NEW MALARIA VACCINES ROADMAP TARGETS NEXT GENERATION PRODUCTS BY 2030

PARTNERS AGREE APPROACH FOR DEVELOPING VACCINES CAPABLE OF REDUCING MALARIA CASES BY 75%, AND TO ENABLE MALARIA ELIMINATION

WASHINGTON, DC – 14 November 2013. The world should aim to have vaccines which reduce malaria cases by 75%, and are capable of eliminating malaria, licensed by 2030, according to the updated 2013 Malaria Vaccine Technology Roadmap, launched today. This new target comes in addition to the original 2006 Roadmap's goal of having a licensed vaccine against Plasmodium falciparum malaria, the most deadly form of the disease, for children under 5 years of age in sub-Saharan Africa by 2015.

"Safe, effective, affordable vaccines could play a critical role in defeating malaria," said Dr Robert D. Newman, Director of WHO's Global Malaria Programme. "Despite all the recent progress countries have made, and despite important innovations in diagnostics, drugs and vector control, the global burden of malaria remains unacceptably high."

The most recent figures by the World Health Organization indicate that malaria causes an estimated 660,000 deaths each year from 219 million cases of illness. Scale-up of WHO recommended malaria control measures has been associated with 26% reduction in the global malaria death rate over the last decade. Effective malaria vaccines could be an important complement to existing measures, if they can be successfully developed.

Final results from Phase III trials of the most advanced vaccine candidate, RTS,S/AS01, will be available by 2015. Depending on the final trial results, and depending on the outcome of the regulatory review by the European Medicines Agency, a WHO recommendation for use and subsequent prequalification of this first vaccine could occur in late 2015.

The new roadmap, launched today at the annual conference of the American Society of Tropical Medicine & Hygiene in Washington DC and also announced in a letter published in The Lancet, aims to identify where additional funding and activities will be particularly key in developing second generation malaria vaccines both for protection against malaria disease and for malaria elimination. These include next-generation vaccines that target both Plasmodium falciparum and Plasmodium vivax species of malaria.

"The new vaccines should show at least 75% efficacy against clinical malaria, be suitable for use in all malaria-endemic areas, and be licensed by 2030," says Dr Jean-Marie Okwo Bele, Director of WHO's Department of Immunization, Vaccines and Biologicals. "The roadmap also sets a target for malaria vaccines that reduce transmission of the parasite."

The 2013 Malaria Vaccine Technology Roadmap cites several reasons for the update, among them changing malaria epidemiology associated with the successful scale-up of malaria control measures in the last decade, a renewed focus on malaria elimination and eradication in addition to the ongoing need to sustain malaria control activities, and new technological innovations since 2006 including promising early work on so-called transmission-blocking malaria vaccines.

WHO lists 27 malaria vaccine candidates currently in clinical trials, with most in early stages of testing; RTS,S/AS01 is the only one currently in the late-stage development.

The Roadmap's vision centres on developing safe and effective vaccines against Plasmodium falciparum and Plasmodium vivax that prevent disease and death and prevent transmission to enable malaria eradication, and is built around two strategic goals:

- Development of malaria vaccines with protective efficacy of at least 75% against clinical malaria suitable for administration to appropriate at-risk groups in malaria-endemic areas.
- Development of malaria vaccines that reduce transmission
 of the parasite and thereby substantially reduce the incidence
 of human malaria infection. This will enable elimination in
 multiple settings. Vaccines to reduce transmission should be
 suitable for administration in mass campaigns.

The Malaria Vaccine Technology Roadmap is the result of a consultative process led by WHO, which brought together the global community of malaria vaccine researchers and product developers, and is supported by an informally-organized group of malaria vaccine funders. The Malaria Vaccine Funders Group comprises the Bill & Melinda Gates Foundation, the European & Developing Countries Clinical Trials Partnership, the European Vaccine Initiative, the European Commission, the PATH Malaria Vaccine Initiative, the US Agency for International Development, the US National Institute of Allergy and Infectious Diseases, the Wellcome Trust, and WHO.

World Health Organization. Media centre. New malaria vaccines roadmap targets next generation products by 2030 [Internet]. Geneva: WHO; 2013 [cited 2013 Dec 9]. Available from: http://www.who.int/mediacentre/news/notes/2013/malaria-vaccines-20131114/en/.