Supplementary Table 1. Relationship between palliative care and length of hospital stay (log-transformed multilevel multivariate regression)

Independent variable	Coefficient, β (day)	P-value	Coefficient, β (log transformed)	P-value
Palliative care	1.407	<.0001	0.178	<.0001
Year	-0.055	<.0001	-0.002	<.0001
Age group, years				
< 30 (reference)				
30–39	0.028	0.555	0.014	0.002
40–49	0.124	0.006	0.034	<.0001
50–59	0.388	<.0001	0.071	<.0001
60–69	0.419	<.0001	0.096	<.0001
70–79	0.447	<.0001	0.111	<.0001
≥ 80	0.434	<.0001	0.134	<.0001
Male sex	0.155	0.000	0.004	0.345
Race				
White (reference)				
Black	0.360	<.0001	0.041	<.0001
Hispanic	0.151	<.0001	0.016	<.0001
Asian or Pacific Islander	0.509	<.0001	0.045	<.0001
Native American/other	0.501	<.0001	0.037	<.0001
Median household income				

76th – 100th percentile (reference)				
51st – 75th percentile	-0.007	0.840	0.006	0.090
26th – 50th percentile	0.045	0.217	0.016	<.0001
0th – 25th percentile	0.065	0.069	0.021	<.0001
Primary payer				
Private insurance (reference)				
Medicare	0.239	<.0001	0.033	<.0001
Medicaid	0.453	<.0001	0.038	<.0001
Uninsured	0.236	<.0001	0.008	0.200
Other	0.216	0.002	0.022	0.003
Number of comorbidities	0.129	<.0001	0.020	<.0001
Primary diagnosis of lupus	1.075	<.0001	0.142	<.0001
In-hospital mortality	1.023	<.0001	-0.138	<.0001
Severity of illness subclass				
APR-DRG 0, 1, lowest (reference)				
APR-DRG 2	-0.875	<.0001	-0.101	<.0001
APR-DRG 3	0.711	<.0001	0.143	<.0001
APR-DRG 4, highest	6.704	<.0001	0.655	<.0001
Hospital status				
Urban nonteaching (reference)				
Urban teaching	0.185	<.0001	0.016	<.0001
Rural	-0.283	<.0001	-0.039	<.0001

Region of hospital

West (reference)

Northeast	0.503	<.0001	0.082	<.0001
Midwest	-0.062	0.118	0.022	<.0001
South	0.192	<.0001	0.056	<.0001

Bed capacity of hospital

Small (reference)

Medium	0.060	0.053	0.021	<.0001
Large	-0.223	<.0001	-0.008	0.017

Multilevel multivariable linear regression and logistic regression were performed after adjusting for the severity of illness subclass (APR-DRG 0–1, 2, 3, and 4), region of hospital (West, Northeast, Midwest, and South), hospital status (urban nonteaching, urban teaching, and rural), and bed capacity of hospital (small, medium, and large).

Supplementary Table 2. Relationships between palliative care and in-hospital <mark>mortality</mark>

Independent variable	Odds ratio	95% CI	
Palliative care	48.18	41.59	55.82
Year	0.90	0.88	0.91
Age group, years			
< 30 (reference)	1.00		
30–39	1.43	1.21	1.67
40–49	1.69	1.45	1.96
50–59	2.43	2.11	2.81
60–69	3.35	2.89	3.88
70–79	4.47	3.81	5.24
≥ 80	5.99	5.04	7.10
Male sex	1.21	1.11	1.32
Race			
White (reference)	1.00		
Black	1.07	0.98	1.15
Hispanic	1.19	1.07	1.33
Asian or Pacific Islander	1.44	1.18	1.76
Native American/other	1.14	0.96	1.36
Median household income			
76th–100th percentile (reference)	1.00		
51st–75th percentile	0.95	0.86	1.04

26th – 50th percentile	1.06	0.96	1.16
0th – 25th percentile	1.13	1.03	1.24
Insurance type			
Private insurance (reference)	1.00		
Medicare	1.06	0.97	1.15
Medicaid	1.09	0.97	1.22
Uninsured	1.44	1.22	1.71
Other	1.22	0.99	1.50
Number of comorbidities	0.92	0.90	0.94
Main diagnosis of lupus			
No	Reference		
Yes	0.65	0.57	0.75
Severity of illness subclass			
APR-DRG 0, 1, lowest (reference)	1.00		
APR-DRG 2	0.39	0.33	0.45
APR-DRG 3	1.01	0.89	1.16
APR-DRG 4, highest	14.31	12.52	16.35
Hospital status			
Urban nonteaching (reference)	1.00		
Urban teaching	1.00	0.93	1.07
Rural	1.13	1.01	1.25
Region of hospital			

West (reference)	1.00		
Northeast	1.21	1.10	1.35
Midwest	1.01	0.90	1.12
South	1.13	1.03	1.23
Bed capacity of hospital			
Small	Reference		
Medium	0.93	0.85	1.01
Large	0.92	0.83	1.01

Multilevel multivariable linear regression and logistic regression were performed after adjusting for the severity of illness subclass (APR-DRG 0–1, 2, 3, and 4), region of hospital (West, Northeast, Midwest, and South), hospital status (urban nonteaching, urban teaching, and rural), and bed capacity of hospital (small, medium, and large).

Supplementary Table 3. Relationship between in-hospital palliative care and hospital costs (inflation-adjusted) (log-transformed multilevel multivariate regression)

Independent Variable	Coefficient, β ($)	P-value	Coefficient, β (log-transformed)	P-value
Palliative care	-153.2	0.948	-0.075	0.009
Year	339.4	<.0001	0.021	<.0001
Age group, years				
< 30 (reference)				
30–39	-267.4	0.457	0.026	<.0001
40–49	1,350.7	<.0001	0.105	<.0001
50–59	3,349.8	<.0001	0.175	<.0001
60–69	3,493.5	<.0001	0.202	<.0001
70–79	1,305.9	0.001	0.156	<.0001
≥ 80	-3,502.9	<.0001	0.032	0.001
Male sex	2,549.0	<.0001	0.049	<.0001
Race				
White (reference)				
Black	1,998.4	<.0001	0.078	<.0001
Hispanic	3,837.6	<.0001	0.146	<.0001
Asian or Pacific Islander	5,507.3	<.0001	0.097	<.0001
Native American/other	3,392.7	<.0001	0.080	<.0001
Median household income				
$76^{th} – 100^{th}$ percentile (reference)				
$51^{st} – 75^{th}$ percentile	-692.3	0.011	-0.013	0.013
$26^{th} – 50^{th}$ percentile	-1,314.0	<.0001	-0.023	<.0001
$0^{th} – 25^{th}$ percentile	-1,820.6	<.0001	-0.048	<.0001
Primary payer				
Private insurance (reference)				
Medicare	379.3	0.087	0.019	<.0001
Medicaid	-1,334.3	<.0001	-0.080	<.0001

Uninsured	-3,129.1	<.0001	-0.094	<.0001
Other	-2,140.7	<.0001	-0.080	<.0001
Number of comorbidities	609.3	<.0001	0.023	<.0001
Main diagnosis of lupus	4,700.6	<.0001	0.071	<.0001
In-hospital death	32,059.4	<.0001	0.307	<.0001
Severity of illness subclass				
APR-DRG 0, 1, lowest (reference)				
APR-DRG 2	-3,930.2	<.0001	-0.086	<.0001
APR-DRG 3	2,873.0	<.0001	0.131	<.0001
APR-DRG 4, highest	46,470.5	<.0001	0.841	<.0001
Hospital status				
Urban nonteaching (reference)				
Urban teaching	2,591.6	<.0001	0.045	<.0001
Rural	-4,240.3	<.0001	-0.218	<.0001
Region of hospital				
West (reference)				
Northeast	-8,553.6	<.0001	-0.246	<.0001
Midwest	-16,236.3	<.0001	-0.433	<.0001
South	-13,746.5	<.0001	-0.367	<.0001
Bed capacity of hospital				
Small (reference)				
Medium	2,905.2	<.0001	0.128	<.0001
Large	-37.1	0.874	0.035	<.0001

Multilevel multivariable linear regression and logistic regression were performed after adjusting for the severity of illness subclass (APR-DRG 0–1, 2, 3, and 4), region of hospital (West, Northeast, Midwest, and South), hospital status (urban nonteaching, urban teaching, and rural), and bed capacity of hospital (small, medium, and large).