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“Zero malaria starts with me”

WORLD MALARIA DAY 25 April 2019

Mosquirix - RTS,S is the first, and to date the only, vaccine that has demonstrated it can significantly reduce malaria in children. In clinical trials, the vaccine was found to prevent approximately 4 in 10 malaria cases, including 3 in 10 cases of life-threatening severe malaria



Details for RTS,S vaccine (Mosquirix™):

RTS,S is a scientific name given to this malaria vaccine candidate and represents its composition.

- ❖ The ‘R’ stands for the central repeat region of Plasmodium (P.) falciparum ‘circumsporozoite protein (CSP);
- ❖ The ‘T’ for the T-cell epitopes of the CSP;
- ❖ the ‘S’ for hepatitis B surface antigen (HBsAg).

First malaria vaccine is available in Malawi to children from 5 months old to 2 years.



These are combined in a single fusion protein (‘RTS’) and co-expressed in yeast cells with free HBsAg. PSM Simplified By Dr Mukhmohit
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The ‘RTS’ fusion protein and free ‘S’ protein spontaneously assemble in ‘RTS,S’ particles. The vaccine is administered via intramuscular injection (preferably to the deltoid region), over 3 dosing periods, each 1 month apart, which is consistent with administration of other WHO EPI vaccines. The product is stable for 3 years when stored at temperatures between 2 and 8 °C, but must be used within 6 hours of reconstitution

Financial partner: GSK, Bill and Melinda Gates Foundation, World Bank

Source:

- 1) The RTS,S Clinical Trials Partnership. NEJM 2011; 365: 1863-75.
- 2) The RTS,S Clinical Trials Partnership. NEJM 2012; 367: 2284-95.
- 3) Intention to Treat analysis (ITT)
- 4) The RTS,S Clinical Trial Partnership, PLoS Medicine, 2014; 11(7): e1001685
- 5) https://www.medscape.com/viewarticle/760009_8
- 6) Expert Rev Vaccines. 2016 Dec;15(12):1481-1493.
- 7) www.who.int/news