respect>4</nurse-courtesy-respect>**					
	None	Question 1: Nurses courtesy and respect	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			
<nurse-listen> Sub-element of patientleveldata: patientresponse	Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <nurse-listen>4</nurse-listen>**					
	None	Question 2: Nurses listen.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<nurse-explain> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <nurse-explain>4</nurse-explain>**				
	None	Question 3: Nurses explain.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			
<call-button> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <call-button>4</call-button>**				
	None	Question 4: Call button.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			9 - I never pressed the call button			
			M - Missing/Don't know			
<dr-courtesy-respect> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <dr-courtesy-respect>4</dr-courtesy-respect>**				
	None	Question 5: Doctors courtesy and respect.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<dr-listen> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <dr-listen>4</dr-listen>**				
	None	Question 6: Doctors listen.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			
<dr-explain> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <dr-explain>4</dr-explain>**				
	None	Question 7: Doctors explain.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			
<cleanliness> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <cleanliness>4</cleanliness>**				
	None	Question 8: Cleanliness.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<quiet> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <quiet>4</quiet>**				
	None	Question 9: Quiet.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			M - Missing/Don't know			
<bathroom-screener> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <bathroom-screener>1</bathroom-screener>**				
	None	Question 10: Bathroom (screener 1).	1 - Yes	Alphanumeric Character	1	Yes
			2 - No			
			M - Missing/Don't know			
<bathroom-help> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <bathroom-help>4</bathroom-help>**				
	None	Question 11: Bathroom help.	1 - Never	Alphanumeric Character	1	Yes
			2 - Sometimes			
			3 - Usually			
			4 - Always			
			8 - Not applicable			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<new-med-screener> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <new-med-screener>1</new-med-screener>**				
	None	Question 12: New meds (screener 2).	1 - Yes 2 - No M - Missing/Don't know	Alphanumeric Character	1	Yes
<med-for> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <med-for>4</med-for>**				
	None	Question 13: Medicine for.	1 - Never 2 - Sometimes 3 - Usually 4 - Always 8 - Not applicable M - Missing/Don't know	Alphanumeric Character	1	Yes
<side-effects> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <side-effects>4</side-effects>**				
	None	Question 14: Side effects.	1 - Never 2 - Sometimes 3 - Usually 4 - Always 8 - Not applicable M - Missing/Don't know	Alphanumeric Character	1	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<discharge-screener> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <discharge-screener>1</discharge-screener>**				
	None	Question 15: Discharge (screener 3).	1 - Own home	Alphanumeric Character	1	Yes
			2 - Someone else's home			
			3 - Another health facility			
			M - Missing/Don't know			
<help-after-discharge> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <help-after-discharge>1</help-after-discharge>**				
	None	Question 16: Help after discharge.	1 - Yes	Alphanumeric Character	1	Yes
			2 - No			
			8 - Not applicable			
			M - Missing/Don't know			
<symptoms> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <symptoms>1</symptoms>**				
	None	Question 17: Symptoms.	1 - Yes	Alphanumeric Character	1	Yes
			2 - No			
			8 - Not applicable			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<overall-rate> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <overall-rate>5</overall-rate>**				
	None	Question 18: Overall rating.	0 - Worst hospital possible	Alphanumeric Character	2	Yes
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10 - Best hospital possible			
			M - Missing/Don't know			
<recommend> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <recommend>4</recommend>**				
	None	Question 19: Recommend.	1 - Definitely no	Alphanumeric Character	1	Yes
			2 - Probably no			
			3 - Probably yes			
			4 - Definitely yes			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<ct-preferences> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <ct-preferences>4</ct-preferences>**				
	None	Question 20: Preferences in deciding health care needs.	1 - Strongly disagree	Alphanumeric Character	1	Yes
			2 - Disagree			
			3 - Agree			
			4 - Strongly agree			
			M - Missing/Don't know			
<ct-understanding> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <ct-understanding>4</ct-understanding>**				
	None	Question 21: Understanding of responsibility in managing health.	1 - Strongly disagree	Alphanumeric Character	1	Yes
			2 - Disagree			
			3 - Agree			
			4 - Strongly agree			
			M - Missing/Don't know			
<ct-purpose-med> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <ct-purpose-med>4</ct-purpose-med>**				
	None	Question 22: Purpose for taking medications.	1 - Strongly disagree	Alphanumeric Character	1	Yes
			2 - Disagree			
			3 - Agree			
			4 - Strongly agree			
			5 - I was not given any medication when I left the hospital			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<er-admission> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <er-admission>4</er-admission>**				
	None	Question 23: Admitted through the emergency room.	1 - Yes	Alphanumeric Character	1	Yes
			2 - No			
			M - Missing/Don't know			
<overall-health> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <overall-health>4</overall-health>**				
	None	Question 24: Overall health.	1 - Excellent	Alphanumeric Character	1	Yes
			2 - Very good			
			3 - Good			
			4 - Fair			
			5 - Poor			
			M - Missing/Don't know			
<mental-health> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <mental-health>4</mental-health>**				
	None	Question 25: Mental health.	1 - Excellent	Alphanumeric Character	1	Yes
			2 - Very good			
			3 - Good			
			4 - Fair			
			5 - Poor			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<education\> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: \<education\>4\</education\>**				
	None	Question 26: Education.	1 - 8th grade or less	Alphanumeric Character	1	Yes
			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			
\<ethnic\> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: \<ethnic\>1\</ethnic\>**				
	None	Question 27: Ethnicity.	1 - No, not Spanish/Hispanic/Latino	Alphanumeric Character	1	Yes
			2 - Yes, Puerto Rican			
			3 - Yes, Mexican, Mexican American, Chicano			
			4 - Yes, Cuban			
			5 - Yes, other Spanish/Hispanic/Latino			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<race-white> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <race-white>1</race-white>** If the check box for the race '**White**' is selected, enter value '1' for this data element If the check box for the race '**White**' is **not** selected (and at least one other check box for race is selected), enter value '0' for this data element If none of the check boxes for the race question are selected on the survey, enter the value 'M' for this data element and for all other race data elements				
	None	Question 28: Race, White.	1 - White 0 - Not White M - Missing/Don't know	Alphanumeric Character	1	Yes
<race-african-amer> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <race-african-amer>0</race-african-amer>** If the check box for the race '**Black or African-American**' is selected, enter value '1' for this data element If the check box for the race '**Black or African-American**' is not selected (and at least one other check box for race is selected), enter value '0' for this data element If none of the check boxes for the race question are selected on the survey, enter the value 'M' for this data element and for all other race data elements				
	None	Question 28: Race, African-American.	1 - Black or African-American 0 - Not Black or African-American M - Missing/Don't know	Alphanumeric Character	1	Yes
<race-asian> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <race-asian>0</race-asian>** If the check box for the race '**Asian**' is selected, enter value '1' for this data element If the check box for the race '**Asian**' is not selected (and at least one other check box for race is selected), enter value '0' for this data element If none of the check boxes for the race question are selected on the survey, enter the value 'M' for this data element and for all other race data elements				
	None	Question 28: Race, Asian.	1 - Asian 0 - Not Asian M - Missing/Don't know	Alphanumeric Character	1	Yes

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
\<race-hi-pacific-islander\> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: \<race-hi-pacific-islander\>0\</race-hi-pacific-islander\>** If the check box for the race '**Native Hawaiian or Pacific Islander**' is selected, enter value '1' for this data element If the check box for the race '**Native Hawaiian or Pacific Islander**' is not selected (and at least one other check box for race is selected), enter value '0' for this data element If none of the check boxes for the race question are selected on the survey, enter the value 'M' for this data element and for all other race data elements				
	None	Question 28: Race, Pacific Islander.	1 - Native Hawaiian or Pacific Islander	Alphanumeric Character	1	Yes
			0 - Not Native Hawaiian or Pacific Islander			
			M - Missing/Don't know			
\<race-amer-indian-ak\> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: \<race-amer-indian-ak\>0\</race-amer-indian-ak\>** If the check box for the race '**American Indian or Alaska native**' is selected, enter value '1' for this data element If the check box for the race '**American Indian or Alaska native**' is not selected (and at least one other check box for race is selected), enter value '0' for this data element If none of the check boxes for the race question are selected on the survey, enter the value 'M' for this data element and for all other race data elements				
	None	Question 28: Race, American Indian/Alaska Native.	1 - American Indian or Alaska native	Alphanumeric Character	1	Yes
			0 - Not American Indian or Alaska native			
			M - Missing/Don't know			

XML Element	Attributes	Description	Valid Values	Data Type	Max Field Size	Data Element Required
<language-speak> Sub-element of patientleveldata: patientresponse		Each element must have a closing tag that is the same as the opening tag but with a forward slash. This patient response data element should only occur once per patient. **Example: <language-speak>1</language-speak>**				
	None	Question 29: Language.	1 - English	Alphanumeric Character	1	Yes
			2 - Spanish			
			3 - Chinese			
			4 - Russian			
			5 - Vietnamese			
			6 - Portuguese			
			7 - German			
			9 - Some other language			
			M - Missing/Don't know			
</patientresponse> Closing tag for patientresponse	None	**Note:** This tag is required in the XML file, however, it contains no data. This patient response element should only occur once per patient.				
</patientleveldata> Closing tag for patientleveldata	None	**Note:** This tag is required in the XML file, however, it contains no data. This patient level data element should only occur once per patient.				
</monthlydata> Closing tag, defines the monthly survey data	None	**Note:** This tag is required in the XML file, however, it contains no data. This monthly data element should only occur once per patient.				

HCAHPS Survey
Sample XML File Layout

Sample XML File Layout without DSRS V4.4

- <monthlydata xmlns="**http://hcahps.ifmc.org**"
    xmlns:xsi="**http://www.w3.org/2021/XMLSchema-instance**">
  - <header>
      <provider-name>**Some Hospital**</provider-name>
      <provider-id>**160035**</provider-id>
      <npi>**1234567893**</npi>
      <discharge-yr>**2021**</discharge-yr>
      <discharge-month>**7**</discharge-month>
      <survey-mode>**1**/survey-mode>
      <determination-of-service-line>**1**</determination-of-service-line>
      <number-inpatient-discharge>**150**</number-inpatient-discharge>
      <number-eligible-discharge>**100**</number-eligible-discharge>
      <sample-size>**35**</sample-size>
      <sample-type>**2**</sample-type>
    </header>
  - <patientleveldata>
    - <administration>
        <provider-id>**160035**</provider-id>
        <discharge-yr>**2021**</discharge-yr>
        <discharge-month>**7**</discharge-month>
        <patient-id>**12345**</patient-id>
        <admission-source>**1**</admission-source>
        <principal-reason-admission>**3**</principal-reason-admission>
        <discharge-status>**1**</discharge-status>
        <survey-status>**1**</survey-status>
        <number-survey-attempts-mail>**1**</number-survey-attempts-mail>
        <language>**1**</language>
        <lag-time>**10**</lag-time>
        <supplemental-question-count>**4**</supplemental-question-count>
        <gender>**1**</gender>
        <patient-age>**1**</patient-age>
      </administration>
    - <patientresponse>
        <nurse-courtesy-respect>**1**</nurse-courtesy-respect>
        <nurse-listen>**1**</nurse-listen>
        <nurse-explain>**1**</nurse-explain>
        <call-button>**1**</call-button>
        <dr-courtesy-respect>**1**</dr-courtesy-respect>
        <dr-listen>**1**</dr-listen>
        <dr-explain>**1**</dr-explain>
        <cleanliness>**1**</cleanliness>
        <quiet>**1**</quiet>
        <bathroom-screener>**1**</bathroom-screener>
        <bathroom-help>**1**</bathroom-help>

```xml
        <new-med-screener>1</new-med-screener>
        <med-for>1</med-for>
        <side-effects>1</side-effects>
        <discharge-screener>1</discharge-screener>
        <help-after-discharge>1</help-after-discharge>
        <symptoms>1</symptoms>
        <overall-rate>1</overall-rate>
        <recommend>1</recommend>
        <ct-preferences>1</ct-preferences>
        <ct-understanding>1</ct-understanding>
        <ct-purpose-med>1</ct-purpose-med>
        <er-admission>1</er-admission>
        <overall-health>1</overall-health>
        <mental-health>1</mental-health>
        <education>1</education>
        <ethnic>1</ethnic>
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        <race-african-amer>0</race-african-amer>
        <race-asian>0</race-asian>
        <race-hi-pacific-islander>0</race-hi-pacific-islander>
        <race-amer-indian-ak>0</race-amer-indian-ak>
        <language-speak>1</language-speak>
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  - <patientleveldata>
    - <administration>
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        <discharge-yr>2021</discharge-yr>
        <discharge-month>7</discharge-month>
        <patient-id>24556</patient-id>
        <admission-source>1</admission-source>
        <principal-reason-admission>3</principal-reason-admission>
        <discharge-status>1</discharge-status>
        <survey-status>1</survey-status>
        <number-survey-attempts-mail>1</number-survey-attempts-mail>
        <language>1</language>
        <lag-time>10</lag-time>
        <supplemental-question-count>4</supplemental-question-count>
        <gender>1</gender>
        <patient-age>1</patient-age>
      </administration>
    - <patientresponse>
        <nurse-courtesy-respect>1</nurse-courtesy-respect>
        <nurse-listen>1</nurse-listen>
        <nurse-explain>1</nurse-explain>
```

```
          <call-button>1</call-button>
          <dr-courtesy-respect>1</dr-courtesy-respect>
          <dr-listen>1</dr-listen>
          <dr-explain>1</dr-explain>
          <cleanliness>1</cleanliness>
          <quiet>1</quiet>
          <bathroom-screener>1</bathroom-screener>
          <bathroom-help>1</bathroom-help>
          <new-med-screener>1</new-med-screener>
          <med-for>1</med-for>
          <side-effects>1</side-effects>
          <discharge-screener>1</discharge-screener>
          <help-after-discharge>1</help-after-discharge>
          <symptoms>1</symptoms>
          <overall-rate>1</overall-rate>
          <recommend>1</recommend>
          <ct-preferences>1</ct-preferences>
          <ct-understanding>1</ct-understanding>
          <ct-purpose-med>1</ct-purpose-med>
          <er-admission>1</er-admission>
          <overall-health>1</overall-health>
          <mental-health>1</mental-health>
          <education>1</education>
          <ethnic>1</ethnic>
          <race-white>1</race-white>
          <race-african-amer>0</race-african-amer>
          <race-asian>0</race-asian>
          <race-hi-pacific-islander>0</race-hi-pacific-islander>
          <race-amer-indian-ak>0</race-amer-indian-ak>
          <language-speak>1</language-speak>
        </patientresponse>
      </patientleveldata>
   </monthlydata>
```

HCAHPS Survey
Sample XML File Layout

Sample XML File Layout with DSRS V4.4

```
- <monthlydata xmlns="http://hcahps.ifmc.org"
     xmlns:xsi="http://www.w3.org/2021/XMLSchema-instance">
  - <header>
      <provider-name>Some Hospital</provider-name>
      <provider-id>160035</provider-id>
      <npi>1234567893</npi>
      <discharge-yr>2021</discharge-yr>
      <discharge-month>7</discharge-month>
      <survey-mode>1</survey-mode>
      <determination-of-service-line>1</determination-of-service-line>
      <number-inpatient-discharge>900</number-inpatient-discharge>
      <number-eligible-discharge>700</number-eligible-discharge>
      <sample-size>600</sample-size>
      <sample-type>3</sample-type>
    - <dsrs-strata>
        <strata-name>strata one</strata-name>
        <dsrs-inpatient>300</dsrs-inpatient>
        <dsrs-eligible>250</dsrs-eligible>
        <dsrs-samplesize>240</dsrs-samplesize>
      </dsrs-strata>
    - <dsrs-strata>
        <strata-name>strata two</strata-name>
        <dsrs-inpatient>315</dsrs-inpatient>
        <dsrs-eligible>240</dsrs-eligible>
        <dsrs-samplesize>240</dsrs-samplesize>
      </dsrs-strata>
    - <dsrs-strata>
        <strata-name>strata three</strata-name>
        <dsrs-inpatient>270</dsrs-inpatient>
        <dsrs-eligible>210</dsrs-eligible>
        <dsrs-samplesize>120</dsrs-samplesize>
      </dsrs-strata>
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    - <administration>
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        <discharge-yr>2021</discharge-yr>
        <discharge-month>7</discharge-month>
        <patient-id>12345</patient-id>
        <admission-source>1</admission-source>
        <principal-reason-admission>3</principal-reason-admission>
        <discharge-status>1</discharge-status>
        <strata-name>strata one</strata-name>
        <survey-status>1</survey-status>
```

HCAHPS Survey
Sample XML File Layout

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            <number-survey-attempts-mail>1</number-survey-attempts-mail>
            <language>1</language>
            <lag-time>10</lag-time>
            <supplemental-question-count>4</supplemental-question-count>
            <gender>1</gender>
            <patient-age>1</patient-age>
        </administration>
    - <patientresponse>
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            <nurse-listen>1</nurse-listen>
            <nurse-explain>1</nurse-explain>
            <call-button>1</call-button>
            <dr-courtesy-respect>1</dr-courtesy-respect>
            <dr-listen>1</dr-listen>
            <dr-explain>1</dr-explain>
            <cleanliness>1</cleanliness>
            <quiet>1</quiet>
            <bathroom-screener>1</bathroom-screener>
            <bathroom-help>1</bathroom-help>
            <new-med-screener>1</new-med-screener>
            <med-for>1</med-for>
            <side-effects>1</side-effects>
            <discharge-screener>1</discharge-screener>
            <help-after-discharge>1</help-after-discharge>
            <symptoms>1</symptoms>
            <overall-rate>1</overall-rate>
            <recommend>1</recommend>
            <ct-preferences>1</ct-preferences>
            <ct-understanding>1</ct-understanding>
            <ct-purpose-med>1</ct-purpose-med>
            <er-admission>1</er-admission>
            <overall-health>1</overall-health>
            <mental-health>1</mental-health>
            <education>1</education>
            <ethnic>1</ethnic>
            <race-white>1</race-white>
            <race-african-amer>0</race-african-amer>
            <race-asian>0</race-asian>
            <race-hi-pacific-islander>0</race-hi-pacific-islander>
            <race-amer-indian-ak>0</race-amer-indian-ak>
            <language-speak>1</language-speak>
        </patientresponse>
    </patientleveldata>
  - <patientleveldata>
    - <administration>
            <provider-id>160035</provider-id>
```

HCAHPS Survey
Sample XML File Layout

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<discharge-yr>2021/discharge-yr>
<discharge-month>7</discharge-month>
<patient-id>22256</patient-id>
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<principal-reason-admission>3</principal-reason-admission>
<discharge-status>1</discharge-status>
<strata-name>strata two</strata-name>
<survey-status>1</survey-status>
<number-survey-attempts-mail>1</number-survey-attempts-mail>
<language>1</language>
<lag-time>10</lag-time>
<supplemental-question-count>4</supplemental-question-count>
<gender>1</gender>
<patient-age>1</patient-age>
</administration>
- <patientresponse>
<nurse-courtesy-respect>1</nurse-courtesy-respect>
<nurse-listen>1</nurse-listen>
<nurse-explain>1</nurse-explain>
<call-button>1</call-button>
<dr-courtesy-respect>1</dr-courtesy-respect>
<dr-listen>1</dr-listen>
<dr-explain>1</dr-explain>
<cleanliness>1</cleanliness>
<quiet>1</quiet>
<bathroom-screener>1</bathroom-screener>
<bathroom-help>1</bathroom-help>
<new-med-screener>1</new-med-screener>
<med-for>1</med-for>
<side-effects>1</side-effects>
<discharge-screener>1</discharge-screener>
<help-after-discharge>1</help-after-discharge>
<symptoms>1</symptoms>
<overall-rate>1</overall-rate>
<recommend>1</recommend>
<ct-preferences>1</ct-preferences>
<ct-understanding>1</ct-understanding>
<ct-purpose-med>1</ct-purpose-med>
<er-admission>1</er-admission>
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<ethnic>1</ethnic>
<race-white>1</race-white>
<race-african-amer>0</race-african-amer>
<race-asian>0</race-asian>
```

```
        <race-hi-pacific-islander>0</race-hi-pacific-islander>
        <race-amer-indian-ak>0</race-amer-indian-ak>
        <language-speak>1</language-speak>
      </patientresponse>
   </patientleveldata>
 - <patientleveldata>
    - <administration>
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        <discharge-month>7</discharge-month>
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        <principal-reason-admission>3</principal-reason-admission>
        <discharge-status>1</discharge-status>
        <strata-name>strata three</strata-name>
        <survey-status>1</survey-status>
        <number-survey-attempts-mail>1</number-survey-attempts-mail>
        <language>1</language>
        <supplemental-question-count>4</supplemental-question-count>
        <gender>1</gender>
        <patient-age>1</patient-age>
      </administration>
    - <patientresponse>
        <nurse-courtesy-respect>1</nurse-courtesy-respect>
        <nurse-listen>1</nurse-listen>
        <nurse-explain>1</nurse-explain>
        <call-button>1</call-button>
        <dr-courtesy-respect>1</dr-courtesy-respect>
        <dr-listen>1</dr-listen>
        <dr-explain>1</dr-explain>
        <cleanliness>1</cleanliness>
        <quiet>1</quiet>
        <bathroom-screener>1</bathroom-screener>
        <bathroom-help>1</bathroom-help>
        <new-med-screener>1</new-med-screener>
        <med-for>1</med-for>
        <side-effects>1</side-effects>
        <discharge-screener>1</discharge-screener>
        <help-after-discharge>1</help-after-discharge>
        <symptoms>1</symptoms>
        <overall-rate>1</overall-rate>
        <recommend>1</recommend>
        <ct-preferences>1</ct-preferences>
        <ct-understanding>1</ct-understanding>
        <ct-purpose-med>1</ct-purpose-med>
        <er-admission>1</er-admission>
```

```
        <overall-health>1</overall-health>
        <mental-health>1</mental-health>
        <education>1</education>
        <ethnic>1</ethnic>
        <race-white>1</race-white>
        <race-african-amer>0</race-african-amer>
        <race-asian>0</race-asian>
        <race-hi-pacific-islander>0</race-hi-pacific-islander>
        <race-amer-indian-ak>0</race-amer-indian-ak>
        <language-speak>1</language-speak>
      </patientresponse>
    </patientleveldata>
  </monthlydata>
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