SEVERE ACUTE MALNUTRITION EMERGENCY TREATMENT IN SOUTH AFRICA

Complicated cases of Severe Acute Malnutrition have a very high risk of dying during first 48 hours of admission. Early recognition of emergency signs and early treatment will improve likelihood of survival in hospital.

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CONDITION	IMMEDIATE ACTION
Treat shock	If child is in shock:
Shock is suspected in these children if	Give oxygen. Treat and prevent hypoglycaemia and hypothermia.
the child is lethargic or unconscious,	2. Give IV 0.9% Normal Saline bolus fluid at 10ml/kg over 10minutes. Monitor response.
and	3. If there are signs of improvement (e.g. slower pulse and respirations) repeat bolus
cold hands	10ml/kg over 10 minutes, until max 40ml/kg in 1 hour. Each time, check response to previous
Plus either:	bolus before giving further fluid.
Weak fast pulse	Then switch to oral rehydration if further fluid is needed.
or Slow capillary refill (longer than 3	If there are no signs of improvement assume child has septic shock:
seconds)	✓ Admit to ICU for CVP line. Start inotropic support.
, , , , , , , , , , , , , , , , , , , ,	✓ Start broad-spectrum antibiotics (Ceftriaxone). Treat and prevent
Monitor closely: children in shock	hypoglycaemia/hypothermia.
need frequent monitoring of vital signs	✓ Admit the child to high care bed for monitoring. Discuss further case management with
(pulse rate and volume, respiratory	your referral hospital.
rate, urine output, glucose, etc)	Only transfer the child to ward once signs of shock have resolved.
Treat very severe anaemia	If very severe anaemia (or Hb 4-6g/dl AND respiratory distress):
Severe anaemia is Hb<4g/dL	1. Give packed cells 10ml/kg body weight slowly over 4 hours. If signs of heart failure, give 5-
Severe underma to the tigral	7ml/kg packed cells.
	Give furosemide 1mg/kg IV at the start and end of the transfusion.
	NB Keep a close eye for signs of fluid overload: further tachycardia, gallop rhythm,
	breathing even faster, puffy eyelids, enlarging liver size
Treat hypoglycaemia	Test blood glucose level 3 hourly, you can stop testing when it is normal and stable for 24
Treat hypogrycaenia	hours provided the child is not severely ill ¹ .
Hypoglycaemia is a blood glucose	nours provided the dring is not severely in .
<3mmol/L	■ If the blood glucose <3 mmol/L in asymptomatic child, give orally or by NG tube:
Z3HIHOI/E	o immediate feed of a "stabilizing feed (F75)", or
Assume hypoglycaemia if no	o 50ml bolus of 10% dextrose, or
dextrostix available	o sugar solution 5 ml/kg
dexilostix available	Sugar Solution 3 mirky
	Re-Check the Blood Glucose after 30 min, if normal continue normal feeds, monitor
	blood glucose to see it remains above 3 mmol/L.
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	 If symptomatic or unresponsive hypoglycaemia give dextrose 10%², IV, 2 ml/kg over 2-3
	minutes ³ .
	Re-Check the Blood Glucose after 30 min, if normal, continue feeds, monitor blood
	glucose to see it remains above 3 mmol/L.
Treat hypothermia	Take temperature at outpatients/casualty and on admission in the ward. (Ensure thermometer
Trout Hypothionina	is well shaken down).
Hypothermia is axillary/underarm	If the temperature is below 36.5°C:
temperature <35°C.	Begin feeding straightaway (or start rehydration if diarrhoea with dehydration).
tomporataro too o.	Active re-warming: Put the child on the mother's bare chest (skin-to-skin contact) and
	cover them. Cover the child's head.
	Or clothe the child, apply a warmed blanket and place a heater or lamp nearby.
	3. Feed 2-3hourly (8-12 feeds in 24 hours).
	Monitor during re-warming
	Take temperature every two hours: stop active re-warming when temperature rises
	above 36.5°CTake temperature every 30 minutes if heater is used because the child may
	become overheated.
Emergency Eye Care	If corneal ulceration:
Linergency Lye oale	1. Give Vitamin A immediately (<6 months 50,000IU, 6-11 months 100,000 IU, 12-59 months
Corneal Ulceration is a sign of severe	200,000IU) and repeat same dose the following day.
Vitamin A deficiency.	Record dose given in prescription chart and RTHB.
vitariiii A denolericy.	2. Instil one drop atropine (1%) into affected eye to relax the eye and prevent the lens from
	pushing out.
	Note: All children with clinical signs of vitamin A deficiency and children with measles should receive vitamin A on days 1, 2 and 14.
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¹ If severely ill continue 3 hrly blood glucose testing

² Mix 0.5ml/kg 50% Dextrose with 2 ml/kg of water for injection in a syringe – give 2ml/kg of the resulting 10% dextrose solution/ alternatively give 2ml/kg neonatal maintenance solution which also contains 10% dextrose.

³ Previously 5 ml/kg – recent APLS suggests 2ml/kg.