Nigerian National Antimalaria Treatment guidelines

Pre

 Purpose: To provide guidelines for the treatment of malaria in Pregnant women in Nigeria

Pregnant women

- Malaria: An infectious disease caused by plasmodium.
 Namely
 - P. Falciparium
 - P. Vivax
 - P. Ovale
 - P. Malariae

In Nigeria P. Falciparum causes 98% of cases and is most severe; causing the most deaths.

- Transmission: occurs by:
 - Anopheles mosquito
 - Blood Transfusion
 - Mother to child in utero transmission.
- Distribution: Subtropical and tropical areas of the world but eradicated in certain areas – Europe and America

Definitions

- Uncomplicated Malaria Fever, no life threatening manifestations.
- Severe Malaria Fever, presence of P.
 Falciparium asexual parasitemia no
 other cause of observed symptoms and
 presence of life threatening clinical or
 laboratory features.

Disease Classification

- History Ask about Age, residence, travel history, fevers, chills.
- Signs
 - Body temperatures > 37.5 C
 - Enlarged spleen or liver
 - Pallor especially in pregnant women
 - Exclude signs of severe disease.
- Clinical diagnosis:
 - Fever
 - Unexplained pallor
- Laboratory Diagnosis:
 - Standard microscopy
 - Rapid diagnostic tests (RDT)

Assessment and management of uncomplicated malaria

- Objectives
 - Cure the malaria
 - Prevent further transmission
 - Prevent resistance to drugs.
- Recommendation
 - Artemisimin based combination therapy (ACT)
 - Artemisimin derivative and another effective antimalarial drug. Eg. Recommended in Nigeria is Artemethor - Lumefantrine

Treatment of uncomplicated malaria

Weight (Age Group)	Number of tablets/dose
5-14kg (6months - 3 yrs)	1 tab twice daily * 3 days
15 - 24 kg (4 - 8 yrs)	2 tabs twice daily * 3 days
25 - 34kg (9 - 14 yrs)	3 tabs twice daily * 3 days
> 35kg (> 14 yrs)	4 tabs twice daily * 3 days

- Other: Artesunate (4mg/kg) + amodiaquinne (10mg base/kg) daily * 3 days
- 2. Artesunate (4mg /kg) once daily * 3 days + mefloquine 25mg base/kg. (15mg/kg day 2, 10mg/kg day 3.)
- 3. Mono therapy is not recommended

Dosage chart for Artemether - Lumefantrine

- Patient advised to return
 - If fever persists for two days after commencement of treatment
 - Immediately if conditions gets worse or develops signs of severe malaria
- On patient return,
 - Check compliance with treatment advise
 - Repeat blood smear
 - Do complete assessment to exclude other possible diseases

Follow up

Definition:

- Presence of P.Falciparum asexual parasitemine
- Fever
- No other causes of symptoms
- Presence of the following
 - Prostration
 - Impaired consciousness
 - Respiratory distress
 - Multiple convulsions
 - Severe anaemia
 - Circulatory collapse (shock)
 - Pulmonary oedema
 - Abnormal bleeding
 - Jaundice
 - Haemoglobinuria
 - Hyper parastemine
 - Renal Failure

Assessment and management of severe malaria

- Objective
 - Save life
 - Prevent recrudescence
 - Avoid minor adverse side effects
- Drug of choice: Parenteral quinine or artemisinine derivative

Anti Malaria treament in Severe malaria

- Dosage Qinine dihydrochloride 20mg/kg of salt to a max 1.2 gm (loading dose), diluted in 10ml/kg isotonic fluid by IV infusion over 4 hrs;
- 8 hours later: give 10mg salt to a max of 600mg over 4hrs every 8 hours until patient can take orally.
- Then change to tablets 10mg/kg, 8 hourly to complete a total 7 days Or Give full doze of artemethe – Lumefantrine.

Quinine – IV or IM

- If IV quinine is required for > 48hrs, reduce dose to 5 - 7mg/kg to avoid toxicity. Eg. Reduce dosing frequency to every 12 hrs.
- Do not use loading dose if quinine had been given previous 24hrs.

Note

- Quinine dihydrochloride. 20mg/kg salt (loading) dilute to 60 – 100mg/ml IM (divided sites).
- Then 8 hrs after the loading dose, give 10mg/kg 8 hourly until patient starts orally.
- Then quinine tablets 10mg/kg 8 hourly to complete 7 days treatment or give full dose of Artemeter – Lumefantrine.
- Note: Give sterile IM injections into the anterior thigh. DO NOT GIVE AT BUTTOCK.

IM Quinine

• Artesunate:

- 2.4 mg/kg IV bolus, repeat 1.2mg/kg after 12 hrs.
- Then 1.2 mg/kg daily for 6 days.
- *If oral, give full dose of Artemether Lumefantrine
- Artemether 3.2 mg/kg loading. Follow by 1.6mg/kg daily for 6 days.
- Once orally capable give full dose
 Artemether Lumefantrine

Arthemisinin derivatives in severe malaria alternative to quinine

