

Supplementary Online Content

Mandsager K, Harb S, Cremer P, Phelan D, Nissen SE, Jaber W. Association of cardiorespiratory fitness with long-term mortality among adults undergoing exercise treadmill testing. *JAMA Netw Open*. 2018;1(6):e20183605.

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

eMethods. Definitions of Comorbid Conditions

Coronary Artery Disease: prior myocardial infarction or prior coronary revascularization

Diabetes Mellitus: self-reported history or use of glucose-lowering medications

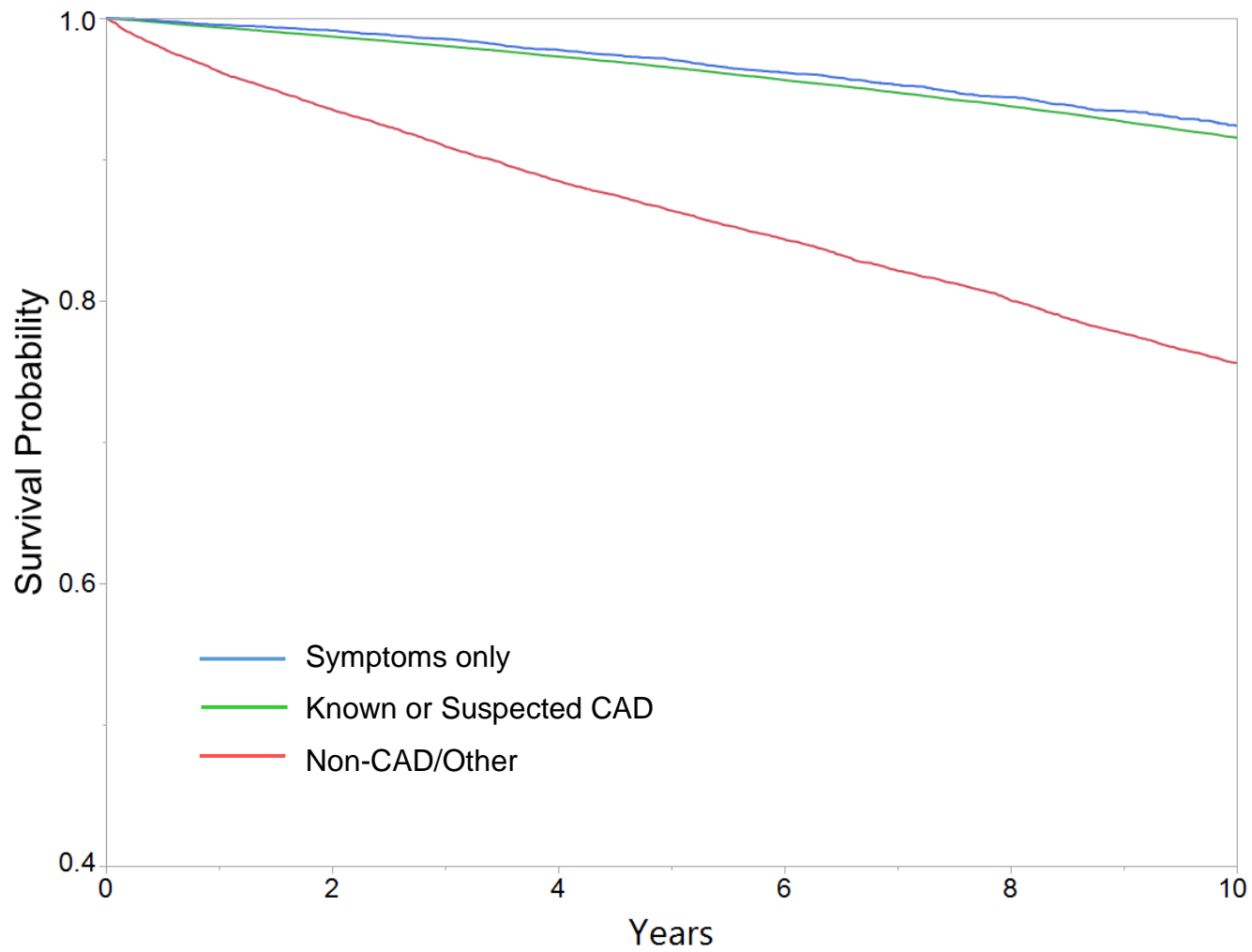
Hypertension: self-reported history or use of anti-hypertensive medications (angiotensin converting enzyme inhibitors, angiotensin receptor blockers, calcium channel blockers, or thiazide diuretics)

Hyperlipidemia: Abnormal lipid panel (meeting accepted diagnostic criteria at the time of treadmill testing) or use of statin medications

Smoker: current or prior tobacco use

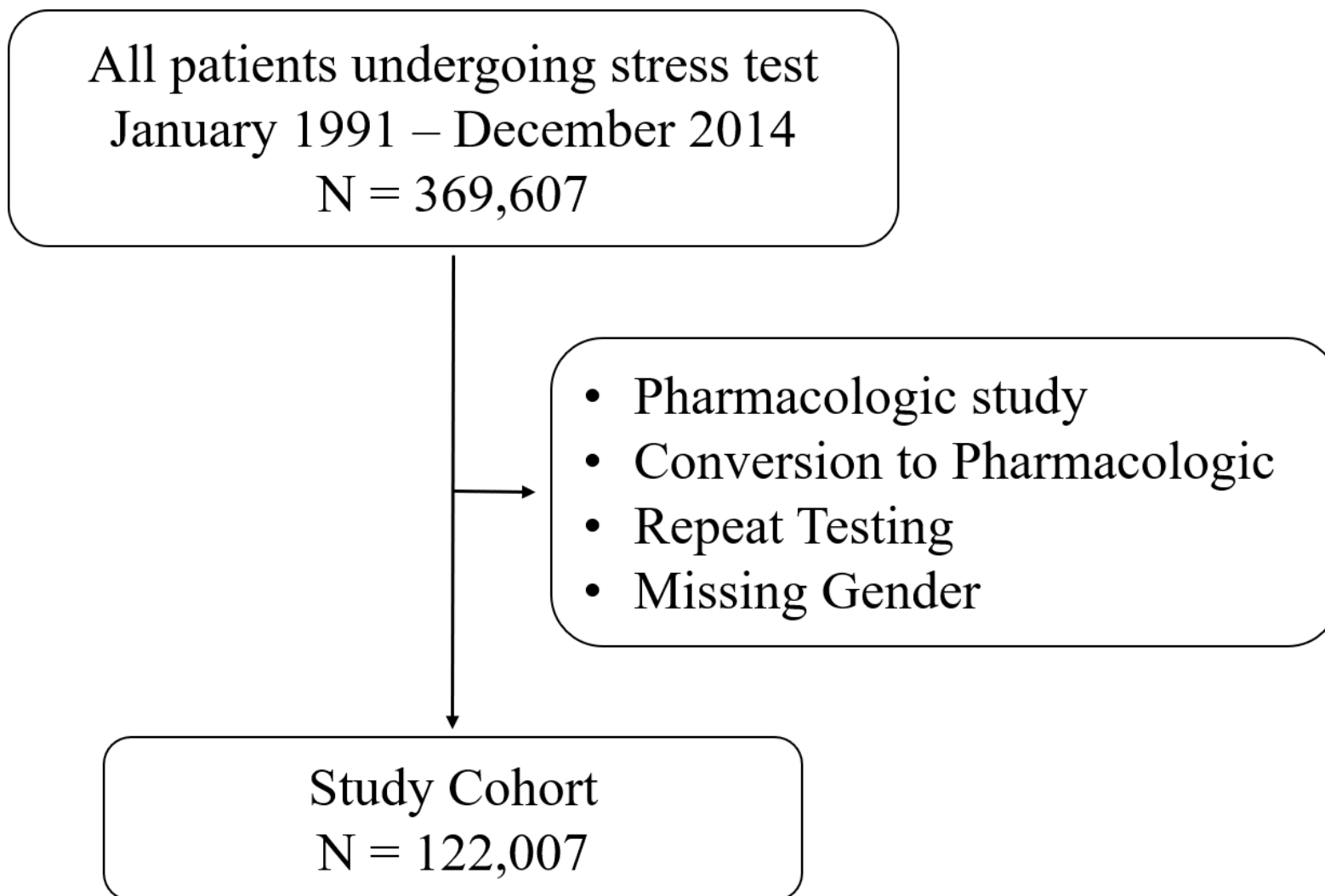
End-stage renal disease: receiving dialysis

eFigure 1. Kaplan-Meier Curves by Indication for Exercise Treadmill Testing

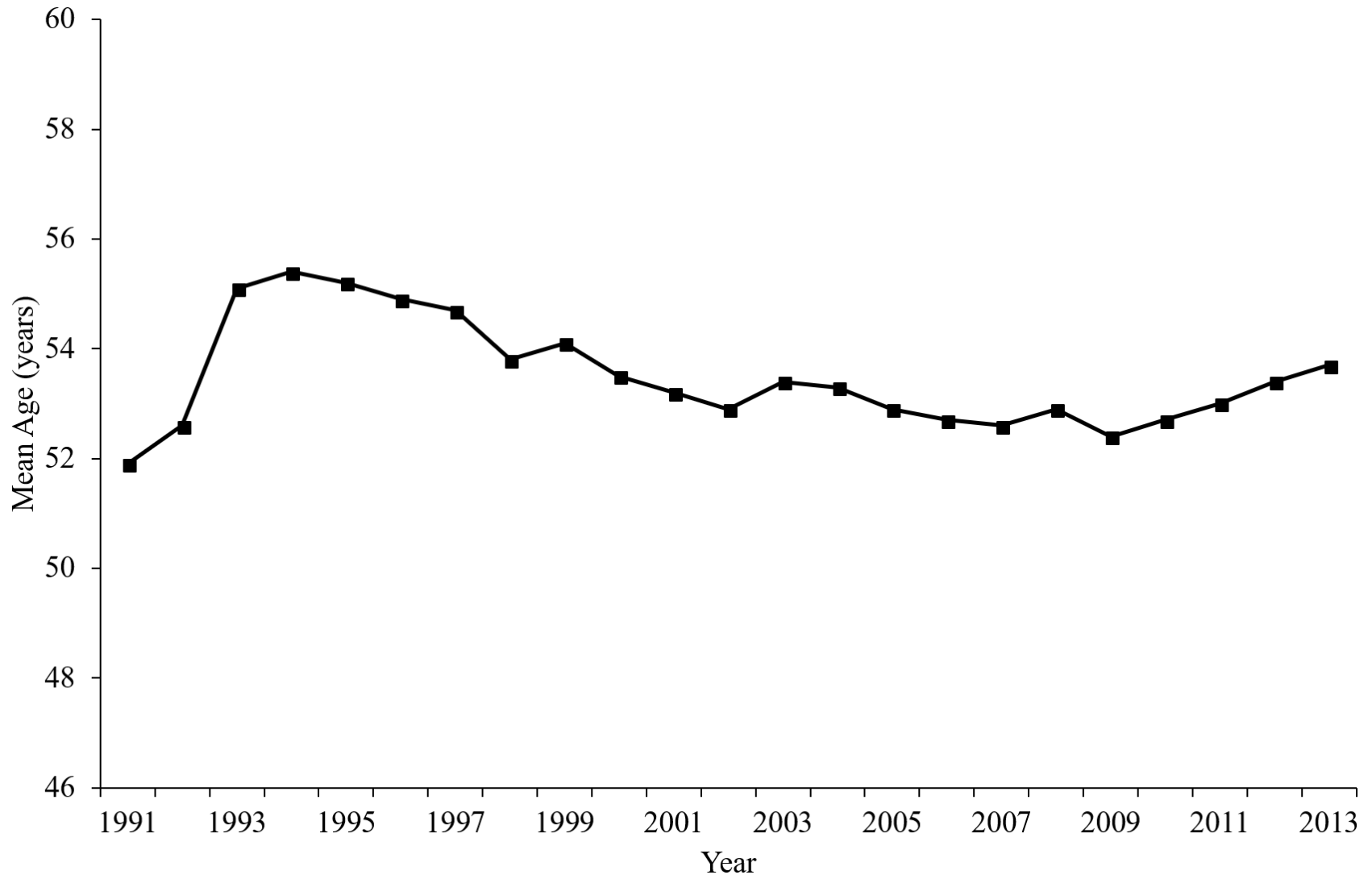


Log rank $p < 0.0001$. CAD = coronary artery disease

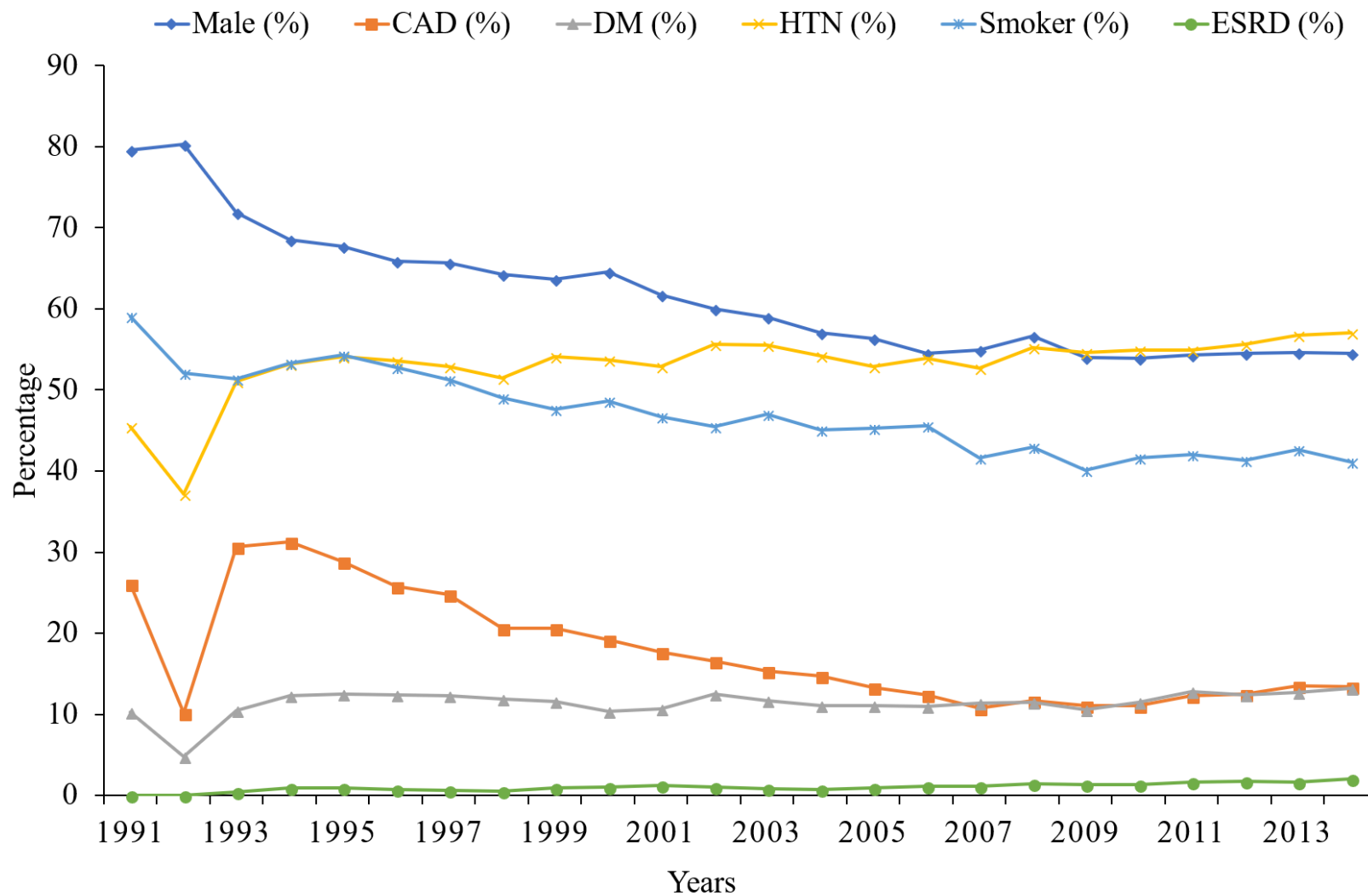
eFigure 2. Study Cohort Flow Chart



eFigure 3. Mean Age of the Cohort by Year of Study

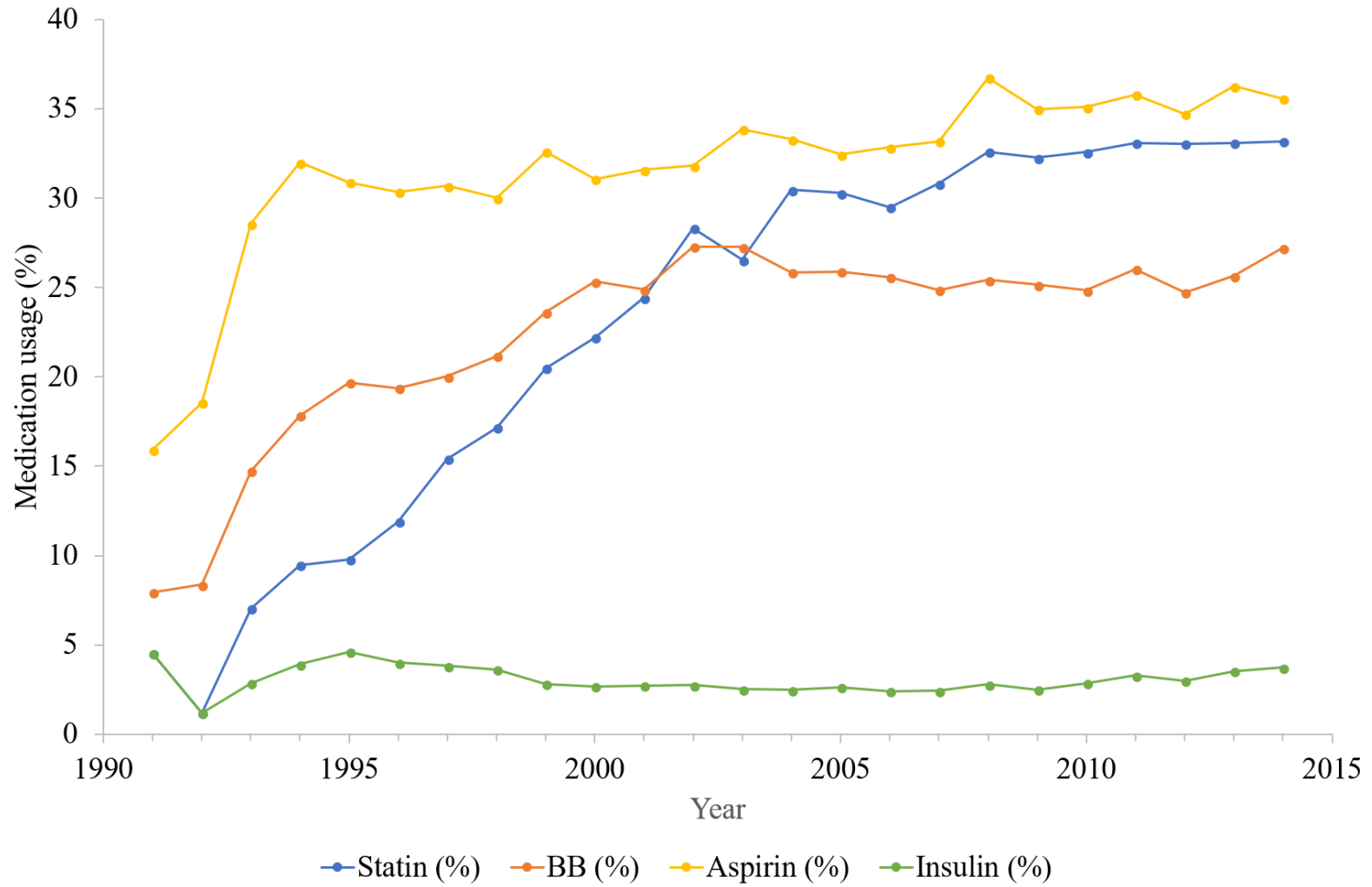


eFigure 4. Trends in Male Referral and Comorbidities by Year of Study



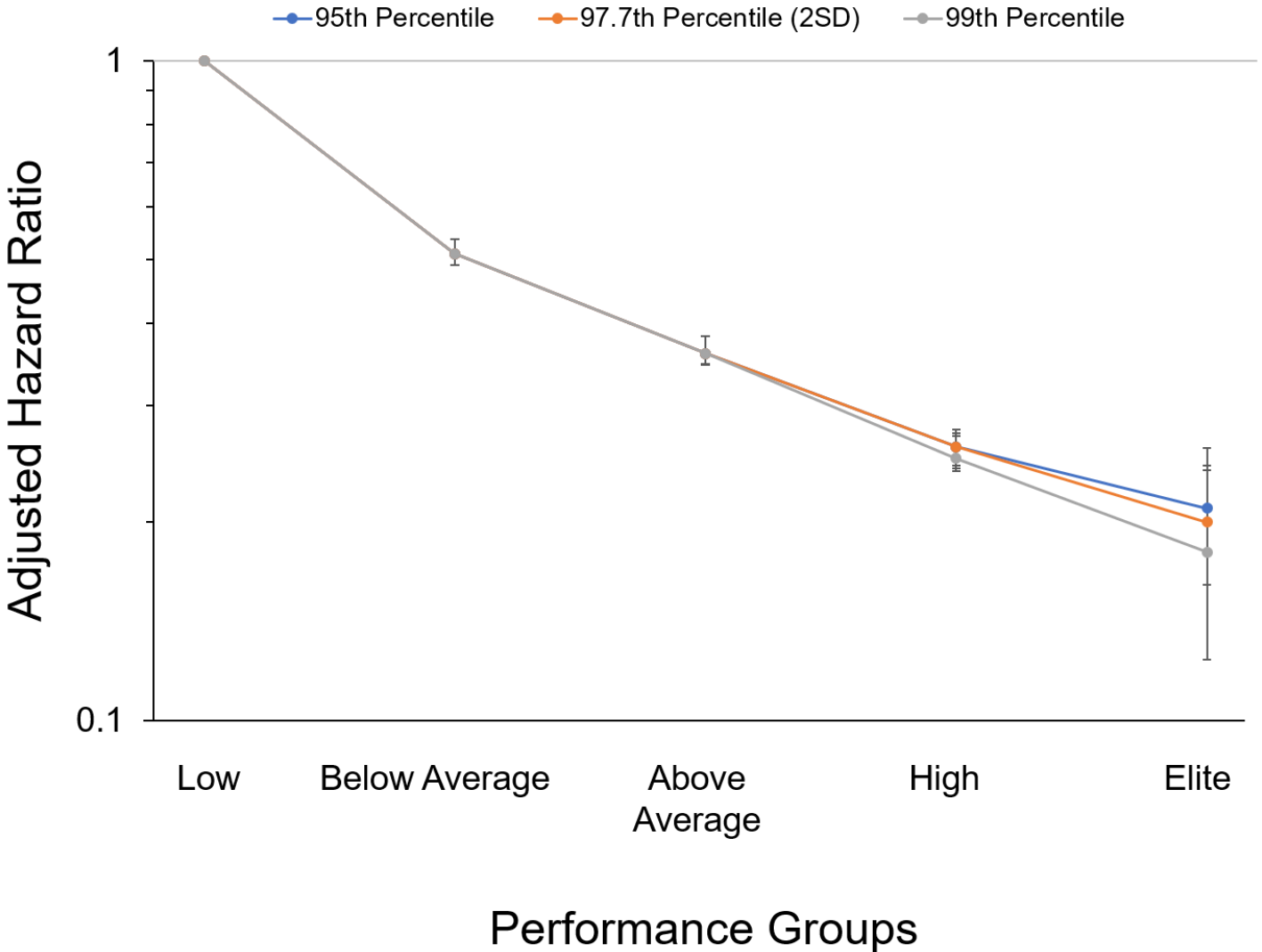
CAD = coronary artery disease; DM = Diabetes Mellitus; HTN = Hypertension; ESRD = end-stage renal disease.

eFigure 5. Trends in Medication Use by Year of Exercise Treadmill Testing

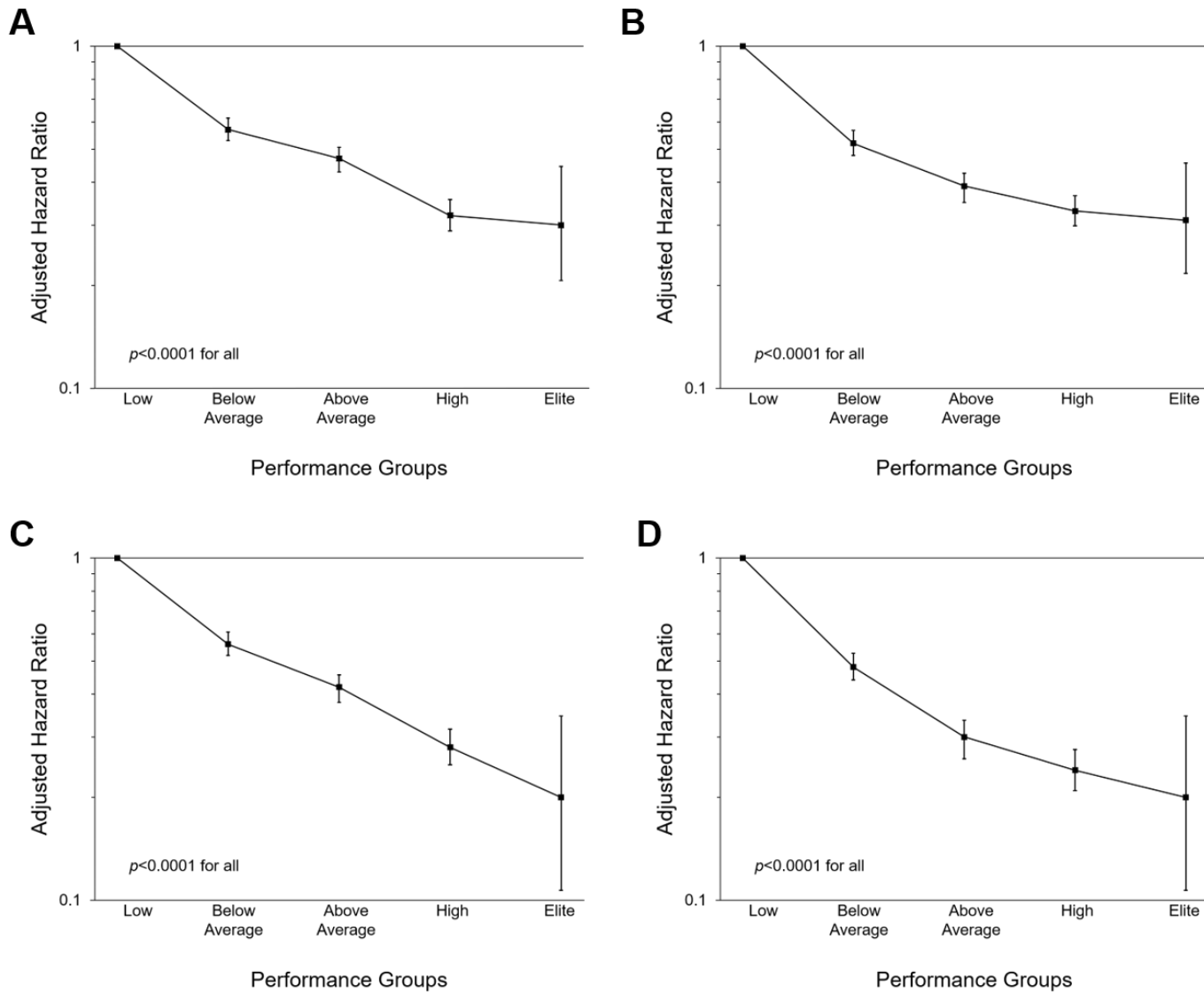


BB = Beta-blocker

eFigure 6. Risk-Adjusted All-Cause Mortality by Elite Performance Cutoff



eFigure 7. Adjusted Risk of Death in Patients With Comorbidities



Patients with (A) coronary artery disease; (B) diabetes; (C) hypertension; (D) hyperlipidemia. p -values compared to low performers.

eTable. Most Common Indications for Exercise Stress Testing

Indication for exercise stress testing	No. (%)
Rule out CAD	80,197 (65.8)
Symptom evaluation	62,461 (51.2)
Risk factors for CAD	20,507 (16.8)
Follow-up known CAD	15,941 (13.0)
Others*	15,474 (12.7)

Indications are not mutually exclusive. *Others with $\geq 4\%$: preoperative clearance (4%), arrhythmia evaluation (5%) and valvular disease (8%).

CAD = coronary artery disease.