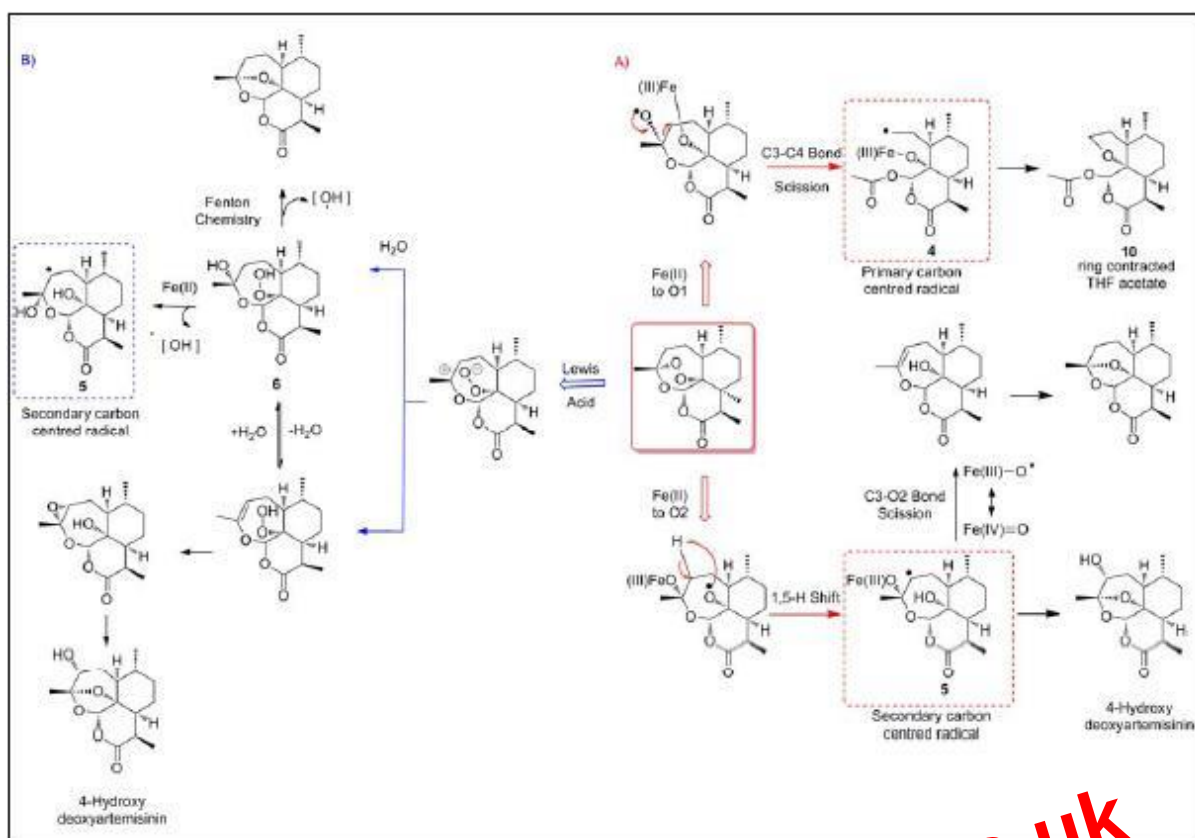




There are two mechanisms of the mechanism of how the artemisinin works, mechanism (a) is the Reductive scission model and mechanism (b) is the Open peroxide model.

Reductive scission model

The oxygen radicals which were given off in the oxidation of the Fe rearrange to form carbon centred radicals, although the nature of the proposed radical and mechanistic pathways which formed them being different in each case.

Low valent transition ions – ferrous haeme or non haeme endogenous Fe²⁺, where found to bind to artemisinin and trigger e⁻ transfer reductive scission of the peroxide bridge to produce oxygen centred radicals that rearrange to give us carbon centred radicals.

Medications that have artemisinin in their structure

ACT Therapies:

Coartem – Artemether + Lumefantrine.

Artsuamoon – Artensunate + Amodiaquine.

Sulphamon plus 500 – Artensunate + Sulphadoxine/Pyrimethamine.

Artequin – Artensunate + Mefloquine.

Preview from Notesale.co.uk
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