

Appendix Table 1: Malaria Cumulative Correctness of Pediatric Admission Quality of Care (cPAQC) score allocation table

Malaria			
Domain	Domain details	Clinical task	Scoring criteria
Primary assessment	Fever documentation	Assess fever and document	Score 1 if all items in Primary & secondary domains are documented
Secondary assessment	Convulsions documentation	Assess all signs and document	
	Acidotic breathing documentation		
	Ability to drink documentation		
	AVPU documentation		
	Pallor documentation		
	Grunting documentation		
Complete assessment	Indrawing documentation	Complete documentation of primary and secondary signs of malaria	
	Primary & secondary assessment		
Diagnosis classification	Severe malaria	Use clinical signs to classify malaria severity levels accordingly	Score 1 if there is a complete assessment of signs and malaria severity classification done according to guidelines
	<i>Fever plus any of the following:</i>		
	AVPU<A		
	Inability to drink		
	Respiratory distress with severe anemia		
	Acidotic breathing		
	Non- Severe malaria		
	<i>Fever plus all of the following:</i>		
	AVPU=A		
	Can drink/breastfeed		
	No grunting		
No indrawing			
Drug choice	Severe malaria drugs	Malaria drug prescriptions	Score 1 if preceding clinical tasks and drug(s) are prescribed according to guidelines.
	Artesunate or		
	Quinine		
	Non-severe malaria drug		
	Coartem		

Drug use/application	Severe malaria treatment	Apply malaria drugs appropriately (correct dosage and frequency)	Score 1 if preceding clinical tasks are done according to guidelines and drugs applied appropriately
	Dose: Quinine loading dose ≥ 16 - 24mls/kg		
	Dose: Quinine maintenance dose ≥ 8 - 12 mls/kg Frequency: 8hourly		
	Dose: Artesunate ≥ 1.92 - 3.6mls/kg		
	Non-severe malaria treatment		
	Dose: 0.5 tablet of coartem for <5 kgs 1 tablet of coartem for 5-15kgs 2 tablets of coartem for 15-24kgs 3 tablets of coartem for 24-34 kgs		
			Maximum Malaria cPAQC Score=4

Appendix Table 2: Pneumonia Cumulative Correctness of Pediatric Admission Quality of Care (cPAQC) score allocation table

Pneumonia			
Domain	Domain details	Clinical task	Scoring criteria
Primary assessment	Cough OR difficult breathing	Assessment and documentation of cough or difficult breathing	Score 1 if all items in Primary & secondary domains are documented
Secondary assessment	Cyanosis	Assess all signs and document	
	Ability to drink		
	AVPU		
	Respiratory rate		
	Grunting		
	Indrawing		
Complete assessment	Primary & secondary assessment	Complete documentation of primary and secondary signs of pneumonia	
Diagnosis classification	Severe Pneumonia	Use clinical signs to classify pneumonia severity levels accordingly	Score 1 if there is a complete assessment of signs and pneumonia severity classification done according to guidelines
	<i>Cough or difficult breathing plus any of the following:</i>		
	Oxygen saturation < 90%		
	Cyanosis		
	Grunting		
	Grunting		
	AVPU < A		
	Inability to drink		
	Non- Severe Pneumonia		
	<i>Cough or difficult breathing plus any of the following:</i>		
	Indrawing,		
	Respiratory rate ≥ 40 in 12-59 months or Respiratory rate ≥ 50 in 2-11 Months		
Drug choice	Severe pneumonia drugs	Pneumonia drug prescriptions	Score 1 if preceding clinical tasks and drug(s) are prescribed according to guidelines
	Penicillin and		
	Gentamicin		

	Non-severe pneumonia drug Amoxil		
Drug use/application	Severe pneumonia treatment Dose: Penicillin \geq 40000-60000 IU/kg Route: IV or IM Dose: Gentamicin \geq 6-9 MU/kg Route: IV or IM Non-severe pneumonia treatment Dose: Amoxil \geq 32-54mg/kg	Apply pneumonia drugs appropriately (correct dosage, frequency and route)	Score 1 if preceding clinical tasks are done according to guidelines and drugs applied appropriately
			Maximum Pneumonia cPAQC Score=4

Appendix Table 3: Dehydration Cumulative Correctness of Pediatric Admission Quality of Care(cPAQC) score allocation table

Dehydration			
Domain	Domain details	Clinical task	Scoring criteria
Primary assessment	<i>History of diarrhea OR Vomits</i>	Assessment and documentation of history of diarrhea or vomits	Score 1 if all items in Primary & secondary domains are documented
Secondary assessment	Capillary refill	Assess all signs and document	
	Temperature gradient		
	Sunken eyes		
	Skin pinch		
	Ability to drink		
Complete assessment	AVPU	Complete documentation of primary and secondary signs of illness	
Diagnosis classification	Severe dehydration	Use clinical signs to classify dehydration severity levels accordingly	Score 1 if there is a complete assessment of signs and pneumonia severity classification done according to guidelines
	<i>History of diarrhea OR Vomits plus all of the following:</i>		
	Inability to drink OR AVPU<A		
	Skin pinch >=2 seconds		
	Sunken eyes		
	Some dehydration no shock		
	<i>History of diarrhea OR Vomits plus all of the following:</i>		
	Can drink/breastfeed		
	Sunken eyes		
	Skin pinch 1-2 seconds		
	No dehydration		
	<i>History of diarrhea OR Vomits plus any of the following:</i>		
	Sunken eyes AND Skin pinch is immediate		
Skin pinch 1-2 seconds			
Drug choice	Severe dehydration drug		

	Ringers (Hartman's) or Normal saline or ORS (no IV line)	Dehydration drug prescriptions	Score 1 if preceding clinical tasks and drug(s) are prescribed according to guidelines
	Some dehydration drug		
	ORS		
	No dehydration drug		
	ORS		
Drug use/application	Severe dehydration treatment	Apply dehydration drugs appropriately (correct dosage, frequency and duration)	Score 1 if preceding clinical tasks are done according to guidelines and drugs applied appropriately
	Drug= Ringers(Hartman's)/Normal saline Step 1 & 2 Dosage= 100mls/kg \pm 20% (\geq 80 & \leq 120) Duration= 3Hrs \geq 12m old or 6Hrs \leq 12m old OR Drug= ORS Dosage=120mls/kg \pm 20% (\geq 96 & \leq 144) Duration=6hrs		
	Some dehydration treatment		
	Dosage ORS: \geq 60 - \leq 90 Duration: 4Hrs		
	No dehydration treatment		
	Dosage ORS: \geq 8 - \leq 12		
			Maximum dehydration cPAQC Score=4