Leiden University Medical Center

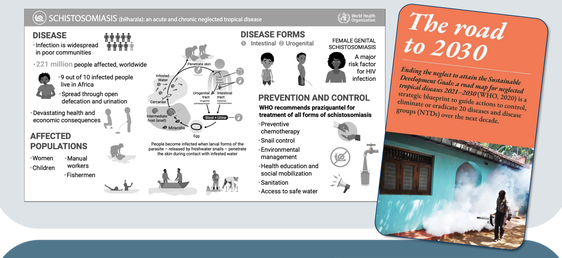
Pytsje T. Hoekstra, P.L.A.M. Corstjens, G.J. van Dam and L. van Lieshout - *on behalf of numerous international collaborators*

Department of Parasitology & Department of Cell and Chemical Biology, Leiden University Medical Center, The Netherlands

pthoekstra@lumc.nl

UCP-LF CAA: *for diagnosing and post-treatment monitoring of schistosomiasis*

In a world battling schistosomiasis...



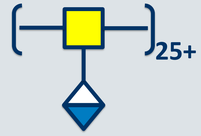
...the WHO 2030 roadmap identifies diagnostic development as crucial

Variable sensitivity
Fluctuation egg excretion
Labor intensive

Alternatives?

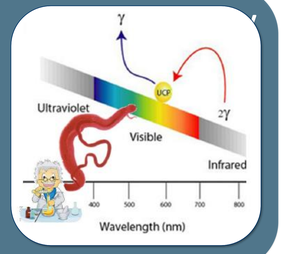
DNA
Antigens
Antibodies

Circulating anodic antigen (CAA):
a key biomarker polysaccharide

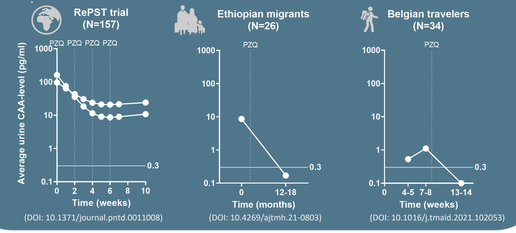


The UCP-LF CAA test:
ultra-sensitive
& highly specific

UCP-LF:
UpConverting Particle Lateral Flow

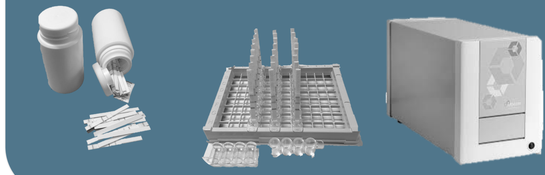


CAA-levels decrease after PZQ treatment



(DOI: 10.1371/journal.pntd.0011008) (DOI: 10.4269/ajtmh.21-0803) (DOI: 10.1016/j.tmaid.2021.102053)

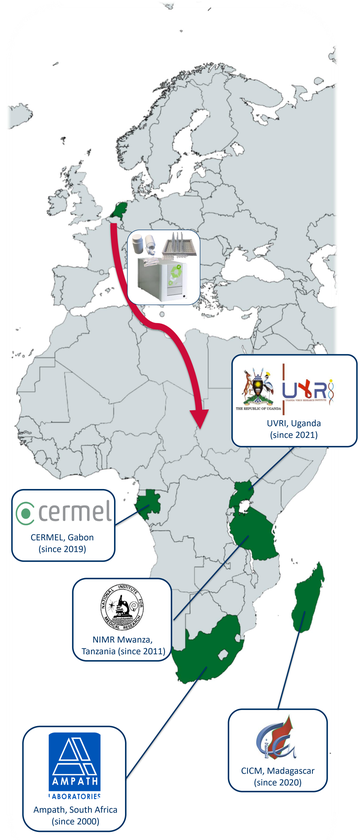
Dry format for easy storage & worldwide shipment



The UCP-LF CAA test in action

The UCP-LF CAA test is highly suitable for:

- ✓ Detecting active infection (all *Schistosoma* spp)
- ✓ Intensity of infection
- ✓ Monitoring treatment
- ✓ Micro-mapping *(via sample pooling)*



MORE INFO: *Context-Specific Procedures for the Diagnosis of Human Schistosomiasis - A Mini Review*

Hoekstra et al., Frontiers in Tropical Diseases. 2021.