STANDARD TREATMENT WORKFLOW (STW)

Severe Acute Malnutrition with Complications

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Standard Treatment Workflow (STW) for the Management of
SEVERE ACUTE MALNUTRITION WITH COMPLICATIONS
ICD-10-E43

**Common Present Symptoms**
- Fever
- Diarrhea
- Vomiting
- Severe dehydration
- Severe diarrhea
- Unconsciousness
- Convulsion
- Respiratory distress

**Additional symptoms of complications**
- Leucopenia
- Jaundice
- Seizures

**TREATMENT**

**A. STABILIZATION PHASE**

- **Monitor vitals, urine frequency, stool/blood volumes**
- **INTAKE** 3.5 ml/kg/day for 2-5 days with early stimulation of oral feeds (350 ml/day/g/kg)

**TREATMENT**

**CONDITION**

- **INFECTIONS**
  - Facility for supportive monitoring, investigations and IVF
  - IV: Inj. Ampicillin - 50 mg/kg/day or oxacillin 25 mg/kg/day or impen 1.5 mg/kg/day for 7-10 days

**TREATMENT**

- **HYPOGLYCEMIA** (less than 2 mg/dl)
  - Facility for supportive monitoring, investigations and IVF
  - Transfer to intensive care facility to manage shock
  - Unconscious 5% IV dextrose 10 ml/kg/h
  - NO IMPROVEMENT treat as shock

**TREATMENT**

- **PYELONEPHRITIS** (35° C or below)
  - Facility for supportive monitoring, investigations and IVF
  - Transfer to intensive care facility to manage shock
  - Urine analysis and culture

**TREATMENT**

- **SEVERE DEHYDRATION**
  - Facility for supportive monitoring, investigations and IVF
  - Potassium 2-4 meq/l, orally or IV

**TREATMENT**

- **ANEMIA**
  - Facility for supportive monitoring, investigations and IVF
  -Whole blood transfusion (5 ml/kg/10 kg)

**B. REHABILITATION PHASE**

**Place of Treatment**

- **Hospital**
- **Nutrition rehabilitation center (NRC)**

**FEEDING**

- **Place of treatment** Facility for supportive monitoring treatment
  - a. 6 months and above PKS at least 5 times/day gradually increasing to 500 ml by 7th-10th day
  - b. Before 6 months start 6 times/day

**ELECTROLYTES**

- **Place of treatment** Facility for supportive monitoring treatment
  - a. Inj. Zinc 2 mg/kg/day if K < 3.5 mmol/l
  - b. Copper 0.3 mg/kg/day if K < 3.5 mmol/l

**VITAMINS**

- **Place of treatment** Nutrition rehabilitation center (NRC)
  - a. Vitamin A 100,000 units daily for 3 weeks
  - b. Vitamin D 50,000 units daily for 3 weeks

**APPROXIMATE DAILY REQUIREMENTS**

- **WHZ**: Weight for Height z-score
- **MIUZ**: Mid-upper Arm circumference
- **SAM**: Severe Acute Malnutrition
- **SFA**: Standard Deviation (from median)

**ABBRIVATIONS**

- **WHZ**: Weight for Height z-score
- **MIUZ**: Mid-upper Arm Circumference
- **SFA**: Standard Deviation (from median)
- **SAM**: Severe Acute Malnutrition
- **BMI**: Body Mass Index

**REFERENCES**


*This STW has been prepared by national experts of India with the help by considerations for various levels of healthcare systems in the country. These broad guidelines are advisory and are based on expert opinion and available data and other literature. There may be variations in the management of an individual patient based on his/specific condition, as decided by the treating physician. There will be no indemnity for direct or indirect consequences.*

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