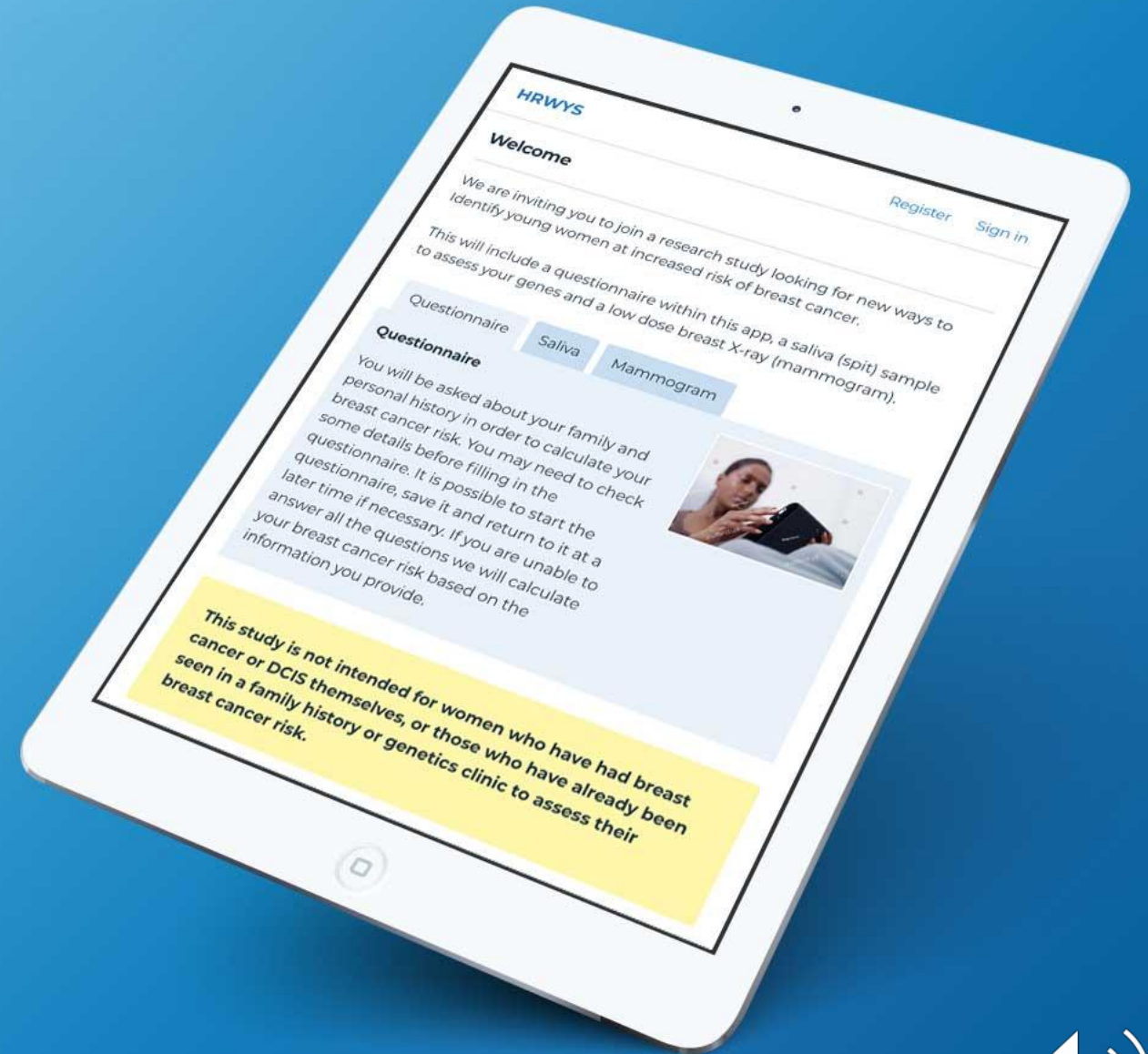


High Risk Young Women Study (HRYWS)

Comprehensive breast cancer risk assessment tool for young women aged 30-39



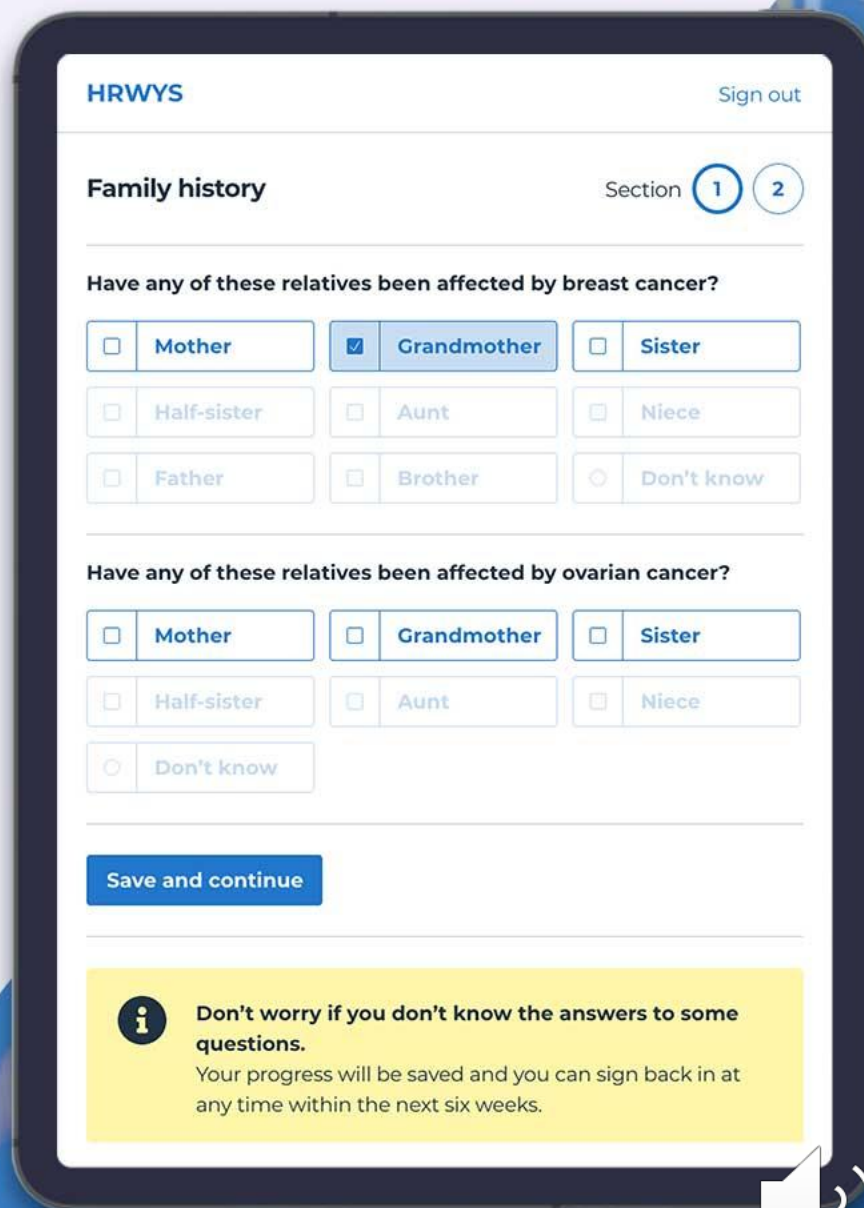
HRYWS

- A partnership between The University of Manchester, The Christie Hospital and Manchester Cancer Research Centre
- Co-funded with funds from The Shine Bright Foundation, Tony Thornley and the Manchester BRC
- Designed and developed in collaboration with young women across Greater Manchester



Web-based application (WBA)

- Looking at new ways to identify young women at increased risk of breast cancer
- Study includes a questionnaire, a saliva sample and a low dose risk assessment mammogram



The screenshot displays the HRWYS web-based application interface. At the top left, the logo "HRWYS" is visible, and at the top right, there is a "Sign out" link. The main heading is "Family history", with "Section 1" of 2 indicated by a circled "1" and a circled "2".

The first question is "Have any of these relatives been affected by breast cancer?". Below this question are three rows of checkboxes for different relatives:

<input type="checkbox"/> Mother	<input checked="" type="checkbox"/> Grandmother	<input type="checkbox"/> Sister
<input type="checkbox"/> Half-sister	<input type="checkbox"/> Aunt	<input type="checkbox"/> Niece
<input type="checkbox"/> Father	<input type="checkbox"/> Brother	<input type="radio"/> Don't know

The second question is "Have any of these relatives been affected by ovarian cancer?". Below this question are two rows of checkboxes for different relatives:

<input type="checkbox"/> Mother	<input type="checkbox"/> Grandmother	<input type="checkbox"/> Sister
<input type="checkbox"/> Half-sister	<input type="checkbox"/> Aunt	<input type="checkbox"/> Niece
<input type="radio"/> Don't know		

At the bottom of the form, there is a blue button labeled "Save and continue".

A yellow information box at the bottom contains the following text:

i Don't worry if you don't know the answers to some questions.
Your progress will be saved and you can sign back in at any time within the next six weeks.

HRYWS process

- Invite letter from GP practice to complete web-based risk questionnaire
- Questions about:
 - Family history
 - If high risk, refer direct to FH clinic
 - Other risk factors for breast cancer eg:
 - Age at first pregnancy
 - Age periods started



Risk algorithm

- Tyrer-Cuzick algorithm integrated in WBA
- This algorithm calculates breast cancer risk using all of these risk factors



Comprehensive Risk Assessment

- Web-based risk questionnaire
- Invitation to Nightingale Centre for:
 - Low-dose mammogram
 - Saliva sample
- Combined comprehensive risk score

HRWYS Sign out

Your history Section 1 2 3

Approximately how old were you when you had your first period?

12 Years Don't know

Are you premenopausal?

Yes No Don't know

[What does premenopausal mean?](#)

How many pregnancies have you had that have continued into the third trimester (more than 28 weeks)?

None

What is your approximate height?

1.60 Metres

What is your approximate weight?

69.00 Kilograms

Public involvement

- **Wonderfully Made Woman (Miles Platting)**
 - Advice re recruitment strategies
 - Terminology
- **Woodhouse Park Lifestyle Centre (Wythenshawe)**
 - Suggestions for help text
 - Short video summarising study



Research



Women's attitudes towards risk assessment

"I think being able to find out if I needed to do something rather than just wait for something to happen – I would massively welcome that as an opportunity."

(Brooke)

"I don't think personally I could know my future risk because that would just make me anxious."

(Danielle)

"I think it's good to know what your breast cancer risk is, if there are things that you can do to prevent it."

(Laura)

"I'd jump at an opportunity to find out my risk"

(Debbie)

"I think it's fantastic to be able to know 'cos it will either alleviate the worry or allow you to put an action plan into place"

(Hannah)



Next Steps

- **Funding news**
 - **Following on from development work with the WBA, young women in GM and low dose mammography technique**
 - **Successful grant application to CRUK and The Christie Charity for £750,000 to run the HRYWS**

