SEVERE MALARIA IN ADULTS

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INTERN

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CASE PRESENTATION

• BI,18 y/o F brought from home with a history of 2 episodes of Convulsions and high grade fevers for 3 days and was unconscious at the time of admission.

EMERGENCY ASSESSMENT AND MANAGEMENT

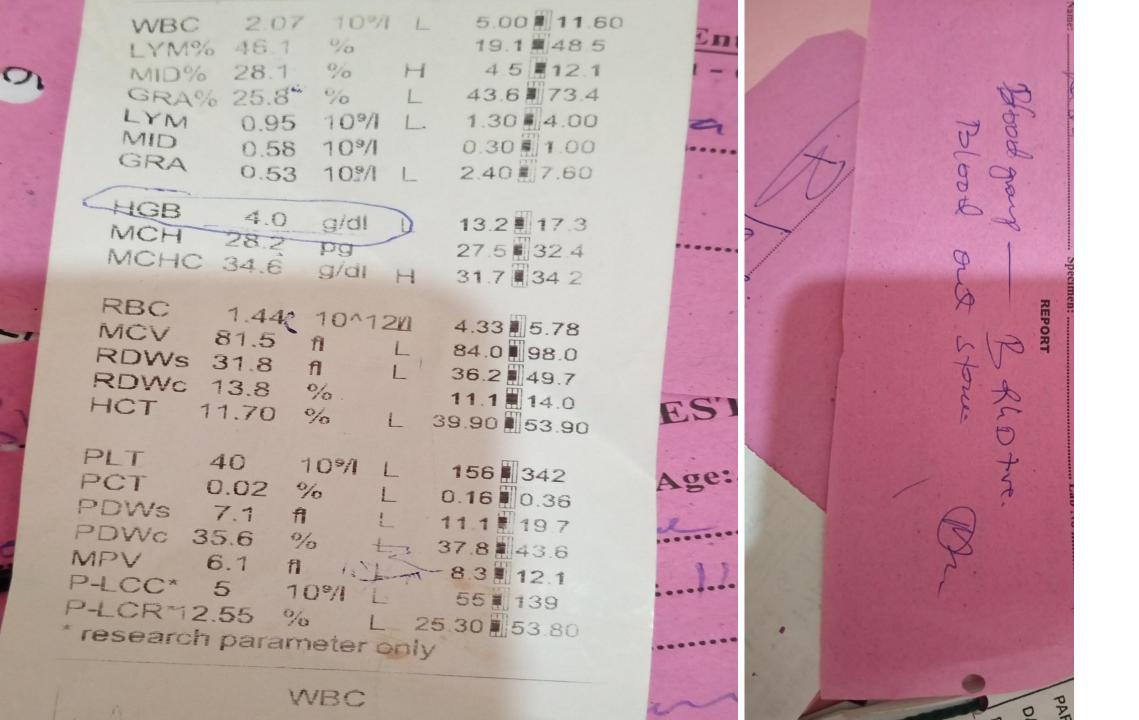
Airway and C-Spine	Unable to support neck Noisy breathing	Guedel's airway
Breathing	RR-34bpm, saturation 87% ON R/A Basal crackles on both lungs	Oxygen by prongs 94% but unstable 98% by maskCardiac bed
Circulation	Tachycardia with PR of 144,thready , bounding. Capillary refill>2s with cold extremities. BP-86/53 mmHg Severe Pallor, HS 1,2 S3 Gallop	 Inserted 2 large bore cannulas 18G NS 1L:D5 0.5L Blood grouping and crossmatch A +ve ,transfused PRCs .
Disability	GCS-E-2,V-2,M-4 Total 8/15 PEARL, Normal deep tendon reflexes, neck stiff, Absent Kernings and Brudzinsky RBS-1.7mmol/L	Lateral recumbent position D50 30mls
Exposure	No trauma Patient cold,muddy Temperature(axilla)-35.5	Wet clothes removed and patient covered.

Cont,

S	Signs and Symptoms	 2 episodes of GTC convulsions associated with urine and stool incontinence and followed by reduced level of consciousness on a cold rainy night. Had complained of GBW, dizziness, poor appetite earlier in the day and symptoms escalated in the evening at 7pm and was brought to the hospital at 10pm. 4 days prior to admission, had had a history of headaches for 3 days that was associated with high grade fevers and non-projectile vomiting Mrdt was positive at a clinic following these symptoms and was put on coartem which she defaulted after two days following slight improvement
Α	Allergies	No known food or drug allergies
M	Medications	Coartem , Paracetamol
Р	Past Medical History	Previously managed for severe Malaria 1 year ago
L	Last Meal	11 hours ago, tea with Cassava
E	Events	First convulsion occurred outside in the rain , patient had fallen on the muddy soil in the compound.

Problem list

- Convulsions
- Hypo/hyperthermia
- Feeding difficulty
- Tea colored urine
- Circulatory collapse
- Malaria related Acute respiratory distress syndrome



Investigations

- RBS-1.7mmol/L
- Mrdt-Positive
- Blood Smear ++
- Hb-4.9 by Hemocue
- CBC-Hb-4.0(13.2-17.3)
 - -Plt-40(156-342)

Blood group-B +ve

LP-Not done

Urine dipstick-Hemolyzed 10 trace.

LFTs, RFTs and Serum electrolytes-Not done, no reagents.

Diagnosis

Severe Malaria with

- Cerebral involvement
- Hypoglycemia
- Severe Anemia
- Acute Kidney Injury
- Hypovolemic shock

Treatment and follow-up

Definitive management

• IV Artesunate 132mg at 0,12,24 hours(two doses), then 132mg OD for 2 days till patient was able to eat ,Then switched to Dihydroatemisinin -Piperaquine(P-Alaxin) 3 tabs OD for 3 days.

Supportive management.

- IV diazepam 10mg twice in 1 hour, still convulsed thus phenytoin 825mg given as loading dose.
- IV Paracetamol 1g 8 hourly for 3 days.
- Oxygen by Nasal prongs then switched to guedels airway and oxygen mask to achieve maximum saturation.
- IV D50 30 mls , then Feeding by NGT , oral hygiene
- Packed RBCS 550mls,IV Furosemide 55mg bd.
- Catheter to monitor urine output and color.
- IV NS:D5 1.5L in 12 hours, then 1L over the next 12 hours.

Followup

- 16th-22nd-Feb-Duration of stay in the hospital.
- Came unconscious on 16th evening, GCS had improved markedly by 19th morning and urine was clearing, started eating fairly on 20th
- Oral Medications started on 21st when patient was able to walk and Blood smear for Malaria parasites were negative.
- Patient discharged on 22nd with a mosquito net after deworming with tabs albendazole 400mg and nutritional education given.