

Supplementary Online Content

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eTable. Survival Model Coefficients for Ischemic Heart Disease and Chronic Heart Failure Cohorts

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

eTable. Survival Model Coefficients for Ischemic Heart Disease and Chronic Heart Failure Cohorts

Characteristic	IHD		CHF	
	Hazard Ratio (95% CI)	P-value	Hazard Ratio (95% CI)	P-value
Age	1.04* (1.04, 1.05)	<0.001	1.03* (1.03, 1.04)	<0.001
Female gender	1.08 (1.03, 1.12)	<0.001	1.10 (1.06, 1.15)	<0.001
Date entering cohort [†]				
April 1, 2010 – September 30, 2010	Comparator group			
July 1, 2010 – September 30, 2010	0.80 (0.75, 0.86)	<0.001	0.94 (0.87, 1.01)	0.08
October 1, 2010 – September 30, 2011	0.96 (0.94, 0.98)	<0.001	0.95 (0.93, 0.97)	<0.001
October 1, 2011 – September 30, 2012	0.89 (0.88, 0.91)	<0.001	0.90 (0.88, 0.92)	<0.001
October 1, 2012 – September 30, 2013	0.88 (0.86, 0.89)	<0.001	0.90 (0.88, 0.92)	0.001
October 1, 2013 – September 30, 2014	0.85 (0.83, 0.86)	<0.001	0.88 (0.86, 0.90)	<0.001
Non-VA (Medicare-reimbursed) health care (%) [‡]				
Non-Medicare enrollees	Comparator group			
0 to <20%	0.83 (0.82, 0.84)	<0.001	0.85 (0.84, 0.86)	<0.001
20% to <80%	0.91 (0.90, 0.92)	<0.001	1.10 (1.08, 1.12)	<0.001
80% to 100%	1.40 (1.38, 1.41)	<0.001	1.42 (1.39, 1.44)	<0.001

Clinical comorbidities				
Alcohol abuse	1.15 (1.13, 1.17)	<0.001	1.06 (1.04, 1.08)	<0.001
Blood loss anemia	0.89 (0.86, 0.91)	<0.001	0.92 (0.89, 0.96)	<0.001
Cerebrovascular disease without recent stroke	1.12 (1.10, 1.13)	<0.001	1.12 (1.10, 1.14)	<0.001
Chronic heart failure	1.63 (1.61, 1.64)	<0.001	N/A	N/A
Chronic kidney disease	1.23 (1.22, 1.25)	<0.001	1.26 (1.24, 1.27)	<0.001
Chronic liver disease	1.64 (1.61, 1.67)	<0.001	1.46 (1.43, 1.96)	<0.001
Chronic peptic ulcer disease	0.88 (0.79, 0.98)	0.02	0.81 (0.71, 0.93)	0.003
Chronic pulmonary disease	1.31 (1.30, 1.32)	<0.001	1.19 (1.18, 1.20)	<0.001
Coagulation disorders	1.12 (1.11, 1.14)	<0.001	1.12 (1.10, 1.14)	<0.001
Deficiency anemias	1.21 (1.20, 1.22)	<0.001	1.13 (1.11, 1.14)	<0.001
Dementia	2.20 (2.18, 2.23)	<0.001	1.88 (1.85, 1.91)	<0.001
Depression	0.97 (0.96, 0.98)	<0.001	0.95 (0.93, 0.96)	<0.001
Diabetes with chronic complications	1.11 (1.10, 1.12)	<0.001	1.07 (1.05, 1.08)	<0.001
Diabetes without chronic complications	1.04 (1.03, 1.05)	<0.001	0.97 (0.95, 0.98)	<0.001
Dialysis	2.05 (2.00, 2.11)	<0.001	1.78 (1.73, 1.83)	<0.001
Drug abuse	1.05 (1.02, 1.07)	0.001	0.96 (0.94, 0.99)	0.02

Fluid and electrolyte disorders	1.29 (1.28, 1.31)	<0.001		1.34 (1.32, 1.35)	<0.001
HIV/AIDS	1.21 (1.11, 1.32)	<0.001		1.14 (1.04, 1.24)	0.005
Hypertension	0.68 (0.67, 0.69)	<0.001		0.55 (0.54, 0.56)	<0.001
Hypothyroidism	0.97 (0.96, 0.98)	<0.001		0.94 (0.92, 0.95)	<0.001
Ischemic heart disease without recent acute myocardial infarction	N/A	N/A		0.85 (0.84, 0.86)	<0.001
Lymphoma	1.46 (1.42, 1.50)	<0.001		1.28 (1.24, 1.33)	<0.001
Metastatic cancer	4.48 (4.40, 4.55)	<0.001		3.21 (3.14, 3.29)	<0.001
Obesity	0.80 (0.79, 0.81)	<0.001		0.76 (0.75, 0.77)	<0.001
Other neurological disorders	1.10 (1.09, 1.11)	<0.001		1.01 (1.00, 1.03)	0.12
Paralysis	N/A	N/A		0.98 (0.95, 1.00)	0.06
Peripheral vascular disease	1.09 (1.08, 1.11)	<0.001		0.99 (0.97, 1.00)	0.02
Pulmonary circulation disorders	1.16 (1.14, 1.18)	<0.001		1.18 (1.16, 1.19)	<0.001
Rheumatoid arthritis/ collagen vascular disease	0.96 (0.94, 0.99)	0.002		0.86 (0.84, 0.89)	<0.001
Solid tumor without metastasis	1.29 (1.28, 1.30)	<0.001		1.10 (1.09, 1.12)	<0.001
Valvular heart disease	0.95 (0.94, 0.96)	<0.001		0.84 (0.83, 0.86)	<0.001
Weight loss	1.53 (1.51, 1.55)	<0.001		1.38 (1.36, 1.40)	<0.001
Medical or surgical events during the six months prior to cohort					

entry				
Acute myocardial infarction/ acute coronary syndrome	2.07 (2.04, 2.10)	<0.001	1.91 (1.87, 1.95)	<0.001
Coronary artery bypass grafting	0.67 (0.63, 0.71)	<0.001	0.69 (0.64, 0.76)	<0.001
Percutaneous coronary intervention	0.74 (0.71, 0.77)	<0.001	0.83 (0.79, 0.87)	<0.001
Pneumonia	3.03 (2.98, 3.09)	<0.001	2.83 (2.77, 2.90)	<0.001
Stroke	1.28 (1.26, 1.30)	<0.001	1.19 (1.17, 1.22)	<0.001
Per capita income of residential ZIP code (quartile) [§]				
<\$20,661	Comparator group			
\$20,661 to \$25,407	0.96 (0.95, 0.97)	<0.001	0.97 (0.96, 0.99)	0.001
\$25,408 to \$32,209	0.93 (0.92, 0.94)	<0.001	0.96 (0.94, 0.97)	<0.001
>\$32,209	0.88 (0.87, 0.90)	<0.001	0.94 (0.93, 0.96)	<0.001

*Hazard ratio for each additional year of age.

† Federal fiscal years are from October 1 – September 30. The 3rd quarter of fiscal year 2010 (i.e., April 1, 2010 – June 30, 2010) was used as the comparison group for the reported hazard ratios.

‡ Percentage calculated as the sum of Medicare-reimbursed provider encounters plus hospital days, divided by the sum of VA and Medicare-reimbursed provider encounters and hospital days, during the calendar quarter.

§ Per capita income (in nominal dollars) from the veteran's residential ZIP Code Tabulation Area as measured in the 2011-2015 American Community Survey conducted by the U.S. Census Bureau.³²

Abbreviations: IHD—ischemic heart disease; CHF—chronic heart failure; CI—confidence interval; HIV—human immunodeficiency virus; AIDS—acquired immune deficiency syndrome.