

End Stage Organ Disease -Healthcare Utilization: Impact of Palliative MedicineSupplementary Table 1: Reduction¹ due to palliative care for different ESOD

	Heart failure	Respiratory failure	End stage renal failure	End stage liver disease	Advanced dementia	Parkinson's disease
Average no. of ED visits per matched control patient	1.40	1.46	1.01	0.98	1.08	0.91
Average ED gross charges per matched control patient	\$493 £274	\$601 £334	\$349 £194	\$375 £209	\$334 £186	\$277 £154
Average no. of inpatient hospital admissions per matched control patient	1.33	1.59	0.94	0.88	1.01	0.74
Average length of hospital stay (days) per matched control patient	15.0	12.6	9.8	5.5	10.8	8.9
Average inpatient hospital charges per matched control patient	\$17658 £9819	\$13591 £7558	\$10604 £5897	\$6614 £3678	\$8288 £4609	\$7002 £3894

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Average reduction in no. of	0.72	0.21	0.29	0.39	0.44	0.39
ED visits per patient	(0.40 – 1.04)	(-0.26 – 0.68)	(0.12 – 0.46)	(-0.01 – 0.78)	(0.25 – 0.64)	(0.04 – 0.74)
Average reduction in ED	\$275	\$158	\$113	\$198	\$137	\$117
gross charges per patient	(\$154 – \$396)	(-\$30 – \$347)	(\$58 – \$168)	(\$44 – \$351)	(\$78 – \$196)	(\$19 – \$215)
	£153	£88	£63	£110	£76	£65
	(£86 - £220)	(-£17 - £193)	(£32 - £93)	(£24 - £195)	(£43 - £109)	(£11 - £120)
Average reduction in no. of	0.65	0.31	0.22	0.18	0.37	0.16
inpatient hospital	(0.34 – 0.95)	(-0.33 – 0.95)	(0.05 – 0.39)	(-0.11 – 0.47)	(0.20 – 0.55)	(-0.17 – 0.48)
admissions per patient						
Average reduction in length	6.3	-2.7	2.2	-1.1	2.7	1.6
of hospital stay (days) per	(2.4 – 10.3)	(-10.2 – 4.8)	(-0.2 – 4.5)	(-4.9 – 2.6)	(-0.4 – 5.8)	(-4.6 – 7.7)
patient						
Average reduction in	\$10877	\$913	\$5012	\$1258	\$2407	\$1764
inpatient hospital charges	(\$6160 –	(-\$5945 –	(\$2836 –	(-\$1997 –	(\$144 – \$4670)	(-\$2500 –
per patient	\$15594)	\$7770)	\$7188)	\$4513)	£1338	\$6029)
	£6048	£508	£2787	£700	(£80 - £2597)	£981
	(£3425 - £8672)	(-£3306 - £4321)	(£1577 - £3997)	(£1110 - £2510)		(-£1390 - £3353)

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¹Numbers represent the mean reduction for an individual patient. Numbers in parenthesis represent the 95% confidence interval for the reduction. Dollars in Singapore dollars and converted to British pound using a 2017 exchange rate of 1 SGD to 0.55608 GBP.

²Statistically significant results at 5% level are shown in bold.

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	Referred 0 to 13 days before death	Referred 14 to 30 days before death	Referred 31 to 90 days before death	Referred 91 to 180 days before death	Referred 181 to 365 days before death
No. of ESOD patients	532	138	174	110	98
referred to palliative care					
Average reduction in no. of ED visits per patient	0.22 (0.17 – 0.26)	0.36 (0.21 – 0.52)	0.52 (0.32 – 0.72)	0.85 (0.37 – 1.33)	0.34 (-0.21 – 0.89)
Average reduction in ED gross charges per patient	S\$83 (S\$65 – S\$101)	S\$143 (S\$87 – S\$199)	S\$201 (S\$126 – S\$276)	S\$356 (S\$171 – S\$541)	S\$112 (-S\$86 – S\$310)
	£45 (£36 - £56)	£80 (£48 - £111)	£112 (£70 - £153)	£198 (£95 - £301)	£62 (-£48 - £172)
Average reduction in no. of inpatient hospital admissions per patient	0.14 (0.10 – 0.18)	0.33 (0.19 – 0.46)	0.41 (0.20 – 0.62)	0.55 (0.10 – 1.00)	0.39 (-0.18 – 0.96)
Average reduction in length of hospital stay (days) per patient	0.2 (0.0 – 0.4)	1.7 (0.4 – 3.1)	4.4 (2.0 – 6.7)	3.8 (-3.2 – 10.7)	1.9 (-7.3 – 11.2)

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Average reduction in	S\$882	S\$3965	S\$6836	S\$9828	S\$7949
inpatient hospital charges	(S\$551 – S\$1213)	(S\$2265 – S\$5665)	(S\$4632 – S\$9039)	(S\$2870 – S\$16786)	(-S\$25 – S\$15922)
per patient	£490	£2205	£3801	£5465	£4420
	(£306 - £675)	(£1260 - £3150)	(£2576 - £5026)	(£1596 - £9334)	(-£14 - £8854)

¹Numbers represent the mean reduction for individual patient. Numbers in parenthesis represent the 95% confidence interval for the reduction.

Dollars in Singapore dollars and converted to British pound using a 2017 exchange rate of 1 SGD to 0.55608 GBP.

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