

**HF Cohort Surveillance****Heart Failure Hospital Record Abstraction Form****Data set name: C19HFAA1****Instructions:** The Heart Failure Hospital Record Abstraction Form is completed for heart failure-eligible Community Surveillance hospitalizations.

<i>HFAA0A</i>		<i>Hospital Code Number</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131	Present	Text suppressed

<i>HFAA0C</i>		<i>Date of discharge (for nonfatal case) or death:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131	Range	01/03/2005 - 12/31/2019

<i>HFAA0D</i>		<i>What was the disposition of the patient on discharge?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9522	A	Alive [skip to Q1]
608	D	Deceased
1		Missing

<i>HFAA0D1</i>		<i>Discharged To Home/Routine Discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1186	N	No/Not reported
2365	Y	Yes
6580		Missing

<i>HFAA0D2</i>		<i>Discharged To Home Health Care</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2887	N	No/Not reported
664	Y	Yes
6580		Missing

<i>HFAA0D3</i>		<i>Discharged/Transferred To Short-Term Care Facility</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3260	N	No/Not reported
291	Y	Yes
6580		Missing

**HF Cohort Surveillance**

<i>HFAA0D4</i>		<i>Discharged To Outpatient Rehabilitation Services/Home Physical Therapy</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3367	N	No/Not reported
184	Y	Yes
6580		Missing

<i>HFAA0D5</i>		<i>Discharged/Transferred To Long-Term Care Facility</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2883	N	No/Not reported
668	Y	Yes
6580		Missing

<i>HFAA0D6</i>		<i>Discharged To Hospice Care (Inpatient Or Outpatient)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3409	N	No/Not reported
142	Y	Yes
6580		Missing

<i>HFAA0D7</i>		<i>Left Against Medical Advice</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3545	N	No/Not reported
6	Y	Yes
6580		Missing

<i>HFAA0D8</i>		<i>Alive, Disposition Not Stated</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3515	N	No/Not reported
36	Y	Yes
6580		Missing

<i>HFAA0D9</i>		<i>Disposition Not Stated</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3539	N	No/Not reported
12	Y	Yes
6580		Missing

**HF Cohort Surveillance**

<i>HFAA0E</i>		<i>Was An Autopsy Performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
528	N	No
6	Y	Yes
9597		Missing

<i>HFAA0F</i>		<i>Was The Patient Either Dead On Arrival Or Did He/She Die In The ER?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
534	N	No
9597		Missing

<i>HFAA0G</i>		<i>Was The Patient On Comfort Care Or Hospice Care During This Hospitalization?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3499	N	No/Unknown
251	Y	Yes
6381		Missing

<i>HFAA0H</i>		<i>Was The Patient A DNR During This Hospitalization?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2852	N	No/Unknown
898	Y	Yes
6381		Missing

<i>HFAA10A</i>		<i>Q10a - Asthma</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8692	N	No/NR
1024	Y	Yes
415		Missing

<i>HFAA10B</i>		<i>Q10b - Chronic bronchitis/COPD</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6478	N	No/NR
3237	Y	Yes
416		Missing

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<i>HFAA10C</i>		<i>Q10c - Other chronic lung disease</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9287	N	No/NR
428	Y	Yes
416		Missing

<i>HFAA10D</i>		<i>Q10d - Pulmonary embolus</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9355	N	No/NR
360	Y	Yes
416		Missing

<i>HFAA10E</i>		<i>Q10e - Coughing, phlegm, wheezing</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8621	N	No/NR
1094	Y	Yes
416		Missing

<i>HFAA10F</i>		<i>Q10f. Sleep apnea</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8351	N	No/NR
1363	Y	Yes
417		Missing

<i>HFAA11A</i>		<i>Q11a - Angina</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7993	N	No/NR
1721	Y	Yes
417		Missing

<i>HFAA11B1</i>		<i>Q11b1- Arrhythmia: Atrial fibrillation/atrial flutter</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5747	N	No/NR
3968	Y	Yes
416		Missing

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<i>HFAA11B2</i>		<i>Q11b2- Arrhythmia: Heart block or other bradycardia</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8645	N	No/NR
1070	Y	Yes
416		Missing

<i>HFAA11B3</i>		<i>Q11b3- Arrhythmia: Ventricular fibrillation or tachycardia</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9259	N	No/NR
456	Y	Yes
416		Missing

<i>HFAA11C</i>		<i>Q11c - Infectious/Bacterial Endocarditis (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
707	N	No/NR
4	Y	Yes
9420		Missing

<i>HFAA11D</i>		<i>Q11d - Cardiac Arrest (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
697	N	No/NR
14	Y	Yes
9420		Missing

<i>HFAA11E1</i>		<i>Q11e1- Cardiac Procedures: CABG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7675	N	No/NR
2040	Y	Yes
416		Missing

<i>HFAA11E2</i>		<i>Q11e2- Cardiac Procedures: PCI</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7774	N	No/NR
1940	Y	Yes
417		Missing

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HFAA11E3		Q11e3- Cardiac Procedures: Valve surgery
N	Value	Description
9014	N	No/NR
701	Y	Yes
416		Missing

HFAA11E4		Q11e4- Cardiac Procedures: Pacemaker
N	Value	Description
7932	N	No/NR
1783	Y	Yes
416		Missing

HFAA11E5		Q11e5- Cardiac Procedures: Defibrillator
N	Value	Description
8836	N	No/NR
875	Y	Yes
420		Missing

HFAA11F		Q11f - Congenital Heart Disease (removed from current form version)
N	Value	Description
710	N	No/NR
1	Y	Yes
9420		Missing

HFAA11G		Q11g - Coronary heart disease (within year)
N	Value	Description
8576	N	No/NR
1138	Y	Yes [skip to Q11j]
417		Missing

HFAA11H		Q11h - Coronary heart disease (ever)
N	Value	Description
4056	N	No/NR
4520	Y	Yes
1555		Missing

**HF Cohort Surveillance**

HFAA11I		Q11i - Electrocardioversion/Defibrillation (removed from current form version)
N	Value	Description
676	N	No/NR
35	Y	Yes
9420		Missing

HFAA11J		Q11j - Cardio History: Hypertension
N	Value	Description
996	N	No/NR
8718	Y	Yes
417		Missing

HFAA11K		Q11k - Myocardial infarction
N	Value	Description
7195	N	No/NR
2519	Y	Yes
417		Missing

HFAA11L		Q11l - Pulmonary hypertension
N	Value	Description
8235	N	No/NR
1478	Y	Yes
418		Missing

HFAA11M		Q11m - Peripheral vascular disease
N	Value	Description
8156	N	No/NR
1558	Y	Yes
417		Missing

HFAA11N		Q11n - Rheumatic Heart Disease (removed from current form version)
N	Value	Description
708	N	No/NR
3	Y	Yes
9420		Missing

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<i>HFAA110</i>		<i>Q11o - Cardio History: Valvular Heart Disease</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7171	N	No/NR
2541	Y	Yes
419		Missing

<i>HFAA12A</i>		<i>Q12a - Diabetes</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4770	N	No/NR
4945	Y	Yes
416		Missing

<i>HFAA12B</i>		<i>Q12b - Hyperlipidemia (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
366	N	No/NR
345	Y	Yes
9420		Missing

<i>HFAA12C</i>		<i>Q12c - Liver Disease (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
699	N	No/NR
11	Y	Yes
9421		Missing

<i>HFAA13A</i>		<i>Q13a - Dialysis</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8962	N	No/NR
753	Y	Yes
416		Missing

<i>HFAA14A</i>		<i>Q14a - Stroke/TIA</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7485	N	No/NR
2229	Y	Yes
417		Missing



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HFAA14B		Q14b - Depression (remove from current form version)
N	Value	Description
7986	N	No/NR
1729	Y	Yes
416		Missing

HFAA15		Q15 - Other Significant Medical Condition (removed from current form version)
N	Value	Description
220	Present	Text suppressed
9911		Missing

HFAA16A		Q16a - Precipitating Factor: Postpartum State (removed from current form version)
N	Value	Description
603	N	No/NR
9528		Missing

HFAA16B		Q16b - Precipitating Factor: Excess Alcohol Intake (removed from current form version)
N	Value	Description
600	N	No/NR
3	Y	Yes
9528		Missing

HFAA16C		Q16c - Precipitating Factor: Excess Fluid Intake/Administration (removed from current form version)
N	Value	Description
586	N	No/NR
17	Y	Yes
9528		Missing

HFAA16D		Q16d - Precipitating Factor: Noncompliance With Diet
N	Value	Description
6279	N	No/NR
167	Y	Yes
3685		Missing

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<i>HFAA16E</i>		<i>Q16e - Precipitating Factor: Noncompliance With Medication</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6195	N	No/NR
251	Y	Yes
3685		Missing

<i>HFAA16F</i>		<i>Q16f - Precipitating Factor: Infection (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
547	N	No/NR
56	Y	Yes
9528		Missing

<i>HFAA16G</i>		<i>Q16g - Precipitating Factor: Pneumonia (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5670	N	No/NR
776	Y	Yes
3685		Missing

<i>HFAA16H</i>		<i>Q16h - Precipitating Factor: Infectious/ Bacterial Endocarditis (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
603	N	No/NR
9528		Missing

<i>HFAA16I</i>		<i>Q16i - Precipitating Factor: Pulmonary Embolus (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
590	N	No/NR
12	Y	Yes
9529		Missing

<i>HFAA16J</i>		<i>Q16j - Precipitating Factor: Angina</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6142	N	No/NR
304	Y	Yes
3685		Missing

**HF Cohort Surveillance**

HFAA16K		Q16k - Precipitating Factor: Atrial Fibrillation/Flutter
N	Value	Description
5803	N	No/NR
643	Y	Yes
3685		Missing

HFAA16L		Q16l - Precipitating Factor: Heart Block (removed from current form version)
N	Value	Description
597	N	No/NR
6	Y	Yes
9528		Missing

HFAA16M		Q16m - Precipitating Factor: Ventricular Fibrillation/Flutter (removed from current form version)
N	Value	Description
599	N	No/NR
4	Y	Yes
9528		Missing

HFAA16N		Q16n - Precipitating Factor: Cardiac Arrest (removed from current form version)
N	Value	Description
596	N	No/NR
7	Y	Yes
9528		Missing

HFAA16O		Q16o - Precipitating Factor: MI (removed from current form version)
N	Value	Description
588	N	No/NR
15	Y	Yes
9528		Missing

HFAA16P		Q16p - Precipitating Factor: Valvular Heart Disease (removed from current form version)
N	Value	Description
594	N	No/NR
9	Y	Yes
9528		Missing

**HF Cohort Surveillance**

HFAA16Q		Q16q - Precipitating Factor: Stroke/TIA (removed from current form version)
N	Value	Description
594	N	No/NR
9	Y	Yes
9528		Missing

HFAA16R		Q16r - Was Angina or Myocardial infarction listed as a precipitating factor (i.e. precipitated the onset of this event)?
N	Value	Description
3008	N	No/NR
257	Y	Yes
6866		Missing

HFAA17A		Q17a - Blood Pressure: At hospital admission (or at onset of event)
N	Value	Description
9475	Range	0 - 290 ( median=137 mean=138.6 std=31.6 )
656		Missing

HFAA17B		Q17b - Blood Pressure (mmHg): At hospital admission (or at onset of event)
N	Value	Description
9390	Range	0 - 178 ( median=72 mean=73.8 std=18.7 )
741		Missing

HFAA17C		Q17c - Blood Pressure: At hospital discharge (or last recorded)
N	Value	Description
694	Range	0 - 258 ( median=130 mean=129.3 std=30.1 )
9437		Missing

HFAA17D		Q17d - Blood Pressure (mmHg): At hospital discharge (or last recorded)
N	Value	Description
693	Range	0 - 170 ( median=67 mean=66.9 std=16.1 )
9438		Missing

HFAA18A		Q18a - Heart Rate (bpm) At hospital admission (or at onset of event)
N	Value	Description
9531	Range	0 - 209 ( median=82 mean=85.4 std=22.2 )
600		Missing

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<i>HFAA19A</i>		<i>Q19a - Height At hospital admission (or at onset of event)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8658	Range	36 - 194 ( median=66 mean=70.6 std=21.8 )
1473		Missing

<i>HFAA19A1</i>		<i>Q19a1- Height (cm/in) At hospital admission (or at onset of event)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
396	C	cm
8248	I	in
1487		Missing

<i>HFAA1A</i>		<i>Increasing Or New Onset Shortness Of Breath</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3531	N	No/Not Recorded
6600	Y	Yes

<i>HFAA1B</i>		<i>Increasing Or New Onset Edema</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5707	N	No/Not Recorded
4423	Y	Yes
1		Missing

<i>HFAA1C</i>		<i>Increasing Or New Onset Paroxysmal Nocturnal Dyspnea</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9412	N	No/Not Recorded
718	Y	Yes
1		Missing

<i>HFAA1D</i>		<i>Increasing Or New Onset Orthopnea</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8653	N	No/Not Recorded
1477	Y	Yes
1		Missing

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<i>HFAA1E</i>		<i>Increasing Or New Onset Hypoxia</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6906	N	No/Not Recorded
3223	Y	Yes
2		Missing

<i>HFAA2</i>		<i>Hospitalization Reason Heart Failure From MD Notes</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6056	N	No/Not Recorded
4074	Y	Yes
1		Missing

<i>HFAA20A</i>		<i>Q20a - Weight At hospital admission (or at onset of event)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9032	Range	7.12 - 551.15 ( median=85.5 mean=102.97 std=52.91 )
1099		Missing

<i>HFAA20A1</i>		<i>Q20a1- Weight (lbs/kg) At hospital admission (or at onset of event)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7224	K	kg
1798	L	lb
1109		Missing

<i>HFAA20B</i>		<i>Q20b - Weight At hospital discharge (or last recorded)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6782	Range	26.9 - 423.16 ( median=84.9 mean=102.15 std=52.52 )
3349		Missing

<i>HFAA20B1</i>		<i>Q20b1- Weight (lbs/kg) At hospital discharge (or last recorded)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5441	K	kg
1329	L	lb
3361		Missing

**HF Cohort Surveillance**

<i>HFAA21A</i>		<i>Q21a - Respiration Rate At hospital admission (or at onset of event) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
586	Range	0 - 73 ( median=20 mean=21.2 std=6.9 )
9545		Missing

<i>HFAA21B</i>		<i>Q21b - Respiration Rate At hospital discharge (or last recorded) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
563	Range	0 - 110 ( median=20 mean=19.6 std=6.8 )
9568		Missing

<i>HFAA22A</i>		<i>Q22a - Lower extremity edema</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3814	N	No/NR
3625	Y	Yes
2692		Missing

<i>HFAA22A1</i>		<i>Q22a1- Lower Extremity Edema At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
559	N	No/NR
44	Y	Yes
9528		Missing

<i>HFAA22B</i>		<i>Q22b - Jugular venous distension (JVD)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6170	N	No/NR
1272	Y	Yes
2689		Missing

<i>HFAA22B1</i>		<i>Q22b1- Jugular Venous Distention At Discharge (removed from current version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
596	N	No/NR
7	Y	Yes
9528		Missing

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<i>HFAA22C</i>		<i>Q22c - Hepatojugular reflux</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7358	N	No/NR
83	Y	Yes
2690		Missing

<i>HFAA22D</i>		<i>Q22d - Hepatomegaly</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7372	N	No/NR
69	Y	Yes
2690		Missing

<i>HFAA22E</i>		<i>Q22e - Leg fatigue on walking</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7356	N	No/NR
85	Y	Yes
2690		Missing

<i>HFAA23A</i>		<i>Cough</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4666	N	No/NR
2776	Y	Yes
2689		Missing

<i>HFAA23A1</i>		<i>Q23a1 - Cough At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
573	N	No/NR
30	Y	Yes
9528		Missing

<i>HFAA23B</i>		<i>Dyspnea (Rest)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2748	N	No/NR
4693	Y	Yes
2690		Missing



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<i>HFAA23B1</i>		<i>Q23b1 - Dyspnea (Rest) At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
529	N	No/NR
26	Y	Yes
9576		Missing

<i>HFAA23C</i>		<i>Dyspnea (Walking)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2548	N	No/NR
4847	Y	Yes
2736		Missing

<i>HFAA23C1</i>		<i>Q23c1 - Dyspnea (Walking) At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
511	N	No/NR
41	Y	Yes
9579		Missing

<i>HFAA23D</i>		<i>Dyspnea (Climbing Or Exertion)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2278	N	No/NR
5117	Y	Yes
2736		Missing

<i>HFAA23D1</i>		<i>Q23d1 - Dyspnea (Climbing/Exertion) At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
499	N	No/NR
54	Y	Yes
9578		Missing

<i>HFAA23E</i>		<i>Stops For Breath When Walking</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2591	N	No/NR
4804	Y	Yes
2736		Missing

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<i>HFAA23E1</i>		<i>Q23e1 - Stops Breath Walking At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
513	N	No/NR
40	Y	Yes
9578		Missing

<i>HFAA23F</i>		<i>Q23f - Stops for breath after 100 yards</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2599	N	No/NR
4796	Y	Yes
2736		Missing

<i>HFAA23G</i>		<i>Q23g - Ronchi</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5806	N	No/NR
1629	Y	Yes
2696		Missing

<i>HFAA23H</i>		<i>Q23h - Paroxysmal nocturnal dyspnea</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6863	N	No/NR
579	Y	Yes
2689		Missing

<i>HFAA23H1</i>		<i>Q23h1 - Paroxysmal Nocturnal Dyspnea At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
590	N	No/NR
13	Y	Yes
9528		Missing

<i>HFAA23I</i>		<i>Q23i - Orthopnea</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6227	N	No/NR
1213	Y	Yes
2691		Missing

**HF Cohort Surveillance**

<i>HFAA23I1</i>		<i>Q23i1 - Orthopnea At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
583	N	No/NR
20	Y	Yes
9528		Missing

<i>HFAA23J</i>		<i>Q23j - Pulmonary basilar rales</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5469	N	No/NR
1972	Y	Yes
2690		Missing

<i>HFAA23J1</i>		<i>Q23j1 - Pulmonary Basilar Rales At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
579	N	No/NR
24	Y	Yes
9528		Missing

<i>HFAA23K</i>		<i>Q23k - Rales (More Than Basilar)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5865	N	No/NR
1575	Y	Yes
2691		Missing

<i>HFAA23K1</i>		<i>Q23k1 - Rales (More Than Basilar) At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
595	N	No/NR
8	Y	Yes
9528		Missing

<i>HFAA23L</i>		<i>Q23l - Wheezing</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5241	N	No/NR
2196	Y	Yes
2694		Missing

**HF Cohort Surveillance**

HFAA23L1		Q23/1 - Wheezing At Discharge (removed from current form version)
N	Value	Description
590	N	No/NR
13	Y	Yes
9528		Missing

HFAA23M		Q23m - Vital Capacity (Decrs. 1/3) (removed from current form version)
N	Value	Description
592	N	No/NR
11	Y	Yes
9528		Missing

HFAA24A		Q24a - S3 (Gallop)
N	Value	Description
7280	N	No/NR
159	Y	Yes
2692		Missing

HFAA24A1		Q24a1 - S3 (Gallop) At Discharge (removed from current form version)
N	Value	Description
600	N	No/NR
3	Y	Yes
9528		Missing

HFAA24B		Q24b - S4 (Gallop) During Hospitalization (removed from current form version)
N	Value	Description
693	N	No/NR
18	Y	Yes
9420		Missing

HFAA24B1		Q24b1 - S4 (Gallop) At Discharge (removed from current form version)
N	Value	Description
602	N	No/NR
1	Y	Yes
9528		Missing

**HF Cohort Surveillance**

<i>HFAA24C</i>		<i>Q24c - Chest Pain During Hospitalization</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6030	N	No/NR
1410	Y	Yes
2691		Missing

<i>HFAA24C1</i>		<i>Q24c1 - Chest Pain At Discharge (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
600	N	No/NR
2	Y	Yes
9529		Missing

<i>HFAA24D</i>		<i>Q24d - NYHA Class (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	1	
2	2	
15	3	
6	4	
578	N	
9529		Missing

<i>HFAA25</i>		<i>Q25 - Electrocardiogram Performed During Hosp (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
426	N	No/NR
2557	Y	Yes
7148		Missing

<i>HFAA26A</i>		<i>Q26a - MI (Age Undetermined) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
483	N	No/NR
108	Y	Yes
9540		Missing

**HF Cohort Surveillance**

HFAA26B		Q26b - Ischemic Changes Or ST-T Changes (removed from current form version)
N	Value	Description
421	N	No/NR
170	Y	Yes
9540		Missing

HFAA26C		Q26c - Atrial Fibrillation / Atrial Flutter (removed from current form version)
N	Value	Description
1746	N	No/NR
811	Y	Yes
7574		Missing

HFAA26C1		Q26c1 - On Telemetry (removed from current form version)
N	Value	Description
1666	N	No/NR
81	Y	Yes
8384		Missing

HFAA26D		Q26d - Left Ventricular Hypertrophy (removed from current form version)
N	Value	Description
512	N	No/NR
78	Y	Yes
9541		Missing

HFAA26E		Q26e - Left Bundle Branch Block (removed from current form version)
N	Value	Description
2309	N	No/NR
249	Y	Yes
7573		Missing

HFAA26F		Q26f - Ventricular Tachycardia (removed from current form version)
N	Value	Description
2510	N	No/NR
48	Y	Yes
7573		Missing

**HF Cohort Surveillance**

HFAA26F1		Q26f1 - On Telemetry (removed from current form version)
N	Value	Description
2429	N	No/NR
76	Y	Yes
7626		Missing

HFAA27		Q27 - Was a chest X-ray performed during this hospitalization?:
N	Value	Description
1266	N	No/NR [skip to Q29]
8447	Y	Yes
418		Missing

HFAA28A		Q28a - Alveolar Infiltrates (removed from current form version)
N	Value	Description
444	N	No/Unknown
156	Y	Yes
9531		Missing

HFAA28B		Q28b - Alveolar/pulmonary edema
N	Value	Description
7344	N	No/Unknown
1097	Y	Yes
1690		Missing

HFAA28C		Q28c - Interstitial pulmonary edema
N	Value	Description
6327	N	No/Unknown
2115	Y	Yes
1689		Missing

HFAA28D		Q28d - Cardiomegaly
N	Value	Description
3470	N	No/Unknown
4976	Y	Yes
1685		Missing

**HF Cohort Surveillance**

<i>HFAA28E</i>		<i>Q28e - Cephalization/upper zone redistribution</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8306	N	No/Unknown
134	Y	Yes
1691		Missing

<i>HFAA28F</i>		<i>Q28f - Congestive Heart Failure (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
499	N	No/Unknown
102	Y	Yes
9530		Missing

<i>HFAA28G</i>		<i>Q28g - Bilateral pleural effusion</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6305	N	No/Unknown
2141	Y	Yes
1685		Missing

<i>HFAA28H</i>		<i>Q28h - Unilateral pleural effusion</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7272	N	No/Unknown
1172	Y	Yes
1687		Missing

<i>HFAA28I</i>		<i>Q28i - Pulmonary Vascular Congestion (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
479	N	No/Unknown
122	Y	Yes
9530		Missing

<i>HFAA28J</i>		<i>Q28j - Kerley B Lines (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
559	N	No/Unknown
2	Y	Yes
9570		Missing



**HF Cohort Surveillance**

HFAA28K		Q28k - Cardiothoracic ratio = 0.5
N	Value	Description
8436	N	No/Unknown
6	Y	Yes
1689		Missing

HFAA28L		Q28l - Congestive heart failure/ Pulmonary vascular congestion
N	Value	Description
5377	N	No/Unknown
2469	Y	Yes
2285		Missing

HFAA29		Q29 - Was a transthoracic echocardiogram performed?
N	Value	Description
3962	N	No/Unknown [skip to Q30]
5753	Y	Yes [skip to skip Q30]
416		Missing

HFAA29A		Q29a - Date
N	Value	Description
5560	Range	01/06/2005 - 12/29/2019
4571		Missing

HFAA29B		Q29b - Ejection fraction (%)
N	Value	Description
5631	Range	5 - 85 ( median=50 mean=45.9 std=15.8 )
4500		Missing

HFAA29C		Q29c - Wall thickness:septal
N	Value	Description
4798	Range	0.24 - 94 ( median=1.2 mean=2.82 std=4.73 )
5333		Missing

**HF Cohort Surveillance**

<i>HFAA29C1</i>		<i>Q29c1 - Wall thickness:septal (cm/mm)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4100	1	cm
671	2	mm
1	C	Data entry error
5359		Missing

<i>HFAA29C2</i>		<i>Q29c2 - Wall thickness:posterior</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4791	Range	0 - 103 ( median=1.2 mean=2.65 std=4.49 )
5340		Missing

<i>HFAA29C3</i>		<i>Q29c3 - Wall thickness:posterior (cm/mm)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4088	1	cm
674	2	mm
1	C	Data entry error
5368		Missing

<i>HFAA29D1</i>		<i>Q29d1 - Left ventricular hypertrophy (LVH)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
720	D	Moderate
1596	E	None
1780	M	Mild
997	N	NR
448	P	Present
171	S	Severe
4419		Missing

**HF Cohort Surveillance**

<i>HFAA29D10</i>		<i>Q29d10- Pulmonary hypertension</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1094	D	Moderate
437	E	None
800	M	Mild
2659	N	NR
151	P	Present
534	S	Severe
4456		Missing

<i>HFAA29D11</i>		<i>Q29d11- Regional wall motion abnormality</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4182	N	No/Unknown/NR
1529	Y	Yes
4420		Missing

<i>HFAA29D12</i>		<i>Q29d12- Dilated left ventricle</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4698	N	No/Unknown/NR
1011	Y	Yes
4422		Missing

<i>HFAA29D13</i>		<i>Q29d13- Dilated right ventricle</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4559	N	No/Unknown/NR
1148	Y	Yes
4424		Missing

<i>HFAA29D14</i>		<i>Q29d14- Diastolic dysfunction</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4056	N	No/Unknown/NR
1657	Y	Yes
4418		Missing

**HF Cohort Surveillance**

<i>HFAA29D2</i>		<i>Q29d2 - Impaired LV systolic function</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
567	D	Moderate
2891	E	None
407	M	Mild
665	N	NR
237	P	Present
952	S	Severe
4412		Missing

<i>HFAA29D3</i>		<i>Q29d3 - Impaired RV systolic function</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
225	D	Moderate
3519	E	None
296	M	Mild
1429	N	NR
158	P	Present
78	S	Severe
4426		Missing

<i>HFAA29D4</i>		<i>Q29d4 - Aortic regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
384	D	Moderate
2997	E	None
1126	M	Mild
1151	N	NR
30	P	Present
24	S	Severe
4419		Missing

**HF Cohort Surveillance**

<i>HFAA29D5</i>		<i>Q29d5 - Aortic stenosis</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
330	D	Moderate
3627	E	None
495	M	Mild
995	N	NR
52	P	Present
214	S	Severe
4418		Missing

<i>HFAA29D6</i>		<i>Q29d6 - Tricuspid regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1524	D	Moderate
1083	E	None
2034	M	Mild
503	N	NR
35	P	Present
542	S	Severe
4410		Missing

<i>HFAA29D7</i>		<i>Q29d7 - Mitral regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1481	D	Moderate
1304	E	None
2074	M	Mild
489	N	NR
26	P	Present
348	S	Severe
4409		Missing

**HF Cohort Surveillance**

<i>HFAA29D8</i>		<i>Q29d8 - Mitral stenosis</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
73	D	Moderate
3913	E	None
193	M	Mild
1472	N	NR
39	P	Present
16	S	Severe
4425		Missing

<i>HFAA29D9</i>		<i>Q29d9 - Estimated RVSP/PASP: (mmHg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4057	Range	0 - 125 ( median=45 mean=47.0 std=15.4 )
6074		Missing

<i>HFAA29D9A</i>		<i>Q29d9a- TR jet velocity: (m/s)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2896	Range	0.152 - 294 ( median=2.9635 mean=3.13352 std=5.54637 )
7235		Missing

<i>HFAA3</i>		<i>Is This A Cohort Participant?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
44	N	No/Not Recorded
10087	Y	Yes

<i>HFAA30</i>		<i>Transesophageal Echocardiogram Performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8632	N	No/NR [skip to Q31]
260	Y	Yes
1239		Missing

<i>HFAA30A</i>		<i>Q30a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
258	Range	03/24/2005 - 11/12/2019
9873		Missing

**HF Cohort Surveillance**

<i>HFAA30B</i>		<i>Q30b - Ejection fraction (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
198	Range	10 - 71 ( median=50 mean=45.1 std=15.1 )
9933		Missing

<i>HFAA30C1</i>		<i>Q30c1 - Impaired LV systolic function</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
26	D	Moderate
128	E	None
18	M	Mild
36	N	NR
7	P	Present
43	S	Severe
9873		Missing

<i>HFAA30C2</i>		<i>Q30c2 - Impaired RV systolic function</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
16	D	Moderate
123	E	None
17	M	Mild
93	N	NR
6	P	Present
3	S	Severe
9873		Missing

<i>HFAA30C3</i>		<i>Q30c3 - Regional wall motion abnormality</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
229	N	No/Unknown/NR
29	Y	Yes
9873		Missing

<i>HFAA30C4</i>		<i>Q30c4 - Dilated left ventricle</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
233	N	No/Unknown/NR
25	Y	Yes
9873		Missing

**HF Cohort Surveillance**

<i>HFAA30C5</i>		<i>Q30c5 - Dilated right ventricle</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
226	N	No/Unknown/NR
32	Y	Yes
9873		Missing

<i>HFAA31</i>		<i>Q31 - Was a right cardiac catheterization performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7251	N	No/NR [skip to Q32]
187	Y	Yes
2693		Missing

<i>HFAA31A</i>		<i>Q31a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
185	Range	02/28/2001 - 09/16/2016
9946		Missing

<i>HFAA31B1</i>		<i>Q31b1 - Rt.Cath Measures:rt Atrial Pressure (Mean) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
18	Range	-2 - 75 ( median=11.5 mean=16.50 std=21.20 )
10113		Missing

<i>HFAA31B2</i>		<i>Q31b2 - Rt.Cath Measures:pulmonary Arterial Pressure (Value) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
18	Range	3 - 110 ( median=43.5 mean=46.00 std=26.53 )
10113		Missing

<i>HFAA31B2A</i>		<i>Q31b2a- Rt.Cath Measures:pulmonary Arterial Pressure - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
18	Present	Text suppressed
10113		Missing

<i>HFAA31B3</i>		<i>Q31b3 - Rt.Cath Measures:pulmonary Wedge Pressure (Unit) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
17	Range	1 - 35 ( median=16 mean=17.8 std=10.5 )
10114		Missing



**HF Cohort Surveillance**

<i>HFAA31B4</i>		<i>Q31b4 - Rt.Cath Measures:cardiac Output - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
14	Range	0.6 - 6.8 ( median=4.2 mean=4.14 std=1.89 )
10117		Missing

<i>HFAA31B5</i>		<i>Q31b5 - Rt.Cath Measures:cardiac Index - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
13	Range	1.5 - 3.5 ( median=2.64 mean=2.405 std=0.630 )
10118		Missing

<i>HFAA32</i>		<i>Q32 - Was coronary angiography performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8602	N	Yes
1112	Y	No/NR [ <i>skip to Q33</i> ]
417		Missing

<i>HFAA32A</i>		<i>Q32a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1052	Range	10/23/1996 - 12/16/2019
9079		Missing

<i>HFAA32B1</i>		<i>Q32b1 - Ejection Fraction</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
429	Range	2 - 85 ( median=40 mean=41.6 std=16.4 )
9702		Missing

**HF Cohort Surveillance**

<i>HFAA32B2A</i>		<i>Q32b2a- Left Main</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
484	A	0%
157	B	1-24%
90	C	25-49%
74	D	50-74%
53	E	75-94%
18	F	95-99%
24	G	100%
195	N	NR
9036		Missing

<i>HFAA32B2B</i>		<i>Q32b2b - Left anterior descending artery and branches:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
134	A	0%
135	B	1-24%
133	C	25-49%
158	D	50-74%
200	E	75-94%
55	F	95-99%
220	G	100%
66	N	NR
9030		Missing

<i>HFAA32B2C</i>		<i>Q32b2c- Left circumflex/marginal artery:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
207	A	0%
165	B	1-24%
97	C	25-49%
155	D	50-74%
140	E	75-94%
76	F	95-99%
161	G	100%
99	N	NR
9031		Missing

**HF Cohort Surveillance**

HFAA32B2D		Q32b2d- Right coronary artery and branches:
N	Value	Description
158	A	0%
128	B	1-24%
120	C	25-49%
124	D	50-74%
142	E	75-94%
92	F	95-99%
246	G	100%
91	N	NR
9030		Missing

HFAA32B2E		Q32b2e- Intermediate ramus:
N	Value	Description
78	A	0%
21	B	1-24%
13	C	25-49%
13	D	50-74%
22	E	75-94%
8	F	95-99%
44	G	100%
884	N	NR
9048		Missing

HFAA32B3		Q32b3 - Were coronary bypass grafts present?
N	Value	Description
855	N	No/NR [skip to Q33]
254	Y	Yes
9022		Missing

HFAA32B3A		Q32b3a- Number Of Occluded Grafts
N	Value	Description
249	Range	0 - 3 ( median=0 mean=0.7 std=0.9 )
9882		Missing

**HF Cohort Surveillance**

<i>HFAA32B4</i>		<i>Q32b4 - Mitral Regurgitation (removed from current version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4	D	Moderate
11	E	None
1	M	Mild
36	N	NR
3	S	Severe
10076		Missing

<i>HFAA33</i>		<i>Q33 - Was a cardiac radionuclide ventriculogram performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7398	N	No/NR [skip to Q34]
42	Y	Yes
2691		Missing

<i>HFAA33A</i>		<i>Q33a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
41	Range	12/23/2004 - 04/04/2014
10090		Missing

<i>HFAA33B</i>		<i>Q33b - Ejection fraction: LV</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
33	Range	20 - 85 ( median=46 mean=47.6 std=16.8 )
10098		Missing

<i>HFAA33C</i>		<i>Q33c - RV: (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131		Missing

<i>HFAA34</i>		<i>Q34 - Was a cardiac Magnetic Resonance Imaging (MRI) performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7425	N	No/NR
15	Y	Yes
2691		Missing

**HF Cohort Surveillance**

<i>HFAA34A</i>		<i>Q34a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
15	Range	01/03/2008 - 05/26/2016
10116		Missing

<i>HFAA34B</i>		<i>Q34b - Ejection fraction: LV:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
15	Range	10 - 72 ( median=33 mean=37.0 std=21.3 )
10116		Missing

<i>HFAA34C</i>		<i>Q34c - RV: (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	19	
1	35	
1	51	
10128		Missing

<i>HFAA35</i>		<i>Q35 - Was a cardiac CT scan performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7412	N	No/NR
27	Y	Yes
2692		Missing

<i>HFAA35A</i>		<i>Q35a - Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
25	Range	04/03/2005 - 03/15/2016
10106		Missing

<i>HFAA35B</i>		<i>Q35b - Ejection fraction: LV</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6	Range	21 - 80 ( median=53 mean=52.7 std=21.5 )
10125		Missing

**HF Cohort Surveillance**

<i>HFAA35C</i>		<i>Q35c - RV (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	51	
10130		Missing

<i>HFAA36</i>		<i>Q36 - Was a stress test performed?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7179	N	No/NR
261	Y	Yes
2691		Missing

<i>HFAA36A</i>		<i>Q36a - Stress Test Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
260	Range	01/13/2005 - 12/14/2016
9871		Missing

<i>HFAA36B</i>		<i>Q36b - Stress Test Result (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9	A	Abnormal
4	F	Diagnostic
8	N	Normal
10110		Missing

<i>HFAA36C</i>		<i>Q36c - LV: (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
223	Range	9 - 99 ( median=52 mean=49.4 std=18.0 )
9908		Missing

<i>HFAA37A</i>		<i>Q37a - Hemoglobin (g/dL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9538	Range	1.3 - 33.9 ( median=10.4 mean=10.39 std=2.22 )
593		Missing

**HF Cohort Surveillance**

<i>HFAA37B</i>		<i>Q37b - Hemoglobin (g/dL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9538	Range	2.8 - 38.1 ( median=10.9 mean=11.05 std=1.96 )
593		Missing

<i>HFAA38A</i>		<i>Q38a - Hematocrit (%) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9446	Range	4 - 69.6 ( median=32 mean=31.9 std=6.4 )
685		Missing

<i>HFAA38B</i>		<i>Q38b - Hematocrit (%) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9440	Range	7.4 - 61.6 ( median=33.6 mean=33.85 std=5.52 )
691		Missing

<i>HFAA39A</i>		<i>Q39a - BNP (pg/mL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4134	Range	2.2 - 31603 ( median=613 mean=1085.9 std=1475.0 )
5997		Missing

<i>HFAA39B</i>		<i>Q39b - BNP (pg/mL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4111	Range	2.2 - 31603 ( median=539 mean=981.6 std=1416.9 )
6020		Missing

<i>HFAA39C</i>		<i>Q39c - BNP (pg/mL) Upper Limit Normal</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4095	Range	0 - 1800 ( median=100 mean=107.4 std=98.3 )
6036		Missing

<i>HFAA3A</i>		<i>Does This Cohort Hospitalization Have A 428 Code?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
591	N	No/Not Recorded
3037	Y	Yes
6503		Missing

**HF Cohort Surveillance**

<i>HFAA40A</i>		<i>Q40a - ProBNP (pg/mL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1766	Range	6 - 305000 ( median=4794 mean=10695.0 std=18465.8 )
8365		Missing

<i>HFAA40B</i>		<i>Q40b - ProBNP (pg/mL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1764	Range	6 - 305000 ( median=4166.5 mean=9669.39 std=17421.85 )
8367		Missing

<i>HFAA40C</i>		<i>Q40c - ProBNP (pg/mL) Upper Limit Normal</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1782	Range	0.035 - 1801 ( median=900 mean=1140.5 std=664.0 )
8349		Missing

<i>HFAA41A</i>		<i>Q41a - Troponin T (ng/mL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1124	Range	0 - 352 ( median=0.031 mean=1.0969 std=14.2647 )
9007		Missing

<i>HFAA41B</i>		<i>Q41b - Troponin T (ng/mL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1113	Range	0 - 352 ( median=0.03 mean=1.125 std=14.453 )
9018		Missing

<i>HFAA41C</i>		<i>Q41c - Troponin T (ng/mL) Upper Limit Normal</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1254	Range	0 - 100 ( median=0.03 mean=0.333 std=4.935 )
8877		Missing

<i>HFAA42A</i>		<i>Q42a - Troponin I (ng/mL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5694	Range	0 - 476.67 ( median=0.049 mean=1.6287 std=12.6655 )
4437		Missing



**HF Cohort Surveillance**

<i>HFAA42B</i>		<i>Q42b - Troponin I (ng/mL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5695	Range	0 - 217.13 ( median=0.04 mean=1.050 std=7.616 )
4436		Missing

<i>HFAA42C</i>		<i>Q42c - Troponin I (ng/mL) Upper Limit Normal</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5697	Range	0.009 - 135 ( median=0.3 mean=0.63 std=5.00 )
4434		Missing

<i>HFAA43A</i>		<i>Q43a - Sodium (mEq/L) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9480	Range	103 - 172 ( median=136 mean=135.9 std=4.6 )
651		Missing

<i>HFAA43B</i>		<i>Q43b - Sodium (mEq/L) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9479	Range	103 - 173 ( median=139 mean=138.4 std=4.1 )
652		Missing

<i>HFAA44A</i>		<i>Q44a - Serum creatinine (mg/dL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5142	Range	0.4 - 20 ( median=1.6 mean=2.23 std=1.92 )
4989		Missing

<i>HFAA44B</i>		<i>Q44b - Serum creatinine (mg/dL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5142	Range	0.3 - 20 ( median=1.3 mean=1.85 std=1.64 )
4989		Missing

<i>HFAA45A</i>		<i>Q45a - BUN (mg/dL) Worst</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9501	Range	2 - 273 ( median=33 mean=39.6 std=24.9 )
630		Missing

**HF Cohort Surveillance**

<i>HFAA45B</i>		<i>Q45b - BUN (mg/dL) Last</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9494	Range	2 - 201 ( median=26 mean=31.4 std=20.5 )
637		Missing

<i>HFAA46</i>		<i>Q46 - Interventions:cardiac (Electrophysiologic) Ablation Therapy (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
706	N	No/NR
4	Y	Yes
9421		Missing

<i>HFAA47</i>		<i>Q47 - Interventions:implantable Cardiac Defibrillator (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
693	N	No/NR
18	Y	Yes
9420		Missing

<i>HFAA48</i>		<i>Q48 - Interventions:cardioversion (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
680	N	No/NR
30	Y	Yes
9421		Missing

<i>HFAA49</i>		<i>Q49 - Interventions:pacemaker Placement (Non-Biventricular) (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
689	N	No/NR
21	Y	Yes
9421		Missing

<i>HFAA4A</i>		<i>At The Time Of Admission To The Hospital?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3152	N	No/Not Recorded
6564	Y	Yes
415		Missing

**HF Cohort Surveillance**

HFAA4B		<i>During This Hospitalization?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3087	N	No/Not Recorded
656	Y	Yes
6388		Missing

HFAA5		<i>Q5 - Date: New/Progression Symptoms/Signs Known</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4976	Range	01/02/2005 - 12/26/2019
5155		Missing

HFAA50		<i>Q50 - Interventions:biventricular Pacemaker (CRT) (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
704	N	No/NR
6	Y	Yes
9421		Missing

HFAA51		<i>Q51 - Interventions:coronary Artery Bypass Graft (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
697	N	No/NR
13	Y	Yes
9421		Missing

HFAA52		<i>Q52 - Interventions:(PCI)/Stent (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
685	N	No/NR
25	Y	Yes
9421		Missing

HFAA53		<i>Q53 - Interventions:valve Replacement/Repair (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
701	N	No/NR
9	Y	Yes
9421		Missing

**HF Cohort Surveillance**

HFAA54		Q54 - Interventions:intra Aortic Balloon Pump (LABP) (removed from current form version)
N	Value	Description
704	N	No/NR
6	Y	Yes
9421		Missing

HFAA55		Q55 - Interventions:hemofiltration/Dialysis (removed from current form version)
N	Value	Description
617	N	No/NR
93	Y	Yes
9421		Missing

HFAA56		Q56 - Interventions:listed/Received Transplant Of Heart (removed from current form version)
N	Value	Description
708	N	No/NR
2	Y	Yes
9421		Missing

HFAA57		Q57 - Interventions:left Ventricular Assist Device (removed from current form version)
N	Value	Description
709	N	No/NR
1	Y	Yes
9421		Missing

HFAA58A		Q58a - Interventions:sodium/Cholesterol Reduction (removed from current form version)
N	Value	Description
400	N	No/NR
202	Y	Yes
9529		Missing

HFAA58B		Q58b - Interventions:tobacco Cessation (removed from current form version)
N	Value	Description
410	N	No/NR
80	Y	Yes
112	Z	
9529		Missing

**HF Cohort Surveillance**

HFAA58C		Q58c - Interventions:fluid Restriction (removed from current form version)
N	Value	Description
432	N	No/NR
170	Y	Yes
9529		Missing

HFAA59		Q59 - Ace Inhibitors Prior to hospitalization or progression in hospital
N	Value	Description
6420	N	No/NR
3280	Y	Yes
431		Missing

HFAA59A		Q59a - Ace Inhibitors At hospital discharge
N	Value	Description
6257	N	No/NR
3011	Y	Yes
863		Missing

HFAA5A		Q5a - If exact date unknown, estimate weeks prior to this hospitalization:
N	Value	Description
2165	Range	1 - 52 ( median=2 mean=2.3 std=2.2 )
7966		Missing

HFAA60		Q60 - Angiotensin II receptor blockers Prior to hospitalization or progression in hospital
N	Value	Description
8060	N	No/NR
1637	Y	Yes
434		Missing

HFAA60A		Q60a - Angiotensin II Reception Blockers At hospital discharge
N	Value	Description
7877	N	No/NR
1393	Y	Yes
861		Missing

**HF Cohort Surveillance**

<i>HFAA61A</i>		<i>Q61a - Antiarrhythmics: Amiodarone Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
648	N	No/NR
54	Y	Yes
9429		Missing

<i>HFAA61A1</i>		<i>Q61a1- Antiarrhythmics: Amiodarone At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
643	N	No/NR
52	Y	Yes
9436		Missing

<i>HFAA61B</i>		<i>Q61b - Antiarrhythmics: Other Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
686	N	No/NR
15	Y	Yes
9430		Missing

<i>HFAA61B1</i>		<i>Q61b1- Antiarrhythmics: Other At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
680	N	No/NR
14	Y	Yes
9437		Missing

<i>HFAA62</i>		<i>Q62 - Anticoagulants Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1939	N	No/NR
1037	Y	Yes
7155		Missing

<i>HFAA62A</i>		<i>Q62a - Anticoagulants At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1834	N	No/NR
987	Y	Yes
7310		Missing

**HF Cohort Surveillance**

<i>HFAA63</i>		<i>Q63 - Anti-Inflammatory Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
624	N	No/NR
36	Y	Yes
9471		Missing

<i>HFAA63A</i>		<i>Q63a - Anti-Inflammatory At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
634	N	No/NR
23	Y	Yes
9474		Missing

<i>HFAA64A</i>		<i>Q64a - Antiplatelets: Aspirin Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1366	N	No/NR
1614	Y	Yes
7151		Missing

<i>HFAA64A1</i>		<i>Q64a1- Antiplatelets: Aspirin At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1345	N	No/NR
1477	Y	Yes
7309		Missing

<i>HFAA64B</i>		<i>Q64b - Antiplatelets: Other Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2608	N	No/NR
367	Y	Yes
7156		Missing

<i>HFAA64B1</i>		<i>Q64b1- Antiplatelets: Other At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2442	N	No/NR
378	Y	Yes
7311		Missing

**HF Cohort Surveillance**

HFAA65		Q65 - Beta Blockers Prior to hospitalization or progression in hospital
N	Value	Description
3066	N	No/NR
6642	Y	Yes
423		Missing

HFAA65A		Q65a - Beta Blockers At hospital discharge
N	Value	Description
2816	N	No/NR
6463	Y	Yes
852		Missing

HFAA66		Q66 - Calcium Channel Blockers Prior to hospitalization or progression in hospital
N	Value	Description
494	N	No/NR
217	Y	Yes
9420		Missing

HFAA66A		Q66a - Calcium Channel Blockers At hospital discharge
N	Value	Description
510	N	No/NR
194	Y	Yes
9427		Missing

HFAA67		Q67 - Digitalis Prior to hospitalization or progression in hospital
N	Value	Description
8748	N	No/NR
959	Y	Yes
424		Missing

HFAA67A		Q67a - Digitalis At hospital discharge
N	Value	Description
8342	N	No/NR
935	Y	Yes
854		Missing



**HF Cohort Surveillance**

HFAA68		Q68 - Diuretics Prior to hospitalization or progression in hospital
N	Value	Description
3262	N	No/NR
6449	Y	Yes
420		Missing

HFAA68A		Q68a - Diuretics At hospital discharge
N	Value	Description
3218	N	No/NR
6065	Y	Yes
848		Missing

HFAA69		Q69 - Aldosterone Blocker Prior to hospitalization or progression in hospital
N	Value	Description
8923	N	No/NR
785	Y	Yes
423		Missing

HFAA69A		Q69a - Aldosterone Blocker At hospital discharge
N	Value	Description
8522	N	No/NR
756	Y	Yes
853		Missing

HFAA6A		Ischemic Cardiomyopathy
N	Value	Description
8323	N	No/Not recorded
1390	Y	Yes
418		Missing

HFAA6B		Idiopathic/Dilated Cardiomyopathy
N	Value	Description
9104	N	No/Not recorded
609	Y	Yes
418		Missing

**HF Cohort Surveillance**

HFAA6C		Q6c - Hypertensive HF (removed from current form version)
N	Value	Description
587	N	No/Not recorded
16	Y	Yes
9528		Missing

HFAA6D		Q6d - Hypertrophic Cardiomyopathy (removed from current form version)
N	Value	Description
599	N	No/Not recorded
4	Y	Yes
9528		Missing

HFAA6E		Q6e - Restrictive Cardiomyopathy (removed from current form version)
N	Value	Description
601	N	No/Not recorded
2	Y	Yes
9528		Missing

HFAA6F		Q6f - Infiltrative Cardiomyopathy (removed from current form version)
N	Value	Description
602	N	No/Not recorded
1	Y	Yes
9528		Missing

HFAA6G		Q6g - Cor Pulmonale (removed from current form version)
N	Value	Description
592	N	No/Not recorded
11	Y	Yes
9528		Missing

HFAA6H		Q6h - Diastolic HF (removed from current form version)
N	Value	Description
577	N	No/Not recorded
26	Y	Yes
9528		Missing

**HF Cohort Surveillance**

<i>HFAA6I</i>		<i>Q6i - Other specific cardiomyopathy/heart failure</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
593	N	No/Not recorded
10	Y	Yes
9528		Missing

<i>HFAA6J</i>		<i>Q6j - Other Cardiomyopathy/Systolic HF (removed from current version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
545	N	No/Not recorded
57	Y	Yes
9529		Missing

<i>HFAA6J1</i>		<i>Q6j1 - If Other Cardiomyopathy, Specify</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4071	Present	Text suppressed
6060		Missing

<i>HFAA6JNEW</i>		<i>Q6j - Other Specific Cardiomyopathy/Heart Failure</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5091	N	No/Not recorded
4020	Y	Yes
1020		Missing

<i>HFAA6K</i>		<i>Unknown/Not Recorded</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
483	N	No/Not recorded
678	Y	Yes
8970		Missing

<i>HFAA70A</i>		<i>Q70a - Lipid Lowering Statins Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4337	N	No/NR
5369	Y	Yes
425		Missing

**HF Cohort Surveillance**

<i>HFAA70A1</i>		<i>Q70a1- Lipid Lowering Statins At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4243	N	No/NR
5037	Y	Yes
851		Missing

<i>HFAA70B</i>		<i>Q70b - Lipid Lowering Other Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9052	N	No/NR
653	Y	Yes
426		Missing

<i>HFAA70B1</i>		<i>Q70b1 - Lipid Lowering Agents Other At Hospital Discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8681	N	No/NR
596	Y	Yes
854		Missing

<i>HFAA71</i>		<i>Q71 - Nitrates Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6912	N	No/NR
2796	Y	Yes
423		Missing

<i>HFAA71A</i>		<i>Q71a - Nitrates At hospital discharge</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6483	N	No/NR
2798	Y	Yes
850		Missing

<i>HFAA72</i>		<i>Q72 - Hydralazine Prior to hospitalization or progression in hospital</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8658	N	No/NR
1049	Y	Yes
424		Missing

**HF Cohort Surveillance**

HFAA72A		Q72a - Hydralazine
N	Value	Description
8204	N	No/NR
1073	Y	Yes
854		Missing

HFAA73A		Q73a - IV Inotropes
N	Value	Description
9381	N	No/NR
333	Y	Yes
417		Missing

HFAA73B		Q73b - IV Diuretics
N	Value	Description
4801	N	No/NR
4914	Y	Yes
416		Missing

HFAA73C		Q73c - IV Vasodilators (removed from current form version)
N	Value	Description
540	N	No/NR
63	Y	Yes
9528		Missing

HFAA73D		Q73d - IV Antiarrhythmics (removed from current form version)
N	Value	Description
577	N	No/NR
26	Y	Yes
9528		Missing

HFAA74		Q74 - Cardiac Arrest (removed from current form version)
N	Value	Description
673	N	No/NR
38	Y	Yes
9420		Missing

**HF Cohort Surveillance**

<i>HFAA75</i>		<i>Q75 - Stroke (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
701	N	No/NR
10	Y	Yes
9420		Missing

<i>HFAA76</i>		<i>Q76 - Myocardial Infarction (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
686	N	No/NR
25	Y	Yes
9420		Missing

<i>HFAA77</i>		<i>Q77 - Time Taken To Abstract (mins):</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10114	Range	1 - 999 ( median=55 mean=64.0 std=40.6 )
17		Missing

<i>HFAA78</i>		<i>Q78 - Abstractor Number</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131	Present	Text suppressed

<i>HFAA79</i>		<i>Q79 - Date Abstraction Completed</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10130	Range	01/29/2007 - 11/11/2020
1		Missing

<i>HFAA7A</i>		<i>Q7a - Diagnosis of heart failure</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2167	N	No/Not recorded
239	U	Unsure
7309	Y	Yes
416		Missing

**HF Cohort Surveillance**

<i>HFAA7B</i>		<i>Q7b - Prior hospitalization for heart failure</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2617	N	No/Not recorded
3877	U	Unsure
3221	Y	Yes
416		Missing

<i>HFAA7C</i>		<i>Q7c - Treatment for heart failure</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2281	N	No/Not recorded
1374	U	Unsure
6058	Y	Yes
418		Missing

<i>HFAA8</i>		<i>Q8 - Was cardiac imaging performed prior to this hospitalization?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
3839	N	No/Unk
5875	Y	Yes
417		Missing

<i>HFAA8A</i>		<i>Q8a - Lowest Ejection Fraction recorded:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5477	Range	1 - 91 ( median=45 mean=43.0 std=15.8 )
4654		Missing

<i>HFAA8A1</i>		<i>Q8a1 - Qualitative description:</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5	D	Decreased mildly
2	M	Decreased moderately
220	N	Normal
137	O	None of the above
5	S	Decreased severely
9762		Missing

**HF Cohort Surveillance**

<i>HFAA8B</i>		<i>Q8b - Year Of Lowest Ejection Fraction</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5314	Range	1994 - 2019 ( median=2012 mean=2011.3 std=4.3 )
4817		Missing

<i>HFAA8C</i>		<i>Q8c - Type Of Imaging</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
226	C	Cath/LV gram
4831	E	ECHO
11	M	MUGA
264	O	Other
12	R	MRI
1	T	CT
480	U	Unknown
4306		Missing

<i>HFAA9A</i>		<i>Q9a - AIDS/HIV (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
710	N	No/NR
1	Y	Yes
9420		Missing

<i>HFAA9B</i>		<i>History Of Excess Alcohol Use?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7154	N	No/NR
286	Y	Yes
2691		Missing

<i>HFAA9C</i>		<i>History Of Illicit Drug Use?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7374	N	No/NR
67	Y	Yes
2690		Missing



**HF Cohort Surveillance**

<i>HFAA9D</i>		<i>History Of Anemia?</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5169	N	No/NR
2271	Y	Yes
2691		Missing

<i>HFAA9E</i>		<i>Q9e - Cancer (Excluding Skin Cancer) - removed from current form version</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
580	N	No/NR
131	Y	Yes
9420		Missing

<i>HFAA9F</i>		<i>Q9f - Connective tissue disease</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6962	N	No/NR
478	Y	Yes
2691		Missing

<i>HFAA9G</i>		<i>Q9g - Ex-Smoker (removed from current form version)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
463	N	No/NR
248	Y	Yes
9420		Missing

<i>HFAA9H</i>		<i>Q9h - Current smoker</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6823	N	No/NR
618	Y	Yes
2690		Missing

<i>HFAA9I</i>		<i>Q9i - Thyroid disease</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5932	N	No/NR
1510	Y	Yes
2689		Missing

**HF Cohort Surveillance**

<i>HFAAFLAG</i>		<i>=1 If HFAA (Or Later Version) Is Present</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131	1	

<i>ID</i>		<i>ARIC Occurrence ID</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10131	Present	Text suppressed