Breast cancer risk assessment tools

Three commonly used breast cancer risk assessment tools in Australia are iPrevent,[1] CanRisk[2] (BOADICEA), and IBIS[3] (Tyrer-Cuzick).

Risk assessment tool (risk model used)	iPrevent (BOADICEA v3 and IBIS v7)[4]	CanRisk (BOADICEA v7)	IBIS (Tyrer-Cuzick v8)
Individual can do an initial assessment*	✔	✗[≠]	✔
RACGP "accepted clinical resource"	✔	✗	✗
Incorporates breast density	✔[^]	✔[£]	✔[£]
Supports high risk breast MRI rebate[#]	✗	✗	✔
Incorporates *BRCA1* and *BRCA2*	✗	✔	✔
Incorporates abnormal biopsy results	✗	✗	✔
10-year and lifetime risk (LTR) estimates	✔	✔	✔
Surveillance and risk-reducing recommendations	✔	✗	✔

* Based on known risk factors

≠ Health professional registration required

£ Average VBD%, available on the Volpara Scorecard, is validated for use in Tyrer-Cuzick v8 and BOADICEA (CanRisk)

The "clinically relevant evaluation algorithm" for risk estimation to support rebate eligibility for high-risk breast MRI (MBS item 63464) is Tyrer-Cuzick v8 (or later)[5]

^ iPrevent supports the 4 BI-RADS categories of breast density assessment only

References

1. Peter MacCallum Cancer Foundation. iPrevent™. Available at https://www.petermac.org/iprevent. [Accessed 28/03/2023]

2. University of Cambridge. CanRisk Version: v2.3.4. Available at https://www.canrisk.org/. [Accessed 28/03/2023]

3. IBIS Breast Cancer Risk Evaluation Tool. Available at https://ems-trials.org/riskevaluator/. [Accessed 28/03/2023]

4. Phillips KA, Liao Y, Milne RL, et al. Accuracy of Risk Estimates from the iPrevent Breast Cancer Risk Assessment and Management Tool. JNCI Cancer Spectr. 2019;3:pkz066. Published 2019 Sep 19. doi:10.1093/jncics/pkz066.

5. Australian Government Department of Health and Aged Care. Medicare Benefits Schedule (MBS) Online. Medicare Benefits Schedule – Item 63464. Available at http://www9.health.gov.au/mbs/fullDisplay.cfm?type=item&q=63464&qt=item. Accessed [28/03/2023]

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