

# Tropical infectious disease research

Steve Meshnick

The background of the slide is a solid blue color. In the lower half, there are several decorative elements consisting of concentric circles. One large set of circles is centered near the bottom left, another smaller set is near the bottom center, and a third set is near the bottom right. Additionally, there is a small, faint set of concentric circles in the upper right corner.

# Malawi

- Malaria during pregnancy
  - Intermittent Preventive Therapy (IPT)
  - Treatments for HIV-malaria coinfections
- HIV mother-to-child transmission
  - Syphilis coinfections increase risk ~3x
  - Maternal-fetal microtransfusions
  - CHAVI 009
- Archived chloroquine resistance
- U of Malawi School of Public Health

# Is chloroquine resistance really gone from Malawi?

*The* NEW ENGLAND  
JOURNAL *of* MEDICINE

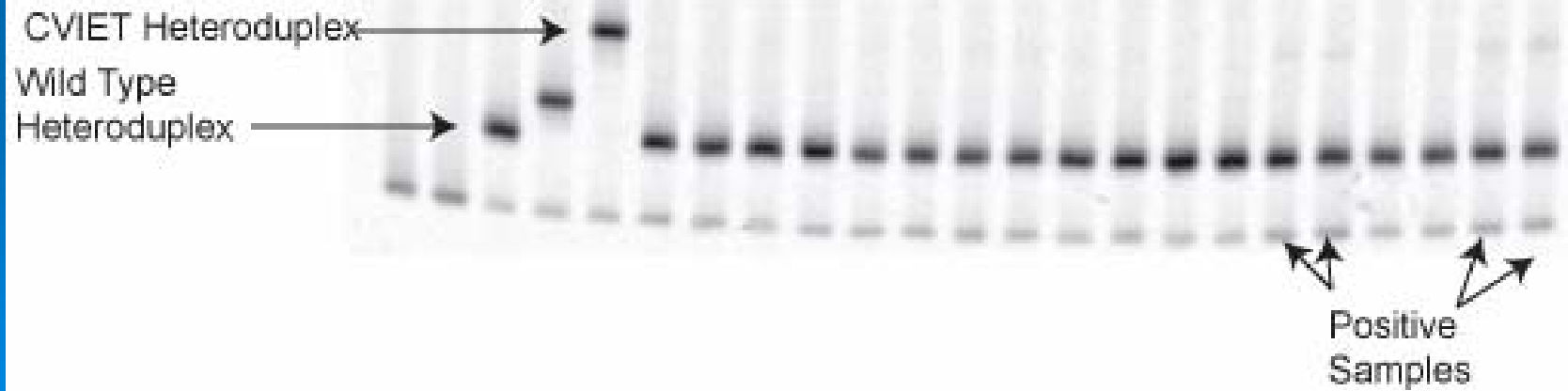
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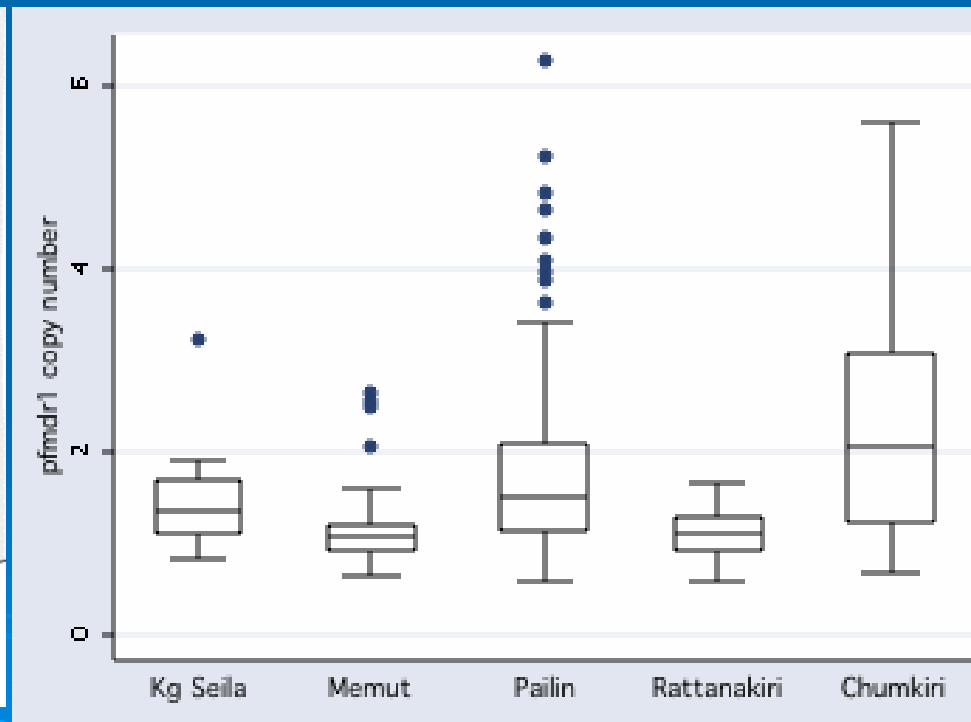
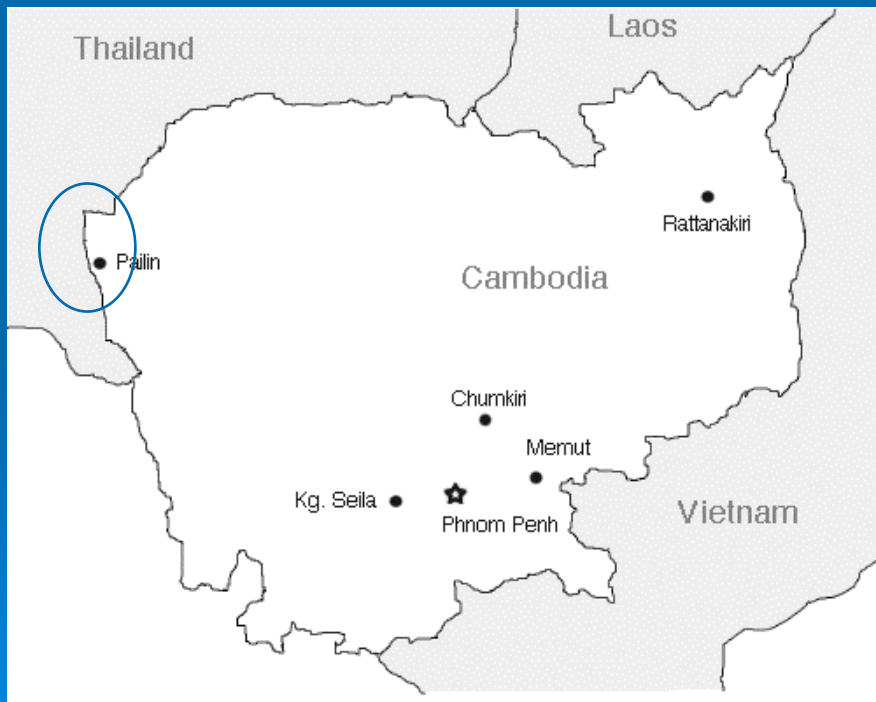
## Return of Chloroquine Antimalarial Efficacy in Malawi

Miriam K. Laufer, M.D., Phillip C. Thesing, D.O., Nicole D. Eddington, M.S., Rhoda Masonga, Francis K. Dzinzjalama, Ph.D., Shannon L. Talala, Ph.D., Tami E. Taylor, D.O., and Christopher V. Plowe, M.D., M.P.H.



# Cambodia/Thailand

- Monitor drug resistance
- Change drug policy



# DR Congo

- Malaria during pregnancy
  - Prompt treatment minimalizes adverse effects
  - Malnutrition is an effect measure modifier
  - Development of new IPT agents
- Human African Trypanosomiasis
  - Epidemiology
  - Drug access

# Historic HAT Foci



WHO, 2003