Expertise in Medicine – Analysing and Fostering Professional Vision

Comments and suggestions

by

Els Boshuizen
What makes analysis and interpretation of medical images so difficult?

• Detection
• Interpretation ‘something’ or ‘it’
• Localisation
• Diagnosis or categorisation
  – 3 D
  – Staining
  • Mapping and translation
Mapping and translation …

• Building of practices
  – Master – student
  – In communities
Helle et al.

- Beginners
- Supported by a decision tree
- Diagnosis / categorisation
- Some sort of master student interaction
Nivala et al.

- Beginners
- Supported by annotation
- Interpretation & diagnosis
- More ‘direct’ master – student interaction around ‘it’
Gruber et al.

- Lay persons, beginners, intermediates and experts
- Different problem levels
- Eye movements and gaze paths

- Detection, interpretation .....?
- Experts look better and see more

- Hit-rates but no diagnoses
Rystedt et al.

- Development of ‘it’
- Two levels of expertise
- Authentic situation of case discussion
  - Negotiation of perceptions
Gruber’s cliffhanger

• A clear example of Rystedt’s ‘IT’