

Diphos[®]

(Dihydroartemisinin+Piperazine Phosphate)

40mg 320mg
Tablets
15mg 120mg
Sachets

۴۰ ملی گرام / ۳۲۰ ملی گرام میٹس
۱۵ ملی گرام / ۱۲۰ ملی گرام سہاٹس

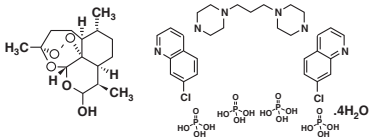
ڈائیفوس

(ڈائی ہائیڈرو آرٹیمیسینین لہیرا کوئن فاسفیٹ)

DESCRIPTION:

Diphos[®] is the fixed dose combination therapy of Dihydroartemisinin & Piperazine Phosphate used as first-line treatment of uncomplicated malaria. Dihydroartemisinin is the most active metabolite of all artemisinin compounds and Piperazine Phosphate belongs to the 4-amino-quinoline.

CHEMICAL STRUCTURE:



Dihydroartemisinin Piperazine Phosphate

COMPOSITION:

Diphos[®] Tablet 40mg/320mg

Each film-coated tablet contains:

Dihydroartemisinin Ph. Int.40mg

Piperazine phosphate 320mg

Innovator's Specifications

Diphos[®] Sachet 15mg/120mg

Each sachet contains:

Dihydroartemisinin Ph.Int.15mg

Piperazine Phosphate120mg

Genix Specifications

PHARMACOLOGY:

Oral Dihydroartemisinin is rapidly & completely absorbed within 1 hrs and achieves peak plasma level within 0.6 hrs after absorption with C_{max} of 360 (181-658) ng/ml, AUC₂₄ 907 (324-2,289) ng/ml. Elimination half life of Dihydroartemisinin is 3.1 hrs after oral administration.

Piperazine is rapidly absorbed and achieves peak plasma level within 4-7 hrs after oral administration. C_{max} achieves 232 ng/ml within (T_{max}) 3hrs. AUC₂₄ of Piperazine is 13441 ng/ml and elimination half life of Piperazine is 20-25 days. There is minimal effect of food on the absorption of Piperazine thus no specific food instructions are required at the time of Piperazine administration.

MECHANISM OF ACTION:

Dihydroartemisinin has fastest action on malarial parasite among all artemisinin derivatives by rapidly eliminating blood schizonts and also have strong effect on early and late trophozoites.

Dihydroartemisinin concentrates selectively into cells contracted by parasites and reacts with hem to kill the parasites. This reaction produces poisonous free radicals that can destroy membranes of parasites.

Piperazine, a derivative of 4-aminoquinoline group, have strong action on blood schizonts and late trophozoites.

Piperazine inhibits the hemozoin formation & interacts with the hem to form ferritroporphyrin-piperazine complex (FP-Piperazine complex) which is highly toxic and damage the membrane of all types of malarial parasites and destroy them effectively. Both Dihydroartemisinin and Piperazine also have strong action on gametocytes which help to prevent the malaria transmission.

THERAPEUTIC INDICATIONS:

World Health Organization (WHO) strongly recommends Dihydroartemisinin + Piperazine Phosphate (*Diphos[®]*) as a latest ACT option to use as first line treatment for the uncomplicated *P. falciparum* malaria including multi-drug resistant strains. Dihydroartemisinin + Piperazine Phosphate is also effective against *P. vivax* malaria and has strong action on gametocytes. Piperazine is also used as prophylaxis due to the advantage of its longer half life.

ADMINISTRATION AND DOSAGE:

Dihydroartemisinin+Piperazine Phosphate (*Diphos[®]*) is administered as once daily for 3 days course for the treatment of Malaria.

The recommended dose of Dihydroartemisinin is given 4mg/kg/day & Piperazine Phosphate is given 32mg/kg/day

AGE	DAY-1	DAY-2	DAY-3
>15 year	4 tab	2 tab	2 tab
11-14 year	3 tab	1½ tab	1½ tab
7-10 year	2 tab	1 tab	1 tab
1-6 year	1 tab	1/2 tab	1/2 tab

Sachet dose:

Body Weight	Day-1	Day-2	Day-3
5 to <7 kg	1 Sachet	1 Sachet	1 Sachet
7 to <13 kg	2 Sachets	2 Sachets	2 Sachets
13 to <25 kg	3-3.5 Sachets	3-3.5 Sachets	3-3.5 Sachets

Direction For Use.

Pour the granules of sachet into some water and drink.

To achieve high clinical cure rate, the drug should be taken at 0, 6, 24hours and 48 hours.

ADVERSE EFFECTS:

In several patients treated with Dihydroartemisinin+Piperaquine Phosphate, no severe adverse effects have been reported.

Adverse effects seen are usually light and disappear when the treatment is stopped. The common side effects are nausea, vomiting, stomachache, diarrhea, headache, dizziness itching pruritus etc.

CONTRAINDICATION:

Patients with hypersensitivity to any of Artemisinin's derivative and Piperaquine Phosphate component.

PREGNANCY:

Limited data is available to use the Dihydroartemisinin+Piperaquine Phosphate during first trimester. Findings of routine examination were normal, apart from the low birth-weight. However, precautions are very necessary during first trimester. In second & third trimester WHO recommends the use of ACTs including Dihydroartemisinin+Piperaquine Phosphate to treat the malaria.

LACTATION:

Lactating women should receive standard antimalarial treatment (including ACTs) except for Dapsone, Primaquine and Tetracyclines.

INSTRUCTIONS:

Dosage as directed by the physicians.

Store below 30°C.

Protect from heat, light & moisture.

Keep all medicines out of the reach of children.

PRESENTATION:

Diphos[®] Dihydroartemisinin+Piperaquine Phosphate Tablets are available in Alu-Alu blister pack of 1x8's.

Diphos[®] Dihydroartemisinin+Piperaquine Phosphate Sachets are available in 1x16's Pack.

ہدایات:

خوراک ڈاکٹر کی ہدایت کے مطابق استعمال کریں۔

۳۰ ڈگری سینٹی گریڈ سے کم پر رکھیں۔

روشنی، گرمی اور نمی سے محفوظ رکھیں۔

تمام دوائیں بچوں کی پہنچ سے دور رکھیں۔

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