* **#:** Orthogonal identifier
* **Type:** Case vs. Control
* **RandID:** Primary identifier for de-anonymization
* **Study Date:** Date of cMRI image acquisition (used for analysis)
* **Gender:** Male vs. Female
* **PMH:** Past medical history
* **CT Surgeries:** Previous cardiothoracic surgeries
* **Hx of Stroke:** Yes vs. No
* **Clinic Visit Date:** Date of research study clinic visit
* **BP:** Blood Pressure
* **Anti-HTN Meds:** Hypertension medications
* **Date of Echo:** Date of echocardiographic analysis
* **Days b/w ECHO & CMR** = Date\_MRI – Date\_ECHO
* **AoV velocity (m/s):** Velocity of aortic jet; higher is suggestive of aortic stenosis
* **Date of CMR:** Initial cardiac MR evaluation
* **AoV morphology:** RL = right-left fusion, RN = right-non-coronary fusion
* **Diagnosis:** Significant cardiovascular diagnoses
* **AR:** Aortic regurgitation, classed with none, trivial, mild, moderate, severe
* **AS:** Aortic stenosis, generally classed as none, trivial, mild, moderate, severe
* **LVEDV (mL):** Left ventricular end-diastolic volume, volume of left ventricle when completely “filled” prior to ejection
* **LVEDVi (mL/m2):** LVEDV indexed to body surface area
* **LVESV (mL):** Left ventricular end-systolic volume, volume of left ventricle immediately after ejection
* **LVESVi (mL/m2):** LVESV indexed to body surface area
* **EF (%):** Ejection fraction, fraction of LVEDV ejected
* **Ht (cm):** Height in cm
* **Wt (kg):** Weight in kg
* **BSA (m2):** Body surface area in m2
* **NR:** Coaptation area between non-coronary and right coronary leaflets, mm2
* **NR Frac:** Fraction of coaptation area between non-coronary and right coronary leaflets of total coaptation area
* **RL:** Coaptation area between right and left coronary leaflets, mm2
* **RL Frac:** Fraction of coaptation area between right and left coronary leaflets of total coaptation area
* **LN:** Coaptation area between left coronary and non-coronary leaflets, mm2
* **LN Frac:** Fraction of coaptation area between left coronary and non-coronary leaflets of total coaptation areas
* **Total Area Value:** Value of sum of three coaptation areas, NR, RL, and LN
* **Total Area:** Calculation of sum of three coaptation areas, NR, RL, and LN
* **Orifice Area:** Orifice area at level between LVOT and aortic valve
* **Valve Diameter:** Diameter of valve when valve fitted to circle at level of widest point, based on three points, mm
* **Valve Area:** Calculation of valve area based on valve diameter, mm2
* **A\_coap/Size\_valve:** Total valve coaptation area indexed to valve diameter
* **A\_coap/orifice area:** Total valve coaptation area indexed to orifice area
* **A\_coap/valve area:** Total valve coaptation areas indexed to valve area
* **Mimics Notes:** Notes from aortic valve segmentation
* **3-Matic Notes:** Notes from engineering of mirrored aortic valve
* **Type:** Case vs. Control (repeat)
* **XYBAVtype:** Estimation of BAV type by Xiao-Yue based on 3D MRI evaluation (no echo, cMRI cine loops, no chart)
* **XYaortopathy:** Aortopathy estimation, classed as 1, 2, and 3 based on extent of aortic root/ascending aorta disease
* **CentroidCalcX:** Estimation of actual coaptation centroid at most superior valve-plane, x-component
* **CentroidCalcY:** Estimation of actual coaptation centroid at most superior valve-plane, y-component
* **CentroidGeoX:** Geometric center of valve at most superior valve-plane based on three-point circle, x component
* **CentroidGeoY:** Geometric center of valve at most superior valve-plane based on three-point circle, y component
* **CentroidBottomX:** Coordinate of bottommost coaptation point where three valves are coapting (inferior terminus of triple coaptation line), x component
* **CentroidBottomY:** Coordinate of bottommost coaptation point where three valves are coapting (inferior terminus of triple coaptation line), y component
* **CentroidBottomZ:** Coordinate of bottommost coaptation point where three valves are coapting (inferior terminus of triple coaptation line), z component
* **Nstar\_X:** Point on most superior valve-plane which points to center of non-coronary sinus for use in internal valve orientation reference, x component
* **Nstar\_Y:** Point on most superior valve-plane which points to center of non-coronary sinus for use in internal valve orientation reference, y component
* **Coapt\_Line\_Length:** Length of line of triple coaptation (Pythagorean theorem based on CentroidCalc and CentroidBottom points)