

Changing case Order to Optimise patterns of Performance in Screening (CO-OPS) Trial

Submission date 26/03/2013	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 26/03/2013	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 11/05/2016	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

In breast cancer screening, mammograms (x-ray images) are taken of women's breasts and examined for signs of cancer. In the NHS Breast Screening Programme each woman's mammograms are examined separately by two radiologists, who each indicate if there should be recall for further tests. This is a highly skilled but repetitive activity where radiologists examine batches of 30-50 women's mammograms in each session. A decrease of performance has been observed over time in similar repetitive visual tasks, such as searching a radar screen for enemy aircraft. The current practice is for both radiologists to examine each batch of mammograms in the same order as one another, so their performance decrease would occur when looking at the same women's mammograms. We plan to run an experiment to test whether the two radiologists examining batches in a different order to one another increases the number of cancers detected. The idea is to make sure that optimal performance for the first and second radiologist happen when examining different women's mammograms, to improve overall cancer detection rates.

Who can participate?

Breast screening centres in England (UK).

What does the study involve?

In the intervention group, batches of mammograms will be presented to the two radiologists in the opposite order (one in appointment order and one in reverse appointment order). In the control group, the two radiologists will be presented with the mammograms in the same order. The main outcome will be whether there are more cancers detected in the intervention group than the control group.

What are the possible benefits and risks of participating?

The potential benefits are if the intervention is successful then it will result in fewer cancers being missed in the NHS breast screening programme. Participating centres will be sent a summary of results. The potential risk is that if successful the intervention will result in a larger number of disagreements and so a larger number of cases requiring arbitration review.

Where is the study run from?
University of Warwick (UK).

When is the study starting and how long is it expected to run for?
The study started in December 2012 and will run until September 2014.

Who is funding the study?
National Institute for Health Research (NIHR) (UK).

Who is the main contact?
Dr Sian Taylor-Phillips
S.Taylor-Phillips@warwick.ac.uk

Contact information

Type(s)
Scientific

Contact name
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Additional identifiers

Protocol serial number
13796

Study information

Scientific Title
Changing case Order to Optimise patterns of Performance in Screening (CO-OPS) randomised trial

Acronym
CO-OPS

Study objectives
We plan to run an experiment to test whether having two radiologists examine batches of mammograms in a different order to one another increases the number of cancers detected. The idea is to make sure that optimal performance for the first and second radiologist happen when examining different womens mammograms, to improve overall cancer detection rates.

Ethics approval required

Old ethics approval format

Ethics approval(s)

West Midlands Research Ethics Committee, First MREC approval date 27/06/2012, ref: 12/WM/0182

Study design

Randomised; Interventional; Design type: Screening

Primary study design

Interventional

Study type(s)

Screening

Health condition(s) or problem(s) studied

Topic: National Cancer Research Network; Disease: Breast cancer

Interventions

Changing case order: Presenting batches of mammograms in the opposite order to the two readers (one in appointment order and one in reverse appointment order)

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Cancer detection rate; Timepoint(s): 1 year

Key secondary outcome(s)

1. Interval cancer rate; Timepoint(s): 3.5 years
2. Rate of disagreements between readers; Timepoint(s): 1 year
3. Recall rate; Timepoint(s): 1 year

Completion date

01/09/2014

Eligibility

Key inclusion criteria

The intervention is a change to breast screening centre systems. So recruitment is at the breast screening centre level. Inclusion criteria are that they are an NHS breast screening centre in England with at least one set of digital mammography equipment used for screening. (The software intervention only works on digital equipment)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Female

Key exclusion criteria

Exclusion criteria are centres who are outside of England, who are not part of the NHS breast screening programme, or do not have any digital mammography equipment.

Date of first enrolment

20/12/2012

Date of final enrolment

01/09/2014

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

Gibbet Hill Road

Coventry

United Kingdom

CV4 7AL

Sponsor information**Organisation**

University of Warwick (UK)

ROR

<https://ror.org/01a77tt86>

Funder(s)

Funder type

Government

Funder Name

National Institute for Health Research (NIHR) (UK)

Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

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	10/05/2016		Yes	No
Protocol article	protocol	10/01/2014		Yes	No