# Early removal of Fallopian tubes and delayed removal of ovaries in women at high risk of ovarian cancer

Submission date	Recruitment status	[X] Prospectively registered		
04/06/2018	Suspended	[X] Protocol		
Registration date	Overall study status	Statistical analysis plan		
14/06/2018	Ongoing  Condition category	Results		
Last Edited		Individual participant data		
14/10/2025	Cancer	[X] Record updated in last year		

#### Plain English summary of protocol

https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-study-to-prevent-ovarian-cancer-by-removing-the-fallopian-tubes-and-then-the-ovaries-protector (added 10/03/2021)

#### Background and study aims

Some women have an inheritable fault in their genetic code which increases their risk of developing ovarian cancer. Genes in which a fault may lie are BRCA1/BRCA2/RAD51C/RAD51D/ BRIP1. Some women with a strong family history of ovarian cancer or breast and ovarian cancer may also be at increased risk. There is currently no screening programme for ovarian cancer available on the NHS. Therefore current practice is to offer women at increased risk, once they have completed their family, an operation to remove their fallopian tubes and ovaries. This procedure is called risk-reducing salpingo-oophorectomy. This is the best known way to prevent ovarian cancer in women at increased risk. However, in women who are premenopausal it leads to early menopause. Early menopause has serious health implications. It results in menopausal type symptoms (e.g. hot flushes, changes in mood, reduced sex drive), increased risk of osteoporosis (brittle bones), heart disease, stroke, dementia and sexual problems. Research suggests many ovarian cancers start in the fallopian tube. This has led to the proposal of an alternative strategy to prevent ovarian cancer. This involves having the operation in two stages. The first operation involves removing the fallopian tubes alone. This is called 'early salpingectomy'. The second operation removes the ovaries after natural menopause (average age 51 in the UK). This is called 'delayed oophorectomy'. The advantage of this two-stage alternative is that it offers some protection against ovarian cancer in young women whilst avoiding negative health consequences of early menopause.

The PROTECTOR study aims to find out how many ovarian cancers happen after removing the tubes. This will help us assess how effective having just the tubes removed is for reducing the risk of ovarian cancer (i.e. what the precise level of ovarian cancer risk reduction is). This would help policy makers to decide whether this two-step procedure (RRESDO) should be recommended in routine clinical practice. The study will also carry out an economic evaluation to see whether this is affordable for the NHS.

The PROTECTOR study will also assess people's views and the impact of this two-step procedure

on sexual function, hormone levels, quality of life and overall satisfaction. We will compare RRESDO to the traditional approach of removing both the tubes and ovaries in the same operation (RRSO). We will also compare this to the well-being of individuals who choose not to have an operation.

#### Who can participate?

Women at increased risk of developing ovarian cancer, who are aged 30 years and over and have not gone through the menopause.

#### What does the study involve?

Participants will be given the choice of which arm of the study they wish to be part of:

- 1. RRESDO (risk-reducing early salpingectomy and delayed oophorectomy): the new, two-stage operation (initial removal of tubes alone, followed by later removal of ovaries at a second operation after natural menopause or sooner if requested).
- 2. RRSO (risk-reducing salpingo-oophorectomy): removal of both tubes and ovaries at the same time. This is the current standard operation offered on the NHS to prevent ovarian cancer.
- 3. Controls: no operation involved.

Everyone will be required to complete questionnaires at the start of the study and annually. These ask about medical history, family history, quality of life, sexual function, cancer worry, psychological well-being and how satisfied individuals are with their decision.

All participants will also have a blood test at the start of the study and during follow up for a hormone called FSH. This will provide information on how the ovaries are functioning. Women who decide to have an operation to prevent ovarian cancer (either RRSO or RRESDO) will have a baseline ultrasound scan to look at the ovaries and a blood test for an ovarian cancer marker called CA125.

A small number of women from each study arm will be approached to take part in an optional interview. Interviews will explore views on acceptability, interest, factors influencing decision-making and willingness to undergo the new two-stage operation. Those who go on to have an operation (RRESDO/RRSO), will be contacted 1 year after their operation for a follow-up interview to discuss their satisfaction with the process and their general health and wellbeing.

### What are the possible benefits and risks of participating? Benefits include:

- 1. The opportunity of having a two staged operation (RRESDO) to prevent ovarian cancer. This is not currently routinely available outside the study. It involves removal of the tubes in the first step followed by removal of ovaries at a later date.
- 2. Removal of the tubes alone will provide some protection against developing ovarian cancer and also preserve ovarian function which will delay or avoid early menopause. This can prevent the adverse health consequences of early menopause.
- 3. Participants will be given the choice of deciding which arm of the study they wish to be a part of: RRESDO (new procedure), RRSO (current standard practice), or controls (no surgery).
- 4. Participants will be contributing to research into preventing ovarian cancer in women at increased risk. Results of this study will help us better understand the impact of the new two stage procedure. This will help develop future clinical care guidelines and plan future care pathways for women at increased risk of ovarian cancer.

  Risks:
- 1. Although there is evidence to suggest removal of tubes alone provides some protection against developing ovarian cancer, the precise extent of this protection is unclear. There is the possibility of getting ovarian cancer despite removal of tubes.
- 2. It is unclear if a possible benefit of reduced breast cancer risk is lost by not removing ovaries before menopause.
- 3. The two-stage option (RRESDO) involves two operations instead of one (RRSO: removal of

both tubes and ovaries). Each operation has potential complications. As there are two operations this may lead to more complications overall.

4. There is concern that not everyone having their tubes removed initially will go on to have their ovaries removed at a later date. This would mean that these women who don't do so could still remain at an increased risk of developing ovarian cancer.

Where is the study run from? Queen Mary University of London (UK)

When is the study starting and how long is it expected to run for? July 2018 to July 2030

Who is funding the study?
Barts and the London Charity
Rosetrees Trust

Who is the main contact?

1. Prof Ranjit Manchanda
r.manchanda@qmul.ac.uk

2. PROTECTOR central coordinating team
bci-protector@qmul.ac.uk

#### Contact information

#### Type(s)

Scientific

#### Contact name

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#### ORCID ID

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#### Contact details

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Wolfson Institute of Population Health
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United Kingdom
EC1M 6BQ
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r.manchanda@qmul.ac.uk

#### Type(s)

Public

#### Contact name

Dr . PROTECTOR Study Team

#### Contact details

Barts Cancer Institute, ECMC, Queen Mary University of London Old Anatomy Building, Charterhouse Square London United Kingdom EC1M 6BQ +44 (0)786 060 6579 bci-protector@qmul.ac.uk

#### Additional identifiers

Integrated Research Application System (IRAS) 237992

**Protocol serial number** IRAS project ID: 237992

#### Study information

#### Scientific Title

Preventing Ovarian Cancer through early Excision of Tubes and late Ovarian Removal

#### Acronym

**PROTECTOR** 

#### Study objectives

Current study objectives as of 14/10/2025:

- 1. To evaluate the impact on sexual function with 'Early-Salpingectomy' and 'Delayed-Oophorectomy', as a two-step ovarian cancer prevention strategy in premenopausal women at high-risk of ovarian cancer.
- 2. To evaluate the level of ovarian cancer risk reduction of risk-reducing early-salpingectomy (RRES) for ovarian cancer prevention in high-risk women.

Previous study objectives:

- 1. Early salpingectomy is non-inferior for sexual function compared to no surgery.
- 2. Early salpingectomy is superior for sexual function and non-inferior in terms of quality of life compared to the standard risk-reducing salpingo-oophorectomy.

#### Ethics approval required

Ethics approval required

#### Ethics approval(s)

approved 10/09/2025, Bloomsbury REC (2 Redman Place, Stratford, London, E20 1JQ, United Kingdom; +44 207104 8256; bloomsbury.rec@hra.nhs.uk), ref: 18/LO/0555

London - Bloomsbury Research Ethics Committee, 18/04/2018, ref: 18/LO/0555

#### Study design

Multicentre prospective three-armed cohort study

#### Primary study design

Interventional

#### Study type(s)

Prevention

#### Health condition(s) or problem(s) studied

Prevention of ovarian cancer

#### **Interventions**

Current interventions as of 14/10/2025:

Participants who meet the eligibility criteria and who have been identified through various NHS outpatient clinics, GP-surgeries or who have self-referred to the study team, self-select which of the three study arms they wish to participate in: risk-reducing early salpingectomy and delayed oophorectomy (RRESDO); risk-reducing salpingo-oophorectomy (RRSO); controls (no surgery).

#### Baseline investigations

Participants enrolled into the two surgical arms (RRESDO/RRSO) have a CA125 and transvaginal ultrasound of the pelvis. Participants in all three arms have a baseline FSH as a measure of ovarian function and are required to complete interventional questionnaires that collect data on medical and reproductive history, socio-demographics, family history of cancers, endocrine symptoms, quality of life, satisfaction, psychological health and cancer risk perception and worry.

#### RRSO arm

Participants who have completed their family undergo risk reducing salpingo-oophorectomy and peritoneal washings. A strict histopathological SEE-FIM based protocol is followed and pathology samples are sent for central pathology review.

#### RRESDO arm

Participants undergo surgery in two stages. The first stage involves salpingectomy and peritoneal washings. The second stage involves oophorectomy and peritoneal washings once natural menopause has been reached (or sooner if requested). A strict histopathological SEE-FIM based protocol is followed and pathology samples are sent for central pathology review.

#### Control arm

Participants do not undergo surgery but undergo a blood test measuring FSH levels and are required to complete the interventional questionnaires.

#### Qualitative in-depth interviews

A small number of women from each of the three study arms are invited to one-to-one semi-structured in depth interviews to explore acceptability, interest, factors influencing decision making and willingness to undergo RRESDO. Women who elected to have surgery are followed up with another interview one year post salpingectomy/RRSO to explore satisfaction with the counselling process and the effects of surgery on health and wellbeing.

#### Follow up

All participants are followed up with annual questionnaires for 8 years. Serum FSH levels will be

taken annually for 3 years after salpingectomy/control arm; and 3 months after RRSO/delayed oophorectomy.

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#### Follow up

All participants are followed up with annual questionnaires and FSH levels (annually after salpingectomy/control arm; 3 months after RRSO/delayed oophorectomy).

#### Intervention Type

Procedure/Surgery

#### Primary outcome(s)

Current primary outcome measure as of 14/10/2025:

- 1. Sexual function measured using the Sexual Activity Questionnaire and Sexual Quality of Life 3D (SQOL-3D) questionnaire completed at baseline, 3 months post surgery and annually.
- 2. Incidence of ovarian cancer after (not at) RRES, and before or at delayed oophorectomy (DO), in women with normal histology at surgery.

Previous primary outcome measure:

Sexual function measured using the Sexual Activity Questionnaire and Sexual Quality of Life 3D (SQOL-3D) questionnaire completed at baseline, 3 months post surgery and annually.

#### Key secondary outcome(s))

Current secondary outcome measures as of 14/10/2025:

- 1. Endocrine function and menopause is measured using the FACT-ES questionnaire completed at baseline, 3 months post surgery, annually and FSH levels measured 3 months after surgery and annually (early salpingectomy/control arm)
- 2. Quality of life measured using the EQ5D-5L questionnaire completed at baseline, 3 months post surgery and annually
- 3. Satisfaction/regret is measured using the 5-item Decision Regret Scale (O'Connor, Ottawa 1996) and 1-item ('I am satisfied with the decision I have made' on a 5-point Likert scale from Madalinska et al, 2005) completed at baseline, 3 months post surgery and annually
- 4. Surgical morbidity measured by recording complications experienced by the participant 4 weeks after surgery during the post-surgical clinic review
- 5. Psychological health measured using the Hospital Anxiety and Depression Scale (HADS), assessing cancer worry using the 4-item scale from Lerman et al and measuring intrusive thoughts using the Impact of Events Scale (7 intrusive items, Horowitz et al, 1997) completed at baseline, 3 months post surgery and annually
- 6. Number of serous-tubal-intraepithelial-carcinoma (STIC)/invasive (tubal/ovarian/peritoneal /non-ovarian) cancers will be recorded following histopathology review by a central pathology review committee using the SEE-FIM protocol
- 7. Utility scores for early salpingectomy will be derived using the Sexual Quality of Life 3D (SQOL-3D) questionnaire
- 8. Cost-effectiveness (incremental cost effectiveness ratio per quality adjusted life years (ICER /QALY)) of early salpingectomy/delayed oophorectomy will be established via a cost utility analysis performed using a Markov model
- 9. A national register of women undergoing early salpingectomy will be created by collating the details of all participants who have undergone early salpingectomy as part of the trial

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#### Completion date

31/07/2030

#### Eligibility

#### Key inclusion criteria

Current inclusion criteria as of 14/10/2025:

- 1. Women at increased risk of ovarian cancer: BRCA1/BRCA2 mutation carriers; BRIP1/PALB2 /RAD51C/RAD51D mutation carriers; strong family history of breast and ovarian cancer or ovarian cancer alone.
- 2. Premenopausal
- 3. Aged ≥30 years.
- 4. Completed family (for surgical arms)

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- 1. Women at increased risk of ovarian cancer: BRCA1/BRCA2 mutation carriers; RAD51C/RAD51D /BRIP1 mutation carriers; strong family history of breast and ovarian cancer or ovarian cancer alone.
- 2. Premenopausal
- 3. Aged ≥30 years.
- 4. Completed family (for surgical arms)

#### Participant type(s)

**Patient** 

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

30 years

#### Sex

Female

#### Key exclusion criteria

Current exclusion criteria as of 14/10/2025:

- 1. Previous bilateral-salpingectomy or bilateral-oophorectomy.
- 2. Postmenopausal (amenorrhoea ≥1year (uterus in situ) / FSH >40).
- 3. Previous tubal/ovarian/peritoneal malignancy
- 4. <3 months post cancer treatment
- 5. Pregnancy
- 6. Clinical suspicion of tubal/ovarian cancer at baseline
- 7. Inability to provide informed consent

Previous exclusion criteria as of 14/10/2025:

- 1. Previous bilateral-salpingectomy or bilateral-oophorectomy.
- 2. Postmenopausal (amenorrhoea ≥1 year (uterus in situ) / FSH >40).
- 3. Previous tubal/ovarian/peritoneal malignancy
- 4. <12 months post cancer treatment
- 5. Pregnancy
- 6. Clinical suspicion of tubal/ovarian cancer at baseline
- 7. Inability to provide informed consent

#### Date of first enrolment

01/07/2018

#### Date of final enrolment

31/07/2030

#### Locations

#### Countries of recruitment

**United Kingdom** 

England

Northern Ireland

Scotland

Wales

#### **Barts Health NHS Trust**

Royal London Hospital London United Kingdom E1 1FR

#### Study participating centre University College London Hospital Foundation Trust

235 Euston Rd, Fitzrovia London United Kingdom NW1 2BU

## **Study participating centre Belfast Health & Social Care Trust**Belfast

United Kingdom BT9 7AB

#### Study participating centre Cambridge University Hospitals NHS Foundation Trust

Addenbrooke's Hospital Hills Rd Cambridge United Kingdom CB2 0QQ

#### Study participating centre Manchester University NHS Foundation Trust

Southmoor Rd, Wythenshawe Manchester United Kingdom M23 9LT

## Study participating centre Sandwell and West Birmingham Hospitals NHS Trust

Midland Metropolitan University Hos Grove Lane Smethwick United Kingdom B66 2QT

#### Study participating centre Guy's and St Thomas' NHS Foundation Trust

Great Maze Pond London United Kingdom SE1 9RT

#### Study participating centre Imperial College Healthcare NHS Trust

The Bays S Wharf Rd Paddington London United Kingdom W2 1NY

#### Study participating centre Aberdeen Royal Infirmary, NHS Grampian

Foresterhill Aberdeen United Kingdom AB25 2ZN

#### Study participating centre Maidstone and Tunbridge Wells NHS Trust

Tonbridge Rd Tunbridge Wells United Kingdom TN2 4QJ

#### Study participating centre Norfolk and Norwich University Hospitals

Colney Ln Norwich United Kingdom NR4 7UY

#### Study participating centre

#### **Gateshead Health NHS Foundation Trust**

Queen Elizabeth Ave Gateshead United Kingdom NE9 6SX

#### Study participating centre University Hospitals Bristol NHS Foundation Trust

Upper Maudlin St Bristol United Kingdom BS2 8HW

## Study participating centre Brighton and Sussex University Hospitals NHS Trust

Eastern Rd Brighton United Kingdom BN2 5BE

#### Study participating centre Oxford University Hospitals

Headley Way, Headington Oxford United Kingdom OX3 9DU

#### Study participating centre Cardiff and Vale NHS Trust

Cardiff United Kingdom CF14 4XW

#### Study participating centre Northwick Park and St Mark's Hospitals

Watford Rd, Harrow London United Kingdom HA1 3UJ

#### Study participating centre University Hospitals of Leicester NHS Trust

Infirmary Square Leicester United Kingdom LE1 5WW

#### Study participating centre Portsmouth Hospitals NHS Trust

Southwick Hill Rd, Cosham Portsmouth United Kingdom PO6 3LY

#### Study participating centre East Kent Hospitals University NHS Foundation Trust

Ethelbert Rd Canterbury United Kingdom CT1 3NG

#### Study participating centre Ninewells Hospital, NHS Tayside

James Arrott Dr Dundee United Kingdom DD2 1SY

#### Study participating centre

University Hospital Southampton NHS Foundation Trust

Tremona Rd Southampton United Kingdom SO16 6YD

#### Study participating centre St George's University Hospitals NHS Foundation Trust

**Blackshaw Road Tooting** 

London United Kingdom SW17 0QT

## Study participating centre Worcestershire Acute Hospitals NHS Trust

Worcestershire Royal Hospital Charles Hastings Way Worcester United Kingdom WR5 1DD

#### Study participating centre Royal Devon and Exeter Hospital

Gladstone Road Exeter United Kingdom EX1 2ED

## Study participating centre North Tees and Hartlepool NHS Foundation Trust

University Hospital of Hartlepool Holdforth Road Hartlepool United Kingdom TS24 9AH

#### Study participating centre Liverpool Women's NHS Foundation Trust

Liverpool Womens Hospital Crown Street Liverpool United Kingdom L8 7SS

## Study participating centre County Durham and Darlington NHS Foundation Trust Darlington Memorial Hospital

Darlington Memorial Hospital Hollyhurst Road Darlington United Kingdom DL3 6HX

#### Study participating centre

Nottingham University Hospitals NHS Trust - Queen's Medical Centre Campus

Nottingham University Hospital Derby Road Nottingham United Kingdom NG7 2UH

#### Study participating centre Royal Surrey County Hospital

Egerton Road Guildford United Kingdom GU2 7XX

#### Study participating centre Royal Infirmary of Edinburgh at Little France

51 Little France Crescent Old Dalkeith Road Edinburgh Lothian United Kingdom EH16 4SA

#### Study participating centre Royal Victoria Infirmary

Queen Victoria Road Newcastle upon Tyne United Kingdom NE1 4LP

#### Study participating centre Royal Derby Hospital

Uttoxeter Road Derby United Kingdom DE22 3NE

## Study participating centre East Lancashire Hospitals NHS Trust

Royal Blackburn Hospital Haslingden Road Blackburn United Kingdom BB2 3HH

#### Study participating centre South Tees Hospitals NHS Foundation Trust

James Cook University Hospital Marton Road Middlesbrough United Kingdom TS4 3BW

## Study participating centre NHS Greater Glasgow and Clyde

J B Russell House Gartnavel Royal Hospital 1055 Great Western Road Glasgow Glasgow United Kingdom G12 0XH

#### Study participating centre Northampton General Hospital NHS Trust

Cliftonville Northampton United Kingdom NN1 5BD

#### Study participating centre Royal Cornwall Hospitals NHS Trust

Royal Cornwall Hospital Treliske Truro United Kingdom TR1 3LJ

#### Study participating centre Leeds Teaching Hospitals NHS Trust

St. James's University Hospital Beckett Street Leeds United Kingdom LS9 7TF

#### Study participating centre Ysbyty Gwynedd Hospital (yg NHS Trust)

Ysbyty Gwynedd Penrhosgarnedd Bangor United Kingdom LL57 2PW

#### Study participating centre Royal United Hospitals Bath NHS Foundation Trust

Combe Park Bath United Kingdom BA1 3NG

### Sponsor information

#### Organisation

Queen Mary University of London

#### **ROR**

https://ror.org/026zzn846

#### Funder(s)

#### Funder type

Charity

#### **Funder Name**

Barts and the London Charity

#### **Results and Publications**

#### Individual participant data (IPD) sharing plan

The data sharing plans for the current study are unknown and will be made available at a later date.

#### IPD sharing plan summary

Other

#### **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	protocol	01/02/2021	11/09/2020	Yes	No
HRA research summary			28/06/2023	No	No
Participant information sheet	version v4	16/04/2018	02/04/2019	No	Yes
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes