

GCaPPS: Genetic Cancer Prediction through Population Screening

Submission date 15/07/2008	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 21/07/2008	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 26/10/2022	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

<https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-study-testing-ashkenazi-jewish-people-for-cancer-gcapps>

Contact information

Type(s)

Scientific

Contact name

Prof Ian Jacobs

Contact details

Gynaecological Cancer Research Centre
EGA Institute for Womens Health
University College London
First Floor
Maple House
149 Tottenham Court Road
London
United Kingdom
W1T 7DN

Additional identifiers

Protocol serial number

08/0141

Study information

Scientific Title

Genetic Cancer Prediction through Population Screening

Acronym

GCaPPS

Study objectives

1. Systematic population testing detects more mutations than testing on the basis of family history alone
2. There is no increase in psychological morbidity with systematic population testing compared to genetic testing based on family history

Ethics approval required

Old ethics approval format

Ethics approval(s)

Great Ormond Street Hospital and Institute for Child Health Research Ethics Committee, 09/06/2008, ref: 08/H0713/44

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Screening

Health condition(s) or problem(s) studied

Genetic testing for BRCA founder mutations

Interventions

10,000 volunteers will be recruited in total; this number includes a pilot phase of 1,000 volunteers in the first year.

This is a randomised controlled trial comparing a systematic population based approach to genetic testing for germ-line cancer predisposition to the current approach based on family history. Interventions include the following:

1. Genetic counselling: All volunteers will receive pre-test education and counselling prior to decision making regarding testing.
2. Genetic testing: Genetic analysis for the 3 Jewish FM: 185 delAG, 5382 insC (in BRCA1) and 6174 delT (in BRCA2) will be performed on peripheral blood samples obtained in those individuals who consent to testing following counselling. All individuals in the systematic screening group and those individuals who have a positive family history of cancer in the family history group will undergo testing.
3. Questionnaires used include:
 - 3.1. Baseline questionnaire (collected before counselling)
 - 3.2. Post-counselling assessment questionnaire (after counselling, at decision making)
 - 3.3. Exit questionnaire (for those declining testing after counselling)
 - 3.4. Follow-up Questionnaire-1 (day 7 and 3 months after receiving test result)
 - 3.5. Follow-up Questionnaire-2 (1 year after receiving test result)
 - 3.6. Follow-up Questionnaire-3 (2 and 3 years after receiving test result)

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

1. Number of founder mutations (FM) detected, assessed by the genetic test result
2. Acceptability
 - 2.1. Perception, attitudes towards BRCA1/2 testing: benefits, risks, limitations; cultural/religious influences; interest and intention, assessed by the baseline questionnaire and post-counselling assessment questionnaire
 - 2.2. Satisfaction with counselling: Genetic Counselling Satisfaction Scale (GCSS), assessed as part of post-counselling assessment questionnaire and exit questionnaire (for those declining testing after counselling)
 - 2.3. Uptake of testing
 - 2.4. Reasons for declining testing, assessed by the exit questionnaire (for those declining testing after counselling)
3. Psychological impact, assessed by the baseline questionnaire, Follow-up Questionnaires 1, 2 and 3. These included the following:
 - 3.1. Hospital Anxiety and Depression Scale (HADS): General well being, depression and anxiety
 - 3.2. Short Form 12 (SF12): Psychological Quality of life (QoL) tool
 - 3.3. Health Anxiety Inventory (HAI)
 - 3.4. Multidimensional Impact of Cancer Risk Assessment (MICRA). This measure is used in Follow-up Questionnaires 1, 2 and 3 to assess the impact of test result
4. Uptake of screening and preventive strategies. Behavioural outcomes assessed by the baseline questionnaire, Follow-up Questionnaires 2 and 3. They included the following assessments:
 - 4.1. Lifestyle behaviours (diet, exercise, alcohol, vitamins, etc.)
 - 4.2. Cancer screening behaviours
 - 4.3. Prophylactic surgery and chemoprevention
5. Health economics will be assessed by the baseline questionnaire, Follow-up Questionnaires 1, 2 and 3. This will involve within trial analysis of the counselling, screening and preventive strategies undertaken as well as modelling to estimate resource impact based on standard practise.
 - 5.1. Quality adjusted life years (QALYs)
 - 5.2. Cost-effectiveness, cost per case detected
6. The following will also be recorded:
 - 6.1. Socio-demographics, identity scale and women's health by the baseline questionnaire
 - 6.2. Knowledge assessment by the baseline questionnaire, post-counselling assessment questionnaire, and exit questionnaire (for those declining testing after counselling)
 - 6.3. Perceived risk, assessed by the baseline questionnaire, post-counselling assessment questionnaire, Follow-up Questionnaires 1, 2 and 3
 - 6.4. Fertility intention, assessed by the baseline questionnaire, Follow-up Questionnaire-2
 - 6.5. Impact of result on fertility intention, assessed by the Follow-up Questionnaires 1 and 2

See Interventions for timepoints at which the questionnaires will be carried out.

Key secondary outcome(s))

No secondary outcome measures

Completion date

01/09/2016

Eligibility

Key inclusion criteria

This is a healthy volunteer trial for Ashkenazi Jewish men and women. Inclusion criteria include:

1. Individuals over 18 years
2. Ashkenazi Jewish ethnicity (based on self-reported history of 4 Ashkenazi Jewish grandparents)

Participant type(s)

Healthy volunteer

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

1034

Key exclusion criteria

1. Known BRCA mutation in an individual
2. First degree relative (FDR) of an individual with known BRCA mutation
3. Individuals who have already undergone BRCA founder mutation (FM) testing

Date of first enrolment

01/09/2008

Date of final enrolment

01/09/2016

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

University College London
London
United Kingdom
W1T 7DN

Sponsor information

Organisation
University College London (UK)

ROR
<https://ror.org/02jx3x895>

Funder(s)

Funder type
Charity

Funder Name
Eve Appeal (UK)

Results and Publications

Individual participant data (IPD) sharing plan
Not provided at time of registration

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/07/2016		Yes	No
Results article		10/11/2021	11/11/2021	Yes	No
Results article	Long term secondary lifestyle behavioural outcomes	04/07/2022	06/07/2022	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Plain English results			26/10/2022	No	Yes

[Study website](#)

Study website

11/11
/2025

11/11
/2025

No

Yes