## Parents' and Carers' Impression of "Quality" within a Paediatric Emergency Department

## **Supporting Information**

Table A General ED Quality Assurance parameters							
Wor	kload						
Worl	Workload General						
•	Number of Presentations						
•	Number of patients who Did not wait (DNW) for treatment						
•	Number of Admissions						
Workload Acuity							
•	Number & percentage Triage Category 1 / 2 / 3 / 4 / 5						
•	Median time in resuscitation Area Triage Category 1&2						
Workload Timely Disposition							
•	Number & percentage of presentation seen in <4hrs						
•	Median time to disposition						
•	Triage Category 1 / 2 / 3 / 4 / 5						
	• Presentations seen in <4hrs						
	• Median time to be seen						
	• Median time to disposition						
Workload Capacity							
•	Number of staff (nursing / physician/ allied health)						
•	Number of beds open (ED & ED Observation)						
•	Median length of stay ( ED & ED Observation)						
Patient Centred							
•	Percentage of patients who leave without been seen						
•	Customer feedback "Excellent/Very Good /Good"						

• Discharge summary completed within 48hrs

٠ Median time to complete Discharge summary Time to be seen ٠ Time to initial Treatment, including analgesia ٠ ٠ Complaints Safety ٠ Number of medication errors ٠ Handover related errors ٠ Treatment or investigation errors • Child protection screening Effectiveness & Efficiency Time to analgesia ٠ Representation to ED in 48hrs (excluding scheduled reviews) • • Representation to ED in 48hrs requiring admission (excluding scheduled reviews)

## Table B Disease Specific Quality Assurance measures Quality Assurance Measure – Disease specific Asthma Time to reliever treatment ( $\beta_2$ agonist/Ipratropium) ٠ Time to steroids (>5yrs & Moderate/Severe/Critical) ٠ % Patients received steroids ٠ % Patients received respiratory assessments/grading ٠ % Patients received second line agent ٠ % Patients received Ipratropium ٠ % Patients received Aminophylline / Magnesium Sulphate ٠ Discharged with Action plan & Education ٠ Discharged with steroids ٠ **Discharged with Preventer** ٠ Discharged with follow-up ٠ Steroids given in <5yrs and mild asthma . Chest x-rays in acute asthma ٠ Bronchiolitis Total number of bronchiolitis presentations . Dispositions admission/home/scheduled review/representations <48hrs . Number of chest x-rays . Neonatal Sepsis / Meningitis Time to antibiotic administration . Time to investigations ٠ Time to disposition ٠ Severe Sepsis / Shock Time to IV/IO access ٠ Time to antibiotics administration ٠ Median time to fluid bolus ٠ % of patients requiring bolus given within 1hrs ٠ % of patients with refractory shock requiring inotrope ٠

% of patients Initial blood glucose in 1 hr **Oncological Febrile Neutropenia** Time to investigations (FBE) ٠ Time to Antibiotics ٠ Time to disposition ٠ Severe Head Injury % of Patients without spinal precaution ٠ % Patients with untreated hypotension ٠ % Patients receiving neuro observations including BP ٠ Median time to imaging from request ٠ Median time to neurosurgeon response from request ٠ % Needing definitive airway management ٠ Median time to definitive airway management ٠ **Status Epilepticus** Time from arrival & % of patients who received benzodiazepine ٠ Time from arrival to second line anti-epileptics ٠ % Patient & Time to check initial blood glucose ٠ % patient failure to achieve seizure control within 30mins ٠ Diabetes Ketoacidosis (DKA) % Patient received IV Normal saline ٠ % Patient received appropriate insulin dose & route % patient received potassium replacement ٠ % patient received IV insulin ٠ % patient received bicarbonate ٠ Anaphylaxis % patients received adrenaline ٠ % patient received adrenaline by appropriate route ٠ Fractures Triage category 1 / 2 / 3

Time to Analgesia in ED (include analgesia via Ambulance service)

Commentary on best care/quality	No of	Percentage	2 Survey Two		Survey Three	
	responses	of Total (%)				
	responses	0110001(78)				
			% Likert Score	% Likert Score	% Likert Score	% Likert Score
			Very Important	Extremely Important	Very Important	Extremely Important
			(Score 7 - 9)	(Score 8 - 9)	(Score 7 - 9)	(Score 8 - 9)
Kind, caring and empathic staff who are friendly, courteous and	69	13 <del>.1</del> %	94 <del>.2</del> -%	6 <u>10.9</u> %	89 <del>.3</del> %	51 <del>.2</del> %
compassionate						
Caring & loving	18	3.4%		1		1
Friendly	17	3.2%				
• Kind	10	1.9%	-			
Understanding	6	1.1%				
Patient	5	1.0%	-			
Compassionate	5	1.0%				
Empathy	4	0.8%				
Supportive	4	0.8%	-			
Timely management of children (assessment, diagnosis and	60	11 <del>.4</del> %	95 <del>.00</del> %	6 <u>1</u> 0.90%	9 <u>6</u> 5.50%	5 <u>7</u> 6.80%
treatment)						
Thorough and optimum medical assessment	56	1 <u>1</u> 0.6%	97 <del>.1</del> %	<u>80</u> 79.7%	9 <u>8</u> 7.7%	8 <u>4<del>3.7</del>%</u>
Staff should listen to and understand parents and have exceptional	45	8.6%	94 <del>.2</del> %	5 <u>1</u> 0.7%	93 <del>.2</del> %	5 <u>5</u> 4 <del>.6</del> %
communication skills						
Staff should provide feedback & updates to carers/parents on the	44	8.4%	97 <del>.1</del> %	6 <u>3<del>2.9</del>%</u>	9 <u>8</u> 7.7%	5 <u>4<del>3.5</del>%</u>
progress of care (investigations and treatments)						
Spacious / uncrowded environment waiting area and ED	42	8.0%	87 <del>.0</del> %	4 <u>5</u> 4 <del>.9</del> %	7 <del>6.</del> 7%	3 <u>5</u> 4.9%
Explaining medical conditions, results and plans should be done in	39	7.4%	94 <del>.2</del> %	5 <u>4<del>3.6</del>%</u>	93 <del>.0</del> %	53 <del>.5</del> %
simple terms						
Experienced and knowledgeable staff	31	5.9%	97 <del>.1</del> %	7 <u>6</u> 5.5%	100%	77 <del>.3</del> %
Shorter wait times	29	5.5%	7 <u>4</u> 3.9%	33 <del>.3</del> %	68 <del>.2</del> %	3 <u>2</u> 1.8%
Tailored child friendly environment – waiting area and ED	25	4.8%	87 <del>.0</del> %	49 <del>.3</del> %	81 <del>.4</del> %	4 <u>2</u> 1.9%
Clear follow up plans and reviews that are communicated and	23	4.4%	9 <u>9</u> 8.5%	60 <del>.3</del> %	95 <del>.4</del> %	72 <del>.1</del> %
scheduled (Including ED, GP and Outpatients)						
Triage assessment should be performed in a timely manner	22	4.2%	100%	65 <del>.2</del> %	95 <del>.4</del> %	6 <u>3</u> 2.8%
Resources and equipment availability	20	3.8%	94 <del>.2</del> %	7 <u>32.5</u> %	88 <del>.4</del> %	72 <del>.1</del> %
All staff behaving in a calm and professional manner that	20	3.8%	97 <del>.1</del> %	78 <del>.3</del> %	9 <u>1</u> 0.9%	6 <u>6</u> 5.9%
communicates to and supports each other						
More medical & nursing staff in the Emergency department to treat	18	3.4%	78 <del>.3</del> %	55 <del>.1</del> %	86 <del>.4</del> %	52 <del>.3</del> %
patients						
Timely review of patient to assess progress	15	2.9%	87 <del>.0</del> %	58 <del>.0</del> %	84 <mark>.4</mark> %	4 <u>9</u> 8.8%
Provide an estimate on wait time and any updates while waiting	14	2.7%	78 <del>.3</del> %	4 <u>4</u> 3.5%	75 <del>.0</del> %	3 <u>2</u> 1.8%
Clean & hygienic environment / waiting area	13	2.5%	87 <del>.0</del> %	4 <u>5</u> 4 <del>.9</del> %	7 <del>6.</del> 7%	3 <u>5</u> 4 <del>.9</del> %

## Table C Analysis of participant's impression of "Quality"

Timely access to sub specialised if needed	11	2.1%	9 <u>6</u> 5.7%	6 <u>10.9</u> %	93 <del>.0</del> %	6 <u>1</u> 0.5%
Specialised nurses and doctors for children	11	2.1%	97 <del>.1</del> %	75 <del>.4</del> %	100 <del>.0</del> %	77 <del>.3</del> %
Review and check children while they are waiting	8	1.5%	<mark>89<u>0</u>.9</mark> %	62 <del>.3</del> %	93 <del>.2</del> %	61 <del>.4</del> %
Treating the sicker kids first	6	1.1%	97 <del>.1</del> %	<u>80</u> 79.7%	100 <del>.0</del> %	79 <del>.1</del> %
Triage to provide initial care such as pain relief	5	1.0%	100%	65 <del>.2</del> %	95 <del>.4</del> %	6 <u>3<del>2.8</del>%</u>
Minimal bureaucracy, repetition and administration	5	1.0%	4 <u>1</u> 0.6%	20 <del>.3</del> %	<del>Xx</del> XX	<del>Xx</del> XX
Transfer of patients to other areas of hospital to happen quickly,	5	1.0%	87 <del>.0</del> %	3 <u>8</u> 7.7%	86 <del>.0</del> %	4 <u>7</u> 6.5%
smoothly and without repetition						
Communicate and update parents when there is a change in staff	3	0.6%	7 <u>8<del>7.9</del>%</u>	41 <del>.2</del> %	72 <del>.1</del> %	44 <del>.2</del> %
Medical Treatment followed	3	0.6%	87 <del>.0</del> %	5 <u>7<del>6.5</del>%</u>	8 <u>9</u> 8.6%	61 <del>.4</del> %
Space for visitors in waiting area and treatment area	3	0.6%	87 <del>.0</del> %	49 <del>.3</del> %	81 <del>.4</del> %	4 <u>2</u> 1.9%
Engage parents/carer in the care of the child	3	0.6%	94 <del>.2</del> %	6 <u>10.9</u> %	9 <u>1</u> 0.9%	52 <del>.3</del> %
Retain experienced and skilled paediatric staff	2	0.4%	9 <u>9</u> 8.6%	78 <del>.3</del> %	9 <u>8</u> 7.7%	6 <u>8</u> 7.5%
No medical or nursing students	1	0.2%				
Parking spaces that are available and reasonably priced	1	0.2%				
Mobile reception in ED	1	0.2%				
Ease of access to complete medical records	1	0.2%				
Doing everything possible	1	0.2%				
Staff that skilled in non-English (Mandarin)	1	0.2%				
Evidence based	1	0.2%				
Name of staff easily seen	1	0.2%				
Outcomes/Safety/Stabilise *	1	0.2%				
Dedicated space for Autistic kids	1	0.2%				
* One word comments where context can't be determined						