



MICHAEL JACKSON KING OF POP



He died on 25th June, 09





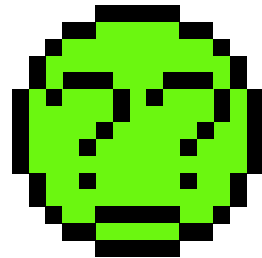
I May Have Killed MJ.
Look at My Shady Smile

Conrad
Murray

Propofol



What is Propofol ?



Propofol is

- An anesthetic.
- Used to produce relaxation and sleep before or during surgery.
- An extremely popular intravenous general anesthetic agent due to several favorable characteristics.



Anti-emetic effect

A general state of euphoria

Rapid emergence from unconsciousness with minimal residual drowsiness

Propofol appears as a highly opaque-white fluid



Chemical Structure of Propofol



Development of propofol

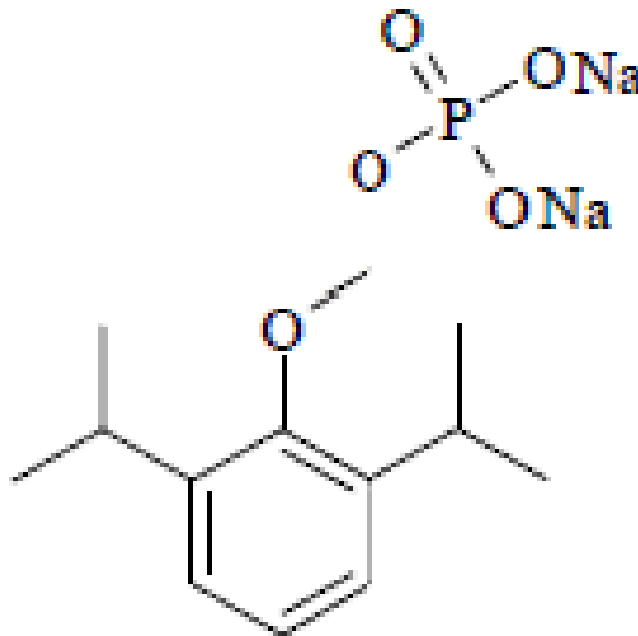
- Initial clinical trials in **1977** in a form solubilised in **Cremophor EL** (a kind of drug additive acts as surfactant).
- However there are **severe allergic reaction**, and it was reformulated as an emulsion of propofol with **soya oil** in water.
- Newer generic formulation contain **metabisulphite**. (a carrier of the active ingredients [propofol])

Molecular modification

Recently, a water soluble form – fospropofol

(2,6-diisopropylphenoxymethyl phosphate disodium) is developed.

The fospropofol is found to break down to propofol in the body by the enzyme alkaline phosphatase in vivo.



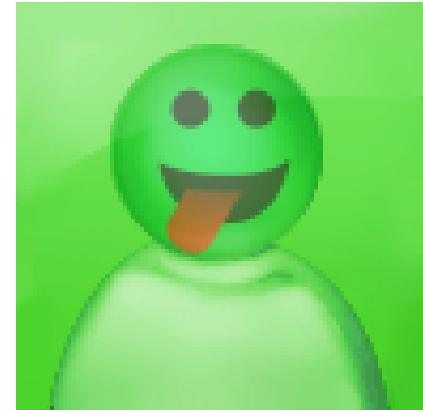
ie phosphatase

- As fospofol is water soluble, it is more readily to inject and minimize the pain at the injection site.
- The fospropofol was approved by USFDA in 2008.



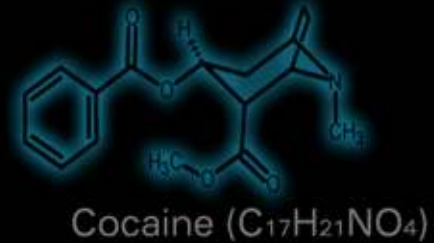
Side effects

- allergic reactions like skin rash, itching or hives, swelling of the face, lips, or tongue
- breathing problems, stomach pain
- changes in vision
- dark urine
- fast, irregular heartbeat
- low blood pressure
- pain at site where injected
- addicted

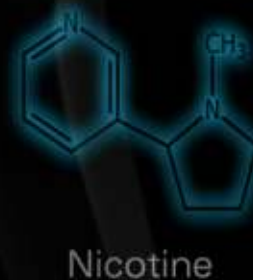
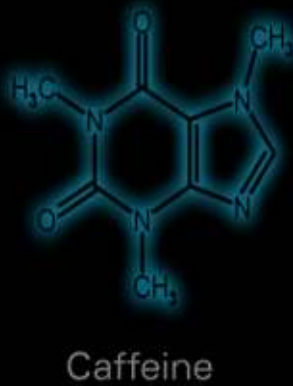
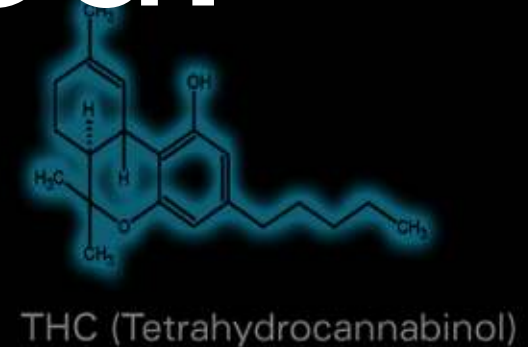


Restriction

- heart disease
- high cholesterol
- an unusual or allergic reaction to propofol, anesthetics, eggs, soy, benzyl alcohol, sulfites, other medicines, foods, dyes, or preservatives
- pregnant or trying to get pregnant
- breast-feeding
- infant



Thank you!



Chow Chi Wai (4)

Wan Kin (24)