MISSION MANCHESTER
Reducing the Burden of Breast Cancer: Reaching the unreached

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Breast Cancer in Young Women is a Major Problem

• >10,000 UK women <50yrs diagnosed and >2,000 die per year with BC

• 10 year survival in those <40yrs = 70%

➤ Breast Cancer: commonest cause of death in young women

• Women with a family history (FH) of BC are known to be at increased risk

• annual screening age 35-49 results in lower stage BC

➤ 80% of those who develop BC <50 do not have a FH

Comprehensive risk prediction in the NHSBSP is effective

PROCAS - 57,902 recruited (2011-2013)

Risk Estimation

94% wished to know risk

SNPs
Combined risk analysis significantly increases the proportions in High and Low risk groups.
Proposed implementation in young women

Manchester wide Breast Cancer risk assessment 30-39

Online risk assessment
Funding: philanthropy

Low Dose Mammography
Funding: MRC

Care pathways
Funding: MCRC Town Hall

Online risk assessment → Saliva sample → SNPs - Polygenic Risk Score

Low/'normal' Risk: Reassure – Breast Aware

Moderate/High risk: Enhanced screening Prevention
Proposed implementation in young women

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Care pathways

SNPs - Polygenic Risk Score

Moderate/High risk: Enhanced screening Prevention