

Codebook for c14hfaa1 Dataset

DATA SET: c14hfaa1

LABEL: JHS Heart Failure Abstraction Form. Created by UC738701

DATE CREATED: 21OCT17:04:11:45

Number of Observations: 2211

Number of Variables: 345

Organization of file: Summary of Participants

| Variable Name | Variable Label (VAR) | VAR Type | VAR Format | VAR Length | Mean | Range of Values | Frequency Category | Frequency | Percent |
|---------------|--|----------|------------|------------|----------|-------------------|--------------------|-----------|---------|
| ID | SURVEILLANCE ID | Char | \$ | 7 | | - | | | |
| HFAA6J1 | j.1. If other cardiomyopathy, specify | Char | \$ | 75 | | - | | | |
| HFAA15 | HFA15. Other significant medical condition | Char | \$ | 50 | | - | | | |
| HFAA0C | QOC - Date of discharge or death | Num | MMDDYY | 8 | 07/31/10 | 01/06/05-12/31/14 | | 2211 | 100.00 |
| HFAA0D | Patient disposition at discharge | Char | \$ | 1 | | - | | 1 | 0.05 |
| | | | | | | A | | 2102 | 95.07 |
| | | | | | | D | | 108 | 4.88 |
| HFAA1A | Increasing or new onset shortness of breath | Char | \$ | 1 | | N | | 753 | 34.06 |
| | | | | | | Y | | 1458 | 65.94 |
| HFAA1B | Increasing or new onset edema | Char | \$ | 1 | | - | | 1 | 0.05 |
| | | | | | | N | | 1294 | 58.53 |
| | | | | | | Y | | 916 | 41.43 |
| HFAA1C | Increasing or new onset paroxysmal nocturnal dyspnea | Char | \$ | 1 | | N | | 1951 | 88.24 |
| | | | | | | Y | | 260 | 11.76 |
| HFAA1D | Increasing or new onset orthopnea | Char | \$ | 1 | | N | | 1776 | 80.33 |
| | | | | | | Y | | 435 | 19.67 |
| HFAA1E | Increasing or new onset hypoxia | Char | \$ | 1 | | N | | 1773 | 80.19 |
| | | | | | | Y | | 438 | 19.81 |
| HFAA2 | Hospitalization reason heart failure from MD notes | Char | \$ | 1 | | - | | 1 | 0.05 |
| | | | | | | N | | 1335 | 60.38 |
| | | | | | | Y | | 875 | 39.57 |
| HFAA3 | 3. Is this a cohort participant? | Char | \$ | 80 | | N | | 11 | 0.50 |
| | | | | | | Y | | 2200 | 99.50 |

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| HFAA4A | At the time of admission to the hospital? | Char | \$ | 1 | | - | | 108 | 4.88 |
| | | | | | | N | | 720 | 32.56 |
| | | | | | | Y | | 1383 | 62.55 |
| HFAA4B | During this hospitalization? | Char | \$ | 1 | | - | | 1271 | 57.49 |
| | | | | | | N | | 834 | 37.72 |
| | | | | | | Y | | 106 | 4.79 |
| HFAA5 | Q5 - Date:new/progression symptms/signs known | Num | MMDDYY | 8 | 06/16/10 | 01/01/05-10/23/16 | | 1112 | 50.29 |
| HFAA5A | Q5A - If date unkwn:est. wks prior to hosp. | Num | BEST | 8 | 1.88586957 | 1.00-8.00 | | 368 | 16.64 |
| HFAA6A | Ischemic cardiomyopathy | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1912 | 86.48 |
| | | | | | | Y | | 189 | 8.55 |
| HFAA6B | Idiopathic/dilated cardiomyopathy | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1887 | 85.35 |
| | | | | | | Y | | 214 | 9.68 |
| HFAA6JNEW | Q6J - MD/disch.sum:Other cardiomyopathy/systolic HF | Char | \$ | 1 | | - | | 345 | 15.60 |
| | | | | | | N | | 1206 | 54.55 |
| | | | | | | Y | | 660 | 29.85 |
| HFAA7A | Prior history of diagnosis of heart failure? | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 444 | 20.08 |
| | | | | | | U | | 56 | 2.53 |
| | | | | | | Y | | 1602 | 72.46 |
| HFAA7B | Prior history of hospitalization for heart failure? | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 767 | 34.69 |
| | | | | | | U | | 675 | 30.53 |
| | | | | | | Y | | 660 | 29.85 |

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| HFAA7C | Prior history of treatment for heart failure? | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 580 | 26.23 |
| | | | | | | U | | 346 | 15.65 |
| | | | | | | Y | | 1176 | 53.19 |
| HFAA8 | Cardiac imaging prior to hospitalization? | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1154 | 52.19 |
| | | | | | | Y | | 948 | 42.88 |
| HFAA8A | Q8A - Cardiac imaging lowest Ejection Fraction recorded | Num | BEST | 8 | 40.0476758 | 1.00-87.00 | | 839 | 37.95 |
| HFAA8A1 | Qualitative description | Char | \$ | 1 | | - | | 2155 | 97.47 |
| | | | | | | N | | 12 | 0.54 |
| | | | | | | O | | 44 | 1.99 |
| HFAA8B | Q8B - Year of lowest ejection fraction | Num | | 8 | 2009.38339 | 2000.00-2015.00 | | 819 | 37.04 |
| HFAA8C | Type of imaging | Char | \$ | 1 | | - | | 1287 | 58.21 |
| | | | | | | C | | 40 | 1.81 |
| | | | | | | E | | 741 | 33.51 |
| | | | | | | M | | 3 | 0.14 |
| | | | | | | O | | 23 | 1.04 |
| | | | | | | U | | 117 | 5.29 |
| HFAA10A | Asthma | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1854 | 83.85 |
| | | | | | | Y | | 248 | 11.22 |
| HFAA10B | Chronic bronchitis/COPD | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1726 | 78.06 |
| | | | | | | Y | | 376 | 17.01 |
| HFAA10C | Other chronic lung disease | Char | \$ | 1 | | - | | 109 | 4.93 |

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| | | | | | | N | | 2025 | 91.59 |
| | | | | | | Y | | 77 | 3.48 |
| HFAA10D | Pulmonary embolus | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 2038 | 92.18 |
| | | | | | | Y | | 64 | 2.89 |
| HFAA10E | Coughing, phlegm, wheezing | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1921 | 86.88 |
| | | | | | | Y | | 181 | 8.19 |
| HFAA10F | Sleep apnea | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1811 | 81.91 |
| | | | | | | Y | | 291 | 13.16 |
| HFAA11A | Angina | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1909 | 86.34 |
| | | | | | | Y | | 193 | 8.73 |
| HFAA11B1 | Arrhythmia: Atrial fibrillation/atrial flutter | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1692 | 76.53 |
| | | | | | | Y | | 410 | 18.54 |
| HFAA11B2 | Arrhythmia: Heart block or other bradycardia | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1987 | 89.87 |
| | | | | | | Y | | 115 | 5.20 |
| HFAA11B3 | Arrhythmia: Ventricular fibrillation or tachycardia | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 2007 | 90.77 |
| | | | | | | Y | | 95 | 4.30 |
| HFAA11E1 | Cardiac Procedures: CABG | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1946 | 88.01 |

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Organization of file: Summar
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| | | | | | | Y | | 156 | 7.06 |
| HFAA11E2 | Cardiac Procedures: PCI | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1948 | 88.10 |
| | | | | | | Y | | 154 | 6.97 |
| HFAA11E3 | Cardiac Procedures: Valve surgery | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 2031 | 91.86 |
| | | | | | | Y | | 71 | 3.21 |
| HFAA11E4 | Cardiac Procedures: Pacemaker | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1879 | 84.98 |
| | | | | | | Y | | 223 | 10.09 |
| HFAA11E5 | Cardiac Procedures: Defibrillator | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1958 | 88.56 |
| | | | | | | Y | | 143 | 6.47 |
| HFAA11G | Coronary heart disease (within year) | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1914 | 86.57 |
| | | | | | | Y | | 188 | 8.50 |
| HFAA11H | Coronary heart disease (ever) | Char | \$ | 1 | | - | | 296 | 13.39 |
| | | | | | | N | | 1147 | 51.88 |
| | | | | | | Y | | 768 | 34.74 |
| HFAA11J | Hypertension | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 195 | 8.82 |
| | | | | | | Y | | 1907 | 86.25 |
| HFAA11K | Myocardial infarction | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1766 | 79.87 |
| | | | | | | Y | | 336 | 15.20 |

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| HFAA11L | Pulmonary hypertension | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1911 | 86.43 |
| | | | | | | Y | | 191 | 8.64 |
| HFAA11M | Peripheral vascular disease | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1921 | 86.88 |
| | | | | | | Y | | 181 | 8.19 |
| HFAA11O | Valvular heart disease | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1884 | 85.21 |
| | | | | | | Y | | 218 | 9.86 |
| HFAA12A | Gastrointestinal/Endocrine: Diabetes | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 839 | 37.95 |
| | | | | | | Y | | 1262 | 57.08 |
| HFAA13A | Renal: Dialysis | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1810 | 81.86 |
| | | | | | | Y | | 291 | 13.16 |
| HFAA14A | Neurology: Stroke/TIA | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1696 | 76.71 |
| | | | | | | Y | | 406 | 18.36 |
| HFAA14B | Neurology: Depression | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1934 | 87.47 |
| | | | | | | Y | | 168 | 7.60 |
| HFAA16D | Noncompliance with diet | Char | \$ | 1 | | - | | 921 | 41.66 |
| | | | | | | N | | 1236 | 55.90 |
| | | | | | | Y | | 54 | 2.44 |
| HFAA16E | Noncompliance with medication | Char | \$ | 1 | | - | | 921 | 41.66 |

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| | | | | | | N | | 1171 | 52.96 |
| | | | | | | Y | | 119 | 5.38 |
| HFAA16G | Pneumonia | Char | \$ | 1 | | - | | 921 | 41.66 |
| | | | | | | N | | 1213 | 54.86 |
| | | | | | | Y | | 77 | 3.48 |
| HFAA16J | Angina/Myocardial infarction | Char | \$ | 1 | | - | | 921 | 41.66 |
| | | | | | | N | | 1258 | 56.90 |
| | | | | | | Y | | 32 | 1.45 |
| HFAA16K | Atrial fibrillation/flutter | Char | \$ | 1 | | - | | 921 | 41.66 |
| | | | | | | N | | 1246 | 56.35 |
| | | | | | | Y | | 44 | 1.99 |
| HFAA17A | Q17A - Blood pressure: hosp admis (or onset) | Num | BEST | 8 | 144.053486 | 0.00-290.00 | | 2094 | 94.71 |
| HFAA17B | Q17B - Blood pressure: hosp admis (or onset) | Num | BEST | 8 | 77.8861244 | 0.00-206.00 | | 2090 | 94.53 |
| HFAA18A | Q18A - Heart Rate at admission | Num | BEST | 8 | 85.8891543 | 0.00-209.00 | | 2093 | 94.66 |
| HFAA19A | Q19A - Height at admission (value) | Num | BEST | 8 | 70.0088889 | 50.00-196.00 | | 1764 | 79.78 |
| HFAA19A1 | Admission height units of measure | Char | \$ | 1 | | - | | 447 | 20.22 |
| | | | | | | C | | 55 | 2.49 |
| | | | | | | I | | 1709 | 77.30 |
| HFAA20A | Q20A - Weight at admission (value) | Num | BEST | 8 | 144.851774 | 32.20-522.50 | | 2020 | 91.36 |
| HFAA20A1 | Weight units of measure at hospital admission (or at onset of event) | Char | \$ | 1 | | - | | 191 | 8.64 |
| | | | | | | K | | 1028 | 46.49 |
| | | | | | | L | | 992 | 44.87 |
| HFAA20B | Q20B - Weight at discharge (value) | Num | BEST | 8 | 153.120471 | 34.00-513.00 | | 1421 | 64.27 |

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| HFAA20B1 | Weight units of measure at hospital admission (or at onset of event) | Char | \$ | 1 | | - | | 795 | 35.96 |
| | | | | | | K | | 618 | 27.95 |
| | | | | | | L | | 798 | 36.09 |
| HFAA25 | Q25 - Electrocardiogram performed during hosp | Char | \$ | 1 | | - | | 1952 | 88.29 |
| | | | | | | N | | 37 | 1.67 |
| | | | | | | Y | | 222 | 10.04 |
| HFAA26C | Q26C - Atrial fibrillation / atrial flutter | Char | \$ | 1 | | - | | 1988 | 89.91 |
| | | | | | | N | | 194 | 8.77 |
| | | | | | | Y | | 29 | 1.31 |
| HFAA26C1 | Q26C1 - On telemetry | Char | \$ | 1 | | - | | 2017 | 91.23 |
| | | | | | | N | | 187 | 8.46 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA26E | Q26E - Left bundle branch block | Char | \$ | 1 | | - | | 1988 | 89.91 |
| | | | | | | N | | 198 | 8.96 |
| | | | | | | Y | | 25 | 1.13 |
| HFAA26F | Q26F - Ventricular tachycardia | Char | \$ | 1 | | - | | 1988 | 89.91 |
| | | | | | | N | | 214 | 9.68 |
| | | | | | | Y | | 9 | 0.41 |
| HFAA26F1 | Q26F1 - On telemetry | Char | \$ | 1 | | - | | 1997 | 90.32 |
| | | | | | | N | | 207 | 9.36 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA27 | Chest X-ray during this hospitalization? | Char | \$ | 1 | | - | | 115 | 5.20 |
| | | | | | | N | | 231 | 10.45 |
| | | | | | | Y | | 1865 | 84.35 |

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| HFAA28B | Alveolar/pulmonary edema | Char | \$ | 1 | | - | | 340 | 15.38 |
| | | | | | | N | | 1604 | 72.55 |
| | | | | | | Y | | 267 | 12.08 |
| HFAA28C | Interstitial pulmonary edema | Char | \$ | 1 | | - | | 340 | 15.38 |
| | | | | | | N | | 1374 | 62.14 |
| | | | | | | Y | | 497 | 22.48 |
| HFAA28D | Cardiomegaly | Char | \$ | 1 | | - | | 340 | 15.38 |
| | | | | | | N | | 727 | 32.88 |
| | | | | | | Y | | 1144 | 51.74 |
| HFAA28E | Cephalization/upper zone redistribution | Char | \$ | 1 | | - | | 340 | 15.38 |
| | | | | | | N | | 1779 | 80.46 |
| | | | | | | Y | | 92 | 4.16 |
| HFAA28G | Bilateral pleural effusion | Char | \$ | 1 | | - | | 339 | 15.33 |
| | | | | | | N | | 1573 | 71.14 |
| | | | | | | Y | | 299 | 13.52 |
| HFAA28H | Unilateral pleural effusion | Char | \$ | 1 | | - | | 339 | 15.33 |
| | | | | | | N | | 1652 | 74.72 |
| | | | | | | Y | | 220 | 9.95 |
| HFAA28K | Cardiothoracic ratio = 0.5 | Char | \$ | 1 | | - | | 339 | 15.33 |
| | | | | | | N | | 1869 | 84.53 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA28L | Congestive heart failure/ Pulmonary vascular congestion | Char | \$ | 1 | | - | | 566 | 25.60 |
| | | | | | | N | | 1168 | 52.83 |
| | | | | | | Y | | 477 | 21.57 |
| HFAA29 | Transthoracic echocardiogram performed? | Char | \$ | 1 | | - | | 109 | 4.93 |

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| | | | | | | N | | 952 | 43.06 |
| | | | | | | Y | | 1150 | 52.01 |
| HFAA29A | Q29A - TTE:Date | Num | MMDDYY | 8 | 06/13/10 | 01/03/05-04/16/16 | | 1133 | 51.24 |
| HFAA29B | Q29B - TTE:Ejection fraction | Num | BEST | 8 | 44.5245317 | 5.00-85.00 | | 1121 | 50.70 |
| HFAA29C | Q29C - TTE:Wall thickness-Septal | Num | BEST | 8 | 4.43602083 | 0.10-26.00 | | 960 | 43.42 |
| HFAA29C1 | Wall thickness: septal: units of measure | Char | \$ | 1 | | - | | 1257 | 56.85 |
| | | | | | | 1 | | 609 | 27.54 |
| | | | | | | 2 | | 345 | 15.60 |
| HFAA29C2 | Q29C2 - TTE:Wall thickness-Posterior | Num | BEST | 8 | 4.24283767 | 0.50-36.00 | | 961 | 43.46 |
| HFAA29C3 | Wall thickness: posterior: units of measure | Char | \$ | 1 | | - | | 1257 | 56.85 |
| | | | | | | 1 | | 611 | 27.63 |
| | | | | | | 2 | | 343 | 15.51 |
| HFAA29D1 | Left ventricular hypertrophy (LVH) | Char | \$ | 1 | | - | | 1077 | 48.71 |
| | | | | | | D | | 184 | 8.32 |
| | | | | | | E | | 225 | 10.18 |
| | | | | | | M | | 258 | 11.67 |
| | | | | | | N | | 257 | 11.62 |
| | | | | | | P | | 140 | 6.33 |
| | | | | | | S | | 70 | 3.17 |
| HFAA29D2 | Impaired LV systolic function | Char | \$ | 1 | | - | | 1073 | 48.53 |
| | | | | | | D | | 89 | 4.03 |
| | | | | | | E | | 492 | 22.25 |
| | | | | | | M | | 59 | 2.67 |
| | | | | | | N | | 223 | 10.09 |
| | | | | | | P | | 83 | 3.75 |

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| | | | | | | S | | 192 | 8.68 |
| HFAA29D3 | Impaired RV systolic function | Char | \$ | 1 | | - | | 1079 | 48.80 |
| | | | | | | D | | 13 | 0.59 |
| | | | | | | E | | 504 | 22.80 |
| | | | | | | M | | 27 | 1.22 |
| | | | | | | N | | 524 | 23.70 |
| | | | | | | P | | 56 | 2.53 |
| | | | | | | S | | 8 | 0.36 |
| HFAA29D4 | Aortic regurgitation | Char | \$ | 1 | | - | | 1072 | 48.48 |
| | | | | | | D | | 70 | 3.17 |
| | | | | | | E | | 553 | 25.01 |
| | | | | | | M | | 166 | 7.51 |
| | | | | | | N | | 329 | 14.88 |
| | | | | | | P | | 7 | 0.32 |
| | | | | | | S | | 14 | 0.63 |
| HFAA29D5 | Aortic stenosis | Char | \$ | 1 | | - | | 1075 | 48.62 |
| | | | | | | D | | 28 | 1.27 |
| | | | | | | E | | 684 | 30.94 |
| | | | | | | M | | 56 | 2.53 |
| | | | | | | N | | 323 | 14.61 |
| | | | | | | P | | 19 | 0.86 |
| | | | | | | S | | 26 | 1.18 |
| HFAA29D6 | Tricuspid regurgitation | Char | \$ | 1 | | - | | 1071 | 48.44 |
| | | | | | | D | | 258 | 11.67 |
| | | | | | | E | | 221 | 10.00 |
| | | | | | | M | | 392 | 17.73 |
| | | | | | | N | | 149 | 6.74 |

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| | | | | | | P | | 11 | 0.50 |
| | | | | | | S | | 109 | 4.93 |
| HFAA29D7 | Mitral regurgitation | Char | \$ | 1 | | - | | 1070 | 48.39 |
| | | | | | | D | | 200 | 9.05 |
| | | | | | | E | | 322 | 14.56 |
| | | | | | | M | | 378 | 17.10 |
| | | | | | | N | | 166 | 7.51 |
| | | | | | | P | | 5 | 0.23 |
| | | | | | | S | | 70 | 3.17 |
| HFAA29D8 | Mitral stenosis | Char | \$ | 1 | | - | | 1075 | 48.62 |
| | | | | | | D | | 15 | 0.68 |
| | | | | | | E | | 629 | 28.45 |
| | | | | | | M | | 27 | 1.22 |
| | | | | | | N | | 444 | 20.08 |
| | | | | | | P | | 15 | 0.68 |
| | | | | | | S | | 6 | 0.27 |
| HFAA29D9 | Q29D9 - TTE:Estimated RVSP/PASP | Num | BEST | 8 | 47.7618026 | 10.00-125.00 | | 932 | 42.15 |
| HFAA29D9A | Q29D9A- TTE:TR jet velocity | Num | BEST | 8 | 2.76755484 | 0.80-8.60 | | 155 | 7.01 |
| HFAA29D10 | Pulmonary hypertension | Char | \$ | 1 | | - | | 1103 | 49.89 |
| | | | | | | D | | 84 | 3.80 |
| | | | | | | E | | 88 | 3.98 |
| | | | | | | M | | 22 | 1.00 |
| | | | | | | N | | 798 | 36.09 |
| | | | | | | P | | 28 | 1.27 |
| | | | | | | S | | 88 | 3.98 |
| HFAA29D11 | Regional wall motion abnormality | Char | \$ | 1 | | - | | 1074 | 48.58 |

Codebook for c14hfaa1 Dataset

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DATE CREATED: 21OCT17:04:11:45

Number of Observations: 2211

Number of Variables: 345

Organization of file: Summary of Participants

| Variable Name | Variable Label (VAR) | VAR Type | VAR Format | VAR Length | Mean | Range of Values | Frequency Category | Frequency | Percent |
|---------------|---|----------|------------|------------|------------|-------------------|--------------------|-----------|---------|
| | | | | | | N | | 888 | 40.16 |
| | | | | | | Y | | 249 | 11.26 |
| HFAA29D12 | Dilated left ventricle | Char | \$ | 1 | | - | | 1073 | 48.53 |
| | | | | | | N | | 882 | 39.89 |
| | | | | | | Y | | 256 | 11.58 |
| HFAA29D13 | Dilated right ventricle | Char | \$ | 1 | | - | | 1073 | 48.53 |
| | | | | | | N | | 946 | 42.79 |
| | | | | | | Y | | 192 | 8.68 |
| HFAA29D14 | Diastolic dysfunction | Char | \$ | 1 | | - | | 1074 | 48.58 |
| | | | | | | N | | 908 | 41.07 |
| | | | | | | Y | | 229 | 10.36 |
| HFAA30 | Transesophageal echocardiogram performed? | Char | \$ | 1 | | - | | 331 | 14.97 |
| | | | | | | N | | 1863 | 84.26 |
| | | | | | | Y | | 17 | 0.77 |
| HFAA30A | Q30A - 1st TEE Date | Num | MMDDYY | 8 | 04/28/11 | 04/08/05-09/16/14 | | 17 | 0.77 |
| HFAA30B | Q30B - 1st TEE Ejection fraction | Num | BEST | 8 | 43.3571429 | 15.00-71.00 | | 14 | 0.63 |
| HFAA30C1 | Impaired LV systolic function | Char | \$ | 1 | | - | | 2195 | 99.28 |
| | | | | | | E | | 5 | 0.23 |
| | | | | | | M | | 1 | 0.05 |
| | | | | | | N | | 1 | 0.05 |
| | | | | | | P | | 1 | 0.05 |
| | | | | | | S | | 8 | 0.36 |
| HFAA30C2 | Impaired RV systolic function | Char | \$ | 1 | | - | | 2195 | 99.28 |
| | | | | | | E | | 10 | 0.45 |
| | | | | | | M | | 1 | 0.05 |

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|---------------|--|----------|------------|------------|------------|-------------------|--------------------|-----------|---------|
| | | | | | | N | | 5 | 0.23 |
| HFAA30C3 | Regional wall motion abnormality | Char | \$ | 1 | | - | | 2195 | 99.28 |
| | | | | | | N | | 11 | 0.50 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA30C4 | Dilated left ventricle | Char | \$ | 1 | | - | | 2195 | 99.28 |
| | | | | | | N | | 11 | 0.50 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA30C5 | Dilated right ventricle | Char | \$ | 1 | | - | | 2195 | 99.28 |
| | | | | | | N | | 15 | 0.68 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA32 | Coronary angiography performed? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1930 | 87.29 |
| | | | | | | Y | | 171 | 7.73 |
| HFAA32A | Q32A - Coronary angiography:Date | Num | MMDDYY | 8 | 05/19/10 | 12/09/04-07/15/16 | | 161 | 7.28 |
| HFAA32B1 | Q32B1 - Coronary angiography:Ejection fraction | Num | BEST | 8 | 41.0131579 | 10.00-80.00 | | 76 | 3.44 |
| HFAA32B2A | Record: Left main | Char | \$ | 1 | | - | | 2047 | 92.58 |
| | | | | | | A | | 89 | 4.03 |
| | | | | | | B | | 23 | 1.04 |
| | | | | | | C | | 10 | 0.45 |
| | | | | | | D | | 3 | 0.14 |
| | | | | | | E | | 8 | 0.36 |
| | | | | | | N | | 31 | 1.40 |
| HFAA32B2B | Record: Left anterior descending artery and branches | Char | \$ | 1 | | - | | 2046 | 92.54 |
| | | | | | | A | | 32 | 1.45 |
| | | | | | | B | | 17 | 0.77 |

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | C | | 29 | 1.31 |
| | | | | | | D | | 16 | 0.72 |
| | | | | | | E | | 24 | 1.09 |
| | | | | | | F | | 11 | 0.50 |
| | | | | | | G | | 18 | 0.81 |
| | | | | | | N | | 18 | 0.81 |
| | | | | | | | | | |
| HFAA32B2C | Record: Left circumflex/marginal artery | Char | \$ | 1 | | - | | 2045 | 92.49 |
| | | | | | | A | | 43 | 1.94 |
| | | | | | | B | | 30 | 1.36 |
| | | | | | | C | | 14 | 0.63 |
| | | | | | | D | | 16 | 0.72 |
| | | | | | | E | | 15 | 0.68 |
| | | | | | | F | | 5 | 0.23 |
| | | | | | | G | | 22 | 1.00 |
| | | | | | | N | | 21 | 0.95 |
| | | | | | | | | | |
| HFAA32B2D | Record: Right coronary artery and branches | Char | \$ | 1 | | - | | 2046 | 92.54 |
| | | | | | | A | | 29 | 1.31 |
| | | | | | | B | | 32 | 1.45 |
| | | | | | | C | | 20 | 0.90 |
| | | | | | | D | | 13 | 0.59 |
| | | | | | | E | | 18 | 0.81 |
| | | | | | | F | | 4 | 0.18 |
| | | | | | | G | | 26 | 1.18 |
| | | | | | | N | | 23 | 1.04 |
| | | | | | | | | | |
| HFAA32B2E | Record: Intermediate ramus | Char | \$ | 1 | | - | | 2051 | 92.76 |
| | | | | | | A | | 21 | 0.95 |
| | | | | | | B | | 6 | 0.27 |
| | | | | | | C | | 2 | 0.09 |

Codebook for c14hfaa1 Dataset

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|---------------|--------------------------------------|----------|------------|------------|------------|-----------------|--------------------|-----------|---------|
| | | | | | | E | | 2 | 0.09 |
| | | | | | | F | | 2 | 0.09 |
| | | | | | | G | | 1 | 0.05 |
| | | | | | | N | | 126 | 5.70 |
| HFAA32B3 | Were coronary bypass grafts present? | Char | \$ | 1 | | - | | 2044 | 92.45 |
| | | | | | | N | | 139 | 6.29 |
| | | | | | | Y | | 28 | 1.27 |
| HFAA32B3A | Q32B3A- Number of occluded grafts | Num | BEST | 8 | 1.14814815 | 0.00-3.00 | | 27 | 1.22 |
| HFAA37A | Q37A - Hemoglobin Worst | Num | BEST | 8 | 10.3599175 | 3.20-25.40 | | 2060 | 93.17 |
| HFAA37B | Q37B - Hemoglobin Last | Num | BEST | 8 | 10.9880087 | 3.20-18.40 | | 2059 | 93.13 |
| HFAA38A | Q38A - Hematocrit Worst | Num | BEST | 8 | 31.5724673 | 4.00-55.70 | | 2063 | 93.31 |
| HFAA38B | Q38B - Hematocrit Last | Num | BEST | 8 | 33.6075206 | 8.40-57.50 | | 2061 | 93.22 |
| HFAA39A | Q39A - BNP Worst | Num | BEST | 8 | 997.990529 | 4.00-5510.00 | | 718 | 32.47 |
| HFAA39B | Q39B - BNP Last | Num | BEST | 8 | 848.122392 | 4.00-5510.00 | | 719 | 32.52 |
| HFAA39C | Q39C - BNP Upper Limit Normal | Num | BEST | 8 | 104.869432 | 0.00-1800.00 | | 651 | 29.44 |
| HFAA40A | Q40A - ProBNP Worst | Num | BEST | 8 | 9607.92968 | 6.00-145000.00 | | 726 | 32.84 |
| HFAA40B | Q40B - ProBNP Last | Num | BEST | 8 | 8427.21346 | 6.00-124000.00 | | 726 | 32.84 |
| HFAA40C | Q40C - ProBNP Upper Limit Normal | Num | BEST | 8 | 759.608965 | 0.04-1800.00 | | 744 | 33.65 |
| HFAA41A | Q41A - Troponin T Worst | Num | BEST | 8 | 1.67388689 | 0.00-252.00 | | 432 | 19.54 |
| HFAA41B | Q41B - Troponin T Last | Num | BEST | 8 | 1.70216505 | 0.00-252.00 | | 431 | 19.49 |
| HFAA41C | Q41C - Troponin T Upper Limit Normal | Num | BEST | 8 | 3.22875294 | 0.00-354.00 | | 425 | 19.22 |

Codebook for c14hfaa1 Dataset

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|---------------|--|----------|------------|------------|------------|-------------------|--------------------|-----------|---------|
| HFAA42A | Q42A - Troponin I Worst | Num | BEST | 8 | 1.08955938 | 0.00-122.00 | | 996 | 45.05 |
| HFAA42B | Q42B - Troponin I Last | Num | BEST | 8 | 1.04778854 | 0.00-110.00 | | 997 | 45.09 |
| HFAA42C | Q42C - Troponin I Upper Limit Normal | Num | BEST | 8 | 0.77746646 | 0.01-135.00 | | 984 | 44.50 |
| HFAA43A | Q43A - Sodium Worst | Num | BEST | 8 | 135.848544 | 98.00-152.00 | | 2060 | 93.17 |
| HFAA43B | Q43B - Sodium Last | Num | BEST | 8 | 138.063561 | 116.00-163.00 | | 2061 | 93.22 |
| HFAA44A1 | Q44A1 - Serum creatinine First | Num | BEST | 8 | 2.20766071 | 0.20-20.43 | | 560 | 25.33 |
| HFAA44A2 | Q44A2 - Serum creatinine First Date | Num | MMDDYY | 8 | 11/22/13 | 01/07/12-04/16/16 | | 560 | 25.33 |
| HFAA44A2Y | Year of Q44A2 - Serum creatinine First Date | Num | BEST | 8 | 2013.40357 | 2012.00-2016.00 | | 560 | 25.33 |
| HFAA44A2M | Month of Q44A2 - Serum creatinine First Date | Num | BEST | 8 | 6.41964286 | 1.00-12.00 | | 560 | 25.33 |
| HFAA44A2D | Day of Q44A2 - Serum creatinine First Date | Num | BEST | 8 | 15.575 | 1.00-31.00 | | 560 | 25.33 |
| HFAA44B1 | Q44B1 - Serum creatinine Last | Num | BEST | 8 | 2.18076152 | 0.20-13.60 | | 499 | 22.57 |
| HFAA44B2 | Q44b2 - Serum creatinine Last Date | Num | MMDDYY | 8 | 11/24/13 | 01/11/12-03/28/15 | | 499 | 22.57 |
| HFAA44B2Y | Year of Q44b2 - Serum creatinine Last Date | Num | BEST | 8 | 2013.40882 | 2012.00-2015.00 | | 499 | 22.57 |
| HFAA44B2M | Month of Q44b2 - Serum creatinine Last Date | Num | BEST | 8 | 6.39078156 | 1.00-12.00 | | 499 | 22.57 |
| HFAA44B2D | Day of Q44b2 - Serum creatinine Last Date | Num | BEST | 8 | 15.5871743 | 1.00-31.00 | | 499 | 22.57 |
| HFAA44C1 | Q44C1 - Serum creatinine Highest | Num | BEST | 8 | 2.63672209 | 0.20-15.54 | | 421 | 19.04 |
| HFAA44C2 | Q44C2 - Serum creatinine Highest Date | Num | MMDDYY | 8 | 11/12/13 | 01/08/12-03/27/15 | | 421 | 19.04 |
| HFAA44C2Y | Year of Q44C2 - Serum creatinine Highest Date | Num | BEST | 8 | 2013.37767 | 2012.00-2015.00 | | 421 | 19.04 |
| HFAA44C2M | Month of Q44C2 - Serum creatinine Highest Date | Num | BEST | 8 | 6.39192399 | 1.00-12.00 | | 421 | 19.04 |
| HFAA44C2D | Day of Q44C2 - Serum creatinine Highest Date | Num | BEST | 8 | 15.4869359 | 1.00-31.00 | | 421 | 19.04 |

Codebook for c14hfaa1 Dataset

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|---------------|---|----------|------------|------------|------------|-----------------|--------------------|-----------|---------|
| HFAA45A | Q45A - BUN Worst | Num | BEST | 8 | 38.4859768 | 1.00-169.00 | | 2068 | 93.53 |
| HFAA45B | Q45B - BUN Last | Num | BEST | 8 | 29.9434509 | 1.00-144.00 | | 2069 | 93.58 |
| HFAA59 | Ace inhibitors | Char | \$ | 1 | | - | | 119 | 5.38 |
| | | | | | | N | | 1284 | 58.07 |
| | | | | | | Y | | 808 | 36.54 |
| HFAA59A | ACE inhibitors at hospital discharge? | Char | \$ | 1 | | - | | 197 | 8.91 |
| | | | | | | N | | 1245 | 56.31 |
| | | | | | | Y | | 769 | 34.78 |
| HFAA60 | Angiotensin II receptor blockers | Char | \$ | 1 | | - | | 117 | 5.29 |
| | | | | | | N | | 1772 | 80.14 |
| | | | | | | Y | | 322 | 14.56 |
| HFAA60A | Angiotensin II receptor blockers at hospital discharge? | Char | \$ | 1 | | - | | 192 | 8.68 |
| | | | | | | N | | 1743 | 78.83 |
| | | | | | | Y | | 276 | 12.48 |
| HFAA62 | Q62 - Anticoagulants prior to hospital/in hospital | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 197 | 8.91 |
| | | | | | | Y | | 63 | 2.85 |
| HFAA62A | Q62A - Anticoagulants at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 202 | 9.14 |
| | | | | | | Y | | 58 | 2.62 |
| HFAA64A | Q64A - Antiplatelets: Aspirin prior to hospital/in hospital | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 167 | 7.55 |
| | | | | | | Y | | 93 | 4.21 |
| HFAA64A1 | Q64A1- Antiplatelets: Aspirin at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 162 | 7.33 |
| | | | | | | Y | | 98 | 4.43 |
| HFAA64B | Q64B - Antiplatelets: Other prior to hospital/in hospital | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 226 | 10.22 |
| | | | | | | Y | | 34 | 1.54 |
| HFAA64B1 | Q64B1- Antiplatelets: Other at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 214 | 9.68 |
| | | | | | | Y | | 46 | 2.08 |
| HFAA65 | Beta blockers | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 738 | 33.38 |
| | | | | | | Y | | 1361 | 61.56 |
| HFAA65A | Beta blockers at hospital discharge? | Char | \$ | 1 | | - | | 186 | 8.41 |
| | | | | | | N | | 675 | 30.53 |
| | | | | | | Y | | 1350 | 61.06 |
| HFAA67 | Digitalis | Char | \$ | 1 | | - | | 113 | 5.11 |
| | | | | | | N | | 1887 | 85.35 |
| | | | | | | Y | | 211 | 9.54 |
| HFAA67A | Digitalis at hospital discharge? | Char | \$ | 1 | | - | | 187 | 8.46 |
| | | | | | | N | | 1811 | 81.91 |
| | | | | | | Y | | 213 | 9.63 |
| HFAA68 | Diuretics | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 768 | 34.74 |
| | | | | | | Y | | 1331 | 60.20 |
| HFAA68A | Diuretics at hospital discharge? | Char | \$ | 1 | | - | | 184 | 8.32 |
| | | | | | | N | | 760 | 34.37 |

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 1267 | 57.30 |
| | | | | | | | | | |
| HFAA69 | Aldosterone Blocker | Char | \$ | 1 | | - | | 114 | 5.16 |
| | | | | | | N | | 1884 | 85.21 |
| | | | | | | Y | | 213 | 9.63 |
| | | | | | | | | | |
| HFAA69A | Aldosterone Blocker at hospital discharge? | Char | \$ | 1 | | - | | 187 | 8.46 |
| | | | | | | N | | 1811 | 81.91 |
| | | | | | | Y | | 213 | 9.63 |
| | | | | | | | | | |
| HFAA70A | Lipid lowering agents: Statins prior to hospitalization or progression in hosp | Char | \$ | 1 | | - | | 113 | 5.11 |
| | | | | | | N | | 1248 | 56.45 |
| | | | | | | Y | | 850 | 38.44 |
| | | | | | | | | | |
| HFAA70A1 | Lipid lowering agents: Statins at hospital discharge | Char | \$ | 1 | | - | | 185 | 8.37 |
| | | | | | | N | | 1159 | 52.42 |
| | | | | | | Y | | 867 | 39.21 |
| | | | | | | | | | |
| HFAA70B | Lipid lowering agents: Other prior to hospitalization or progression in hosp | Char | \$ | 1 | | - | | 114 | 5.16 |
| | | | | | | N | | 2002 | 90.55 |
| | | | | | | Y | | 95 | 4.30 |
| | | | | | | | | | |
| HFAA70B1 | Lipid lowering agents: Other at hospital discharge | Char | \$ | 1 | | - | | 187 | 8.46 |
| | | | | | | N | | 1939 | 87.70 |
| | | | | | | Y | | 85 | 3.84 |
| | | | | | | | | | |
| HFAA71 | Nitrates | Char | \$ | 1 | | - | | 113 | 5.11 |
| | | | | | | N | | 1571 | 71.05 |
| | | | | | | Y | | 527 | 23.84 |
| | | | | | | | | | |
| HFAA71A | Nitrates at hospital discharge | Char | \$ | 1 | | - | | 186 | 8.41 |
| | | | | | | N | | 1472 | 66.58 |

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|---------------|--------------------------------------|----------|------------|------------|------------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 553 | 25.01 |
| HFAA72 | Hydralazine | Char | \$ | 1 | | - | | 114 | 5.16 |
| | | | | | | N | | 1782 | 80.60 |
| | | | | | | Y | | 315 | 14.25 |
| HFAA72A | Hydralazine at hospital discharge | Char | \$ | 1 | | - | | 188 | 8.50 |
| | | | | | | N | | 1681 | 76.03 |
| | | | | | | Y | | 342 | 15.47 |
| HFAA73A | IV inotropes during hospitalization? | Char | \$ | 1 | | - | | 111 | 5.02 |
| | | | | | | N | | 2010 | 90.91 |
| | | | | | | Y | | 90 | 4.07 |
| HFAA73B | IV diuretics during hospitalization? | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 1121 | 50.70 |
| | | | | | | Y | | 978 | 44.23 |
| HFAA77 | Q77 - Time taken to abstract | Num | BEST | 8 | 66.5951087 | 1.00-658.00 | | 2208 | 99.86 |
| HFAA78 | Abstractor number | Char | \$ | 3 | | 278 | | 1 | 0.05 |
| | | | | | | 375 | | 78 | 3.53 |
| | | | | | | 378 | | 351 | 15.88 |
| | | | | | | 380 | | 9 | 0.41 |
| | | | | | | 383 | | 51 | 2.31 |
| | | | | | | 395 | | 586 | 26.50 |
| | | | | | | 398 | | 545 | 24.65 |
| | | | | | | 402 | | 2 | 0.09 |
| | | | | | | 405 | | 162 | 7.33 |
| | | | | | | 408 | | 18 | 0.81 |
| | | | | | | 425 | | 237 | 10.72 |
| | | | | | | 428 | | 171 | 7.73 |

Codebook for c14hfaa1 Dataset

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|---------------|--|----------|------------|------------|----------|-------------------|--------------------|-----------|---------|
| HFAA79 | Q79 - Date abstract completed | Num | MMDDYY | 8 | 03/29/12 | 12/12/06-04/13/17 | | 2208 | 99.86 |
| | | | | | | | | | |
| HFAA0A | HFA0a. Hospital code number | Char | \$ | 2 | | 21 | | 301 | 13.61 |
| | | | | | | 22 | | 97 | 4.39 |
| | | | | | | 23 | | 836 | 37.81 |
| | | | | | | 24 | | 262 | 11.85 |
| | | | | | | 25 | | 634 | 28.67 |
| | | | | | | 26 | | 30 | 1.36 |
| | | | | | | 27 | | 40 | 1.81 |
| | | | | | | 28 | | 6 | 0.27 |
| | | | | | | 97 | | 4 | 0.18 |
| | | | | | | 99 | | 1 | 0.05 |
| | | | | | | | | | |
| HFAA0D1 | Discharged to home/routine discharge | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 242 | 10.95 |
| | | | | | | Y | | 808 | 36.54 |
| | | | | | | | | | |
| HFAA0D2 | Discharged to home health care | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 877 | 39.67 |
| | | | | | | Y | | 173 | 7.82 |
| | | | | | | | | | |
| HFAA0D3 | Discharged/transferred to short-term care facility | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1000 | 45.23 |
| | | | | | | Y | | 50 | 2.26 |
| | | | | | | | | | |
| HFAA0D4 | Discharged to outpatient rehabilitation services/home physical therapy | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1035 | 46.81 |
| | | | | | | Y | | 15 | 0.68 |
| | | | | | | | | | |
| HFAA0D5 | Discharged/transferred to long-term care facility | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 918 | 41.52 |

Codebook for c14hfaa1 Dataset

DATA SET: c14hfaa1

LABEL: JHS Heart Failure Abstraction Form. Created by UC738701

DATE CREATED: 21OCT17:04:11:45

Number of Observations: 2211

Number of Variables: 345

Organization of file: Summary of Participants

| Variable Name | Variable Label (VAR) | VAR Type | VAR Format | VAR Length | Mean | Range of Values | Frequency Category | Frequency | Percent |
|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 132 | 5.97 |
| HFAA0D6 | Discharged to hospice care (inpatient or outpatient) | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1028 | 46.49 |
| | | | | | | Y | | 22 | 1.00 |
| HFAA0D7 | Left against medical advice | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1048 | 47.40 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA0D8 | Alive, disposition not stated | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1046 | 47.31 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA0D9 | Disposition not stated | Char | \$ | 1 | | - | | 1161 | 52.51 |
| | | | | | | N | | 1047 | 47.35 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA0E | Was an autopsy performed? | Char | \$ | 1 | | - | | 2096 | 94.80 |
| | | | | | | N | | 114 | 5.16 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA0F | Was the patient either dead on arrival or did he/she die in the ER? | Char | \$ | 1 | | - | | 2096 | 94.80 |
| | | | | | | N | | 114 | 5.16 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA0G | Was the patient on comfort care or hospice care during this hospitalization? | Char | \$ | 1 | | - | | 1109 | 50.16 |
| | | | | | | N | | 1079 | 48.80 |
| | | | | | | Y | | 23 | 1.04 |
| HFAA0H | Was the patient a DNR during this hospitalization? | Char | \$ | 1 | | - | | 1109 | 50.16 |
| | | | | | | N | | 1000 | 45.23 |

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Organization of file: Summary of Participants

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 102 | 4.61 |
| HFAA3A | Does this cohort hospitalization have a 428 code? | Char | \$ | 1 | | - | | 1233 | 55.77 |
| | | | | | | N | | 156 | 7.06 |
| | | | | | | Y | | 822 | 37.18 |
| HFAA9B | History of excess alcohol use? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2040 | 92.27 |
| | | | | | | Y | | 61 | 2.76 |
| HFAA9C | History of illicit drug use? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2052 | 92.81 |
| | | | | | | Y | | 49 | 2.22 |
| HFAA9D | History of anemia? | Char | \$ | 1 | | - | | 111 | 5.02 |
| | | | | | | N | | 1649 | 74.58 |
| | | | | | | Y | | 451 | 20.40 |
| HFAA9F | History of connective tissue disease? | Char | \$ | 1 | | - | | 111 | 5.02 |
| | | | | | | N | | 1972 | 89.19 |
| | | | | | | Y | | 128 | 5.79 |
| HFAA9H | History of smoking? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1917 | 86.70 |
| | | | | | | Y | | 184 | 8.32 |
| HFAA9I | History of thyroid disease? | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1796 | 81.23 |
| | | | | | | Y | | 306 | 13.84 |
| HFAA22A | Lower extremity edema | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 1139 | 51.52 |
| | | | | | | Y | | 960 | 43.42 |

Codebook for c14hfaa1 Dataset

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Organization of file: Summary of Participants

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|---------------|---------------------------------|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| HFAA22B | Jugular venous distension (JVD) | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1686 | 76.26 |
| | | | | | | Y | | 416 | 18.82 |
| HFAA22C | Hepatojugular reflux | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2088 | 94.44 |
| | | | | | | Y | | 13 | 0.59 |
| HFAA22D | Hepatomegaly | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2068 | 93.53 |
| | | | | | | Y | | 33 | 1.49 |
| HFAA22E | Leg fatigue on walking | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2073 | 93.76 |
| | | | | | | Y | | 28 | 1.27 |
| HFAA23A | Cough | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1392 | 62.96 |
| | | | | | | Y | | 710 | 32.11 |
| HFAA23B | Dyspnea (Rest) | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 683 | 30.89 |
| | | | | | | Y | | 1419 | 64.18 |
| HFAA23C | Dyspnea (Walking) | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 666 | 30.12 |
| | | | | | | Y | | 1435 | 64.90 |
| HFAA23D | Dyspnea (Climbing or exertion) | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 626 | 28.31 |
| | | | | | | Y | | 1475 | 66.71 |
| HFAA23E | Stops for breath when walking | Char | \$ | 1 | | - | | 110 | 4.98 |

Codebook for c14hfaa1 Dataset

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Number of Variables: 345

Organization of file: Summary of Participants

| Variable Name | Variable Label (VAR) | VAR Type | VAR Format | VAR Length | Mean | Range of Values | Frequency Category | Frequency | Percent |
|---------------|----------------------------------|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 666 | 30.12 |
| | | | | | | Y | | 1435 | 64.90 |
| HFAA23F | Stops for breath after 100 yards | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 666 | 30.12 |
| | | | | | | Y | | 1435 | 64.90 |
| HFAA23G | Rhonchi | Char | \$ | 1 | | - | | 113 | 5.11 |
| | | | | | | N | | 1797 | 81.28 |
| | | | | | | Y | | 301 | 13.61 |
| HFAA23H | Paroxysmal nocturnal dyspnea | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1830 | 82.77 |
| | | | | | | Y | | 272 | 12.30 |
| HFAA23I | Orthopnea | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1644 | 74.36 |
| | | | | | | Y | | 457 | 20.67 |
| HFAA23J | Pulmonary basilar rales | Char | \$ | 1 | | - | | 109 | 4.93 |
| | | | | | | N | | 1686 | 76.26 |
| | | | | | | Y | | 416 | 18.82 |
| HFAA23K | Rales (more than basilar) | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1790 | 80.96 |
| | | | | | | Y | | 311 | 14.07 |
| HFAA23L | Wheezing | Char | \$ | 1 | | - | | 111 | 5.02 |
| | | | | | | N | | 1596 | 72.18 |
| | | | | | | Y | | 504 | 22.80 |
| HFAA24A | S3 (gallop) | Char | \$ | 1 | | - | | 111 | 5.02 |
| | | | | | | N | | 2015 | 91.14 |

Codebook for c14hfaa1 Dataset

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Organization of file: Summary of Participants

| Variable Name | Variable Label (VAR) | VAR Type | VAR Format | VAR Length | Mean | Range of Values | Frequency Category | Frequency | Percent |
|---------------|---|----------|------------|------------|------------|-------------------|--------------------|-----------|---------|
| | | | | | | Y | | 85 | 3.84 |
| HFAA24C | Chest Pain | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 1588 | 71.82 |
| | | | | | | Y | | 513 | 23.20 |
| HFAA31 | Right cardiac catheterization performed? | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 2038 | 92.18 |
| | | | | | | Y | | 61 | 2.76 |
| HFAA31A | Q31A - Right Cath: Date | Num | MMDDYY | 8 | 03/18/10 | 02/03/05-11/03/14 | | 62 | 2.80 |
| HFAA33 | Cardiac radionuclide ventriculogram performed? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2077 | 93.94 |
| | | | | | | Y | | 24 | 1.09 |
| HFAA33A | Q33A - RNV Date | Num | MMDDYY | 8 | 08/17/08 | 03/24/05-07/31/13 | | 24 | 1.09 |
| HFAA33B | Q33B - RNV Ejection fraction: LV | Num | BEST | 8 | 47.8947368 | 20.00-80.00 | | 19 | 0.86 |
| HFAA33C | Q33C - RNV Ejection fraction: RV | Num | BEST | 8 | 20 | 20.00-20.00 | | 1 | 0.05 |
| HFAA34 | Cardiac Magnetic Resonance Imaging (MRI) performed? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2101 | 95.02 |
| HFAA34A | Q34A - Cardiac MRI Date | Num | MMDDYY | 8 | | | | 0 | 0.00 |
| HFAA34B | Q34B - Cardiac MRI Ejection fraction: LV | Num | BEST | 8 | | | | 0 | 0.00 |
| HFAA34C | Q34C - Cardiac MRI Ejection fraction: RV | Num | BEST | 8 | | | | 0 | 0.00 |
| HFAA35 | Cardiac CT scan performed? | Char | \$ | 1 | | - | | 112 | 5.07 |
| | | | | | | N | | 2086 | 94.35 |
| | | | | | | Y | | 13 | 0.59 |
| HFAA35A | Q35A - Cardiac CT Date | Num | MMDDYY | 8 | 06/22/10 | 10/25/05-11/01/14 | | 13 | 0.59 |

Codebook for c14hfaa1 Dataset

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|---------------|--|----------|------------|------------|------------|-------------------|--------------------|-----------|---------|
| HFAA35B | Q35B - Cardiac CT Ejection fraction: LV | Num | BEST | 8 | 38.4 | 20.00-71.00 | | 5 | 0.23 |
| HFAA35C | Q35C - Cardiac CT Ejection fraction: RV | Num | BEST | 8 | | | | 0 | 0.00 |
| HFAA36 | Stress test performed? | Char | \$ | 1 | | - | | 110 | 4.98 |
| | | | | | | N | | 2011 | 90.95 |
| | | | | | | Y | | 90 | 4.07 |
| HFAA36A | Q36A - Stress test Date | Num | MMDDYY | 8 | 08/17/10 | 01/19/05-10/22/14 | | 90 | 4.07 |
| HFAA36C | Q36C - Stress test Ejection fraction: LV | Num | BEST | 8 | 46.7714286 | 9.00-77.00 | | 70 | 3.17 |
| HFAA6K | Q6K - Unknown/Not recorded | Char | \$ | 1 | | - | | 2038 | 92.18 |
| | | | | | | N | | 91 | 4.12 |
| | | | | | | Y | | 82 | 3.71 |
| HFAA44A | Q44A - Serum creatinine Worst | Num | BEST | 8 | 2.71180301 | 0.40-61.00 | | 1528 | 69.11 |
| HFAA44B | Q44B - Serum creatinine Last | Num | BEST | 8 | 2.23259974 | 0.30-18.90 | | 1529 | 69.15 |
| HFAAFLAG | =1 IF HFAA (OR OTHER VER) IS PRESENT | Num | | 3 | 1 | 1.00-1.00 | | 2211 | 100.00 |
| HFAA17C | HFA17c. Blood Pressure: hospital discharge | Num | BEST | 8 | 131.644788 | 0.00-210.00 | | 259 | 11.71 |
| HFAA17D | HFA17d. Blood Pressure: hospital discharge | Num | BEST | 8 | 69.1660232 | 0.00-109.00 | | 259 | 11.71 |
| HFAA31B1 | HFA31b1. Rt.cath measures:Rt atrial pressure (mean) | Num | BEST | 8 | 15.2 | -2.00-64.00 | | 10 | 0.45 |
| HFAA31B2 | HFA31b2. Rt.cath measures:Pulmonary arterial pressure(value) | Num | BEST | 8 | 36.7 | 3.00-58.00 | | 10 | 0.45 |
| HFAA31B3 | HFA31b3. Rt.cath measures:Pulmonary wedge pressure(unit) | Num | BEST | 8 | 15.6 | 1.00-33.00 | | 10 | 0.45 |
| HFAA31B4 | HFA31b4. Rt.Cath measures:Cardiac output | Num | BEST | 8 | 4.582 | 2.50-6.50 | | 10 | 0.45 |
| HFAA31B5 | HFA31b5. Rt.cath measures:Cardiac index | Num | BEST | 8 | 2.40222222 | 1.50-3.50 | | 9 | 0.41 |
| HFAA6C | HFA6c. MD/disch.sum:Hypertensive HF | Char | \$ | 1 | | - | | 1976 | 89.37 |

Codebook for c14hfaa1 Dataset

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Organization of file: Summary of Participants

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 228 | 10.31 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA6D | HFA6d. MD/disch.sum:Hypertrophic cardiomyopathy | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 230 | 10.40 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA6E | HFA6e. MD/disch.sum:Restrictive cardiomyopathy | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA6F | HFA6f. MD/disch.sum:Infiltrative cardiomyopathy | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 235 | 10.63 |
| HFAA6G | HFA6g. MD/disch.sum:Cor pulmonale | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA6H | HFA6h. MD/disch.sum:Diastolic HF | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 230 | 10.40 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA6I | HFA6i. MD/disch.sum:Valvular cardiomyopathy | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA6J | HFA6j. MD/disch.sum:Other cardiomyopathy/systolic HF | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 201 | 9.09 |
| | | | | | | Y | | 34 | 1.54 |
| HFAA9A | HFA9a. Gen His: AIDS/HIV | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 254 | 11.49 |
| | | | | | | Y | | 6 | 0.27 |

Codebook for c14hfaa1 Dataset

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| HFAA9E | HFA9e. Gen his: Cancer (excluding skin cancer) | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 210 | 9.50 |
| | | | | | | Y | | 50 | 2.26 |
| | | | | | | | | | |
| HFAA9G | HFA9g. Gen his: Ex-smoker | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 214 | 9.68 |
| | | | | | | Y | | 46 | 2.08 |
| | | | | | | | | | |
| HFAA11C | HFA11c. Cardio his: Infectious/bacterial endocarditis | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 259 | 11.71 |
| | | | | | | Y | | 1 | 0.05 |
| | | | | | | | | | |
| HFAA11D | HFA11d. Cardio his: Cardiac arrest | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 255 | 11.53 |
| | | | | | | Y | | 5 | 0.23 |
| | | | | | | | | | |
| HFAA11F | HFA11f. Cardio his: Congenital heart disease | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 258 | 11.67 |
| | | | | | | Y | | 2 | 0.09 |
| | | | | | | | | | |
| HFAA11I | HFA11i. Cardio his: Electrocardioversion/defibrillation | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 250 | 11.31 |
| | | | | | | Y | | 10 | 0.45 |
| | | | | | | | | | |
| HFAA11N | HFA11n. Cardio his: Rheumatic heart disease | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 260 | 11.76 |
| | | | | | | | | | |
| HFAA12B | HFA12b. Gastro/Endo his: Hyperlipidemia | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 176 | 7.96 |
| | | | | | | Y | | 84 | 3.80 |
| | | | | | | | | | |
| HFAA12C | HFA12c. Gastro/Endo his: Liver disease | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 258 | 11.67 |

Codebook for c14hfaa1 Dataset

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 2 | 0.09 |
| HFAA16A | HFA16a. Precipitating fact: Postpartum state | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 235 | 10.63 |
| HFAA16B | HFA16b. Precipitating fact: Excess alcohol intake | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 231 | 10.45 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA16C | HFA16c. Precipitating fact: Excess fluid intake/administration | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA16F | HFA16f. Precipitating fact: Infection | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 218 | 9.86 |
| | | | | | | Y | | 17 | 0.77 |
| HFAA16H | HFA16h. Precipitating fact: Infectious/ bacterial endocarditis | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 235 | 10.63 |
| HFAA16I | HFA16i. Precipitating fact: Pulmonary embolus | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 223 | 10.09 |
| | | | | | | Y | | 11 | 0.50 |
| HFAA16L | HFA16l. Precipitating fact: Heart block | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 233 | 10.54 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA16M | HFA16m. Precipitating fact: Ventricular fibrillation/flutter | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 233 | 10.54 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA16N | HFA16n. Precipitating fact: Cardiac arrest | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |

Codebook for c14hfaa1 Dataset

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|---------------|--|----------|------------|------------|------------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 1 | 0.05 |
| HFAA16O | HFA16o. Precipitating fact: MI | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 228 | 10.31 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA16P | HFA16p. Precipitating fact: Valvular heart disease | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA16Q | HFA16q. Precipitating fact: Stroke/TIA | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA22A1 | HFA22a1. General:Lower extremity edema-discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 231 | 10.45 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA22B1 | HFA22b1. General:Jugular venous distention-discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 233 | 10.54 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA21A | HFA21a. Respiration Rate at admission | Num | | 8 | 22.1367521 | 12.00-52.00 | | 234 | 10.58 |
| HFAA21B | HFA21b. Respiration Rate at discharge | Num | | 8 | 19.3203463 | 0.00-72.00 | | 231 | 10.45 |
| HFAA23A1 | HFA23a1. Cough at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 228 | 10.31 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA23B1 | HFA23b1. Dyspnea (rest) at discharge | Char | \$ | 1 | | - | | 1978 | 89.46 |
| | | | | | | N | | 228 | 10.31 |
| | | | | | | Y | | 5 | 0.23 |

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Number of Observations: 2211

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Organization of file: Summary of Participants

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| HFAA23C1 | HFA23c1. Dyspnea (walking) at discharge | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 229 | 10.36 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA23D1 | HFA23d1. Dyspnea (climbing/exertion) at discharge | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 228 | 10.31 |
| | | | | | | Y | | 6 | 0.27 |
| HFAA23E1 | HFA23e1. Stops breath walking at discharge | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 229 | 10.36 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA23H1 | HFA23h1. Paroxysmal nocturnal dsypnea at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA23I1 | HFA23i1. Orthopnea at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA23J1 | HFA23j1. Pulmonary basilar rales at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 233 | 10.54 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA23K1 | HFA23k1. Rales (more than basilar) at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA23L1 | HFA23l1. Wheezing at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 233 | 10.54 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA23M | HFA23m. Vital capacity (decrs. 1/3)during hosp or admis | Char | \$ | 1 | | - | | 1976 | 89.37 |

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA24A1 | HFA24a1. S3 (gallop) at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 232 | 10.49 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA24B | HFA24b. S4 (gallop) during hospitalization | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 253 | 11.44 |
| | | | | | | Y | | 7 | 0.32 |
| HFAA24B1 | HFA24b1. S4 (gallop) at discharge | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 234 | 10.58 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA24C1 | HFA24c1. Chest Pain at discharge | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 234 | 10.58 |
| HFAA24D | HFA24d. NYHA class | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | 1 | | 1 | 0.05 |
| | | | | | | 3 | | 4 | 0.18 |
| | | | | | | 4 | | 5 | 0.23 |
| | | | | | | N | | 225 | 10.18 |
| HFAA26A | HFA26a. MI (age undetermined) | Char | \$ | 1 | | - | | 1988 | 89.91 |
| | | | | | | N | | 186 | 8.41 |
| | | | | | | Y | | 37 | 1.67 |
| HFAA26B | HFA26b. Ischemic changes or ST-T changes | Char | \$ | 1 | | - | | 1988 | 89.91 |
| | | | | | | N | | 156 | 7.06 |
| | | | | | | Y | | 67 | 3.03 |
| HFAA26D | HFA26d. Left ventricular hypertrophy | Char | \$ | 1 | | - | | 1989 | 89.96 |

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|---------------|--|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 183 | 8.28 |
| | | | | | | Y | | 39 | 1.76 |
| HFAA28A | HFA28a. Chest X-ray:Alveolar infiltrates | Char | \$ | 1 | | - | | 1985 | 89.78 |
| | | | | | | N | | 165 | 7.46 |
| | | | | | | Y | | 61 | 2.76 |
| HFAA28F | HFA28f. Chest X-ray:Congestive heart failure | Char | \$ | 1 | | - | | 1985 | 89.78 |
| | | | | | | N | | 189 | 8.55 |
| | | | | | | Y | | 37 | 1.67 |
| HFAA28I | HFA28i. Chest X-ray:Pulmonary vascular congestion | Char | \$ | 1 | | - | | 1985 | 89.78 |
| | | | | | | N | | 181 | 8.19 |
| | | | | | | Y | | 45 | 2.04 |
| HFAA28J | HFA28j. Chest X-ray:Kerley B lines | Char | \$ | 1 | | - | | 2001 | 90.50 |
| | | | | | | N | | 208 | 9.41 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA31B2A | HFA31b2a. Rt.cath measures:Pulmonary arterial pressure | Char | \$ | 3 | | - | | 2201 | 99.55 |
| | | | | | | 000 | | 1 | 0.05 |
| | | | | | | 004 | | 1 | 0.05 |
| | | | | | | 008 | | 1 | 0.05 |
| | | | | | | 013 | | 1 | 0.05 |
| | | | | | | 014 | | 1 | 0.05 |
| | | | | | | 019 | | 1 | 0.05 |
| | | | | | | 026 | | 1 | 0.05 |
| | | | | | | 028 | | 1 | 0.05 |
| | | | | | | 031 | | 1 | 0.05 |
| | | | | | | 062 | | 1 | 0.05 |
| HFAA32B4 | HFA32b4. Mitral regurgitation | Char | \$ | 1 | | - | | 2186 | 98.87 |

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | D | | 3 | 0.14 |
| | | | | | | E | | 3 | 0.14 |
| | | | | | | M | | 1 | 0.05 |
| | | | | | | N | | 17 | 0.77 |
| | | | | | | S | | 1 | 0.05 |
| HFAA36B | HFA36b. Stress test Result:N=Normal,A=Abnormal,E=Equivocal,F=Diagnostic | Char | \$ | 1 | | - | | 2200 | 99.50 |
| | | | | | | A | | 3 | 0.14 |
| | | | | | | F | | 3 | 0.14 |
| | | | | | | N | | 5 | 0.23 |
| HFAA46 | HFA46. Interventions:Cardiac (electrophysiologic) ablation therapy | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 258 | 11.67 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA47 | HFA47. Interventions:Implantable cardiac defibrillator | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 255 | 11.53 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA48 | HFA48. Interventions:Cardioversion | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 248 | 11.22 |
| | | | | | | Y | | 12 | 0.54 |
| HFAA49 | HFA49. Interventions:Pacemaker placement (non-biventricular) | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 255 | 11.53 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA50 | HFA50. Interventions:Biventricular pacemaker (CRT) | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 256 | 11.58 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA51 | HFA51. Interventions:Coronary Artery Bypass Graft | Char | \$ | 1 | | - | | 1951 | 88.24 |

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | N | | 256 | 11.58 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA52 | HFA52. Interventions: (PCI) /stent | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 248 | 11.22 |
| | | | | | | Y | | 12 | 0.54 |
| HFAA53 | HFA53. Interventions: Valve replacement/repair | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 258 | 11.67 |
| | | | | | | Y | | 2 | 0.09 |
| HFAA54 | HFA54. Interventions: Intra Aortic Balloon Pump (IABP) | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 256 | 11.58 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA55 | HFA55. Interventions: Hemofiltration/dialysis | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 221 | 10.00 |
| | | | | | | Y | | 39 | 1.76 |
| HFAA56 | HFA56. Interventions: Listed/received transplant of heart | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 259 | 11.71 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA57 | HFA57. Interventions: Left ventricular assist device | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 259 | 11.71 |
| | | | | | | Y | | 1 | 0.05 |
| HFAA58A | HFA58a. Interventions: Sodium/cholesterol reduction | Char | \$ | 1 | | - | | 1977 | 89.42 |
| | | | | | | N | | 150 | 6.78 |
| | | | | | | Y | | 84 | 3.80 |
| HFAA58B | HFA58b. Interventions: Tobacco cessation | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 98 | 4.43 |

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 27 | 1.22 |
| | | | | | | Z | | 110 | 4.98 |
| HFAA58C | HFA58c. Interventions:Fluid restriction | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 172 | 7.78 |
| | | | | | | Y | | 63 | 2.85 |
| HFAA61A | HFA61a. Antiarrhythmics: Amiodarone prior to hospital/in hospital | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 241 | 10.90 |
| | | | | | | Y | | 19 | 0.86 |
| HFAA61A1 | HFA61a1. Antiarrhythmics: Amiodarone at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 239 | 10.81 |
| | | | | | | Y | | 21 | 0.95 |
| HFAA61B | HFA61b. Antiarrhythmics: Other prior to hospital/in hospital | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 257 | 11.62 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA61B1 | HFA61b1. Antiarrhythmics: Other at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 255 | 11.53 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA63 | HFA63. Anti-inflammatory prior to hospital/in hospital | Char | \$ | 1 | | - | | 1967 | 88.96 |
| | | | | | | N | | 241 | 10.90 |
| | | | | | | Y | | 3 | 0.14 |
| HFAA63A | HFA63a. Anti-inflammatory at discharge | Char | \$ | 1 | | - | | 1967 | 88.96 |
| | | | | | | N | | 240 | 10.85 |
| | | | | | | Y | | 4 | 0.18 |
| HFAA66 | HFA66. Calcium channel blockers prior to hosp/in hosp | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 179 | 8.10 |

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|---------------|---|----------|------------|------------|------|-----------------|--------------------|-----------|---------|
| | | | | | | Y | | 81 | 3.66 |
| HFAA66A | HFA66a. Calcium channel blockers at discharge | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 184 | 8.32 |
| | | | | | | Y | | 76 | 3.44 |
| HFAA73C | HFA73c. IV vasodilators | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 207 | 9.36 |
| | | | | | | Y | | 28 | 1.27 |
| HFAA73D | HFA73d. IV antiarrhythmics | Char | \$ | 1 | | - | | 1976 | 89.37 |
| | | | | | | N | | 219 | 9.91 |
| | | | | | | Y | | 16 | 0.72 |
| HFAA74 | HFA74. Cardiac arrest | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 244 | 11.04 |
| | | | | | | Y | | 16 | 0.72 |
| HFAA75 | HFA75. Stroke | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 255 | 11.53 |
| | | | | | | Y | | 5 | 0.23 |
| HFAA76 | HFA76. Myocardial infarction | Char | \$ | 1 | | - | | 1951 | 88.24 |
| | | | | | | N | | 251 | 11.35 |
| | | | | | | Y | | 9 | 0.41 |
| HFAA16R | HFA16r. Was Angina/Myocardial infarction listed as precipitating factor | Char | \$ | 1 | | - | | 1400 | 63.32 |
| | | | | | | N | | 781 | 35.32 |
| | | | | | | Y | | 30 | 1.36 |