

Co-workers

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 - NHSScotland
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- Dr Jim McKillop
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Background – NHSScotland

- Tax funded
- Free at the point of use
- Population ~5.2 million, budget £6,861.8 million
- Issues of staff recruitment, esp. in cancer
- Devolved power from UK government
- HTBS set up in 2000 to advise on costeffectiveness

Background - PET in Scotland

- Long-standing and successful medical physics department in Aberdeen
 - John Mallard prime mover in MRI
- PET scanner purchased in 1998
 - Fundamental and applied research
 - Radio-chemistry laboratory
- Increasing demand for clinical services
- Requirement from SEHD to evaluate PET

The Scottish HTA

- Topic Specific Group
 - Expert advisors
 - Composition was important!
- Expectation of 'rubber-stamping'
- Unwillingness to look beyond diagnostic accuracy
- Perception that PET scanning is expensive
- Introduction of PET scanning in England and Ireland

The HTA conclusions

- 'High-level' outcomes (in particular, increases in patient QALYs)
- Focussed on NSCLC (big issue in Scotland) and HD
- Positive conclusion PET should be adopted, conditional on further evaluation)
- Ambivalent reception one radiologist described the report as 'grudging acceptance of the facts'
- Heavily dependent on modelling in lieu of 'hard' outcomes

A note

- Similar decision independently made in Northern Ireland (buy a scanner but proceed with evaluation leading to a permanent funding decision in 2005)
- Imagine the joy of our experts!

Implementation

- Separate SEHD working group
- Apparently influenced by the HTA
- BUT 'going with the flow'
 - would a negative conclusion have changed the actions?

Implementation

- Calculation that 3 4 scanners needed (see the map)
- Private source for FDG (but other ligands?)
- PET or PET-CT a matter for local Cancer Networks
- Recognised the need for further research

Concerns about HTA

- Diagnosis may precede therapy, so PET may be more (cost-) effective tomorrow
 - Only routine use
- Evidence
 - Beyond NSCLC reliant on dubious 'gold standards' and (very) long-term outcomes
- Timeliness
 - The PET-CT story
 - Newer applications

Concerns – Implementation process

- Enthusiasm to extend on fragile evidence
- PET-CT!
- Continued reluctance by some experts to go beyond diagnostic efficacy
- Revisiting NSCLC sensible?
- Small, non-randomised study disease

Questions - I

- How do we include 'future values'?
- Can we assess diagnosis in a way divorced from therapy?
- Is it possible, or even sensible, to require evidence of benefit in conventional RCTs?
- Are we therefore left with models as the 'Answer'?

Questions - II

- What do the studies look like that would confirm model-based assessments?
 - Factorial designs
 - Audit
 - Patient and clinician satisfaction
 - Confirm components and make the model public?