

Data Set Name: a_base.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|---|
| 1 | PATNUMB | Char | 9 | Patient Number |
| 2 | TREATMENT | Num | 8 | Randomized treatment |
| 3 | afib_strat | Char | 3 | Stratification variable: patient has persistent atrial fibrillation |
| 4 | AGE | Num | 8 | Patient age |
| 5 | SEX | Num | 8 | Patient gender |
| 6 | RACE | Num | 8 | Race of patient |
| 7 | YIHF | Num | 8 | Years since initial diagnosis of heart failure |
| 8 | VLVEF | Num | 8 | Value of last LVEF |

Data Set Name: a_endpts.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|-------------------------|------|-----|--|
| 1 | PATNUMB | Char | 9 | Patient number |
| 2 | PEAKVO2_MLMINKG_DIFFW12 | Num | 8 | Week 12 Peak VO2 difference from baseline in ml/min/kg |
| 3 | PEAKVO2_MLMINKG_DIFFW24 | Num | 8 | Week 24 Peak VO2 difference from baseline in ml/min/kg |
| 4 | COMP_RANK | Num | 8 | Rank of the Composite Endpoint Score (1 = Worst) |
| 5 | WALKDIFFW12 | Num | 8 | Six minute walk difference from baseline to Week 12 (meters) |
| 6 | WALKDIFFW24 | Num | 8 | Six minute walk difference from baseline to Week 24 (meters) |
| 7 | CPXDURDIFF_W12 | Num | 8 | Week 12 CPX duration change from baseline |
| 8 | CPXDURDIFF_W24 | Num | 8 | Week 24 CPX duration change from baseline |
| 9 | VATDIFF_MLMINKG_W12 | Num | 8 | Week 12 ventilatory anaerobic threshold change from baseline (ml/min/kg) |
| 10 | VATDIFF_MLMINKG_W24 | Num | 8 | Week 24 ventilatory anaerobic threshold change from baseline (ml/min/kg) |
| 11 | MLWHFDIFF_W12 | Num | 8 | Minnesota Living with Heart Failure Week 12 Total score difference from baseline |
| 12 | EMOTDIFF_W12 | Num | 8 | Minnesota Living with Heart Failure Week 12 Emotional dimension score difference from baseline |
| 13 | PHYSDIFF_W12 | Num | 8 | Minnesota Living with Heart Failure Week 12 Physical dimension score difference from baseline |
| 14 | MLWHFDIFF_W24 | Num | 8 | Minnesota Living with Heart Failure Week 24 Total score difference from baseline |
| 15 | EMOTDIFF_W24 | Num | 8 | Minnesota Living with Heart Failure Week 24 Emotional dimension score difference from baseline |
| 16 | PHYSDIFF_W24 | Num | 8 | Minnesota Living with Heart Failure Week 24 Physical dimension score difference from baseline |
| 17 | MRILVMASS_BW24 | Num | 8 | Change in LV mass (gm) from Baseline to Week 24 |
| 18 | MRILVMASSI_BW24 | Num | 8 | Change from Baseline LV Mass Index |
| 19 | MRIEDV_BW24 | Num | 8 | Change in End diastolic volume (ml) from Baseline to Week 24 |
| 20 | MRIEDVI_BW24 | Num | 8 | Change from Baseline End Diastolic Volume Index |
| 21 | MRIESV_BW24 | Num | 8 | Change in End systolic volume (ml) from Baseline to Week 24 |
| 22 | MRIESVI_BW24 | Num | 8 | Change from Baseline End Systolic Volume Index |
| 23 | MRILVEF_BW24 | Num | 8 | Change in LVEF (%) from Baseline to Week 24 |
| 24 | ECHOLVMASS_BW24 | Num | 8 | Change in LV Mass from Baseline to Week 24 |
| 25 | LVMASSIND_BW24 | Num | 8 | Change from Baseline to Week 24 LV Mass Index |
| 26 | EFCOMPOS_BW24 | Num | 8 | Change from Baseline to Week 24 composite LVEF |
| 27 | DIAELMED_BW24 | Num | 8 | Change in diastolic elastance medial from Baseline to Week 24 |
| 28 | DIAELLAT_BW24 | Num | 8 | Change in diastolic elastance lateral from Baseline to Week 24 |
| 29 | LVRELSEP_BW24 | Num | 8 | Change in LV relaxation septal (medial) from Baseline to Week 24 |
| 30 | LVRELLAT_BW24 | Num | 8 | Change in LV relaxation lateral from Baseline to Week 24 |
| 31 | FILLPSEP_BW24 | Num | 8 | Change in filling pressure septal (medial) from Baseline to Week 24 - E/e' (m/sec) |
| 32 | FILLPLAT_BW24 | Num | 8 | Change in filling pressure lateral from Baseline to Week 24 - E/e' (m/sec) |

| Num | Variable | Type | Len | Label |
|-----|------------------|------|-----|---|
| 33 | ECHOEA_B LW24 | Num | 8 | Change in effective arterial elastance from Baseline to Week 24 |
| 34 | ECHOSVR_B LW24 | Num | 8 | Change in systemic vascular resistance from Baseline to Week 24 |
| 35 | MRIEA_B LW24 | Num | 8 | Change in effective arterial elastance from Baseline to Week 24 |
| 36 | MRISVR_B LW24 | Num | 8 | Change in systemic vascular resistance from Baseline to Week 24 |
| 37 | MRIATHCK_B LW24 | Num | 8 | Change in aortic thickness (mm) from Baseline to Week 24 |
| 38 | MRIADIST_B LW24 | Num | 8 | Change in aortic distensibility from Baseline to Week 24 |
| 39 | ECHOPASP_B LW24 | Num | 8 | Change in pulmonary artery systolic pressure from Baseline to Week 24 |
| 40 | CL_CYSTC_B LW24 | Num | 8 | Change in Cystatin C from baseline to Week 24 (mg/L) |
| 41 | CL_URIC_B LW24 | Num | 8 | Change in lab uric acid from baseline to Week 24 (mg/dL) |
| 42 | CL_NTPRO_B LW24 | Num | 8 | Change in NT pro BNP from baseline to Week 24 (pg/mL) |
| 43 | CL_ALDOST_B LW24 | Num | 8 | Change in aldosterone from baseline to Week 24 (pg/mL) |
| 44 | CL_TROPI_B LW24 | Num | 8 | Change in high sensitivity troponin I from baseline to Week 24 (pg/mL) |
| 45 | CL_PIIINP_B LW24 | Num | 8 | Change in pro-collagen III NTP from baseline to Week 24 (ug/L) |
| 46 | CL_ET1_B LW24 | Num | 8 | Change in endothelin-1 from baseline to Week 24 (pg/mL) |
| 47 | CL_CRP_B LW24 | Num | 8 | Change in high sensitivity C-reactive protein from baseline to Week 24 (mg/L) |
| 48 | CL_CITP_B LW24 | Num | 8 | Change in Corboxy-Terminal Telopeptide of Collagen Type I from baseline to Week 24 (ug/L) |
| 49 | CL_GMP_B LW24 | Num | 8 | Change in cGMP from baseline to Week 24 (pmol/mL) |
| 50 | CL_GALEC3_B LW24 | Num | 8 | Change in Galectin 3 from baseline to Week 24 (ng/mL) |
| 51 | CL_CREAT_B LW24 | Num | 8 | Change in core lab creatinine from baseline to Week 24 (mg/dL) |
| 52 | CL_GFRB LW24 | Num | 8 | Change in core lab GFR from baseline to Week 24 |
| 53 | CTNW24C | Num | 8 | Change in Local Lab Serum Creatinine from Baseline to Week 24 (mg/dL) |
| 54 | GFRCHGW24 | Num | 8 | Change in Local Lab GFR from Baseline to Week 24 |
| 55 | DIURDSB LW12_FE | Num | 8 | Change from baseline to Week 12 in furosemide-equivalent dosing |
| 56 | DIURDSB LW24_FE | Num | 8 | Change from baseline to Week 24 in furosemide-equivalent dosing |

Data Set Name: a_visitsumm.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|------------|------|-----|---|
| 1 | PATNUMB | Char | 9 | Patient Number |
| 2 | FORM | Char | 8 | Visit identifier |
| 3 | HEIGHTIN | Num | 8 | Height (inches) |
| 4 | WTLBS | Num | 8 | Weight (lbs) |
| 5 | LL_SODIUM | Num | 8 | Local Lab Sodium (mEq/L) |
| 6 | LL_POTASS | Num | 8 | Local Lab Potassium (mEq/L) |
| 7 | LL_BUN | Num | 8 | Local Lab BUN / Urea (mg/dL) |
| 8 | LL_BICARB | Num | 8 | Local Lab Bicarbonate (mEq/L) |
| 9 | LL_CREAT | Num | 8 | Local Lab Creatinine (mg/dL) |
| 10 | LL_GFR | Num | 8 | Local Lab GFR (mL/min/1.73m2) |
| 11 | LL_MAGNES | Num | 8 | Local Lab Magnesium (mg/dL) |
| 12 | LL_GLUC | Num | 8 | Local Lab Glucose (mg/dL) |
| 13 | LL_TCHOL | Num | 8 | Local Lab Total Cholesterol (mg/dL) |
| 14 | LL_AST | Num | 8 | Local Lab AST / SGOT (U/L) |
| 15 | LL_ALT | Num | 8 | Local Lab ALT / SGOT (U/L) |
| 16 | LL_ALKPHOS | Num | 8 | Local Lab Alkaline Phosphatase (U/L) |
| 17 | LL_BILIR | Num | 8 | Local Lab Total Bilirubin (mg/dL) |
| 18 | LL_ALBUM | Num | 8 | Local Lab Albumin (g/dL) |
| 19 | LL_HMG | Num | 8 | Local Lab Hemoglobin (g/dL) |
| 20 | LL_WBC | Num | 8 | Local Lab White Blood Cell Count (10 ⁹ /L) |
| 21 | LL_NTPBNP | Num | 8 | Local Lab NT-pro-BNP (ng/L) |
| 22 | LL_LYMPH | Num | 8 | Local Lab Lymphocyte % |
| 23 | LL_RDW | Num | 8 | Local Lab Red cell distribution % |
| 24 | LL_BNP | Num | 8 | Local Lab BNP (ng/L) |
| 25 | CL_CREAT | Num | 8 | Core Lab Creatinine (mg/dL) |
| 26 | CL_GFR | Num | 8 | Core Lab GFR (mL/min/1.73m2) |
| 27 | CL_URIC | Num | 8 | Core Lab Uric Acid (mg/dL) |
| 28 | CL_ALDOST | Num | 8 | Core Lab Aldosterone (pg/mL) |
| 29 | CL_CYSTC | Num | 8 | Core Lab Cystatin C (mg/L) |
| 30 | CL_NTPRO | Num | 8 | Core Lab NT Pro BNP (pg/mL) |
| 31 | CL_PIIIINP | Num | 8 | Core Lab Pro-Collagen III NTP value (ug/L) |
| 32 | CL_TROPI | Num | 8 | Core Lab Troponin I (pg/mL) |
| 33 | CL_ET1 | Num | 8 | Core Lab Endothelin-1 value (pg/mL) |
| 34 | CL_CRP | Num | 8 | Core Lab C-Reactive Protein value (mg/L) |
| 35 | CL_CITP | Num | 8 | Core Lab Corboxy-Terminal Telopeptide of Collagen Type I value (ug/L) |
| 36 | CL_gmp | Num | 8 | Core Lab cGMP value (pmol/mL) |

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|---|
| 37 | CL_galec3 | Num | 8 | Core Lab Galectin 3 value (ng/mL) |
| 38 | CL_sildlvl | Num | 8 | Core Lab Sildenafil level (Sildenafil arm only) |

Data Set Name: adverse.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | AENUMBER | Num | 8 | AE Number |
| 3 | MEDRTEXT | Char | 100 | MedDRA lower level term |
| 4 | MEDRCODE | Char | 8 | MedDRA code |
| 5 | ANYAE | Num | 8 | Subject had any serious adverse event(s) |
| 6 | PTNAME | Char | 100 | DERIVED Preferred Term |
| 7 | PTCODE | Char | 8 | DERIVED Preferred Term Code |
| 8 | SOCNAME | Char | 100 | DERIVED SOC Name |
| 9 | SOCODE | Char | 8 | DERIVED SOC Code |
| 10 | AEONSTDT | Num | 8 | Onset date and time |
| 11 | AEONSTTM | Num | 8 | AE Onset Date and Time |
| 12 | AEENDDT | Num | 8 | End date |
| 13 | AEENDTM | Num | 8 | AE End Date and Time |
| 14 | AECONT | Num | 8 | Event Ongoing |
| 15 | AEHOSP | Num | 8 | Was subject Hospitalized? |
| 16 | AEOUTCM | Num | 8 | SAE Outcome |
| 17 | AEINTENS | Num | 8 | Maximum Intensity |
| 18 | AEACTION | Num | 8 | Action Taken with Study Drug/Treatment |
| 19 | AERELAT | Num | 8 | Related to Study Drug/Treatment |
| 20 | AESERIOUS | Num | 8 | Was this event serious? |
| 21 | AEUNEXPT | Num | 8 | Was this Event Unexpected? |
| 22 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: amend2.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | AMENDMT2 | Num | 8 | Is this page being entered under Amendme |
| 3 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: *assessmt.sas7bdat*

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|----------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | HRNOTDN | Num | 8 | Heart rate Not Done |
| 3 | HRATE | Num | 8 | Heart rate |
| 4 | BPNOTDN | Num | 8 | Blood pressure Not Done |
| 5 | BPSYS | Num | 8 | Systolic BP |
| 6 | BPDIA | Num | 8 | Diastolic BP |
| 7 | SPONOTDN | Num | 8 | SpO2 Not Done |
| 8 | SPO2 | Num | 8 | SpO2 |
| 9 | HTNOTDN | Num | 8 | Height Not Done |
| 10 | WTNOTDN | Num | 8 | Weight Not Done |
| 11 | JVPNOTDN | Num | 8 | Jugular venous pressure Not Done |
| 12 | JVP | Num | 8 | Jugular venous pressure |
| 13 | RASNOTDN | Num | 8 | Rales Not Done |
| 14 | RALES | Num | 8 | Rales |
| 15 | AUSNOTDN | Num | 8 | S3 auscultation Not Done |
| 16 | AUSCULTN | Num | 8 | S3 auscultation |
| 17 | HEPNOTDN | Num | 8 | Hepatomegaly Not Done |
| 18 | HEPATOM | Num | 8 | Hepatomegaly |
| 19 | ASCNOTDN | Num | 8 | Ascites Not Done |
| 20 | ASCITES | Num | 8 | Ascites |
| 21 | PEDNOTDN | Num | 8 | Peripheral edema Not Done |
| 22 | PEREDEMA | Num | 8 | Peripheral edema |
| 23 | NYNOTDN | Num | 8 | Current NYHA HF class Not Done |
| 24 | NYHA | Num | 8 | Current NYHA HF classification |
| 25 | ORTNOTDN | Num | 8 | Orthopnea Not Done |
| 26 | ORTHOPNEA | Num | 8 | Orthopnea |
| 27 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: cpx.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|-----------------------------------|
| 1 | EXMODE | Char | 30 | Exercise Modality |
| 2 | FEV1 | Num | 8 | FEV1 (1 min) |
| 3 | CPXTSDT | Num | 8 | Test Date |
| 4 | MEDINGDT | Num | 8 | Date of Med Ingestion |
| 5 | MEDINGTM | Num | 8 | Derived from MEDINGDT and MEDTIME |
| 6 | RESTVO2 | Num | 8 | Rest VO2 (ml kg min) |
| 7 | RESTRER | Num | 8 | Rest RER |
| 8 | RESTRR | Num | 8 | Rest RR |
| 9 | RESTVE | Num | 8 | Rest VE |
| 10 | RESTHR | Num | 8 | Rest HR |
| 11 | RESTOXSA | Num | 8 | Rest O2 Sat |
| 12 | RESTSBP | Num | 8 | Rest SBP |
| 13 | RESTDBP | Num | 8 | Rest DBP |
| 14 | RESTBORG | Num | 8 | Rest BorgDyspnea |
| 15 | PEAKV02 | Num | 8 | Peak VO2 (ml kg min) |
| 16 | PEAKVOMN | Num | 8 | Peak VO2 (ml min) |
| 17 | PEAKRER | Num | 8 | Peak RER |
| 18 | PEAKRR | Num | 8 | Peak RR |
| 19 | PEAKVE | Num | 8 | Peak VE |
| 20 | PEAKHR | Num | 8 | Peak HR |
| 21 | PEAKOXSA | Num | 8 | Peak O2 Sat |
| 22 | PEAKSBP | Num | 8 | Peak SBP |
| 23 | PEAKDBP | Num | 8 | Peak DBP |
| 24 | PEAKBORG | Num | 8 | Peak BorgDyspnea |
| 25 | CPXWATTS | Num | 8 | Watts |
| 26 | VOAT | Num | 8 | VO2 AT |
| 27 | TEST | Char | 8 | Derived from CSUBJNO |
| 28 | patnumb | Char | 6 | De-identified patient number |
| 29 | cpxdrton | Num | 8 | |
| 30 | cpetstim | Num | 8 | |

Data Set Name: cpxdose.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | CPXDT | Num | 8 | Record date of study drug just prior to |
| 3 | CPXTM | Num | 8 | Date and time of study drug just prior t |
| 4 | PRECPXDS | Num | 8 | PRE-CPX DOSE |
| 5 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: deathpag.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | DEATHLOC | Num | 8 | Location of death |
| 3 | DEATHDT | Num | 8 | Date of death |
| 4 | DEATHCAU | Num | 8 | Cause of death |
| 5 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: *diuretic.sas7bdat*

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | DIUMEDS | Num | 8 | Medication |
| 2 | DIURANS | Num | 8 | Yes, No, Daily, PRN |
| 3 | DIURDOSE | Num | 8 | Average Total Daily Dose |
| 4 | FORM | Char | 40 | Form Name - Block ID |
| 5 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: drugchgs.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | ANYDRCHG | Num | 8 | Was study drug dose changed |
| 3 | CHGNUMB | Num | 8 | Change number |
| 4 | CHGDT | Num | 8 | Date of change |
| 5 | CHANGES | Num | 8 | New dose |
| 6 | CHGOTH | Num | 8 | total daily dose |
| 7 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: druglog.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | KITROWNO | Num | 8 | Kit Row number |
| 3 | KITNUMBR | Num | 8 | kit number |
| 4 | DRGSTRDT | Num | 8 | Start date |
| 5 | DISPENSE | Num | 8 | number of pills dispensed |
| 6 | DRGSTPDT | Num | 8 | Stop date |
| 7 | RETURNED | Num | 8 | number of pills returned |
| 8 | LOSTPILL | Num | 8 | number of pills lost |
| 9 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: ecg.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | ECGDT | Num | 8 | ECG Date |
| 3 | ECGNOTDN | Num | 8 | ECG Not done |
| 4 | ECGHRATE | Num | 8 | Rate |
| 5 | ECGRHYTH | Num | 8 | Rhythm |
| 6 | ECGPACED | Num | 8 | Are there two or more paced beats? |
| 7 | ECGQRS | Num | 8 | QRS duration |
| 8 | ECGQRSND | Num | 8 | Not done |
| 9 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: echo.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|---|
| 1 | CECHODT | Num | 8 | Echo Date |
| 2 | SCHDTIME | Num | 8 | Visit |
| 3 | LVQUAL | Num | 8 | Quality of LV Volumes |
| 4 | DOPPQUAL | Num | 8 | Quality of Doppler diastolic function |
| 5 | MRQUAL | Num | 8 | Quality of MR Assessment |
| 6 | LVDD | Num | 8 | 2D PLAX: LV diastolic dimension |
| 7 | VLVDD | Num | 8 | LV diastolic dimension view quality (if |
| 8 | LVSD | Num | 8 | 2D PLAX: LV systolic dimension |
| 9 | VLVSD | Num | 8 | LV systolic dimension view quality (if L |
| 10 | EFPLAX | Num | 8 | EFPLAX |
| 11 | VEFPLAX | Num | 8 | EF view quality (if EF_2DPLAX missing) |
| 12 | MRPLAX | Num | 8 | MR Vena contracta PLAX |
| 13 | VMRPLAX | Num | 8 | MR Vena contracta PLAX view quality (if |
| 14 | LVOT | Num | 8 | LVOT Diameter |
| 15 | VLVOT | Num | 8 | LVOT Diameter view quality (if LVOT_DIAM |
| 16 | EVELOC | Num | 8 | MV Inflow: E velocity @ leaf tip |
| 17 | VEVELOC | Num | 8 | E velocity view quality (if E_VELOCITY m |
| 18 | AVELOC | Num | 8 | MV Inflow: A velocity @ leaf tip |
| 19 | VAVELOC | Num | 8 | A velocity view quality (if A_VELOCITY m |
| 20 | DECELTM | Num | 8 | MV Inflow: Decel time @ leaflet tip |
| 21 | VDECELTM | Num | 8 | Decel time view quality (if DECEL_TIME m |
| 22 | SYSFWRD | Num | 8 | Pul Vein: Systolic forward |
| 23 | VSYSFWRD | Num | 8 | Systolic forward view quality (if SYS_FO |
| 24 | DIAFWRD | Num | 8 | Pul Vein: Diastolic forward |
| 25 | VDIAFWRD | Num | 8 | Diastolic forward view quality (if DIA_F |
| 26 | LVOVELC | Num | 8 | LVOT: LVOT velocity |
| 27 | VLVOVELC | Num | 8 | LVOT velocity view quality (if LVOT_VELO |
| 28 | TVI | Num | 8 | LVOT: TVI |
| 29 | VTVI | Num | 8 | TVI view quality (if TVI missing) |
| 30 | STRKEVOL | Num | 8 | Stroke Volume Formula: $0.785 * LVOT_DIAM^2$ |
| 31 | ARSEVGRD | Num | 8 | AR severity grade |
| 32 | MEANGRD | Num | 8 | MV C-W Diastolic Flow: Mean gradient |
| 33 | VMEANGRD | Num | 8 | Mean gradient view quality (if MEAN_GRAD |
| 34 | PRESHLF | Num | 8 | MV C-W Diastolic Flow: Pressure half-tim |
| 35 | VPRESHLF | Num | 8 | Pressure half-time view quality (if PRES |
| 36 | PEAKVELC | Num | 8 | Peak TR velocity |

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 37 | VPEAKTR | Num | 8 | Peak TR velocity view quality (if PEAK_T |
| 38 | RAPRESS | Num | 8 | RA Pressure (est) - If no IVC is recorde |
| 39 | RVSP | Num | 8 | RVSP Formula: $4 * \text{Peak_TR_VELOCITY}^2 + \text{RA Pr}$ |
| 40 | TRSEVGRD | Num | 8 | TR: TR severity grade |
| 41 | PEAKVEL | Num | 8 | Peak MR velocity |
| 42 | VPEAKMR | Num | 8 | Peak MR velocity view quality (if PEAK_M |
| 43 | MRTVI | Num | 8 | MR TVI |
| 44 | VMRTVI | Num | 8 | MR TVI view quality (if MR_TVI missing) |
| 45 | PISARAD | Num | 8 | PISA radius |
| 46 | VPISARAD | Num | 8 | PISA radius view quality (if missing) |
| 47 | PISAVEL | Num | 8 | PISA: Alias vel |
| 48 | VPISAVEL | Num | 8 | Alias vel view quality (if PISA_ALIAS_VE |
| 49 | PISAERO | Num | 8 | PISA:ERO Formula: $(6.28 * \text{PISA_RADIUS}^2 * \text{PI}$ |
| 50 | PISAVOL | Num | 8 | PISA:Reg Vol Formula: $\text{PISA_ERO} * \text{MR_TVI}$ |
| 51 | PISAGR | Num | 8 | PISA MR grade |
| 52 | EROMRSEV | Num | 8 | ERO MR severity scale |
| 53 | MULTJETS | Num | 8 | Multiple Jets |
| 54 | LAAREA | Num | 8 | LA area |
| 55 | VLAAREA | Num | 8 | LA area view quality (if LA_AREA missing |
| 56 | MRJET | Num | 8 | MR jet |
| 57 | VMRJET | Num | 8 | MR jet view quality (if MR_JET missing) |
| 58 | MRRATIO | Num | 8 | MR/LA ratio Formula: $\text{MR_JET} / \text{LA_AREA}$ |
| 59 | MRCNT | Num | 8 | MR Vena contracta Apical |
| 60 | VMRCNT | Num | 8 | MR Vena contracta Apical view quality (i |
| 61 | OVRLGRD | Num | 8 | Overall MR severity grade |
| 62 | DTIMEDE | Num | 8 | DTI medial annulus e' |
| 63 | VDTIMEDE | Num | 8 | DTI medial annulus e' view quality (if |
| 64 | DTIMEDS | Num | 8 | DTI medial annulus s' |
| 65 | VDTIMEDS | Num | 8 | DTI medial annulus s' view quality (if |
| 66 | DTILATE | Num | 8 | DTI lateral annulus e' |
| 67 | VDTILATE | Num | 8 | DTI lateral annulus e' view quality (if |
| 68 | DTILATS | Num | 8 | DTI lateral annulus s' |
| 69 | VDTILATS | Num | 8 | DTI lateral annulus s' view quality (if |
| 70 | DTITRIE | Num | 8 | DTI tricuspid lateral annulus e' |
| 71 | VDTITRIE | Num | 8 | DTI tricuspid lateral annulus e' view q |
| 72 | DTITRIS | Num | 8 | DTI tricuspid lateral annulus s' |
| 73 | VDTITRIS | Num | 8 | DTI tricuspid lateral annulus s' view q |
| 74 | APLVDIA | Num | 8 | Apical LV LAX length diastole |
| 75 | VAPLVDIA | Num | 8 | Apical LV LAX length diastole view quali |

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 76 | LVDIASPH | Num | 8 | LV sphericity ratio Formula: LVDD_2DPLAX |
| 77 | APLVSYS | Num | 8 | Apical LV LAX length systole |
| 78 | VAPLVSYS | Num | 8 | Apical LV LAX length systole view qualit |
| 79 | LVSYSPPH | Num | 8 | LV sphericity ratio Formula: LVSD_2DPLAX |
| 80 | LVEDCH | Num | 8 | Biplane: LVED 4ch/2ch volume |
| 81 | VLVEDVOL | Num | 8 | LVED 4ch/2ch volume view quality (if LVE |
| 82 | LVECHCH | Num | 8 | Biplane: LVES 4ch/2ch volume |
| 83 | VLVESCH | Num | 8 | LVES 4ch/2ch volume view quality (if LVE |
| 84 | BPSIMPEF | Num | 8 | Bp Simp 4/2ch EF |
| 85 | LVEDVOL | Num | 8 | Single Plane: LVED 4ch volume |
| 86 | VLVEDVL4 | Num | 8 | LVED 4ch volume view quality (if LVED_4C |
| 87 | LVESVOL | Num | 8 | Single Plane: LVES 4ch volume |
| 88 | VLVESVOL | Num | 8 | LVES 4ch volume view quality (if LVES_4C |
| 89 | EFSINGLE | Num | 8 | EF by single plane vol |
| 90 | VISUALEF | Num | 8 | Visual EF |
| 91 | VVISUEF | Num | 8 | Visual EF view quality (if VISUAL_EF mis |
| 92 | LACAREA | Num | 8 | LA 4c area |
| 93 | VLACAREA | Num | 8 | LA 4c area view quality (if LA_4C_AREA m |
| 94 | LACLEN | Num | 8 | LA 4c length |
| 95 | VLACLEN | Num | 8 | LA 4c length view quality (if LA_4C LENG |
| 96 | LACHAREA | Num | 8 | LA 2ch area |
| 97 | VLACHARE | Num | 8 | LA 2ch area view quality (if LA_2CH_AREA |
| 98 | LALLEN | Num | 8 | LA 2c length |
| 99 | VLALLEN | Num | 8 | LA 2c length view quality (if LA_2C LENG |
| 100 | LAVOLUME | Num | 8 | LA volume Formula: (0.85*LA_4C_AREA*LA_2 |
| 101 | RVFUNC | Num | 8 | RV Function |
| 102 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: eligible.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--------------------------------------|
| 1 | ELIGCRIT | Num | 8 | Subject met eligibility criteria |
| 2 | EXCL1 | Num | 8 | Exclusion criteria not met reason #1 |
| 3 | EXCL2 | Num | 8 | Exclusion criteria not met reason #2 |
| 4 | EXCL3 | Num | 8 | Exclusion criteria not met reason #3 |
| 5 | FORM | Char | 40 | Form Name - Block ID |
| 6 | INCL1 | Num | 8 | Inclusion criteria not met reason #1 |
| 7 | INCL2 | Num | 8 | Inclusion criteria not met reason #2 |
| 8 | INCL3 | Num | 8 | Inclusion criteria not met reason #3 |
| 9 | WAIVER | Num | 8 | Waiver granted? |
| 10 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: escalatn.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | SDESCAL | Num | 8 | Was study drug escalated dose administer |
| 3 | ESCALREA | Num | 8 | Reason why study drug escalated dose not |
| 4 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: isdadmin.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | ISTDRUG | Num | 8 | Was study drug initial dose administered |
| 3 | ISDREASN | Num | 8 | Reason why study drug initial dose was n |
| 4 | INITSTDT | Num | 8 | Date when study drug initial dose is adm |
| 5 | INITSTTM | Num | 8 | Date and time when study drug initial do |
| 6 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: medhist1.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | CVHSP | Num | 8 | Total number of cardiovascular hospitali |
| 3 | HFHSP | Num | 8 | Number HF hosps in last 12 months |
| 4 | LVASSESS | Num | 8 | LV function assessed? |
| 5 | LVAASDT | Num | 8 | Date of last LVEF |
| 6 | LVMETH | Num | 8 | Method of assessment of LV function |
| 7 | ISCHEMIC | Num | 8 | Documented hx of ischemic heart disease? |
| 8 | ANGINA | Num | 8 | Angina pectoris |
| 9 | MI | Num | 8 | Myocardial infarction history |
| 10 | MIDT | Num | 8 | Date of most recent MI |
| 11 | LTCATH | Num | 8 | Left heart catheterization history |
| 12 | LTCATHDT | Num | 8 | Left heart catheterization date |
| 13 | LM | Num | 8 | LM |
| 14 | LAD | Num | 8 | LAD |
| 15 | LCX | Num | 8 | LCX |
| 16 | RCA | Num | 8 | RCA |
| 17 | PTCI | Num | 8 | PTCI history |
| 18 | PTCIDT | Num | 8 | date of most recent PTCI |
| 19 | CABG | Num | 8 | Coronary artery bypass graft |
| 20 | CABGDT | Num | 8 | Date of most recent CABG |
| 21 | NONISCH | Num | 8 | Evidence of non-ischemic cardiomyopathy |
| 22 | ALCOHOLC | Num | 8 | Alcoholic |
| 23 | CYTOTOXC | Num | 8 | Cytotoxic drug therapy |
| 24 | FAMILIAL | Num | 8 | Familial |
| 25 | HYPERTEN | Num | 8 | Hypertensive |
| 26 | DILATED | Num | 8 | Idiopathic dilated cardiomyopathy |
| 27 | RESTRICT | Num | 8 | Idiopathic restrictive cardiomyopathy |
| 28 | PERIPAR | Num | 8 | Peripartum |
| 29 | VAL | Num | 8 | Valvular |
| 30 | HCM | Num | 8 | HCM |
| 31 | OTHCONT | Num | 8 | Other/uncertain |
| 32 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: medhist2.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|---------------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | VALVULAR | Num | 8 | Valvular heart disease: |
| 3 | MSTENOS | Num | 8 | Mitral stenosis |
| 4 | MREGURG | Num | 8 | Mitral regurgitation |
| 5 | ATSTENOS | Num | 8 | Aortic stenosis |
| 6 | AREGURG | Num | 8 | Aortic regurgitation |
| 7 | TSTENOS | Num | 8 | Tricuspid stenosis |
| 8 | TREGURG | Num | 8 | Tricuspid regurgitation |
| 9 | NONSURG | Num | 8 | None |
| 10 | MITSURG | Num | 8 | Mitral |
| 11 | AORSURG | Num | 8 | Aortic |
| 12 | TRISURG | Num | 8 | Tricuspid |
| 13 | PULSURG | Num | 8 | Pulmonic |
| 14 | HYPRTESN | Num | 8 | Hypertension |
| 15 | TIA | Num | 8 | TIA |
| 16 | STROKE | Num | 8 | Stroke |
| 17 | ARRHYTHM | Num | 8 | Arrhythmia |
| 18 | ATRIALFB | Num | 8 | Atrial fibrillation/flutter |
| 19 | FIBFLUTR | Num | 8 | Atrial fibrillation/flutter, type |
| 20 | SUSVTVF | Num | 8 | Sustained VT or VF |
| 21 | ARREST | Num | 8 | Cardiac arrest (etiology unclear) |
| 22 | PACEMAKR | Num | 8 | Pacemaker without ICD |
| 23 | PACETYPE | Num | 8 | Pacemaker without ICD type |
| 24 | ICD | Num | 8 | ICD |
| 25 | ICDTYPE | Num | 8 | Type of ICD |
| 26 | PVD | Num | 8 | Peripheral vascular disease |
| 27 | COPD | Num | 8 | Chronic obstructive pulmonary disease |
| 28 | DIABETES | Num | 8 | Diabetes |
| 29 | DIABTYPE | Num | 8 | Diabetes treatment |
| 30 | GOUT | Num | 8 | Gout |
| 31 | HEPATIC | Num | 8 | Hepatic disease |
| 32 | MALIGNCY | Num | 8 | Malignancy |
| 33 | DEPRESS | Num | 8 | Depression |
| 34 | ALCOHOL | Num | 8 | Chronic alcohol use |
| 35 | CIGARETT | Num | 8 | Cigarette smoking |
| 36 | TRANSPLT | Num | 8 | Heart transplant status |

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 37 | TRANSPDT | Num | 8 | Date of transplant |
| 38 | LIPIDEMA | Num | 8 | Hyperlipidemia |
| 39 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: meds.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|---|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | HFMEDS | Num | 8 | Medication |
| 3 | MEDSANS | Num | 8 | Was medication taken? |
| 4 | MEDSCONT | Num | 8 | Documented Evidence of Contraindication |
| 5 | MEDRAND | Num | 8 | Meds At Randomization? |
| 6 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: mlhfq.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | MLWHF | Num | 8 | Minnesota Living with Heart Failure ques |
| 3 | MLWHFANS | Num | 8 | MLWHF answer |
| 4 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: mri.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|---|
| 1 | RMRIDT | Num | 8 | Date of MRI |
| 2 | MRIVIS | Char | 8 | Baseline / 24 Weeks |
| 3 | MRIEDV | Num | 8 | EDV (ml) |
| 4 | MRIESV | Num | 8 | ESV (ml) |
| 5 | MRILVMAS | Num | 8 | LV Mass (gm) |
| 6 | MRILVEF | Num | 8 | LVEF (%) |
| 7 | AOMXAREA | Num | 8 | Maximum Aortic Area (mm2) |
| 8 | AOMNAREA | Num | 8 | Minimum Aortic Area (mm2) |
| 9 | MRISBP | Num | 8 | Systolic Blood Pressure (mmHg) |
| 10 | MRIDBP | Num | 8 | Diastolic Blood Pressure (mmHg) |
| 11 | MRIHR | Num | 8 | Heart Rate (beats/min) |
| 12 | MRIAODST | Num | 8 | Aortic Distensibility (10 ⁻³ mmHg) ⁻¹ |
| 13 | MRIAOTH | Num | 8 | Aortic Thickness (mm) |
| 14 | MRICO | Num | 8 | Cardiac Output (L/min) |
| 15 | MRIMAP | Num | 8 | Mean Arterial Pressure (mmHg) |
| 16 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: *procedur.sas7bdat*

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|-------------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | PROLCATH | Num | 8 | Left heart catheterization |
| 3 | PRORCATH | Num | 8 | Right heart catheterization |
| 4 | PAGEREP | Num | 8 | Page ID Repeat |
| 5 | PROPCI | Num | 8 | PCI |
| 6 | PROCABG | Num | 8 | Coronary artery bypass graft |
| 7 | PRONOICD | Num | 8 | Pacemaker without ICD |
| 8 | PROCPACE | Num | 8 | Pacemaker without ICD type |
| 9 | PROCICD | Num | 8 | ICD |
| 10 | PROCEICD | Num | 8 | ICD type |
| 11 | PROIABP | Num | 8 | Intra-aortic balloon pump placement |
| 12 | PROULTRA | Num | 8 | Ultrafiltration |
| 13 | PROBLAT | Num | 8 | Atrial arrhythmia ablation |
| 14 | PROCPR | Num | 8 | CPR |
| 15 | PROCARDI | Num | 8 | Cardioversion |
| 16 | PROLVAD | Num | 8 | LVAD placement |
| 17 | PRLVADDT | Num | 8 | LVAD Placement date |
| 18 | PRODIAL | Num | 8 | Dialysis |
| 19 | PROHTRAN | Num | 8 | Heart transplant |
| 20 | PRHTRDDT | Num | 8 | Heart transplant date |
| 21 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: rehosptl.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | REHOSPDT | Num | 8 | Admission date |
| 3 | REDCHGDT | Num | 8 | Discharge date |
| 4 | INREHOSP | Num | 8 | Remains hospitalized |
| 5 | PRIMCAUS | Num | 8 | Primary reason for hospitalization |
| 6 | PAGEREP | Num | 8 | Page ID Repeat |
| 7 | REHTFAIL | Num | 8 | Heart failure - secondary |
| 8 | REANGINA | Num | 8 | Angina - secondary |
| 9 | REMI | Num | 8 | MI - secondary |
| 10 | REATRIAL | Num | 8 | Atrial arrhythmia - secondary |
| 11 | REARRHY | Num | 8 | Ventricular arrhythmia - secondary |
| 12 | RECTPAIN | Num | 8 | Chest pain - secondary |
| 13 | RESUSCIT | Num | 8 | Sudden death w/resuscitation - secondary |
| 14 | RECVA | Num | 8 | CVA/stroke - secondary |
| 15 | REPVD | Num | 8 | Peripheral vascular disease - secondary |
| 16 | RESYNCO | Num | 8 | Syncope - secondary |
| 17 | REHYPOTN | Num | 8 | Hypotension - secondary |
| 18 | RECARDPR | Num | 8 | Elective cardiac procedure - secondary |
| 19 | REOTCARD | Num | 8 | Other cardiovascular - secondary |
| 20 | RERENAL | Num | 8 | Renal failure - secondary |
| 21 | REWORSE | Num | 8 | Worsening renal failure - secondary |
| 22 | REKALEMA | Num | 8 | Hyperkalemia - secondary |
| 23 | REINFECT | Num | 8 | Infection - secondary |
| 24 | RENON | Num | 8 | Elective non-cardiac procedure - seconda |
| 25 | REOTNON | Num | 8 | Other non-cardiovascular - secondary |
| 26 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: relxcore.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | RXCORED | Num | 8 | Date of test |
| 3 | RXCORETM | Num | 8 | date and time of test |
| 4 | RXSCHDAS | Num | 8 | Core lab Assessment Tests |
| 5 | RXCOREND | Num | 8 | Test not done |
| 6 | RXCRND | Num | 8 | Reason not done |
| 7 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: rxterm.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|----------|------|-----|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | RXTERMDT | Num | 8 | Date of termination |
| 3 | RXCOMPLE | Num | 8 | subject complete the study? |
| 4 | RXTERMRE | Num | 8 | Reason for termination |
| 5 | RXSTPDT | Num | 8 | Last known date the subject took the stu |
| 6 | RXPERMST | Num | 8 | was study drug permanently discontinued |
| 7 | RXSTPREA | Num | 8 | Primary reason for discontinuation |
| 8 | RXUNBLND | Num | 8 | Was study drug unblinded |
| 9 | RXUNBLDT | Num | 8 | Date unblinded |
| 10 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: safety.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|-------------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | SAENUMB | Num | 8 | Number serious adverse events |
| 3 | REHOSNUM | Num | 8 | How many re-hospitalizations? |
| 4 | ERNUMB | Num | 8 | Number unscheduled clinic/ED visits |
| 5 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: *sdachg.sas7bdat*

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | SDADJUST | Num | 8 | Was study drug dose adjusted/discontinue |
| 3 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: status.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | EVALDT | Num | 8 | Date of assessment |
| 3 | EARLYTRM | Num | 8 | Early Termination |
| 4 | EVALUTE | Num | 8 | Assessment performed? |
| 5 | SUBJSTAT | Num | 8 | Subject status |
| 6 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: unschedl.sas7bdat

| Num | Variable | Type | Len | Label |
|------------|-----------------|-------------|------------|--|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | UNSCHEDT | Num | 8 | Visit date |
| 3 | VISTYPE | Num | 8 | Visit type |
| 4 | HFVISIT | Num | 8 | Was this visit related to heart failure? |
| 5 | DECOMPHF | Num | 8 | Signs/symptoms indicating decompensated |
| 6 | IVFORHF | Num | 8 | IV treatment for heart failure received |
| 7 | patnumb | Char | 6 | De-identified patient number |

Data Set Name: walktest.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|-----------|------|-----|-----------------------------------|
| 1 | FORM | Char | 40 | Form Name - Block ID |
| 2 | WALK | Num | 8 | Was walk test performed? |
| 3 | WLKND | Num | 8 | Walk test not performed reasons |
| 4 | WALKDT | Num | 8 | Date of 6 minute walk assessment |
| 5 | PREHRATE | Num | 8 | Prewalk heart rate |
| 6 | PREBPSYS | Num | 8 | Prewalk blood pressure systolic |
| 7 | PREBPDIA | Num | 8 | Prewalk blood pressure diastolic |
| 8 | PSTHRATE | Num | 8 | Post walk heart rate |
| 9 | PSTBPSYS | Num | 8 | Post walk blood pressure systolic |
| 10 | PSTBPDIA | Num | 8 | Post walk blood pressure diatolic |
| 11 | WLKDIST | Num | 8 | Distance walked |
| 12 | WLKCOMPL | Num | 8 | Walk completed? |
| 13 | WLKMIN | Num | 8 | Minutes walked |
| 14 | WLKSEC | Num | 8 | Seconds walked |
| 15 | WLKNONE | Num | 8 | None (Symptoms) |
| 16 | WLKANGIN | Num | 8 | Angina |
| 17 | WLKLGTHD | Num | 8 | Lightheadedness |
| 18 | WLKSYNCP | Num | 8 | Syncope |
| 19 | WLKDYSPPN | Num | 8 | Dyspnea |
| 20 | WLKFATIG | Num | 8 | Fatigue |
| 21 | WLKCHTPN | Num | 8 | Chest pain |
| 22 | WLKLEGPN | Num | 8 | Leg or joint pain |
| 23 | WLKINSTA | Num | 8 | Instability |
| 24 | WLKOTH | Num | 8 | Other Symptom |
| 25 | patnumb | Char | 6 | De-identified patient number |