

## Appendix C: Evaluation of NPRQI Measures

(3-point Likert scale)

		National Quality Forum Criteria							
		Importance		Scientific Acceptability		Usability		Feasibility	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
<b>Timely Recognition</b>									
1	Percentage of patients with weight documented in kilograms only	3.00	0.00	2.93	0.26	3.00	0.00	3.00	0.00
2	Percentage of medication dosing errors for target medications	3.00	0.00	2.93	0.26	2.79	0.56	2.64	0.61
3	Percentage of patients with a full set of vital signs	2.86	0.52	2.79	0.41	2.71	0.59	2.71	0.59
4	Percentage of patients with pain assessed	2.71	0.45	2.57	0.49	2.46	0.63	2.69	0.46
5	Percentage of patients with abnormal vital signs included in notification process	3.00	0.00	2.79	0.41	2.57	0.62	2.57	0.62
6	Median time from first set of vitals to first intervention	2.50	0.63	2.36	0.72	2.21	0.56	2.36	0.48
7	Percentage of patients with vital signs re-assessed	2.57	0.49	2.71	0.45	2.50	0.63	2.57	0.49
8	ED Length of Stay	2.14	0.64	2.07	0.70	2.29	0.70	2.57	0.62
<b>Interfacility Transfers</b>									
1	Median time from arrival to transport	2.64	0.48	2.57	0.62	2.71	0.45	2.57	0.62
2	Percentage of families who received transfer packet	2.21	0.67	1.93	0.70	2.14	0.64	2.00	0.65
3	Percentage of transferred patients who were discharged from the receiving center ED within less than 24 hours from arrival	2.29	0.59	2.21	0.56	2.29	0.59	2.23	0.58
4	Percentage of transfers that met minimum site-specific criteria	2.43	0.62	2.14	0.64	2.36	0.61	2.29	0.59
<b>Blunt Head Trauma</b>									
1	Percentage of patients with full set of vital signs (must include GCS and pain)	3.00	0.00	3.00	0.00	2.93	0.26	2.93	0.26
2	Percentage of patients with head CT	3.00	0.00	3.00	0.00	2.93	0.26	2.86	0.35
3	Percentage of CTs that used appropriate dose for weight	2.43	0.62	2.36	0.72	2.29	0.80	2.36	0.72
4	Median time to CT scan	2.57	0.62	2.36	0.72	2.36	0.72	2.29	0.80
5	Percentage of patients with GCS re-assessment	2.57	0.62	2.50	0.63	2.29	0.70	2.29	0.70
6	Patients that received telemedicine assessment	1.93	0.59	1.79	0.67	1.93	0.59	1.86	0.74
7	Percentage of patients intubated (last GCS to be included)	2.64	0.61	2.50	0.63	2.71	0.59	2.71	0.59
8	Percentage who received hypotonic fluid (D10W, 1/2NS, 1/4NS)	2.29	0.59	2.43	0.62	2.36	0.61	2.36	0.72
9	Median time to transfer	2.71	0.45	2.64	0.48	2.79	0.41	2.86	0.35
10	Percentage of patients with return precautions on discharge summary	2.36	0.72	2.36	0.61	2.43	0.62	2.36	0.72
<b>Seizures</b>									
1	Percentage of patients with full set of vital signs (must include mental status (GCS, AVPU) and pain)	2.79	0.41	2.79	0.41	2.64	0.61	2.71	0.59
2	Percentage of patients with neurologic re-assessment	2.86	0.35	2.79	0.41	2.64	0.61	2.57	0.62

3	Percentage of patients who received diagnostic assessment (1 or more elements from target list: blood work, UA, lumbar puncture, head CT)	2.29	0.80	2.21	0.77	2.29	0.80	2.36	0.72
4	Percentage of patients with blood glucose level assessed or documented (pre-hospital or ED setting)	2.93	0.26	2.86	0.35	2.86	0.35	2.92	0.27
5	Percentage of patients that utilize telemedicine (percentage of patient consults with other facility prior to transfer)	1.86	0.52	1.79	0.56	1.93	0.59	2.00	0.53
6	Percent of CTs that used appropriate dose for weight	2.29	0.70	2.21	0.77	2.21	0.77	2.29	0.70
7	Median time to first medication in the emergency department	2.71	0.45	2.57	0.49	2.43	0.49	2.43	0.62
8	Percentage of patients with medication dosing errors (outside 20%)	2.71	0.59	2.79	0.41	2.50	0.63	2.50	0.50
9	Percentage of patients whose treatment aligns with medication component of guidelines	2.79	0.41	2.71	0.59	2.43	0.62	2.43	0.73
10	Time to first respiratory intervention	2.79	0.56	2.64	0.72	2.43	0.73	2.36	0.81
11	Percentage of children discharged from receiving ED	1.79	0.56	1.64	0.48	1.57	0.49	1.64	0.61
<b>Respiratory Distress</b>									
1	Percentage of patients with full set of vital signs	2.93	0.26	2.92	0.27	2.79	0.56	2.93	0.26
2	Percentage of patients with vital signs re-assessed	2.86	0.35	2.86	0.35	2.86	0.35	2.86	0.35
3	Percentage of steroids administered	2.71	0.45	2.71	0.45	2.57	0.62	2.50	0.63
4	Median time to steroids	2.57	0.49	2.57	0.49	2.57	0.62	2.50	0.63
5	Percentage of patients that receive antibiotics	2.29	0.70	2.29	0.70	2.21	0.67	2.00	0.70
6	Median time to albuterol administration in asthma exacerbation	3.0	0.00	3.00	0.00	2.93	0.26	2.93	0.26
7	Percentage of patients with labs collected	2.07	0.46	2.00	0.38	1.86	0.52	1.86	0.52
8	Percentage of patients that received albuterol	2.36	0.61	2.36	0.48	2.14	0.64	2.21	0.67
9	Percentage of patients with chest x-ray	2.43	0.62	2.50	0.50	2.21	0.77	2.14	0.74
10	Percentage of patients with suctioning used	2.36	0.72	2.36	0.61	2.07	0.80	2.00	0.76
11	Percentage of patients with oral fluid challenge	1.93	0.59	1.93	0.59	1.79	0.67	1.93	0.70
12	Percentage of patients less than 18 months of age with a diagnosis of asthma	1.64	0.61	1.64	0.61	1.57	0.62	1.57	0.62
<b>Vomiting/Diarrhea</b>									
1	Percentage of patients with full set of vital signs (must include GCS and pain)	2.92	0.27	2.92	0.27	2.85	0.36	2.92	0.27
2	Percentage of patients with vital signs re-assessed	2.85	0.36	2.77	0.42	2.77	0.42	2.77	0.42
3	Percentage of patients with abnormal CT scan	2.23	0.80	2.23	0.80	2.15	0.66	2.23	0.58
4	Percentage of patients that received ultrasound before CT (time stamps both u/s and CT)	2.54	0.63	2.46	0.75	2.46	0.75	2.46	0.75
5	Percentage of CTS that used appropriate dose for weight	2.62	0.62	2.62	0.62	2.38	0.62	2.42	0.64
6	Time to first antiemetic and route administration	1.92	0.73	2.0	0.68	2.00	0.68	2.00	0.68

7	Percentage of patients that received IV/SC/IO fluids	2.31	0.82	2.15	0.77	2.15	0.77	2.08	0.73
8	Percentage of patients that received oral rehydration therapy	2.46	0.75	2.38	0.74	1.92	0.92	2.00	0.88
<b>Behavioral Health</b>									
1	Percentage of patients who had a structured suicide screening	1.96	0.19	1.67	0.62	1.81	0.48	1.81	0.48
2	Percentage of patients with a positive suicide screen who had a structured suicide assessment	1.89	0.32	1.59	0.69	1.74	0.45	1.59	0.64
3	Percentage of patients who received a standardized substance abuse screen	1.44	0.70	1.56	0.64	1.41	0.64	1.48	0.64
4	Percentage of patients screened for intimate partner violence	1.33	0.78	1.22	0.58	1.26	0.66	1.3	0.67
5	Percentage of patients screened for other family/domestic violence	1.48	0.75	1.26	0.71	1.37	0.63	1.41	0.64
6	Percentage of patients screened for human trafficking	1.63	0.49	1.04	0.71	1.3	0.61	1.15	0.72
7	Percentage of patients screened for child abuse	1.89	0.32	1.48	0.75	1.7	0.47	1.56	0.58
8	Percentage of pediatric patients that received consultation with a licensed mental health professional	1.85	0.36	1.48	0.70	1.33	0.62	1.41	0.64
9	Percentage of pediatric patients that received a discharge safety plan	1.93	0.27	1.63	0.63	1.78	0.42	1.56	0.70
10	Percentage of pediatric patients that underwent blood work/drug screening	0.96	0.76	0.96	0.85	1.07	0.78	1.11	0.75
11	Percentage of patients that received behavioral health follow-up	1.89	0.32	1.48	0.70	1.52	0.70	1.33	0.78
12	ED Length of Stay (arrival to disposition)	1.33	0.68	0.96	0.76	1.11	0.85	1.26	0.76