Revealing trauma

M. Mino, N. Troillet, V. Bettschart, N. Letovanec, F. Bally

M. AF 31 years

28.11.2006:
- Motorbike accident (45km/h).
- GCS 15/15. BP 132/56 mmHg, CF 70/min.
- Abdominal pain in the right upper and lower quadrants.
- Lesser wounds (left eyebrow, upper lip). Broken teeth
A ruptured echinococcal cyst was suspected

What would you do?

(more than one possible answer)

1. Serology for Echinococcus, more if positive
2. Hemodynamic surveillance
3. Emergency laparotomy with lavage
4. Laparatomy with cyst resection
5. Albendazole
Treatment

- Hemodynamic surveillance on ICU
- Pre-operative Albendazole (Zentel®).
- Surgery, November 30th
- Post-operative Albendazole (Zentel®) for one month.
Outcome

- No complications, discharged on day 12
- Albendazole for one month.
- 8 months later:
  - No relapse (Abdominal CT)
Ruptured echinococcal cyst
Complications

- Diffuse peritonitis (possibly lethal)
- Anaphylaxis
- Later: intra-abdominal disseminated cysts


Figure 1: Geographical distribution of cystic, alveolar, and polycystic echinococcosis (hydatid disease)
Blue—countries endemic for cystic hydatid disease. Purple line—endemic areas for alveolar echinococcosis. Red line—areas where polycystic echinococcosis has been reported.
(Craig PS. Lancet Infect Dis 2007; 7: 385-94)
Human *alveolar* echinococcosis, Europe 1982-2000

Upto 10 foxes/km² in Zürich city!

> 40% of the foxes in Geneva or Zürich are carriers of *E.multilocularis*

(Upto 10 foxes/km² in Zürich city!

> 40% of the foxes in Geneva or Zürich are carriers of *E.multilocularis*

(New P. Emerg Infect Dis 2003; 9: 343-9)

Urban foxes and echinococcus

Upto 10 foxes/km² in Zürich city!

> 40% of the foxes in Geneva or Zürich are carriers of *E.multilocularis*

Situation in Switzerland

*Echinococcus multilocularis*

0.26/100 000 inhabitants.

Deplazes P et al. Magazine de l’OVF 2007; (3): 2-4

By the way:
the Valais blueberrries are ripe ...