Supplementary Online Content

Khan A, Coffey M, Litterer KP, et al. Families as partners in hospital error and adverse event surveillance. *JAMA Pediatr*. Published online February 27, 2017. doi:10.1001/jamapediatrics.2016.4812.
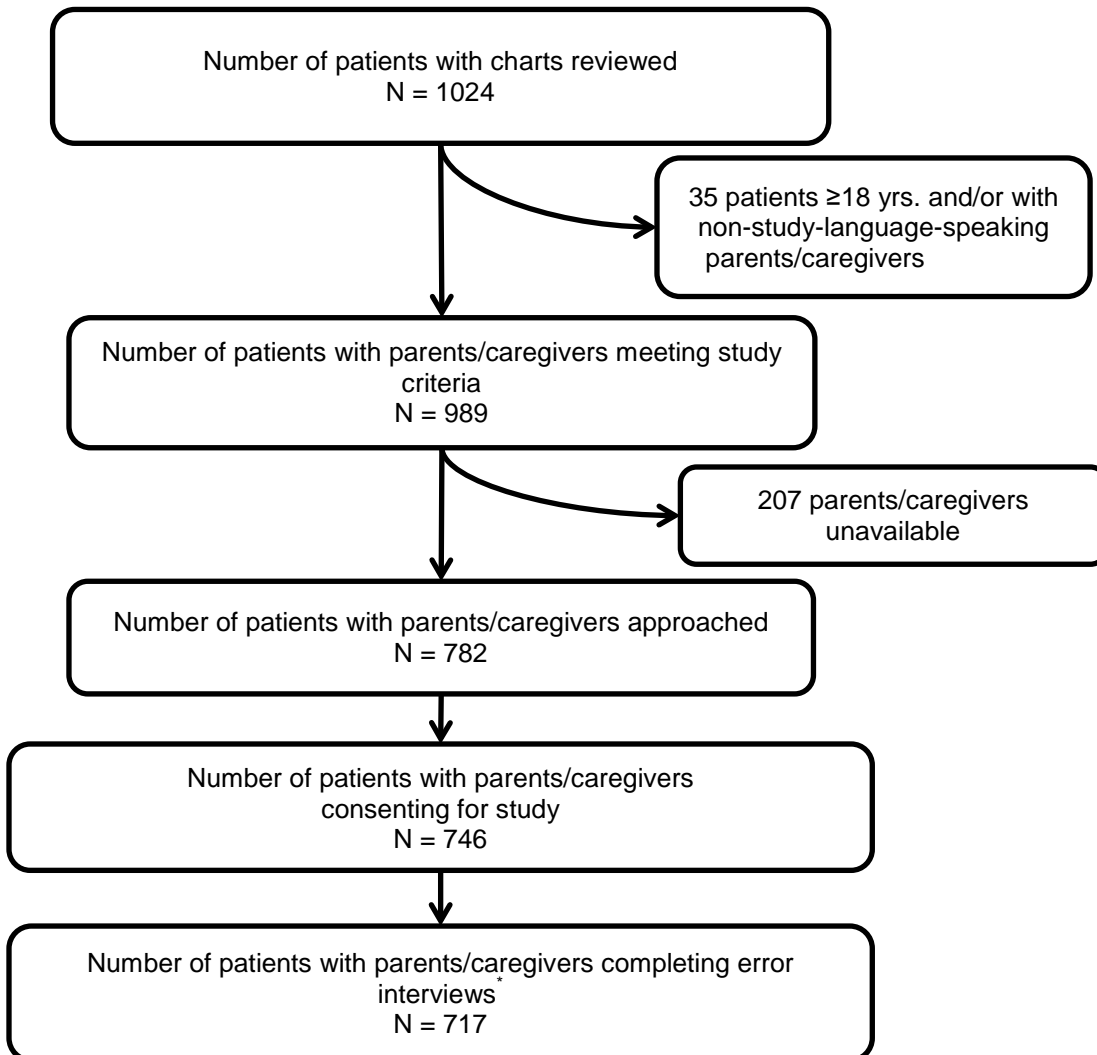
eFigure. Cohort diagram

eTable 1. Unadjusted rates of family-reported errors/AEs by patient and parent/caregiver characteristics[a]

eTable 2. Adjusted predictors of family-reported errors/AEs

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure. Cohort diagram

Number of patients with charts reviewed
N = 1024

35 patients ≥18 yrs. and/or with non-study-language-speaking parents/caregivers

Number of patients with parents/caregivers meeting study criteria
N = 989

207 parents/caregivers unavailable

Number of patients with parents/caregivers approached
N = 782

Number of patients with parents/caregivers consenting for study
N = 746

Number of patients with parents/caregivers completing error interviews[*]
N = 717

*These culminated in a total of 763 interviews (parents/caregivers could complete more than one interview).

eTable 1. Unadjusted rates of family-reported errors/AEs by patient and parent/caregiver characteristics[a]

Patient Characteristics	Rates of Total Family-Reported Incidents (per 1000 patient-days)			
	Errors		**AEs**	
Patient Characteristics	**Error Rates (95% CI)**	***P* value**	**AE Rates (95% CI)**	***P* value**
Age, y				
<1	10.2 (5.0, 21.1)	**.02**	7.8 (3.3, 18.3)	.58
1-5	19.4 (11.5, 32.6)		12.0 (6.4, 22.7)	
6-13	4.9 (1.9, 13.0)		11.9 (6.2, 22.8)	
14-17	20.3 (10.8, 37.9)		16.0 (8.8, 29.0)	
Sex				
Female	12.8 (7.9, 20.8)	.88	10.8 (6.7, 17.6)	.89
Male	13.5 (8.3, 22.0)		11.4 (6.8, 19.1)	
CCC[b] Count				
0	9.0 (5.6, 14.4)	**.03**	8.0 (4.9, 13.1)	**.05**
≥1	21.3 (13.1, 34.5)		17.3 (10.7, 28.1)	
Insurance				
Public	10.8 (6.6, 17.7)	.17	10.3 (6.5, 16.5)	.56
Non-public	17.9 (11.1, 28.7)		12.8 (7.6, 21.5)	
Parent/Caregiver Characteristics	**Error Rates (95% CI)**	***P* value**	**AE Rates (95% CI)**	***P* value**
Age, y				
≤25	10.4 (4.8, 22.6)	.48	10.4 (4.8, 22.6)	.15
26-32	13.6 (7.1, 26.0)		11.0 (5.3, 22.8)	
33-39	9.9 (4.7, 20.9)		5.9 (2.6, 13.5)	
≥40	19.8 (11.3, 34.6)		18.5 (10.9, 31.7)	
Sex				
Female	11.9 (7.9, 18.0)	.21	10.7 (7.0, 16.1)	.56
Male	20.1 (11.2, 36.2)		13.8 (6.8, 27.7)	
Race/Ethnicity				
Nonwhite	10.8 (6.2, 18.9)	.29	10.8 (6.6, 17.8)	.90
White	15.8 (10.2, 24.3)		11.4 (6.8, 19.1)	
Relationship to Patient				
Parent	13.1 (9.1, 19.0)	.35	11.2 (7.6, 16.4)	.16
Grandparent	29.4 (10.2, 84.7)		5.9 (5.9, 5.9)	
Guardian	17.9 (17.9, 17.9)		53.6 (19.4, 148.0)	
Other	12.0 (5.5, 26.1)		12.0 (5.5, 26.1)	

Primary Language				
English	13.3 (9.2, 19.1)	.76	11.4 (7.8, 16.6)	.98
Other	11.2 (3.7, 34.1)		11.2 (3.7, 34.1)	

	Rates of Total Family-Reported Incidents (per 1000 patient-days)			
	Errors		**AEs**	
Parent/Caregiver Characteristics	**Error Rates (95% CI)**	**P value**	**AE Rates (95% CI)**	**P value**
Proficiency in Spoken English				
Proficient	13.8 (9.7, 19.5)	**<.001**	11.2 (7.7, 16.3)	.87
Not proficient	3.4 (3.4, 3.4)		10.1 (2.7, 37.2)	
Proficiency at Reading English				
Proficient	15.6 (11.0, 22.2)	**<.001**	12.2 (8.3, 17.9)	.20
Not proficient	2.9 (0.8, 10.8)		6.8 (2.6, 17.9)	
Income, $				
<30,000	10.4 (4.5, 24.5)	.42	16.9 (8.4, 33.8)	.11
30,000-49,999	17.8 (6.2, 50.7)		17.8 (7.6, 41.4)	
50,000-74,999	12.5 (4.8, 32.9)		5.4 (1.5, 19.7)	
75,000-99,999	40.5 (16.5, 99.6)		49.5 (22.1, 110.9)	
≥100,000	20.8 (10.7, 40.4)		11.0 (5.3, 23.2)	
Education				
Less than high school	4.4 (4.4, 4.4)	**.005**	4.4 (4.4, 4.4)	**.01**
Some or all of high school	9.8 (4.2, 23.0)		8.8 (4.0, 19.5)	
Some college or more	16.1 (11.3, 23.1)		13.3 (9.0, 19.7)	
Time spent in hospital				
Rarely to often	12.1 (5.0, 29.5)	.39	7.2 (2.7, 19.8)	**.04**
Almost always	18.0 (11.4, 28.3)		17.1 (11.3, 25.8)	
Time spent in hospital in last 24 hours, h				
<24	17.2 (8.3, 35.7)	.99	13.4 (5.8, 30.8)	.68
24	17.1 (10.5, 27.9)		16.2 (10.5, 25.1)	

[a]Values refer to patients (n=717) with completed Family Safety Interviews.
[b]CCC=complex chronic condition; the CCC system uses ICD-9-CM codes to capture medically complex children, namely those with medical conditions expected to last ≥12 months that involve several different organ systems or one organ system severely enough to require specialty pediatric care and hospitalization in a tertiary care center.[28]

eTable 2. Adjusted predictors of family-reported errors/AEs

	Total Family-Reported Incidents			
	Errors		AEs	
Patient Characteristics	RR (95% CI)	*P* value	RR (95% CI)	*P* value
Age, y	0.9 (0.9, 1.0)	**.04**	1.0 (0.9, 1.1)	.91
CCC[a] Count				
≥1	2.4 (1.2, 4.8)	**.01**	2.3 (1.1, 4.8)	**.02**
0	1		1	
Parent/Caregiver Characteristics				
Age, y	1.0 (1.0, 1.1)	**.03**	1.0 (1.0, 1.0)	.72
Education				
Less than high school	0.2 (0.1, 0.3)	**<.001**	0.3 (0.2, 0.4)	**<.001**
Some or all of high school	0.7 (0.3, 1.9)	.49	0.8 (0.3, 1.9)	.58
Some college or more	1		1	

[a]CCC=complex chronic condition; the CCC system uses ICD-9-CM codes to capture medically complex children, namely those with medical conditions expected to last ≥12 months that involve several different organ systems or one organ system severely enough to require specialty pediatric care and hospitalization in a tertiary care center.[28]