





LEGEND

Access to care

- Insurance status
- Lack of transportation
- Disenfranchisement
- Continuity of care
- Preventive screening

Comorbidities

- Chronic conditions
- VanWalraven score
- Functional status

Characteristics

- Patient age
- Patient sex
- FHx/Genetics

Severity of illness

- Type of infection
- SOFA score
- Septic shock
- Ventilation
- Multiorgan failure

Delays in care

- Language barrier
- Diagnostic errors
- Sepsis bundle
- Time to antibiotics

Appendix Table 1: Most common primary languages stratified by race/ethnicity among 8,974 patients with sepsis.

Primary Language, N (%)	<u>White</u> N = 4,001	<u>Asian</u> N = 2,119	<u>Black</u> N = 1,061	<u>Latino</u> N = 1,029	<u>Other</u> N = 764
English	3,777 (94)	917 (43)	1,050 (99)	653 (63)	562 (73)
Cantonese	1 (0.1)	784 (37)	0	2 (0.2)	53 (7)
Spanish	6 (0.2)	3 (0.1)	1 (0.1)	367 (36)	15 (2)
Russian	170 (4)	1 (0.1)	0	0	37 (5)
Mandarin	0	152 (7)	0	0	7 (1)
Other	47 (1)	262 (12)	10 (0.9)	7 (0.7)	90 (12)

Appendix Table 2: Bivariate analyses of the association between inpatient mortality, limited English proficiency (LEP), and other covariates among 8,974 patients with sepsis

Covariate	<u>Died during hospitalization</u> N = 946	<u>Alive at discharge</u> N = 8,028	<u>Odds Ratio</u> <u>(95% CI)</u>	<u>p-value</u>
Age	--	--	1.02 (1.02-1.03)	<0.001
Sex				
Male	502 (53)	4,260 (53)	ref.	ref.
Female	444 (47)	3,768 (47)	0.99 (0.87-1.14)	0.99
Race				
White	377 (40)	3,624 (45)	ref.	ref.
Asian	298 (32)	1,821 (23)	1.57 (1.34-1.85)	<0.001
Black	91 (10)	970 (12)	0.90 (0.71-1.15)	0.40
Latino	81 (8)	948 (12)	0.82 (0.64-1.06)	0.12
Other	99 (10)	665 (8)	1.43 (1.13-1.81)	0.003
Language				
Non-LEP	678 (72)	6,580 (82)	ref.	ref.
LEP	268 (28)	1,448 (18)	1.80 (1.54-2.09)	<0.001
Insurance				
Commercial	127 (13)	1,537 (19)	ref.	ref.
Medicare	623 (66)	4,511 (56)	1.67 (1.37-2.04)	<0.001
Medicaid	190 (20)	1,926 (24)	1.19 (0.94-1.51)	0.14
Other	6 (0.6)	54 (0.7)	1.34 (0.57-3.19)	0.50
Year				
2012	101 (11)	746 (9)	ref.	ref.
2013	194 (20)	1,570 (20)	0.91 (0.71-1.18)	0.48
2014	196 (21)	1,799 (23)	0.81 (0.62-1.04)	0.10
2015	245 (26)	1,955 (24)	0.93 (0.72-1.19)	0.54
2016	210 (22)	1,958 (24)	0.79 (0.62-1.02)	0.07
Admission level of care				
Acute care	245 (26)	4,403 (55)	ref.	ref.
Transitional care unit	230 (25)	2,267 (28)	1.82 (1.51-2.20)	<0.001
Intensive care unit	461 (49)	1,320 (17)	6.28 (5.31-7.42)	<0.001
van Walraven score	--	--	1.09 (1.08-1.09)	<0.001
Total SOFA score^{a,b}	--	--	1.39 (1.36-1.42)	<0.001
Mechanical ventilation	381 (40)	758 (9)	6.50 (5.57-7.51)	<0.001
Site of infection				
Skin/Soft-tissue infection	7 (0.7)	488 (6)	ref.	ref.
Other	26 (3)	519 (6)	3.49 (1.50-8.12)	0.004
Urinary tract infection	30 (3)	540 (7)	3.87 (1.69-8.90)	0.001
None coded	257 (27)	2,161 (27)	8.29 (3.89-17.68)	<0.001
Pneumonia	127 (13)	1,013 (13)	8.74 (4.05-18.85)	<0.001
Multiple sites	341 (36)	2,361 (29)	10.07 (4.73-21.42)	<0.001
Bacteremia	158 (17)	946 (12)	11.64 (5.42-25.02)	<0.001
Time to antibiotics in minutes^c	--	--	0.82 (0.78-0.86)	<0.001

^a SOFA: Sequential [Sepsis-related] Organ Failure Assessment

^b Total qualifying SOFA score achieved at the time patient first met sepsis definition SOFA criteria (≥ 2 , within first 48 hours)

^c Natural log transformed for best fit normal distribution