

# CRITICAL CARE PATHWAY (CCP) - MALNUTRITION WARD

NAME \_\_\_\_\_ [M] [F] DATE OF BIRTH OR AGE \_\_\_\_\_ DATE OF ADMISSION \_\_\_\_\_ TIME \_\_\_\_\_ HOSP. ID NUMBER \_\_\_\_\_

Comments on pre-referral and/or emergency treatment already given: \_\_\_\_\_

## INITIAL MANAGEMENT

SIGNS OF SEVERE MALNUTRITION				Severe wasting?	Yes	No
Oedema?	0	+	++	+++	MUAC _____ mm	
Dematosis?	0	+	++	+++ (raw skin, fissures)		
Weight(kg):	Height/length (cm):					
Z-score:						

**TEMPERATURE** \_\_\_\_\_ °F / \_\_\_\_\_ °C axillary rectal  
 If axillary < 95°F (35°C), or rectal < 95.9°F (35.5°C) actively warm child,  
 Check temperature every 30 minutes.

**BLOOD GLUCOSE** (mmol/l):  
 If < 3mmol/l and alert, give 50 ml bolus of 10% glucose or sucrose (oral or NG).  
 If < 3mmol/l and lethargic, unconscious, or convulsing, give sterile 10% glucose  
 IV: 5 ml x \_\_\_\_\_ kg (child's wt) = \_\_\_\_\_ ml. Then give 50 ml bolus NG.  
 Time glucose given: oral NG IV

**HAEMOGLOBIN** (Hb) (g/dl): \_\_\_\_\_ or Packed cell vol (PCV): \_\_\_\_\_ Blood type: \_\_\_\_\_  
 If Hb < 5g/dl or PCV < 15% transfuse 10 ml/kg whole fresh blood (or 5-7 ml/kg  
 Packed cells) slowly over 3 hours. Amount: \_\_\_\_\_ Time, started: \_\_\_\_\_ Ended: \_\_\_\_\_

Eye Signs	None	Left	Right	MEASLES	Yes	No
Bitot's spots				Corneal clouding		Corneal ulceration
If ulceration, give vitamin A & atropine immediately. Record on Daily Care page.						
Oral doses Vitamin A:	< 6 months		50 000 IU			
	6 - 12 months		100 000 IU			
	> 12 months		200 000 IU			

**FEEDING** Begin feeding with F-75 as soon as possible. (If child is rehydrated,  
 reweigh before determining amount to feed. New Weight: \_\_\_\_\_ kg)  
**Amount for 2-hourly feedings:** \_\_\_\_\_ ml **F-75\*** **Time first fed:** \_\_\_\_\_  
 \* If hypoglycaemic, feed % of this amount every half hour for first 2 hours: Continue  
 until blood glucose reaches 3 mmol/l.  
**Record all feeds on 24-hour Food Intake Chart.**

ANTIBIOTICS	(All receive)	Drug/Route

SIGNS OF SHOCK							None	Lethargic/unconscious	Cold hand	Slow capillary refill(>3 seconds)	Weak/fast pulse
<b>If lethargic or unconscious, plus cold hand, plus either slow capillary refill or weak/fast pulse, give oxygen. Give IV glucose as described under Blood Glucose (left). Then give IV fluids:</b>  Amount IV fluids per hour: 15 ml X _____ kg (child's wt) = _____ ml											
Time	Start:	Monitor every 10 minutes	* 2nd hr:	Monitor every 10 minutes							
Resp. rate			*								
Pulse rate			*								

\* If respiratory & pulse rates are slower after 1 hour, repeat same amount IV fluids for 2nd hour; then alternate ReSoMal and F-75 for up to 10 hours as in right part of chart below. If no improvement on IV fluids, transfuse whole fresh blood. (See left, Haemoglobin.)

**DIARRHOEA** Watery diarrhoea? Yes No → if diarrhoea, Skin pinch goes back slowly  
 Blood in stool? Yes No circle signs Restless/irritable Lethargic Thirsty  
 Vomiting? Yes No present: Sunken eyes Dry mouth/tongue No tears

**If diarrhoea and/or vomiting, give ReSoMal. Every 30 minutes for first 2 hours, monitor and give: \***  
 5 ml X \_\_\_\_\_ kg (child's wt) - \_\_\_\_\_ ml ReSoMal  
**For up to 10 hours, give ReSoMal and F-75 in alternate hours. Monitor every hour. Amount of ReSoMal to Offer: \***  
 5 to 10 ml X \_\_\_\_\_ kg (child's wt) = \_\_\_\_\_ to \_\_\_\_\_ ml ReSoMal

Time	Start:										
Resp. rate											
Pulse rate											
Passed urine? Y N											
Number stools											
Number Vomits											
Hydration Signs											
Amount taken (ml)					F-75		F-75		F-75		F-75

\* **Stop ReSoMal if:** Increase in pulse & resp. rates Jugular veins engorged Increasing oedema, e.g., puffy eyelids

Dose/Frequency/Duration	Time of 1st dose





### COMMENTS / OUTCOME

<b>COMMENTS:</b>	<b>SPECIAL DISCHARGE AND FOLLOW-UP INSTRUCTIONS:</b>

**TRAINING GIVEN TO PARENTS/CAREGIVERS:**


<b>PATIENT OUTCOME</b>		
Circle outcome:	DATE	CIRCUMSTANCES/COMMENTS
Oedema free WHZ $\geq -2$		
Oedema free 15% increase in body weight from lowest weight		
Early departure (against advice)		Z-score: _____
Early discharge		Z-score: _____
Referral		Z-score: _____
Death		Number of days after admission (circle): $<24$ hrs    1-3 days    4-7 days $>7$ days Approximate time of death:                          Day                          Night Apparent cause(s):
		Had child received IV fluids?                          Yes                          No

IMMUNIZATIONS	Immunization card?    Yes    No			
	First	Second	Third	Forth
BCG	At birth			
Pentavalent	6 Weeks	10 Weeks	14 Weeks	
OPV	6 Weeks	10 Weeks	14 Weeks	With Measles Vaccine
Measles				After completion of 9 months

Circle immunizations already given Initial and date by any given in hospital

# WEIGHT CHART

Name: \_\_\_\_\_

Weight on admission: \_\_\_\_\_ kg

Height/length: \_\_\_\_\_ cm

Oedema on admission: 0 + ++ +++

Desired weight at discharge

≥ -2 Z-score: \_\_\_\_\_ kg

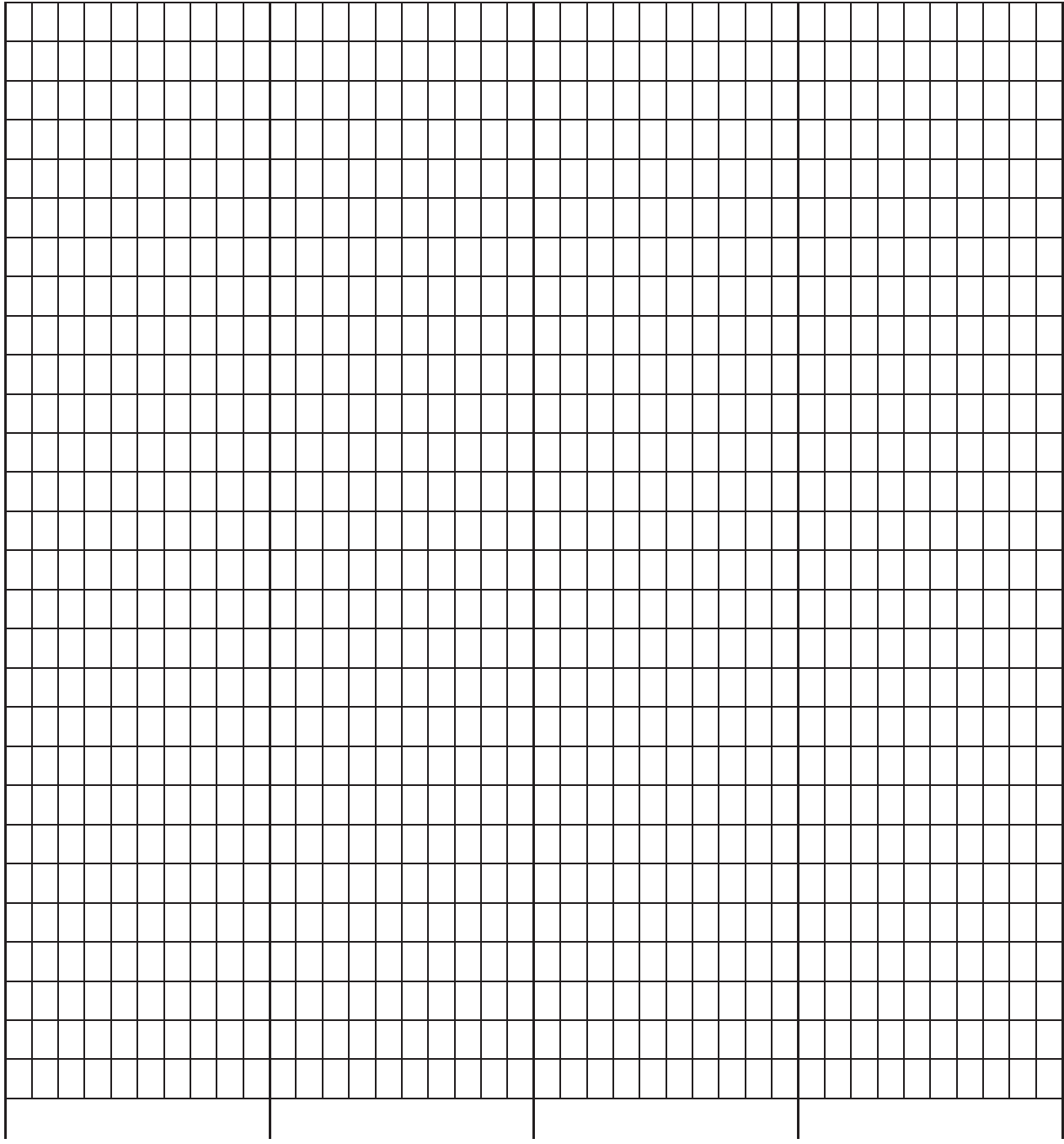
15% weight gain: \_\_\_\_\_ kg

Actual weight at discharge: \_\_\_\_\_ kg

*Enter likely range of weights on the vertical axis in an appropriate scale (e.g., each row representing 0.1 kg). Allow rows below the starting weight in case weight decreases; weight may decrease by as much as 30% if the child has severe oedema.*

*Draw a bold horizontal line across the graph to show the desired discharge weight.*

Weight (Use appropriate scale.)



Days 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28





