Supplemental Online Content

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- **eTable 1.** Sensitivity analysis of final multivariable length of stay model showing the original model identified by backwards selection, a model using LASSO for variable selection (Model 1), a model excluding those with missing gestational age (Model 2), and a model including only those in the more recent era (Model 3)
- **eTable 2.** Sensitivity analysis of final multivariable cost model showing the original model identified by backwards selection, a model using LASSO for variable selection (Model 1), a model excluding those with missing gestational age (Model 2), and a model including only those in the more recent era (Model 3)
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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Sensitivity analysis of final multivariable length of stay model showing the original model identified by backwards selection, a model using LASSO for variable selection (Model 1), a model excluding those with missing gestational age (Model 2), and a model including only those in the more recent era (Model 3)

	Multivariable		Model 1		Model 2		Model 3	
	Marginal	p-	Marginal	p-	Marginal	p-	Marginal	p-
	length of stay	value	length	value	length	value	length	value
	(95% CI)		of stay		of stay		of stay	
			(95% CI)		(95% CI)		(95% CI)	
Female sex								
Gestational age in	-2 (-3 to -2)	<0.001	-3 (-3 to	<0.001	-2 (-3 to	<0.001	-3 (-4 to	<0.001
weeks			-2)		-2)		-2)	
Race/Ethnicity		<0.001		<0.001		<0.001		<0.001
(Ref: Non-								
Hispanic White)								
Hispanic	+11 (+1 to		+11 (+1		+14 (+4		+13 (+2	
	+20)		to +20)		to +24)		to +23)	
Non-Hispanic	+16 (+7 to		+18 (+9		+19 (+10		+21 (+11	
Black	+25)		to +27)		to +29)		to +31)	
Other*	+7 (-3 to +17)		+7 (-3 to		+9 (-3 to		+10 (-1	
			+18)		+21)		to +21)	
Unknown	-4 (-15 to +7)		-3 (-14		+4 (-6 to		+4 (-11	
			to +8)		+13)		to +18)	
Child Opportunity		0.026		0.027				
Index (Ref: Very								
Low)								
Low	-2 (-10 to 6)		-3 (-11					
			to +5)					
Moderate	+1 (-7 to 10)		+0 (-9 to					
			+8)					
High	+3 (-6 to +12)		+2 (-8 to					
			+11)					
Very High	-8 (-18 to +2)		-8 (-18					
			to +2)					
Unknown	+54 (+12 to		+51 (+10					
	+96)		to +92)					
Payor (Ref:		<0.001		<0.001				<0.001
Government)								
Commercial	-10 (-17 to -3)		-9 (-16				-9 (-17	
			to -2)				to -2)	
Other/Unknown	+12 (0 to +23)		+14 (+2				+53 (+20	
			to +26)				to +86)	

Admission after								
2009								
Diagnosis								
Necrotizing	+15 (+9 to	<0.001	+16 (+9	<0.001	+14 (+7	<0.001	+16 (+8	<0.001
Enterocolitis	+21)		to +22)		to +21)		to +23)	
Gastroschisis			+12 (+3	0.011				
			to +22)					
Volvulus			-5 (-18	0.448				
			to +8)					
Hirschsprung's								
Disease								
Atresia								
CLABSI	+24 (+14 to	<0.001	+24 (+14	<0.001	+26 (+10	<0.001	+25 (+14	<0.001
	+33)		to +33)		to +35)		to +36)	
Venous	+24 (+13 to	<0.001	+24 (+14	<0.001	+23 (+10	<0.001	+25 (+13	<0.001
thromboembolism	+34)		to +35)		to +35)		to +37)	

CLABSI, central line-associated bloodstream infection

^{*}Other includes Asian, Multiracial, and Other categories from the original dataset

eTable 2. Sensitivity analysis of final multivariable cost model showing the original model identified by backwards selection, a model using LASSO for variable selection (Model 1), a model excluding those with missing gestational age (Model 2), and a model including only those in the more recent era (Model 3)

	Multivariable		Model 1		Model 2		Model 3	
	Marginal cost	p-	Marginal	p-	Marginal	p-	Marginal	p-
	(95% CI)	value	cost (95%	value	cost (95%	value	cost (95%	value
			CI)		CI)		CI)	
Length of stay	+\$3791	<0.001	+\$3771	<0.001	+\$4078	<0.001	+\$4408	<0.001
(days)	(+\$3172 to		(+\$3156 to		(+\$3299 to		(+\$3488 to	
	+\$4410)		+\$4385)		+\$4858)		+\$5329)	
Female sex			-\$42,514 (-	0.009				
			\$74,744 to					
			-\$10,284)					
Gestational age in	-\$5823 (-	0.007	-\$6099 (-	0.005				
weeks	\$10,083 to -		\$10,439 to					
	\$1563)		-\$1758)					
Race/Ethnicity				0.16				
(Ref: Non-								
Hispanic White)								
Hispanic			-\$18,193 (-					
			\$72,498 to					
			\$36,113)					
Non-Hispanic			-\$43,213 (-					
Black			\$93,696 to					
			+\$7270)					
Other*			-\$63,456 (-					
			\$122,035					
			to -\$4878)					
Unknown			-\$51,364 (-					
			\$118,176					
			to					
			+\$15,448)					
Child Opportunity		0.007						
Index (Ref: Very								
Low)	. 400 400/							
Low	+\$22,493(-							
	\$22,730 to							
Madauste	+\$67,717)							
Moderate	-\$28,997 (-							
	\$75,508 to							
Lliade	+\$17,515)							
High	+\$38,830 (-							
	\$12,824 to							
Mamalli di	+\$90,484)							
Very High	+\$82,970							
	(+\$21,181 to							
	+\$144,759)							

Unknown	+\$11,411(-							
	\$165,943 to							
	+\$188,766)							
Payor (Ref:		<0.001		0.010		<0.001		
Government)								
Commercial	-\$55,069 (-		-\$49,211 (-		-\$28,434 (-			
	\$96,763 to -		\$90,569 to		\$79,445 to			
	\$13,375)		-\$7852)		+\$22,577)			
Other/Unknown	-\$107,335 (-		-\$83,315 (-		-\$156,931			
	\$160,835 to -		\$151,365		(-\$227,026			
	\$53,835)		to -		to -			
			\$15,266)		\$86,835)			
Admission after	+\$136,798	<0.001	+\$143,914	<0.001	+\$136,435	<0.001		
2009	(+\$98,158 to		(+\$95,861		(+\$76,173			
	+\$194,264)		to		to			
			+\$191,968)		+\$196,696)			
Diagnosis								
Necrotizing	+\$42,168	0.019	+\$49,581	0.007	+\$69,673	0.001	+\$57,276	0.016
Enterocolitis	(+\$6721 to		(+\$12,829		(+\$27,220		(+\$9496 to	
	+\$77,615)		to		to		+\$105,056)	
			+\$86,333)		+\$112,125)			
Gastroschisis	+78,495	0.004	+\$69,180	0.014				
	(+\$20,915 to		(+\$11,718					
	+136,074)		to					
			+\$126,641)					
Volvulus	-\$114,275 (-	0.002	-\$118,229	0.001	-\$142,067	0.001	-\$164,380	<0.001
	\$181,925 to -		(-\$185,443		(-\$225,509		(-\$250,502	
	\$46,625)		to -		to -		to -	
			\$51,015)		\$58,625)		\$78,258)	
Hirschsprung's								
Disease								
Atresia			+\$17,274 (-	0.429				
			\$25,894 to					
			+\$60,441)					
CLABSI								
Venous								
thromboembolism								

CLABSI, central line-associated bloodstream infection

^{*}Other includes Asian, Multiracial, and Other categories from the original dataset

eTable 3. Sensitivity analysis of final multivariable survival model showing the original model identified by backwards selection, a model using LASSO for variable selection (Model 1), a model excluding those with missing gestational age (Model 2), and a model including only those in the more recent era (Model 3)

	Multivariabl		Model 1		Model 2		Model 3	
	е							
	Hazard ratio (95% CI)	p- value	Hazard ratio (95% CI)	p- value	Hazard ratio (95% CI)	p- value	Hazard ratio (95% CI)	p- value
Female sex							0.60 (0.38 - 0.94)	0.025
Gestational age in weeks					0.95 (0.92 - 0.98)	<0.001		
Race/Ethnicity (Ref: Non- Hispanic White)		<0.001		0.92				
Hispanic	1.30 (0.64 – 2.62)		1.14 (0.55 - 2.37)					
Non-Hispanic Black	1.07 (0.53 – 2.15)		1.02 (0.48 -2.18)					
Other*	1.12 (0.50 - 2.48)		1.07 (0.49 -2.36)					
Unknown	2.35 (1.30 – 4.27)		1.40 (0.52 -3.80)					
Child Opportunity Index (Ref: Very Low)			,	0.20				
Low			0.95 (0.65 - 1.38)					
Moderate			0.69 (0.37 -1.29)					
High			0.51 (0.33 -0.80)					
Very High			0.75 (0.40 - 1.40)					
Unknown			0.92 (0.32 -2.69)					
Payor (Ref: Government)				0.17		<0.001		
Commercial			1.50 (0.94 -2.41)		1.27 (0.75 - 2.14)			
Other/Unknown			1.49 (0.67 -3.32)		2.98 (1.73 -5.13)			
Admission after 2009			0.71 (0.43 -1.16)	0.17				
Diagnosis								
Necrotizing Enterocolitis								
Gastroschisis	0.37 (0.17 – 0.80)	0.011	0.45 (0.19 -1.09)	0.078			0.27 (0.10 - 0.75)	0.012

Volvulus								
Hirschsprung's								
Disease								
Atresia	0.57 (0.35 –	0.020	0.60 (0.37	0.039				
	0.91)		-0.97)					
CLABSI	0.58 (0.39 –	0.006	0.55 (0.37	0.005				
	0.85)		-0.83)					
Venous	1.80 (1.22 –	0.003	1.95 (1.30	0.001	2.02 (1.15	0.015	2.24 (1.35	0.002
thromboembolism	2.63)		- 2.94)		- 3.55)		-3.71)	

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