

Emerging technologies in breast cancer screening

Literature review findings

19 April 2018

What we did...

- Agreed the terms of reference with the Commonwealth Department of Health's Breast Screening Technical Reference Group
- Undertook searches
- Reviewed and assessed material to describe:
 - The technology and/or innovation
 - R+D stage or use in clinical setting
 - Reported findings on effectiveness, cost and/or safety
 - If the technology or innovation has been implemented into another national screening program or is subject to national guidelines/position statements



Computer-aided detection (CADe)

- CADe as a reading strategy
- Increases the sensitivity in a single reader environment but can lead to increase in false positive recall rates (lowers sensitivity)
- Differential performance by tumour characteristic
- The future:
 - Application of deep learning
 - More work is needed before we can tell if CADe will support reduction in breast cancer mortality

Artificial intelligence

- AI is a reading strategy closely linked to CAD
- Is in its infancy with respect to the early detection of cancer in asymptomatic women
- The future:
 - Is still very new
 - More work is needed before we can tell if CAD will support reduction in breast cancer mortality

If you would like a copy of the
report, please email:

bstrg@allenandclarke.com



ALLEN+CLARKE

Thank you!