

DPDx Case of the Week

Sarah Sapp

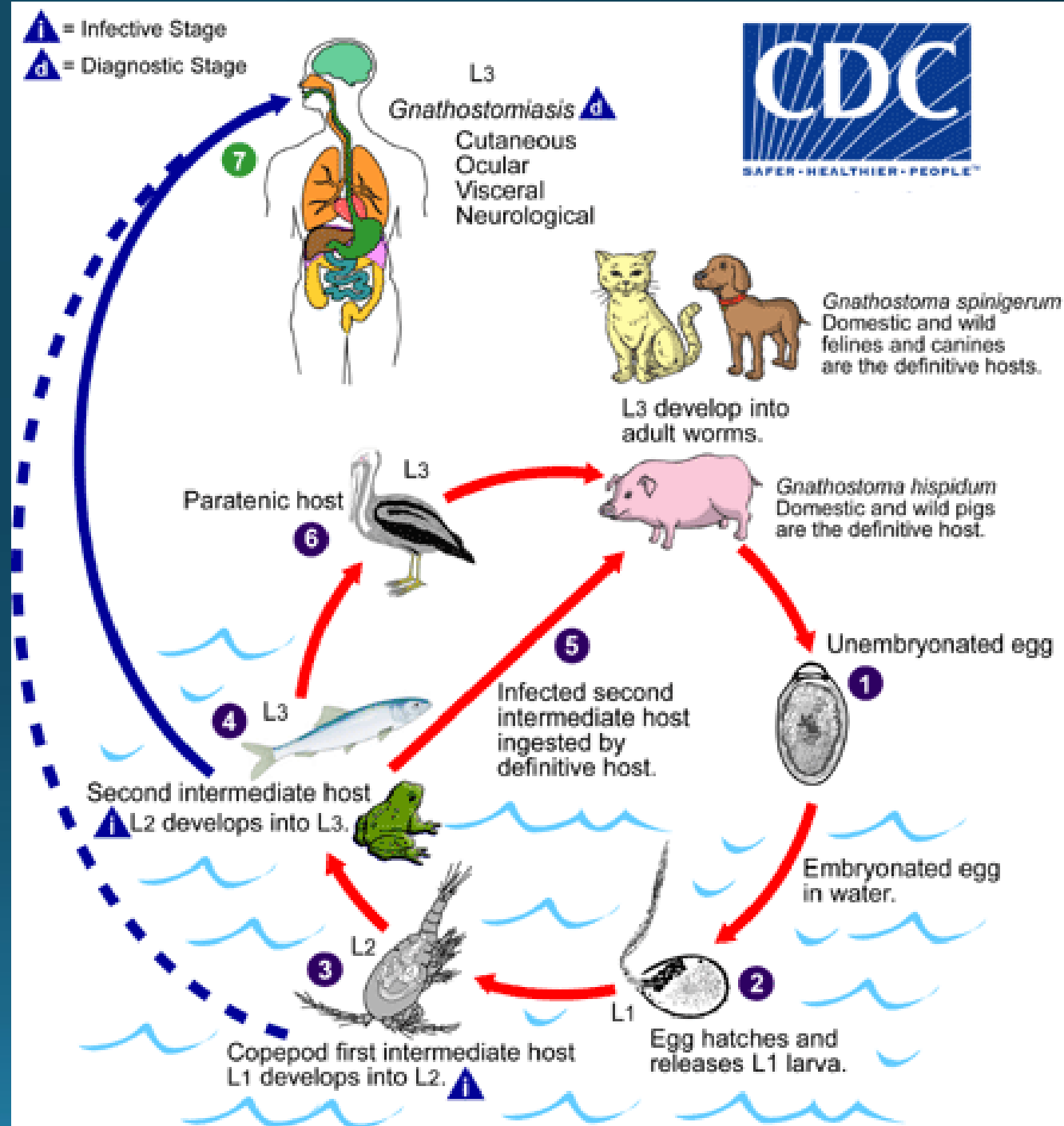
- 46 year old woman from Bangladesh with eosinophilia, *Schistosoma* antibody positive
- Treated with praziquantel on 6/13/18
- Painful rash developed following week, returned to clinic 6/22/18
- 2 cm worm found erupting from inflammatory track on sternum, extracted

TeleDx Submission



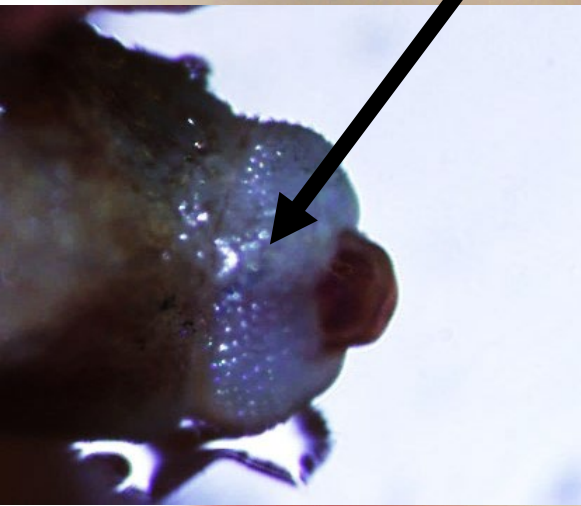
What is your diagnosis?

- Dx: **Cutaneous gnathostomiasis**
- Subadult male
 - Typically “advanced L3” (AL3) larvae found in human infections
 - Too large, too many cephalic spines for larval stage
- Transmission via ingestion of paratenic hosts or maybe intermediate host (copepod)
- “Larva migrans profundus”

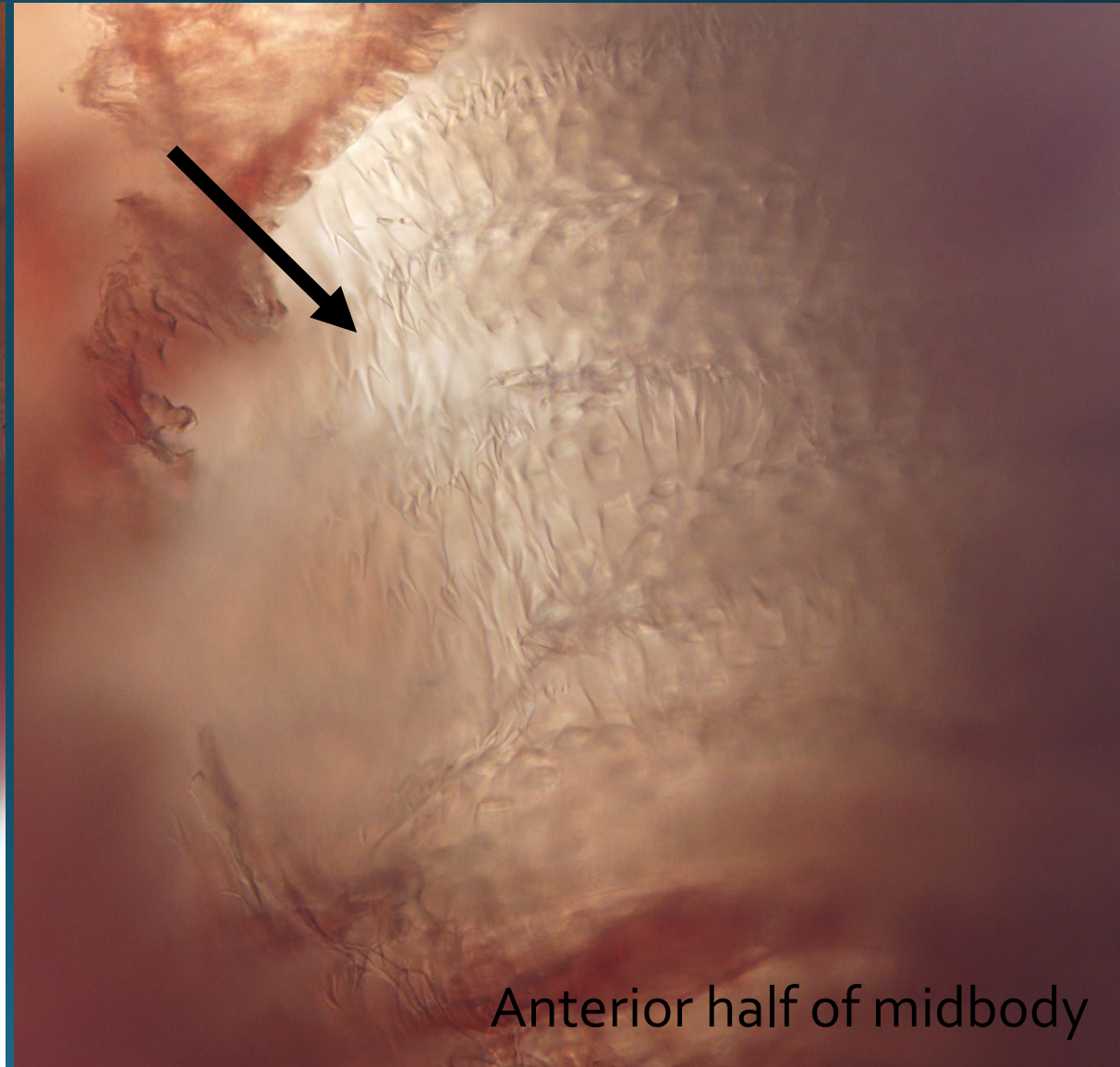




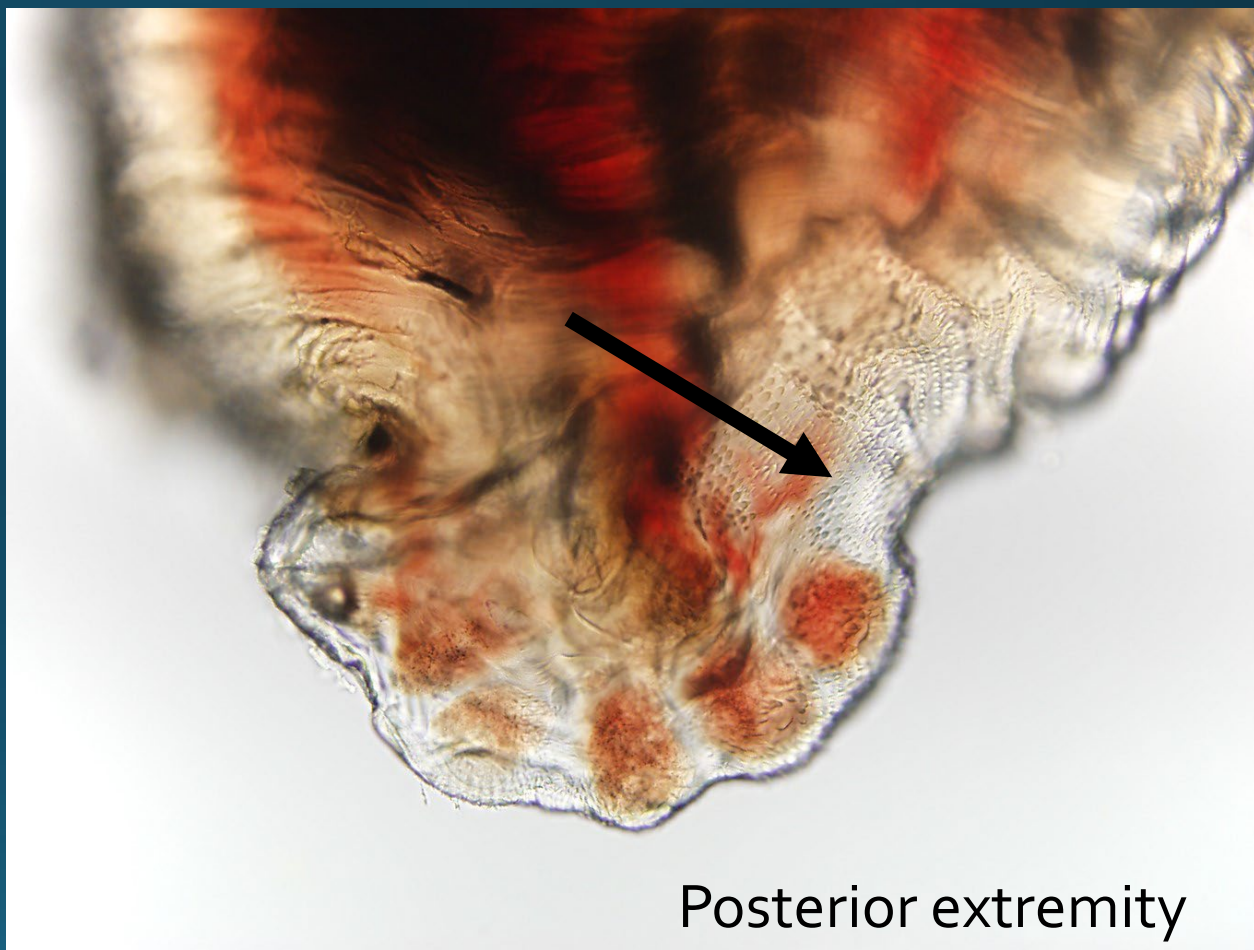
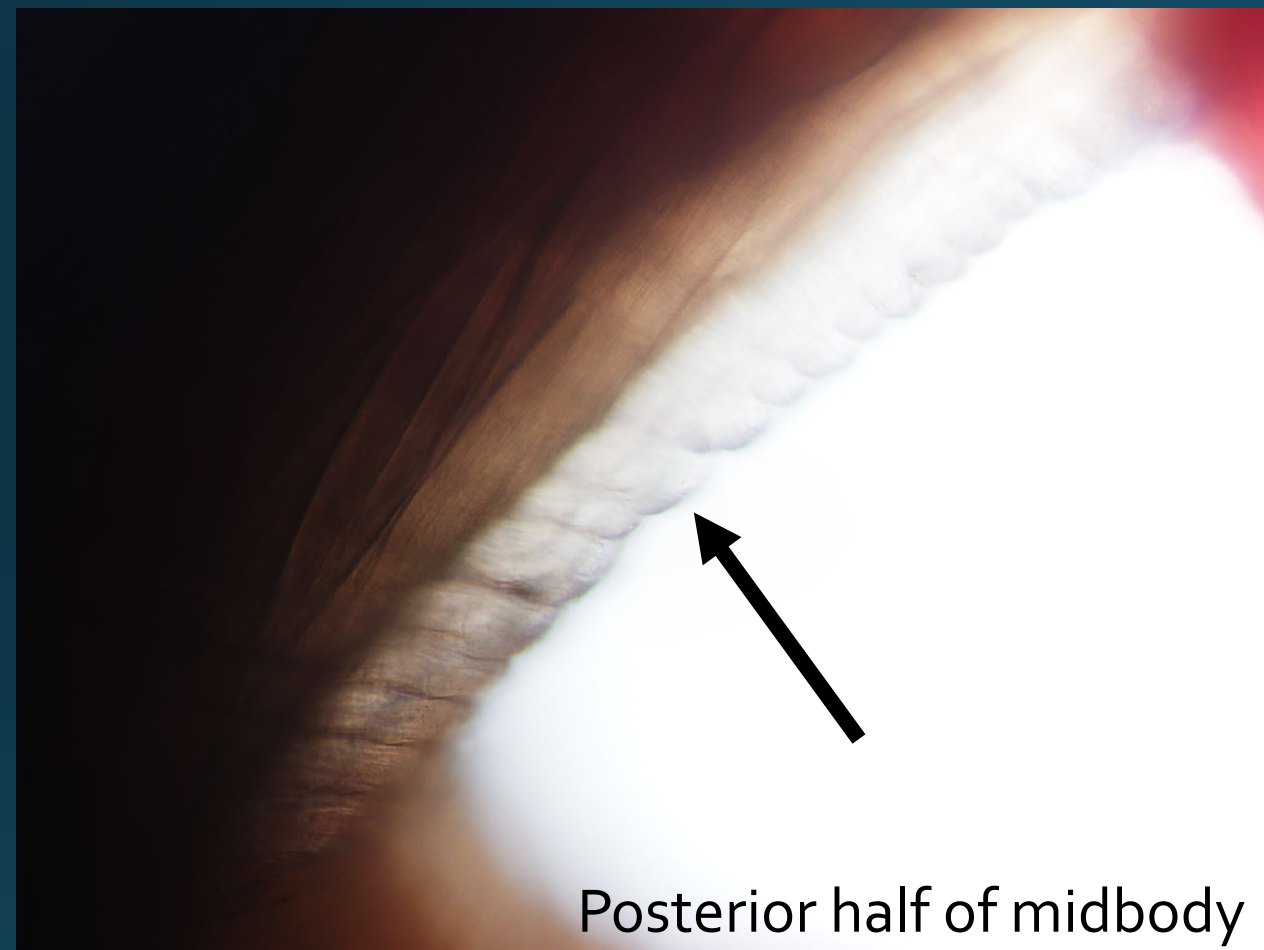
Not 2 cm.... 0.66 cm (x 675-950 μm wide)



Anterior extremity



Anterior half of midbody



- *Gnathostoma* species known to infect humans:
 - *Gnathostoma spinigerum* (Asia, tropical Australia, southern and eastern Africa)
 - *Gnathostoma hispidum* (Southeast Asia, India)
 - *Gnathostoma binucleatum* (Central and South America)
 - *Gnathostoma nipponicum* (Japan)
 - *Gnathostoma doloresi* (Japan, Southeast Asia)
 - Two cases of possible (unconfirmed) cases of *Gnathostoma malaysiae* acquired in Myanmar have been reported

- Causative agent: Likely *G. spinigerum*
- Specific diagnosis based primarily on character and occurrence of body spines
 - Overlap in # rows of cephalic spines, but non *G.s.* usually have >10
- Prominent caudal alae, Y-shaped clearance
- *G.s.* predominant sp. in Bangladesh
- PCR and histopath pending

