A tale of a good ‘history’

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Case history

- 9 yr old girl
- Recurrent urinary tract symptoms 1.5 yrs
- Documented UTI
- GP requests an Ultrasound
Ultrasound
Bladder views

Suspicious urinary bladder mass
Bladder views

? Rhabdomyosarcoma
Cystoscopy

EUA, PR, cystovaginoscopy and bladder biopsies
Schematic drawings
Histology

MICROSCOPY:

- eosinophils with mucosal ulceration
- fibrosis with lymphocytes
- Histiocytes
- foreign body granulomas
- dystrophic calcification

Active schistosomiasis
Check Cystoscopy
Discussion

Epidemiology

Lancet 2006
Types of Schistosomes

- S. mansoni
- S. Japonicum
- S. guineensis
- S. mekongi
- S. intercalatum

Discussion

S. hematobium → Bladder and genitals

S. mansoni, S. Japonicum, S. guineensis, S. mekongi, S. intercalatum → Bowel and liver
Discussion

Life cycle of Schistoma

Paired adult worms

Cercariae

Humans

Cysts

Miracidia

Fresh water Snails
Discussion

Clinical Features

- Acute symptoms
  - Swimmer’s itch
  - Katayama fever

- Chronic symptoms
Diagnosis and Management

- Direct Parasitological Methods:
  - Stool – Kato Katz method
  - Urine - mid-day sample
  - Biopsy

- Blood tests – eosinophilia, leucocytosis, anemia

- Praziquantel – drug of choice
Discussion

Diagnosis and Management

Urology

Infectious diseases

Urinary Schistosomiasis

Radiology

Pathology

Nephrology

Oncology
“In the UK, there were 116 cases of Schistosoma haematobium reported between 2003 and 2005, according to the England and Wales national laboratory database. Over two thirds of patients in this report were from London and the adjacent area.”
Rare conditions are rare.

- Regional variations in endemicity
- Rising Global Community (changing population demographics)
...a tale of a good ‘history’

- Clinical history – no substitute
- LUTS + Visit to endemic areas

THINK!

BILHARZIA!
References

5. http://www.k-state.edu/parasitology/625tutorials/FIGhaemeegq01.jpg