

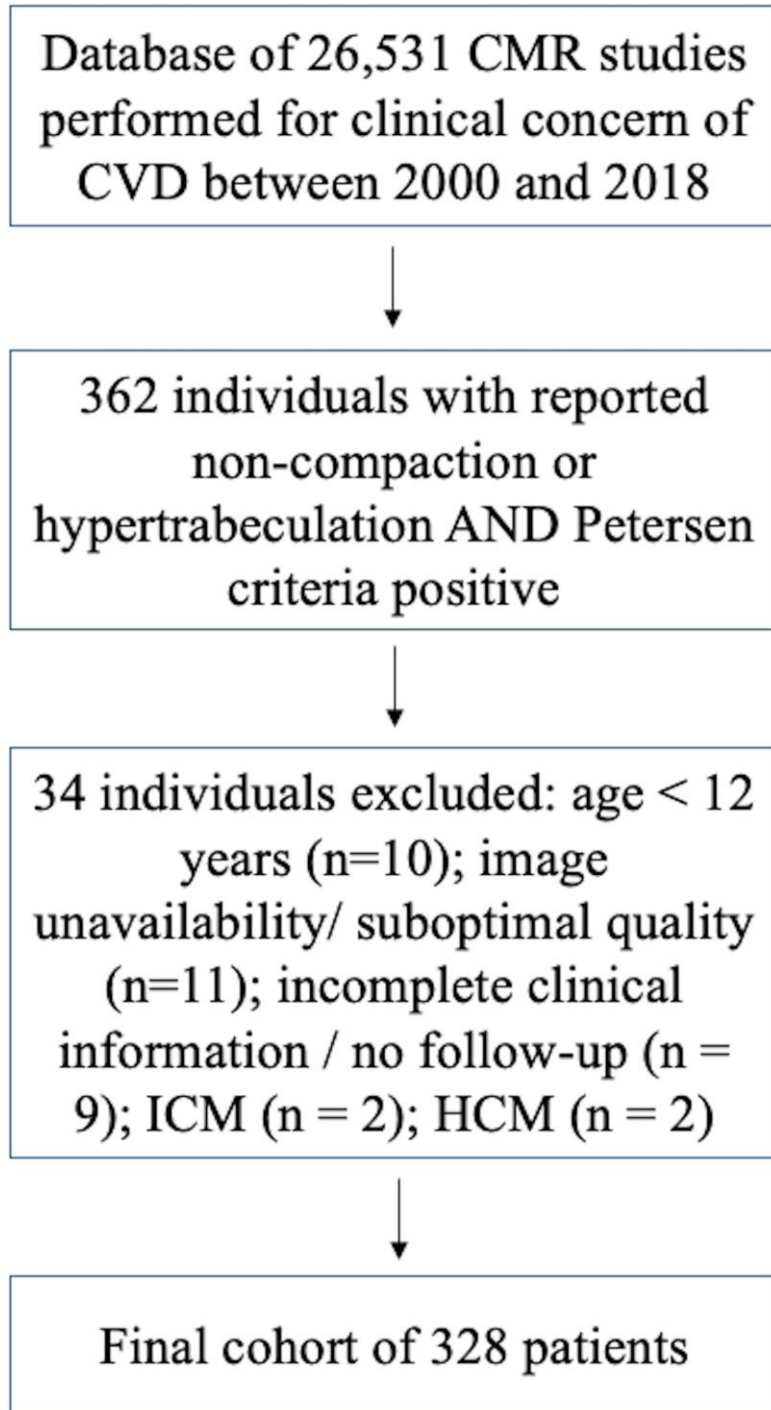
Supplemental Material

Table S1. Results of Multivariable Models with LVEDVi.

	Independent Variables	Estimated HRs (p-value)
Model 1: Full main effects	Medical risk score LVEDVi LAVI Abrupt thinning Maximal T/ C ratio T/C ratio >3:1 in segments 1–3, 7–16 Basal to mid septal hypertrabeculation Basal to mid anterior hypertrabeculation Basal to mid inferior hypertrabeculation Basal to mid lateral hypertrabeculation Apical hypertrabeculation	2.19 (<0.001) 1.00 (0.100) 1.01 (0.169) 1.55 (0.097) 0.95 (0.696) 1.39 (0.246) 1.15 (0.693) 1.46 (0.264) 1.47 (0.234) 0.82 (0.443) 0.57 (0.094)
Model 2: Reduced main effects	Medical risk score Abrupt thinning LAVI	2.27 (<0.001) 1.87 (adjusted 0.012) 1.01 (adjusted 0.029)
Model 3: Reduced main effects with BNP	Medical risk score Abrupt thinning LAVI Elevated BNP	2.08 (<0.001) 1.88 (adjusted 0.020) 1.01 (adjusted 0.374) 3.12 (adjusted 0.015)
Model 4: Reduced main effects with LGE	Medical risk score Abrupt thinning LAVI_MRI LGE	2.25 (<0.001) 1.64 (adjusted 0.123) 1.01 (adjusted 0.188) 1.20 (adjusted 0.442)
Model 5: Final Model	Medical risk score Abrupt thinning Elevated BNP	2.11 (<0.001) [95% CI: 1.57, 2.83] 1.93 (adjusted 0.006) [95% CI: 1.21, 3.09] 3.53 (adjusted 0.002) [95% CI: 1.64, 7.57]

BNP: brain natriuretic peptide; LAVI: left atrial volume index; LGE: late gadolinium enhancement; LV: Left ventricular; LVEDVi: left ventricular end diastolic volume index; NC/C: Trabeculated / compacted RV: right ventricular

Figure S1. Flow diagram demonstrating derivation of study cohort.



CMR: cardiac magnetic resonance; CVD: cardiovascular disease; ICM: ischemic cardiomyopathy; hypertrophic cardiomyopathy,

Figure S2. Example of medical risk calculation.

	Score Components
Age \geq 50?	+1.9
Male gender?	-11.7
Diabetes ?	-50.8
Atrial arrhythmias?	+56.3
History of heart failure?	+141.9
Systemic Embolization?	+74.8
LBBB or RBBB?	+70.3

Example: 58-year-old female with LBBB and a history of heart failure:

$$\text{Score}^* = 1.9 + 141.9 + 70.3 = 214.1$$

*Note: This is a score indicating relative (not absolute) medical risk of MACE.

LBBB: left bundle branch block; MACE = major adverse cardiovascular events, RBBB: right bundle branch block