



Malaria conundrum

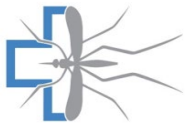
CME SSTTM January 2025

PD Dr. med. Cornelia Staehelin

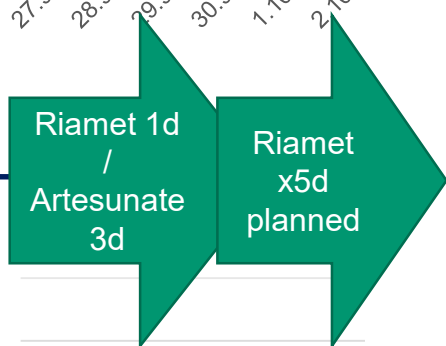
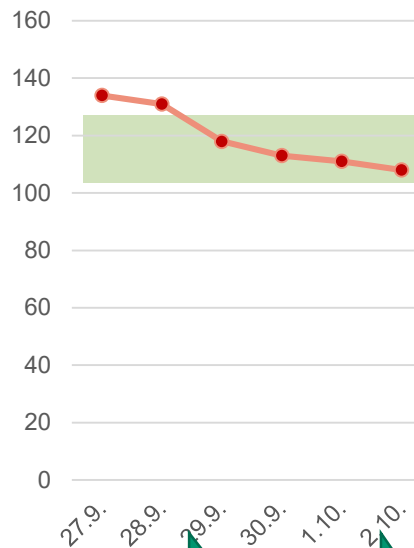


Case presentation

- 55 yo lady
- Uganda 24.8. – 14.9.2024
- No malaria prophylaxis
- presents on 27.9. with 3 day h/o fatigue, headache, nausea, feeling «awful»
- o/e: GCS 15, T 38.9°C, no meningism, no path. findings on clinical exam



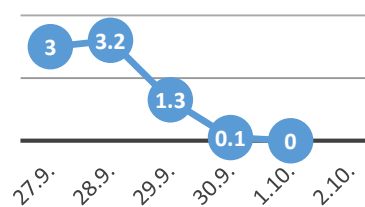
Hb (g/l)



02.10.

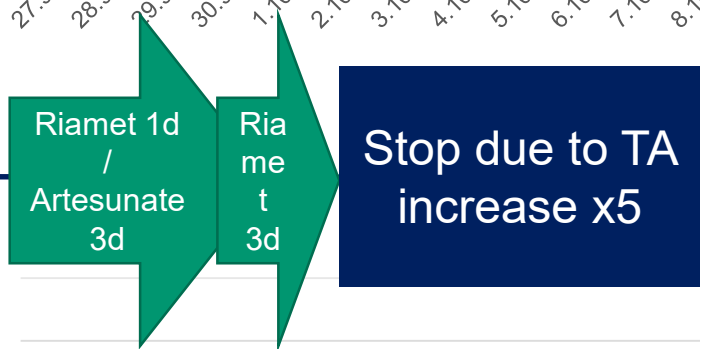
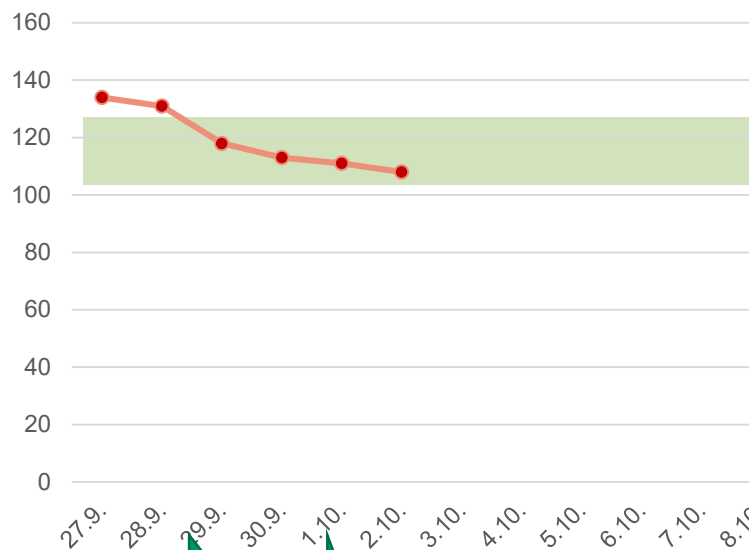
«uncomplicated» *P. falciparum* malaria

parasitemia (%)

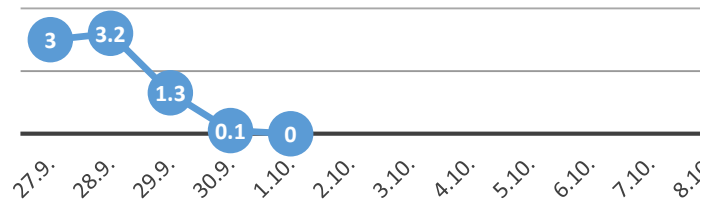




Hb (g/l)

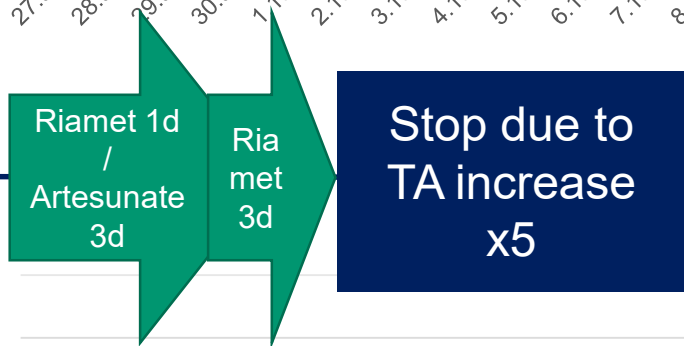
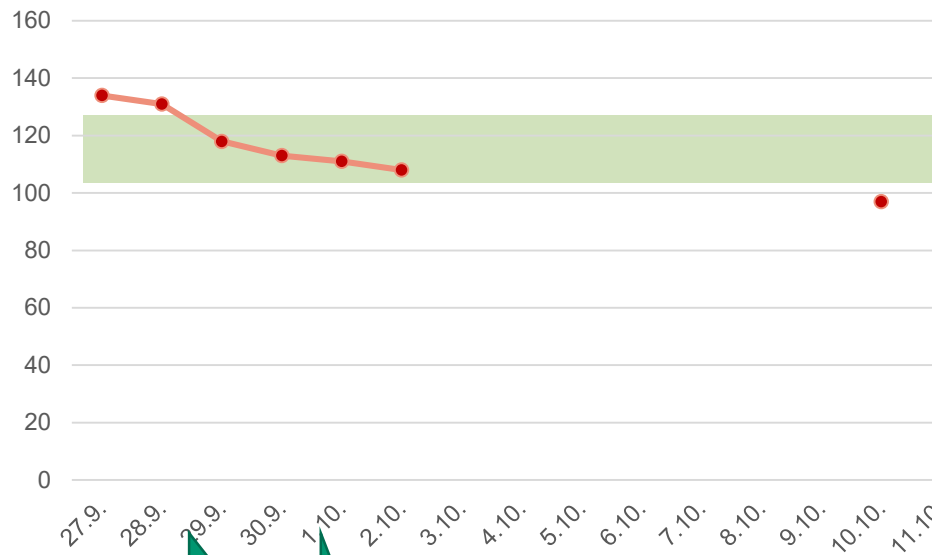


parasitemia (%)

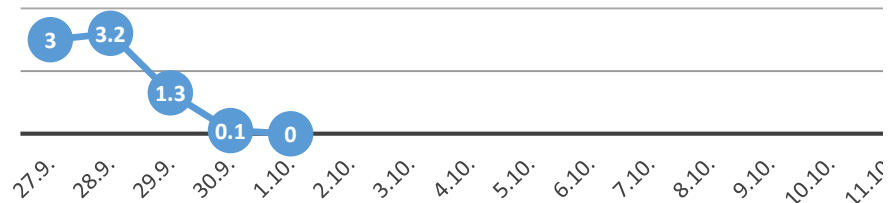


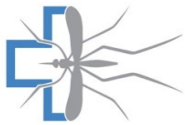


Hb (g/l)

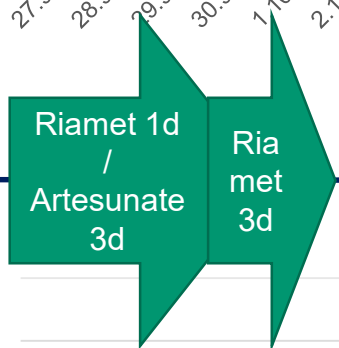
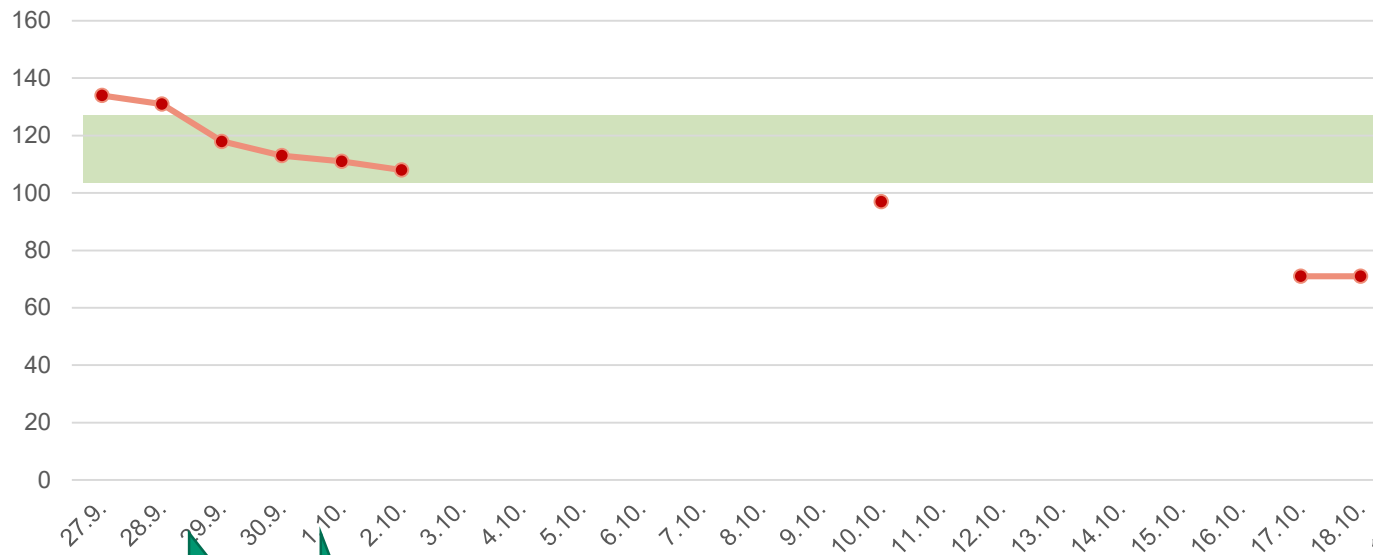


parasitemia (%)

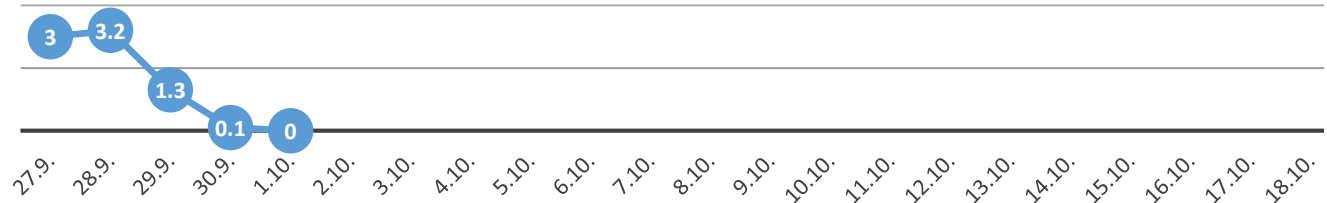




Hb (g/l)



parasitemia (%)



17.10.

«still feels tired, fatigued, lack of appetite». No fever.

o/e: T 37.2°C

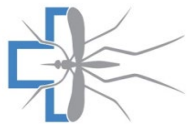
Hb 71 g/l

Diagnoses

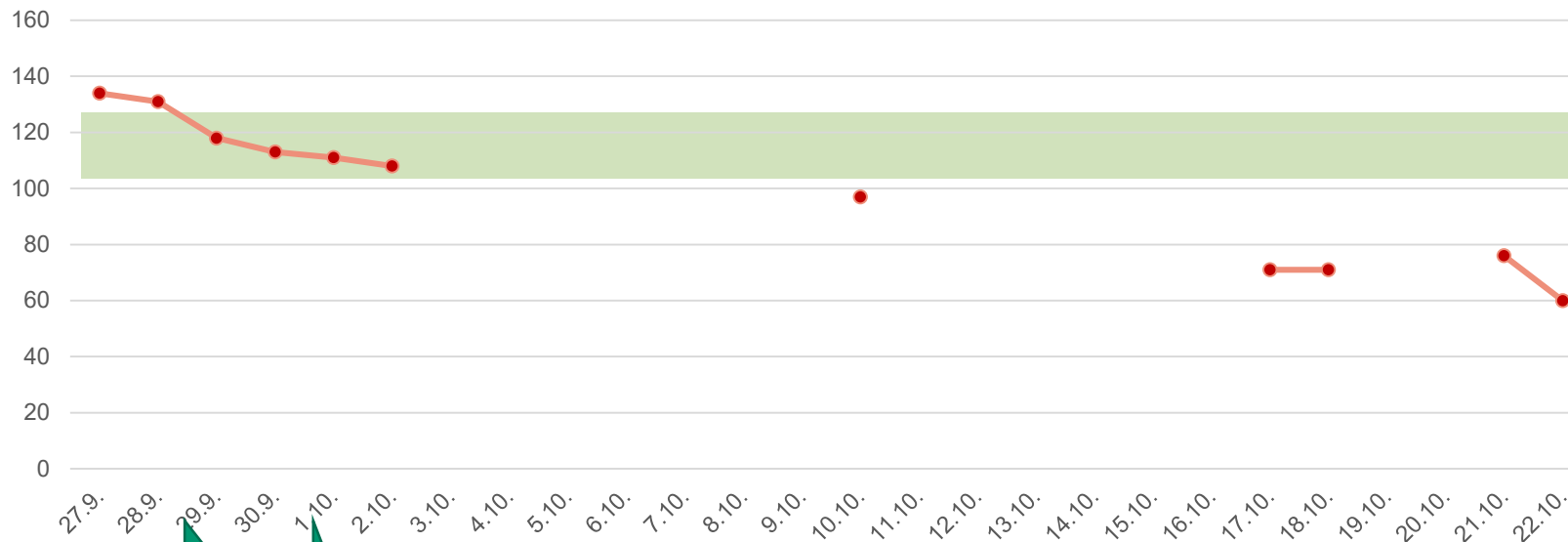
Post-artesunate delayed hemolysis

After uncomplicated *P. falciparum* malaria

Hepatotox. due to ALu



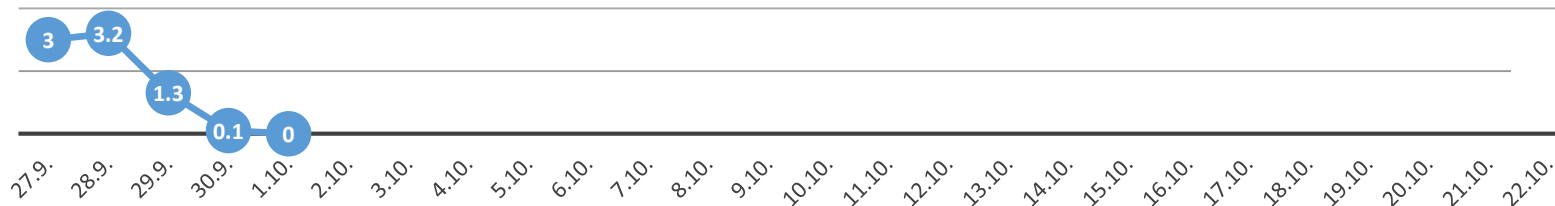
Hb (g/l)



Riamet 1d
/ Artesunate
3d

Ria
met
3d

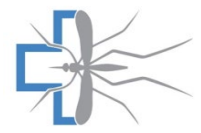
parasitemia (%)



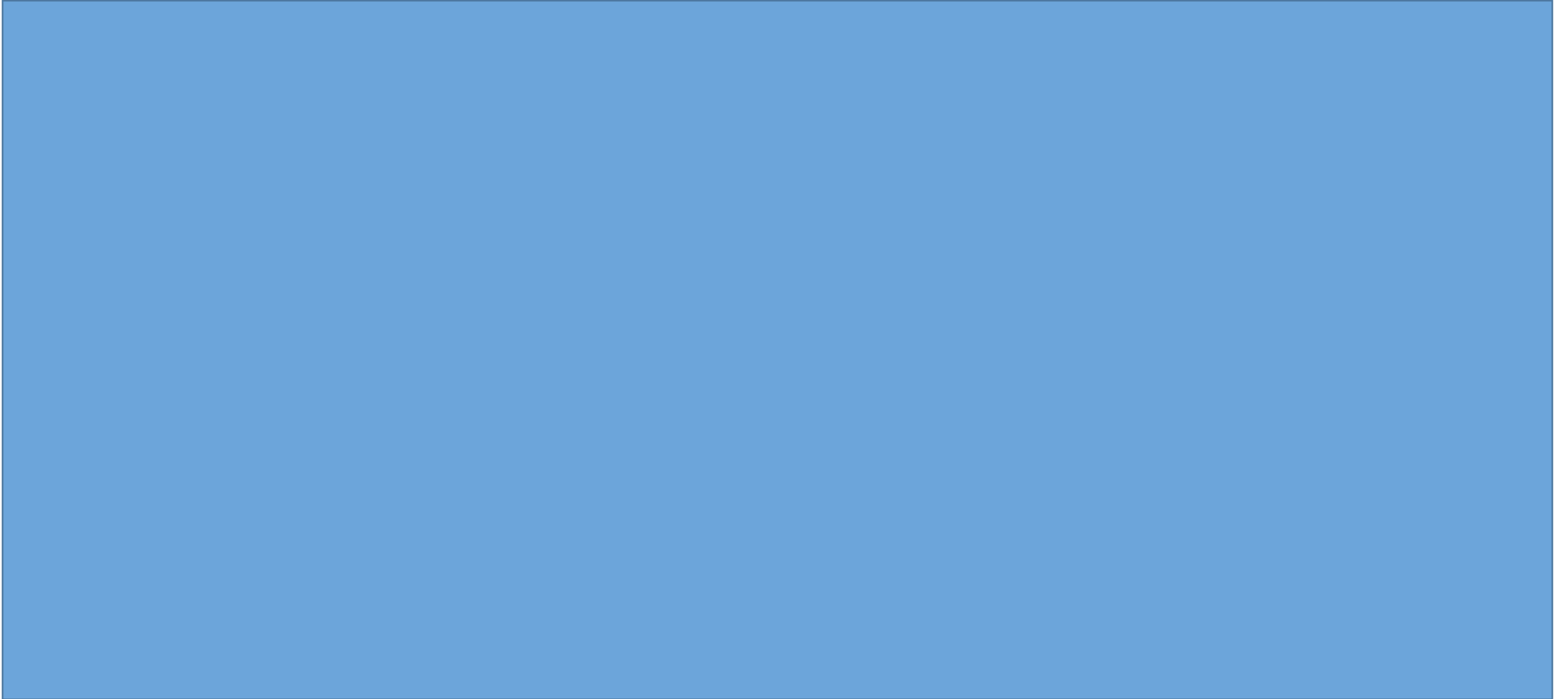
21.10.

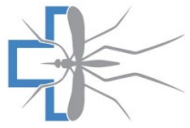
Readmitted
fever since 3d
dizziness
dry cough

Labs
Hb 60g/l
haptoglobin non-detectable
Tc 149 G/l
CRP 114 mg/l
ASAT/ALAT 61/20 U/L
Bili total 26 umol/L (ref <21)



Differentials??





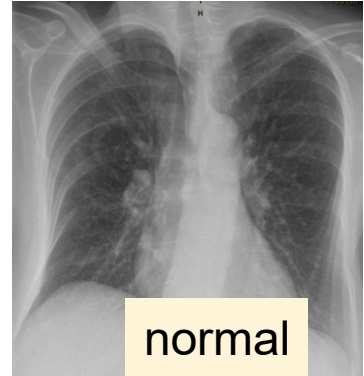
Differentials??

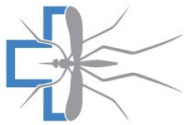
- Influenza / Covid-19 / viral respiratory infection
- viral hemorrhagic fever
- bleeding from ? Needs assessment
- post-artesunate delayed hemolysis (PADH)
- Recrudescence *P. falciparum*
- *P. vivax* / *P. ovale*
- Typhoid fever
- HIV / HBV ?

Too late: 5 weeks since return

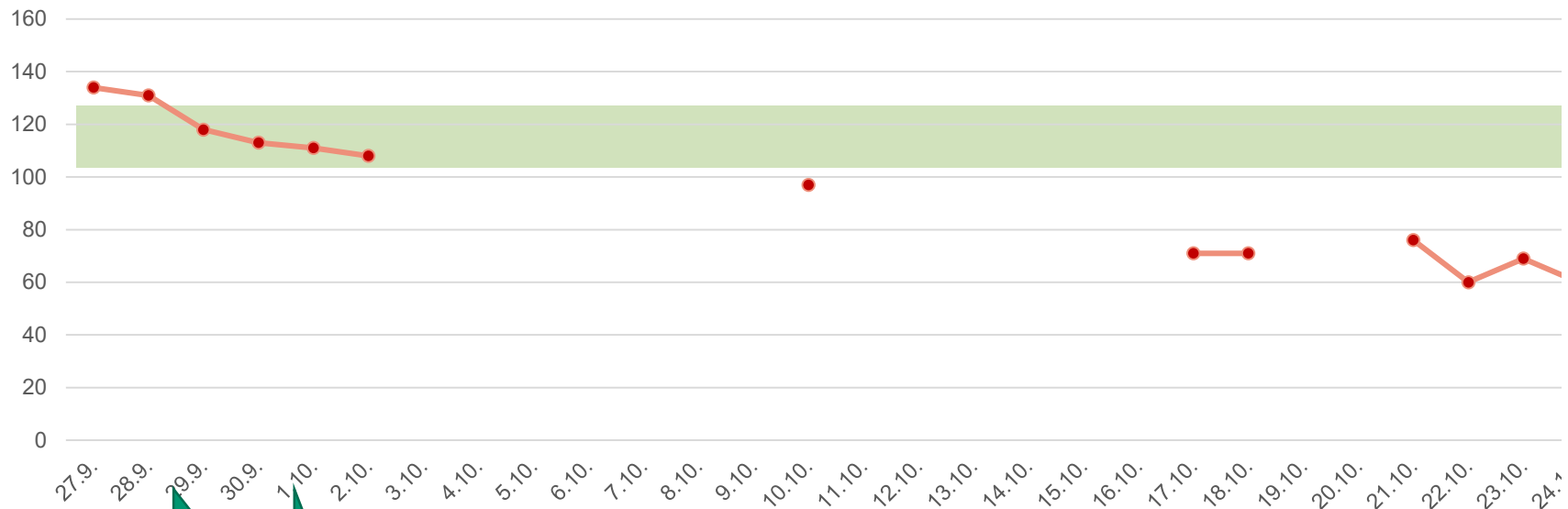
diagnosis by exclusion

examined for





Hb (g/l)



Riamet 1d
/ Artesunate
3d

Ria
met 3d

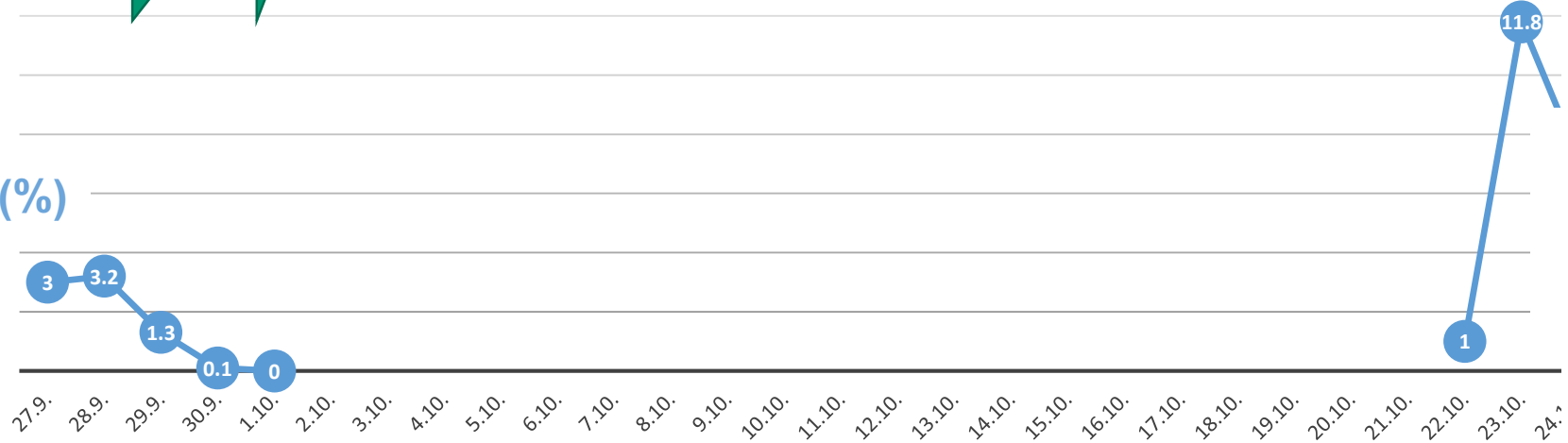
***P. falciparum* confirmed**
by RDT, microscopy and
PCR

no mixed infection

blood-borne viruses neg.

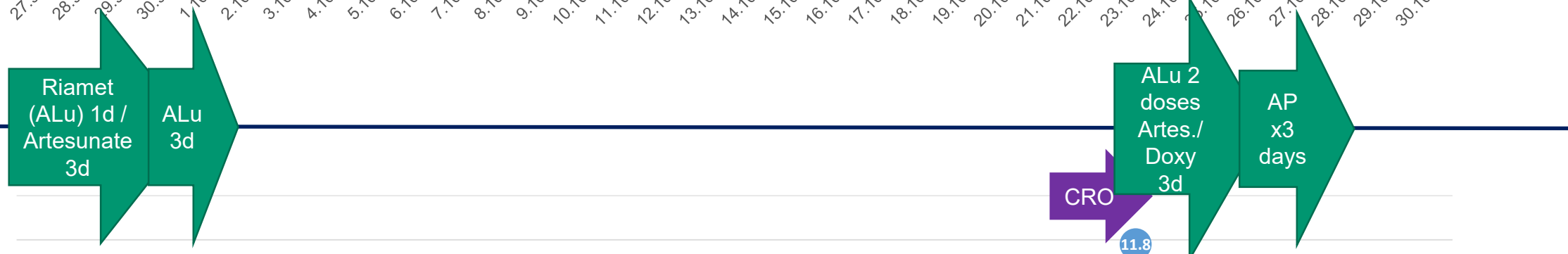
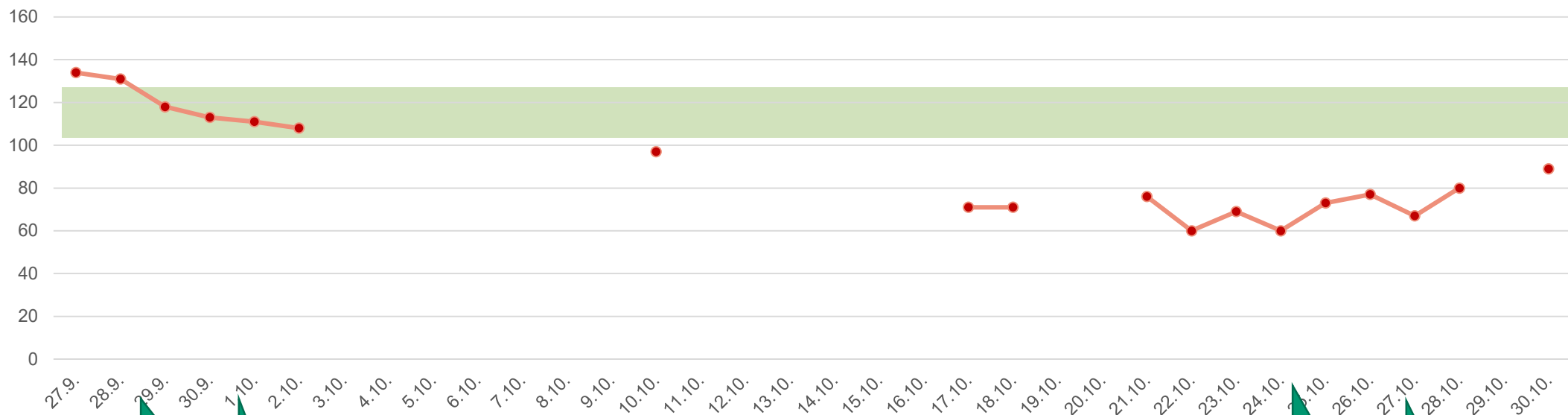
blood cultures neg.

parasitemia (%)

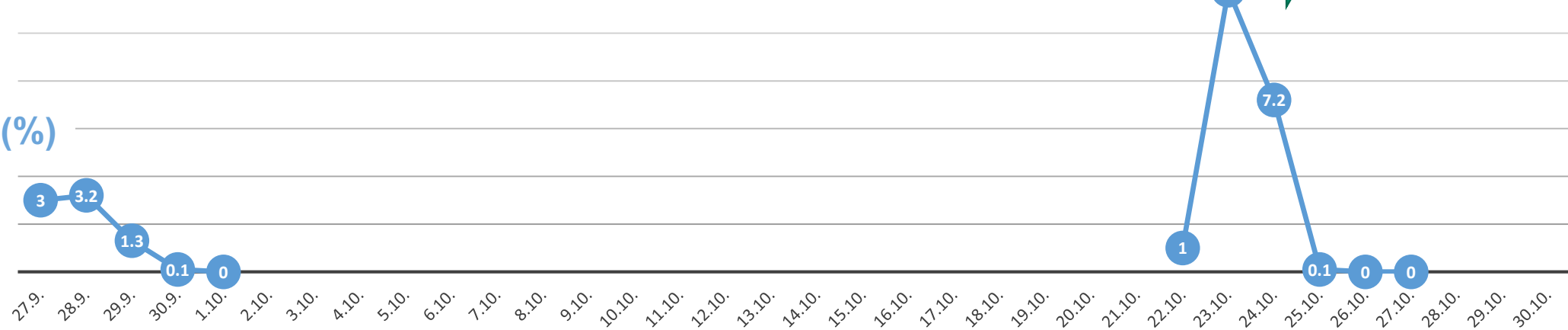


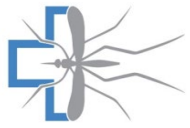


Hb (g/l)



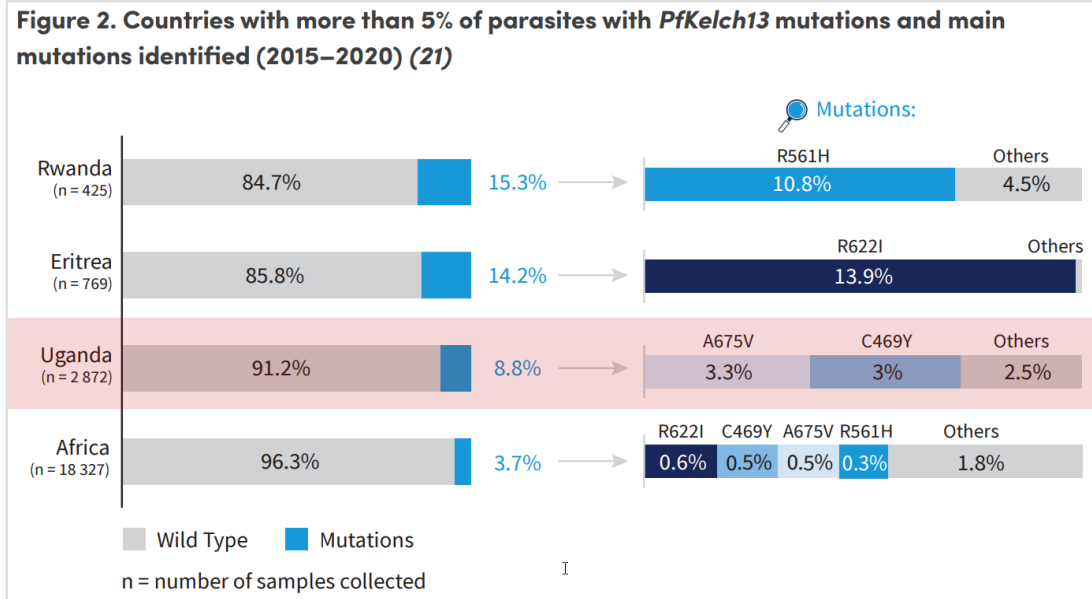
parasitemia (%)





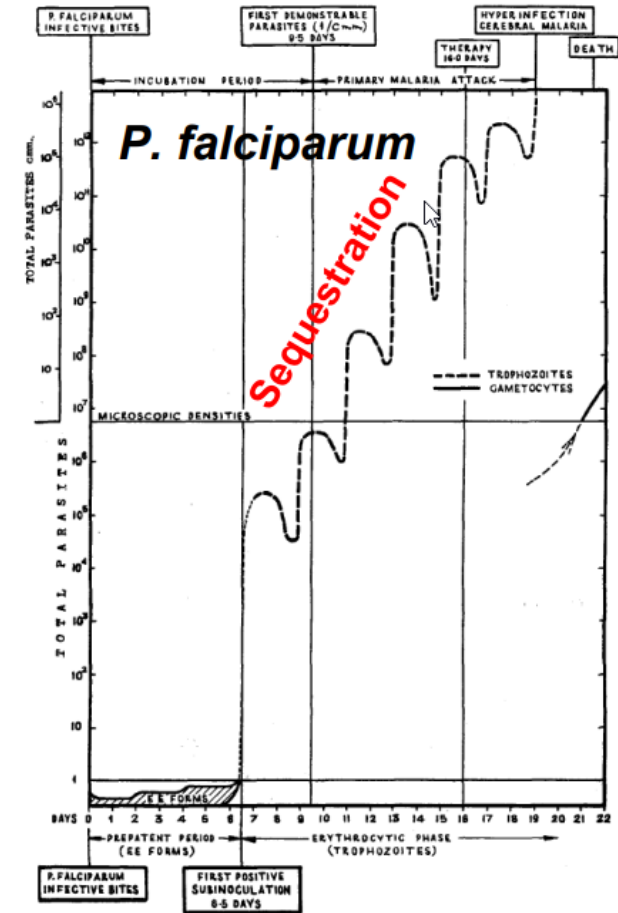
To sum up

- Recrudescence ... actually exists
- Weekly checks after treatment relevant
- DD of PADH is recrudescence...
- Kelch13 mutation?

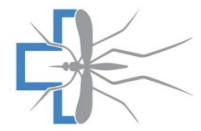


Agaba, B.B. et al. Emerging threat of artemisinin partial resistance markers (*pfk13* mutations) in *Plasmodium falciparum* parasite populations in multiple geographical locations in high transmission regions of Uganda. *Malar J* **23**, 330 (2024). <https://doi.org/10.1186/s12936-024-05158-9>

Sequestration explains fluctuation parasitemia



Fairley NH. Trans R Soc Trop Med Hyg. 1947;40:621-76.



Thank you for your attention!