

Supplementary Online Content

Modi ZJ, Lu Y, Ji N, et al. Risk of cardiovascular disease and mortality in young adults with end-stage renal disease: an analysis of the United States Renal Data System. *JAMA Cardiol*. Published online March 20, 2019. doi:10.1001/jamacardio.2019.0375

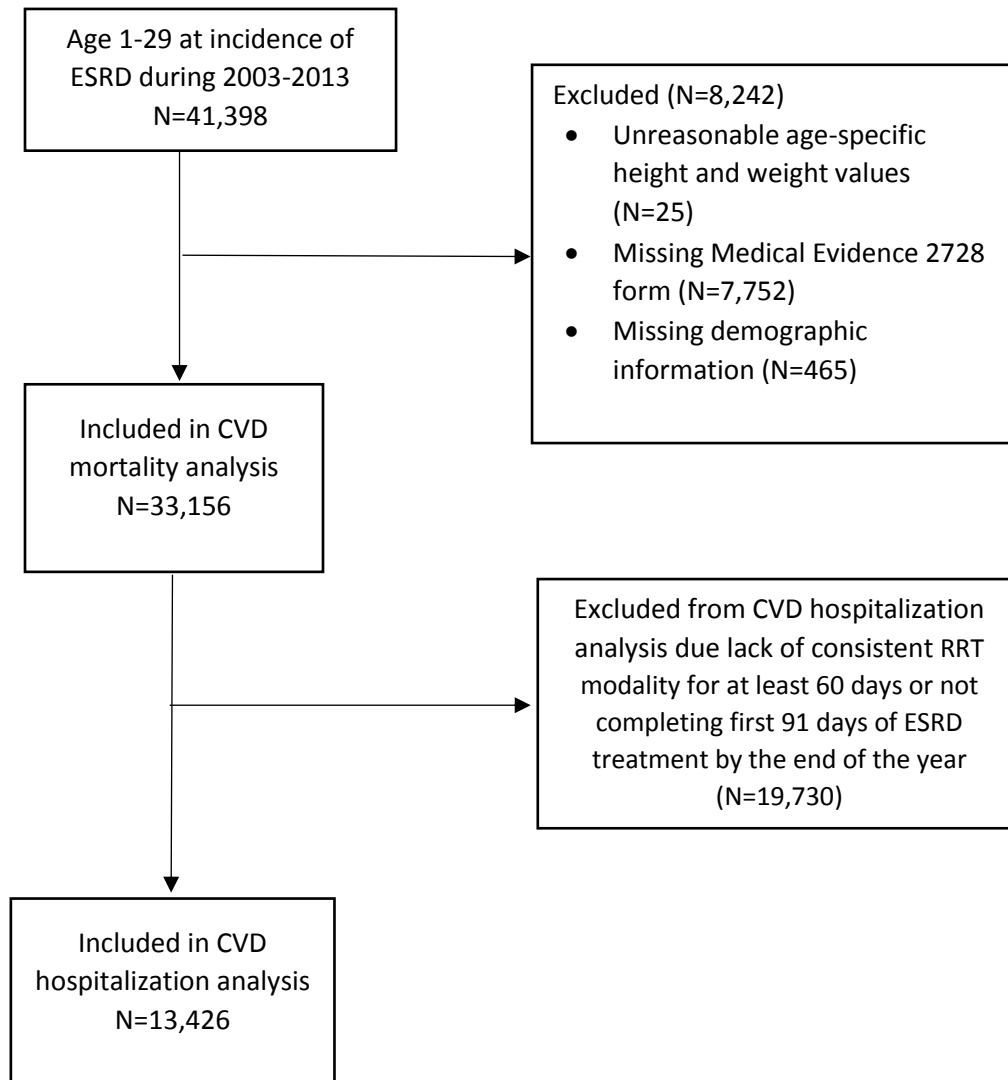
eFigure. Participation Flowchart

eTable 1. ICD-9 Codes Used for Cardiovascular Hospitalizations

eTable 2. Death Notification Form Cause of Death Codes Used for Cardiovascular Mortality

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. Participation Flowchart



eTable 1. ICD-9 Codes Used for Cardiovascular Hospitalizations

Diagnosis Groups	ICD-9 Diagnosis and Procedure Codes
Coronary Artery Disease and Infarction	410, 410.0, 410.1, 410.2, 410.3, 410.4, 410.5, 410.6, 410.7, 410.8, 410.9, 411, 411.0, 411.1, 411.8, 412, 413, 413.0, 413.1, 413.9, 414, 414.0, 414.01, 414.02, 414.05, 414.06, 414.07, 414.1, 414.10, 414.11, 414.12, 414.19, 414.2, 414.3, 414.4, 414.8, 414.9, 440, 440.1, 440.2, 440.21, 440.22, 440.23, 440.24, 440.29, 440.3, 440.4, 440.8, 440.9, 441, 441.0, 441.3, 441.4, 441.9, 442, 443.2, 443.21, 443.22, 443.23, 443.24, 443.29, 443.8, 443.9, 444, 445, 447.1, 447.2, 447.3, 447.5, 447.6, 447.7, 447.70, 447.71, 447.72, 447.73, 447.8, 447.9, 448, 448.0, 448.1, 448.9, 449, 429.2, 459.1, 459.10, 459.11, 459.12, 459.13, 459.19, 459.2, 459.3, 459.30, 459.31, 459.32, 459.33, 459.39, 459.8, 459.81, 459.89, 459.9, 429.7, 429.71, 429.79
Arrhythmia	426, 426.0, 426.1, 426.10, 426.11, 426.12, 426.13, 426.3, 426.4, 426.5, 426.6, 426.7, 426.8, 426.9, 427, 427.0, 427.1, 427.2, 427.3, 427.31, 427.32, 427.4, 427.41, 427.5, 427.6, 427.8, 427.81, 427.89, 427.9
Heart Failure	404.03, 428, 428.0, 428.1, 428.20, 428.21, 428.22, 428.23, 428.30, 428.31, 428.32, 428.33, 428.40, 428.41, 428.42, 428.43, 428.9, 402.01, 402.11, 402.91, 404.13, 404.93, 398.91
Non-Atherosclerotic Vascular Disease	442.0, 442.2, 442.3, 442.82, 444.21, 447.0, 430, 431, 432, 432.0, 432.1, 432.9, 433, 433.0, 433.1, 433.2, 433.3, 433.8, 433.9, 434.0, 434.00, 434.01, 434.1, 434.10, 434.11, 434.9, 435, 435.0, 435.1, 435.2, 435.3, 435.8, 435.9, 436, 437, 437.0, 437.1, 437.3, 437.4, 437.5, 437.6, 437.7, 437.8, 437.9, 438, 438.0, 438.1, 438.10, 438.11, 438.12, 438.13, 438.14, 438.19, 438.2, 438.20, 438.21, 438.22, 438.3, 438.4, 438.5, 438.8, 438.81, 438.82, 438.83, 438.84, 438.85, 438.9, 446, 446.1, 446.5, 443.82, 443.0, 443.1, 447.4
Valve Disease	394, 395, 396, 397, 391.1, 424.0, 424.1, 424.3, V433, 424.9, 421, 421.0
Other	420, 420.9, 420.91, 422, 422.9, 422.91, 423, 425, 425.0, 425.1, 425.2, 425.3, 425.4, 425.5, 425.7, 425.8, 425.9, 429, 429.0, 429.1, 429.2, 429.3, 429.4, 429.5, 429.6, 429.8, 429.81, 429.82, 429.83, 429.89, 429.9, 416, 746.1, 746.2, 746.3, 746.4, 746.5, 746.6, 746.7, 746.8, 746.81, 746.82, 746.83, 746.84, 746.85, 746.86, 746.87, 746.89, 745, 745.0, 745.1, 745.10, 745.11, 745.12, 745.19, 745.2, 745.3, 745.4, 745.5, 745.6, 745.60, 745.61, 745.69, 745.7, 745.8, 745.9, 398.99, 398.0, 398.9, 398.90, 391.2, 391.8, 391.9, 391.0, 402.00, 402.10, 402.90, 404.02, 404.12, 404.92, 747, 747.0, 747.1, 471.0, 747.11, 747.2, 747.20, 747.21, 747.22, 747.29, 747.3, 747.31, 747.32, 747.39, 747.4, 747.40, 747.41, 747.42, 747.49, 747.5, 747.6, 747.60, 747.62, 747.63, 747.64, 747.69, 747.8, 747.81, 747.82, 747.83, 747.89, 747.9

eTable 2. Death Notification Form Cause of Death Codes Used for Cardiovascular Mortality

Cause of Death Codes Included
23 Acute Myocardial Infarction
25 Pericarditis, including Cardiac Tamponade
26 Atherosclerotic Heart Disease
27 Cardiomyopathy
28 Cardiac Arrhythmia
29 Cardiac Arrest
30 Valvular Heart Disease
32 Congestive Heart Failure
36 Cerebrovascular Accident including Intracranial Hemorrhage
61 Cardiac Infection (Endocarditis)