

Actions to be taken by mainstream clinician

Does the patient meet the mainstream testing criteria?

YES

NO

- Offer genetic testing with the 'Inherited Breast Cancer Panel'
- Provide patient with leaflet **BC01***

Does patient have any of the following clinical indications?

- Breast cancer with pathology adjusted Manchester score ≥ 15
- Breast cancer and CanRisk score $\geq 10\%$
- Significant family history of cancer

- Blood sample collection
- Return to lab accompanied by:
 - 1) Genetics test request form
 - 2) R208 panel testing criteria form

YES

NO

Does the patient have an additional family history of ovarian and/or colorectal cancer?

Refer to clinical genetics for further discussion

- No genetic testing required at present
- Advise patient to contact GP or local family history clinic if there are any notable changes to their cancer family history

YES

NO

Contact on-call genetic counsellor to discuss use of a wider panel with additional relevant genes

Genetic analysis carried out (via laboratory at Belfast City Hospital)

No pathogenic gene change identified

Pathogenic or likely pathogenic gene change identified

Variant of uncertain significance identified

- Result returned by referring clinician
- Provide patient with **BC02***
- No further input required from genetics

Provide patient with **BC03***

Provide patient with **BC04***

- Result returned to patient by referring clinician
- Refer patient to clinical genetics via ECR, paper referral, or email to: genetic.medicine@belfasttrust.hscni.net
- Patient offered appointment with **genetics team**
- If referral made, patient will be asked to provide family history information prior to appointment

Return of results