

A young child is sleeping peacefully in a bed. The child is wearing a white diaper and is covered with a red blanket. The bed has a patterned blanket with green and yellow floral designs. The background is slightly blurred, showing a white headboard and a window with a wooden frame.

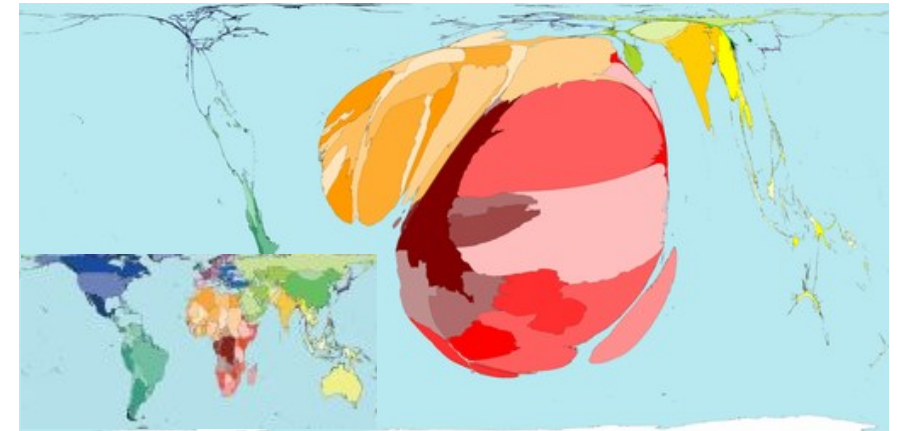
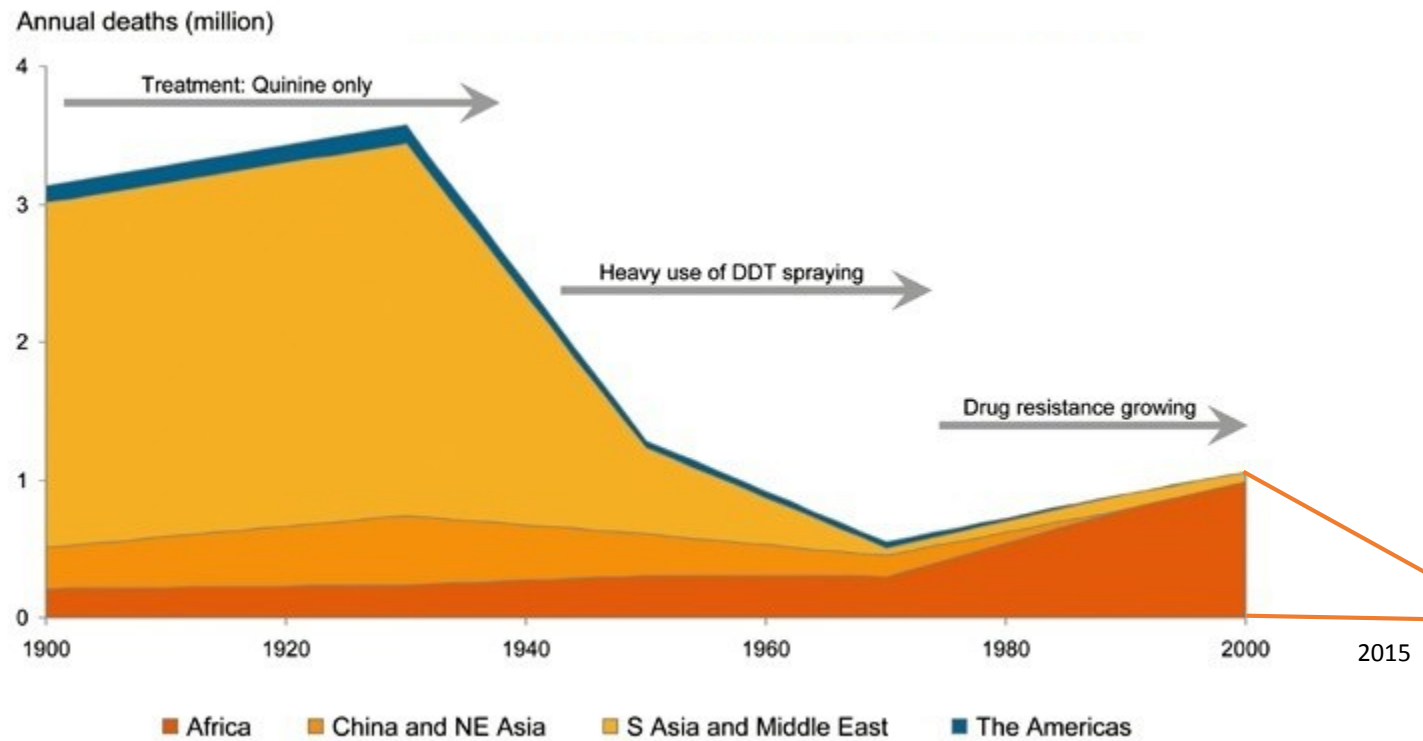
# Vývoj vakcín proti malárii

RNDr. Lenka Richterová

Nemocnice Na Bulovce OKM-Parazitologie

XIII. Hradecké vakcinologické dny (5. - 7. 10. 2017)

# Mortalita malárie 1900-2015

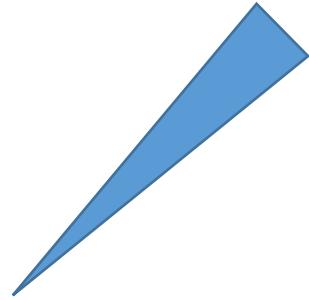


<http://141repellent.wordpress.com/tag/ddt>

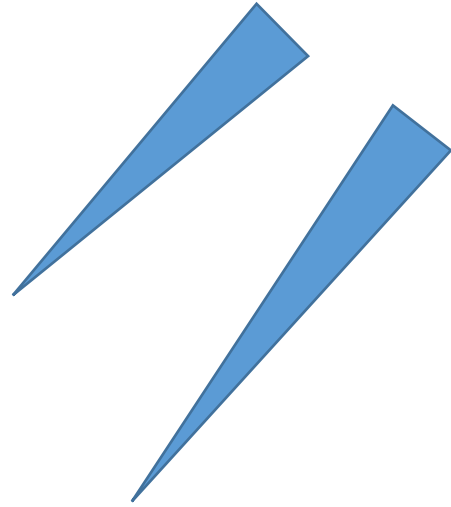
<http://www.worldmapper.org/display.php?selected=229>

# Opatření v boji proti malárii

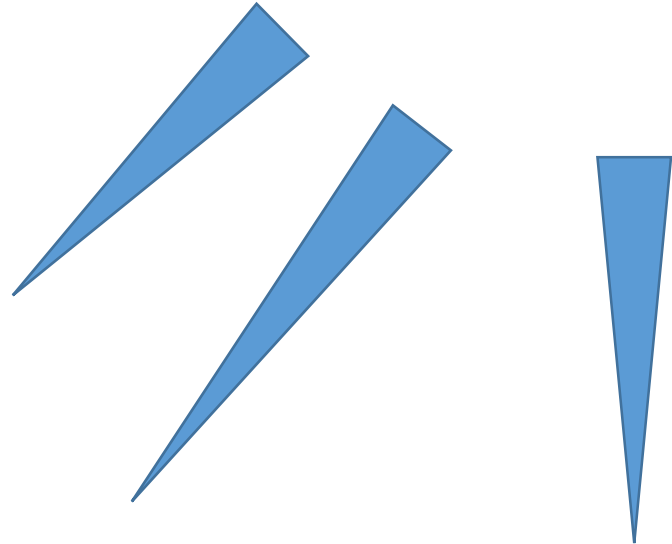
# Opatření v boji proti malárii



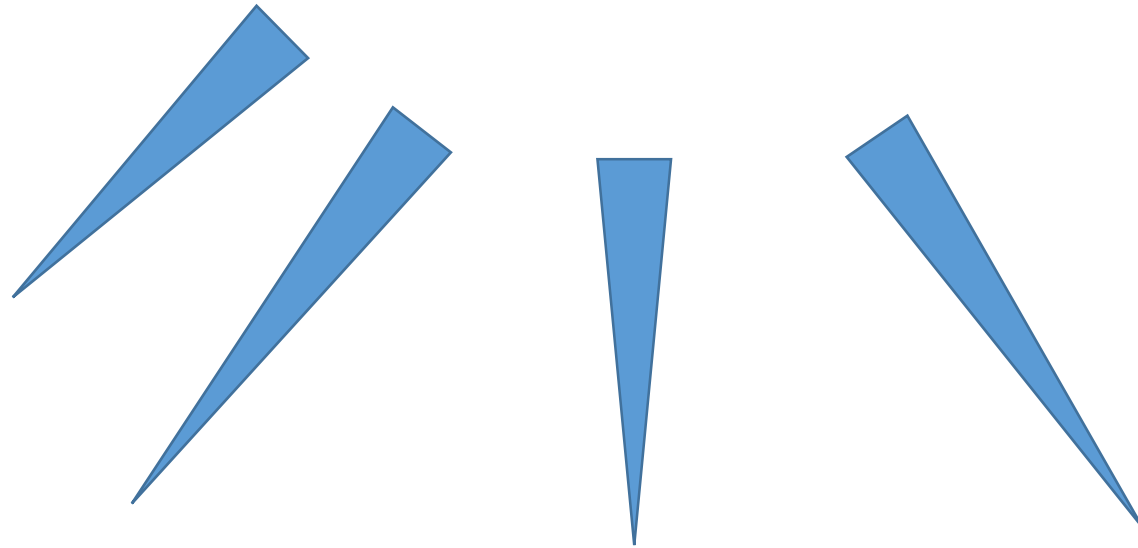
# Opatření v boji proti malárii



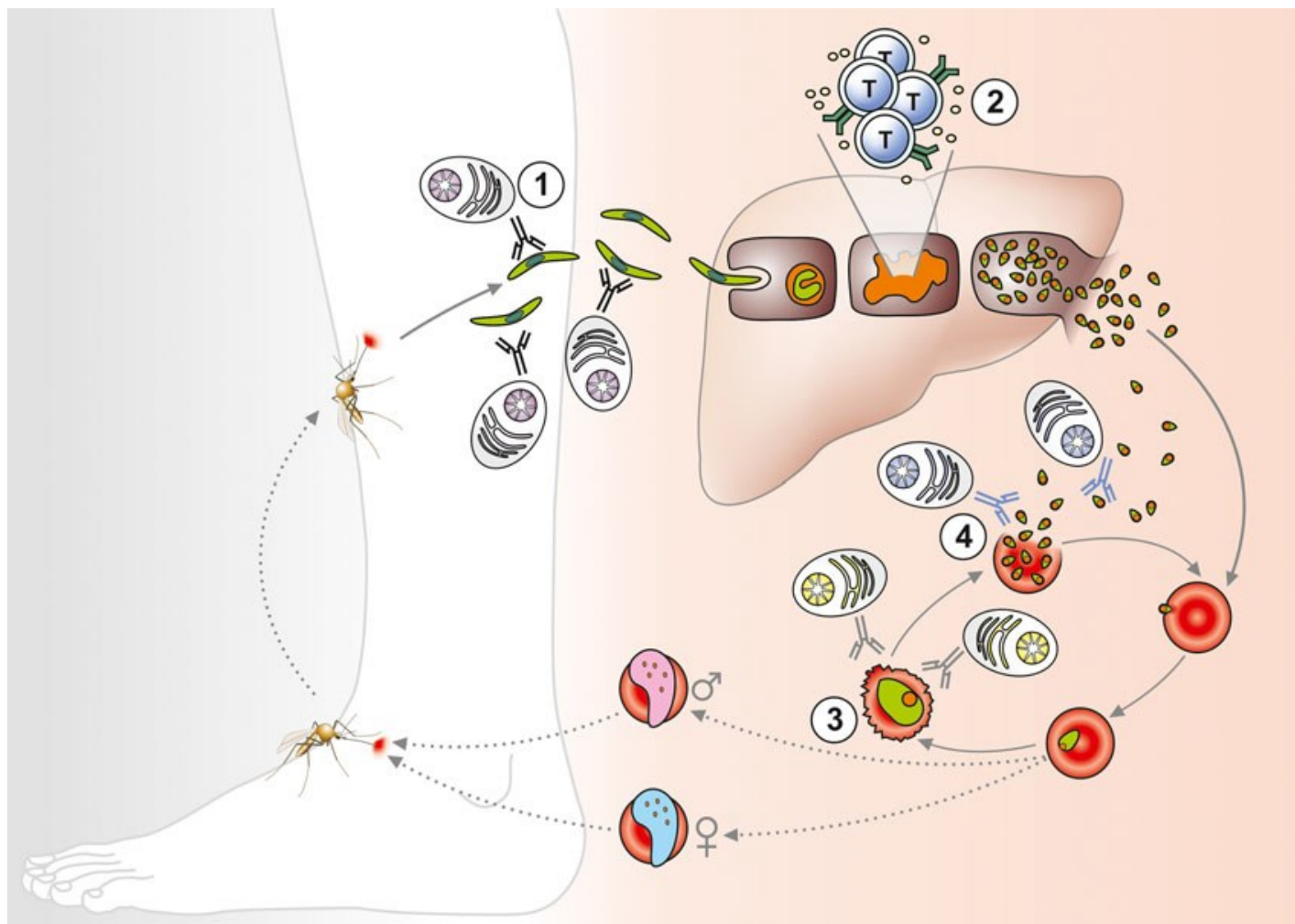
# Opatření v boji proti malárii



# Opatření v boji proti malárii

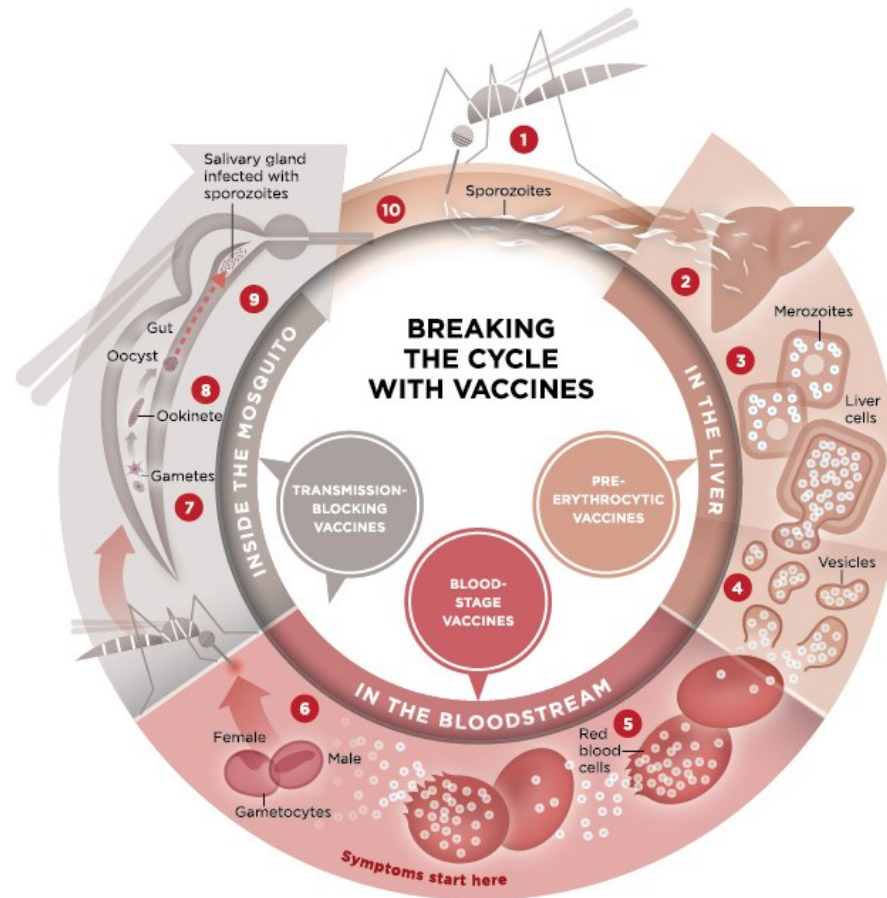


# Přirozená - získaná imunita proti malárii

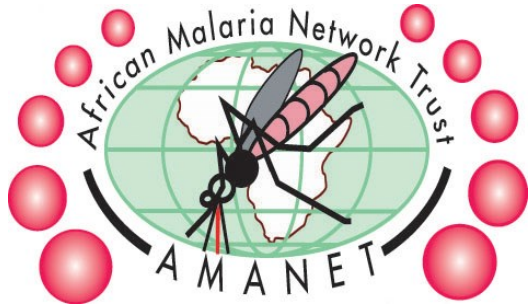




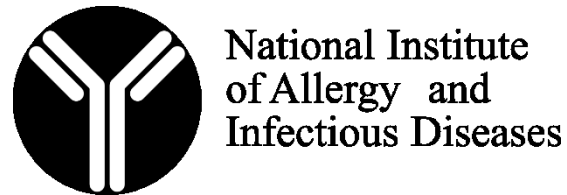
# Cíle vakcín v rámci cyklu malárie



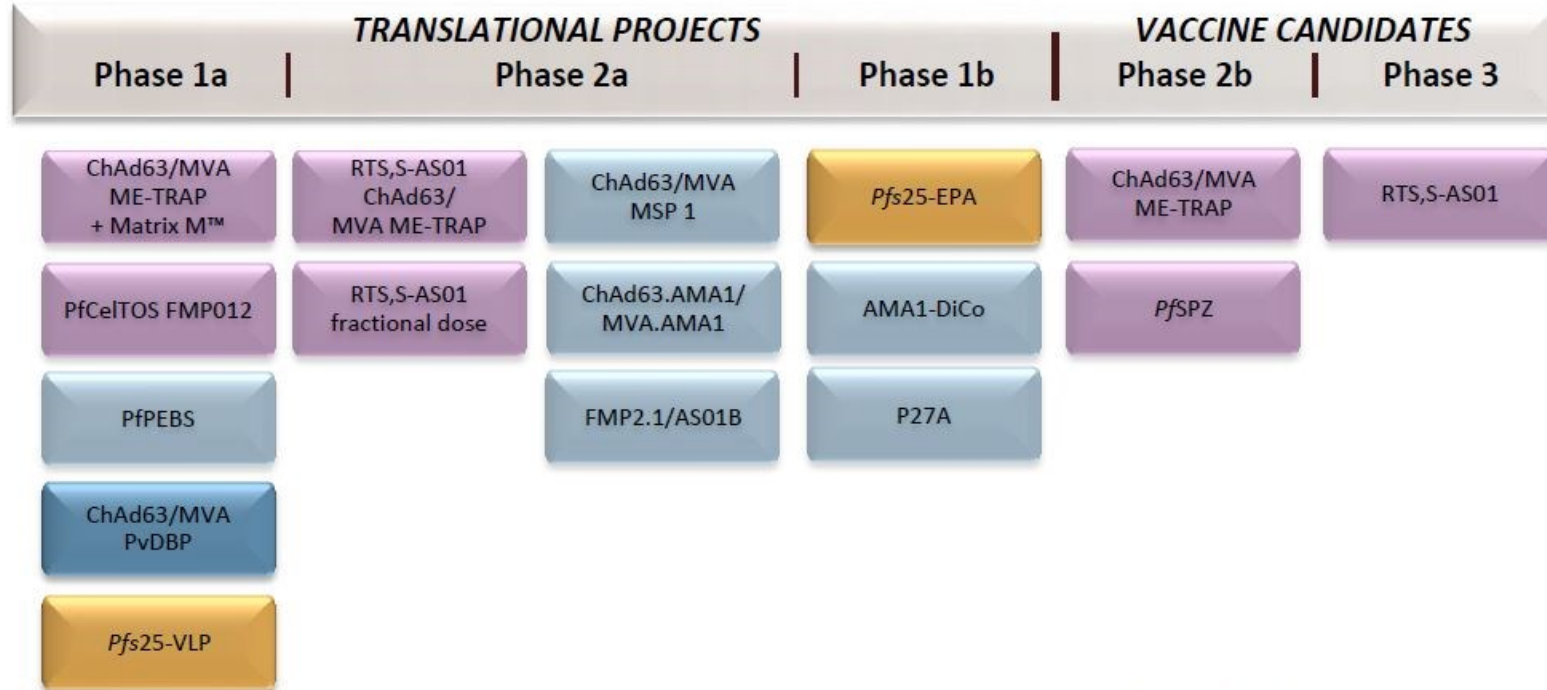
# Organizace sponzorující vývoj vakcíny



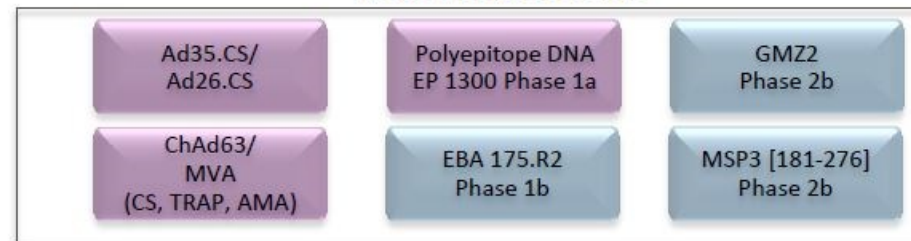
BILL & MELINDA  
GATES foundation



# Global malaria vaccine pipeline



Completed,  
Reporting overdue



*P. falciparum* vaccines:

*P. vivax* vaccines:

Pre-erythrocytic

Pre-erythrocytic

Blood-stage

Blood-stage

Transmission-blocking

Transmission-blocking

Data source: [http://www.who.int/vaccine\\_research/links/Rainbow/en/index.html](http://www.who.int/vaccine_research/links/Rainbow/en/index.html)

# Klinické studie



# Klinické studie



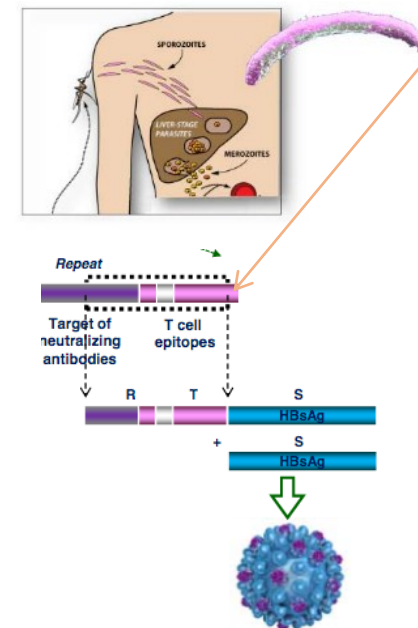
# RTS,S-AS01 (Mosquirix)



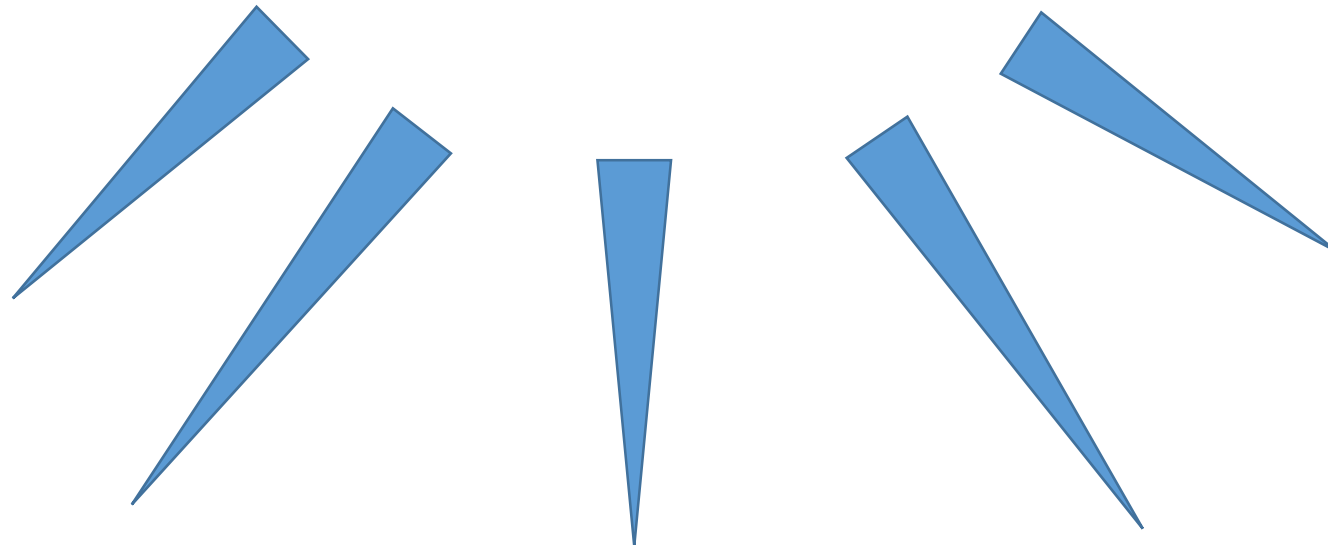
BILL & MELINDA  
GATES foundation



- recombinant protein-based malarická vakcína
- První vakcína licencovaná k použití **proti parazitární nákaze**
- **Ochranný účinek** po 3 dávkách **28-54%** v prvním roce  
poté 16% (5-17m děti) 8% (6-12týdnů děti)  
v dalších letech ochrana vymizí
- 23 říjen 2015 (WHO-SAGE, MPAC)  
European regulators červenec 2015  
**doporučilo pilotní implementaci vakcíny v Africe**

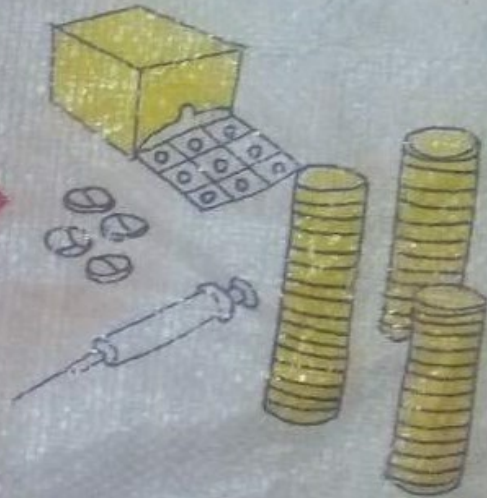


# Opatření v boji proti malárii



# apantu bo omusujja gw

AMAKA 1



AMAKA 2



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