

**Supplement table 1** Unadjusted relative use of hospital for patients who died of heart failure or COPD when compared with patients with cancer

Hospital admissions	Died of cancer	Died of heart failure	Died of COPD
Relative total bed day use (95% CI)			
Six months before death	1.00 (reference)	0.37 (0.36; 0.39)	0.50 (0.49; 0.51)
30 days before death	1.00	0.40 (0.38; 0.42)	0.57 (0.55; 0.58)
Relative number of hospital admissions (95% CI)			
Six months before death	1.00	0.50 (0.49; 0.51)	0.63 (0.62; 0.64)
30 days before death	1.00	0.59 (0.58; 0.61)	0.78 (0.76; 0.79)
Relative length of stay per hospital admission (95% CI)			
Six months before death	1.00	1.31 (1.27; 1.35)	1.34 (1.32; 1.37)
30 days before death	1.00	0.85 (0.82; 0.89)	0.90 (0.87; 0.92)
Prevalence proportion ratio of in-hospital death (95% CI)	1.00	1.24 (1.21; 1.28)	1.15 (1.13; 1.17)

**Supplement table 2** Adjusted relative use of hospital for patients who died of heart failure or COPD when compared with patients with cancer, stratified by calendar year of death

Hospital admissions	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Relative total bed day use										
(95% CI)										
Six months before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	0.60 (0.55; 0.65)	0.56 (0.51; 0.61)	0.63 (0.57; 0.69)	0.67 (0.62; 0.74)	0.66 (0.60; 0.72)	0.69 (0.63; 0.76)	0.58 (0.53; 0.64)	0.69 (0.62; 0.76)	0.71 (0.64; 0.78)	0.73 (0.66; 0.81)
Died of COPD	0.65 (0.61; 0.69)	0.52 (0.58; 0.66)	0.63 (0.59; 0.67)	0.69 (0.65; 0.73)	0.69 (0.65; 0.73)	0.69 (0.64; 0.73)	0.70 (0.66; 0.74)	0.71 (0.67; 0.75)	0.72 (0.68; 0.77)	0.72 (0.67; 0.77)
30 days before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	0.62 (0.55; 0.71)	0.62 (0.55; 0.70)	0.63 (0.56; 0.71)	0.72 (0.64; 0.81)	0.67 (0.59; 0.75)	0.75 (0.67; 0.84)	0.54 (0.47; 0.61)	0.64 (0.57; 0.72)	0.67 (0.59; 0.77)	0.71 (0.63; 0.80)
Died of COPD	0.64 (0.59; 0.70)	0.69 (0.64; 0.76)	0.67 (0.61; 0.73)	0.71 (0.66; 0.77)	0.68 (0.63; 0.74)	0.74 (0.68; 0.79)	0.67 (0.62; 0.73)	0.69 (0.64; 0.75)	0.77 (0.65; 0.76)	0.75 (0.70; 0.82)
Relative number of hospital admissions (95% CI)										
Six months before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	0.81 (0.77; 0.85)	0.83 (0.80; 0.87)	0.83 (0.80; 0.87)	0.83 (0.79; 0.87)	0.83 (0.79; 0.87)	0.82 (0.78; 0.86)	0.85 (0.81; 0.90)	0.88 (0.83; 0.92)	0.86 (0.82; 0.90)	0.85 (0.81; 0.90)
Died of COPD	0.83 (0.80; 0.86)	0.81 (0.78; 0.83)	0.81 (0.78; 0.84)	0.85 (0.82; 0.87)	0.86 (0.83; 0.89)	0.84 (0.82; 0.87)	0.87 (0.84; 0.90)	0.86 (0.83; 0.89)	0.86 (0.83; 0.89)	0.89 (0.86; 0.92)
30 days before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	0.95 (0.93; 0.98)	0.96 (0.93; 0.99)	0.94 (0.91; 0.97)	0.94 (0.91; 0.97)	0.95 (0.92; 0.98)	0.97 (0.94; 1.00)	0.96 (0.93; 0.99)	0.96 (0.92; 0.99)	0.95 (0.92; 0.98)	0.96 (0.93; 0.99)
Died of COPD	0.95 (0.93; 0.97)	0.93 (0.91; 0.95)	0.95 (0.93; 0.97)	0.95 (0.93; 0.97)	0.95 (0.93; 0.97)	0.96 (0.94; 0.98)	0.96 (0.94; 0.98)	0.97 (0.95; 0.99)	0.95 (0.93; 0.97)	0.97 (0.95; 0.99)

Relative length of stay per hospital admission (95% CI)										
Six months before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	1.04 (0.95; 1.14)	0.98 (0.90; 1.07)	1.09 (1.00; 1.19)	1.12 (1.03; 1.22)	1.08 (0.99; 1.19)	1.14 (1.04; 1.25)	0.98 (0.90; 1.08)	1.04 (0.95; 1.14)	1.07 (0.97; 1.17)	1.11 (1.02; 1.21)
Died of COPD	1.19 (1.12; 1.27)	1.19 (1.12; 1.27)	1.12 (1.05; 1.19)	1.17 (1.11; 1.24)	1.13 (1.07; 1.20)	1.20 (1.14; 1.28)	1.18 (1.11; 1.25)	1.13 (1.07; 1.20)	1.15 (1.08; 1.21)	1.14 (1.08; 1.21)
30 days before death										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	0.72 (0.64; 0.82)	0.72 (0.64; 0.82)	0.75 (0.66; 0.85)	0.82 (0.72; 0.92)	0.76 (0.67; 0.87)	0.83 (0.73; 0.94)	0.61 (0.54; 0.69)	0.73 (0.64; 0.83)	0.77 (0.67; 0.88)	0.81 (0.71; 0.92)
Died of COPD	0.78 (0.71; 0.85)	0.87 (0.80; 0.95)	0.79 (0.72; 0.86)	0.83 (0.77; 0.90)	0.79 (0.72; 0.86)	0.85 (0.78; 0.92)	0.79 (0.73; 0.85)	0.81 (0.75; 0.88)	0.82 (0.76; 0.89)	0.87 (0.80; 0.94)
Prevalence proportion ratio of in-hospital death (95% CI)										
Died of cancer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Died of heart failure	1.03 (0.94; 1.13)	0.98 (0.89; 1.07)	1.04 (0.95; 1.14)	1.04 (0.95; 1.14)	1.08 (0.98; 1.19)	1.17 (1.06; 1.29)	0.95 (0.86; 1.05)	0.94 (0.85; 1.05)	1.01 (0.91; 1.12)	1.02 (0.93; 1.13)
Died of COPD	0.97 (0.91; 1.04)	0.93 (0.87; 1.00)	0.95 (0.89; 1.01)	0.92 (0.87; 0.98)	0.97 (0.91; 1.03)	0.98 (0.92; 1.04)	0.92 (0.87; 0.98)	0.95 (0.89; 1.01)	0.98 (0.92; 1.04)	0.96 (0.90; 1.02)