

Current UK experience of the management of **Pregnancy Associated Breast Cancer**



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Background

- Breast cancer is the leading cause of death in women 35-54y and 15% are diagnosed in women of reproductive age
 - In women <30y, up to 20% of cases may be associated with pregnancy or occur within 1y postpartum ^(1,2)
 - Increasing rates of breast cancer in premenopausal women ^(3,4)
 - Rising average maternal age >30y ^(Office of National Statistics)
- Incidence of pregnancy associated breast cancer is rising

Aim

- National retrospective audit to describe the current practice of PABC management and adherence to RCOG guidelines
- Breast cancer trainees research collaborative group cross specialty project



BCTRCG

Methodology

- Audit tool developed by trainees from medical/clinical oncology, surgery, obstetrics & gynaecology led by Dr Sheeba Irshad (GSTT) Medical Oncology Consultant
- Trainees register audit locally for data collection (RedCap)
- All chemotherapy units in UK eligible to contribute
- Retrospective audit of patients with pregnancy associated breast cancer in the last **10 years (2010-2020)**
- Baseline characteristics, surgical, medical oncology, clinical oncology and obstetric management



Methodology: REDCap Database

- REDCap is a mature, secure web application for building and managing online surveys and databases
- Provides automated export procedures for seamless data downloads to Excel and common statistical packages (SPSS, SAS, Stata, R)
- Instruments to collect:
 - Baseline data
 - Surgical data
 - Medical Oncology data
 - Radiotherapy data
 - Obstetric data



Logged in as cmosse | Log out

My Projects or Control Center

Project Home or Project Setup

REDCap Messenger

Project status: **Production**

Data Collection

Record Status Dashboard

Add / Edit Records

Record ID 4

[Select other record](#)

Applications

Calendar

Data Exports, Reports, and Stats

Data Import Tool

Data Comparison Tool

Logging

Field Comment Log

File Repository

User Rights and DAGs

Record Locking Customization

E-signature and Locking Mgmt

Data Quality

API and API Playground

REDCap Mobile App

External Modules

Help & Information

Help & FAQ

Video Tutorials

Suggest a New Feature

[Contact REDCap administrator](#)

Pregnancy associated breast cancer

Record Home Page

Record "4" is a new Record ID. To create the record and begin entering data for it, click any gray status icon below.

The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

Legend for status icons:

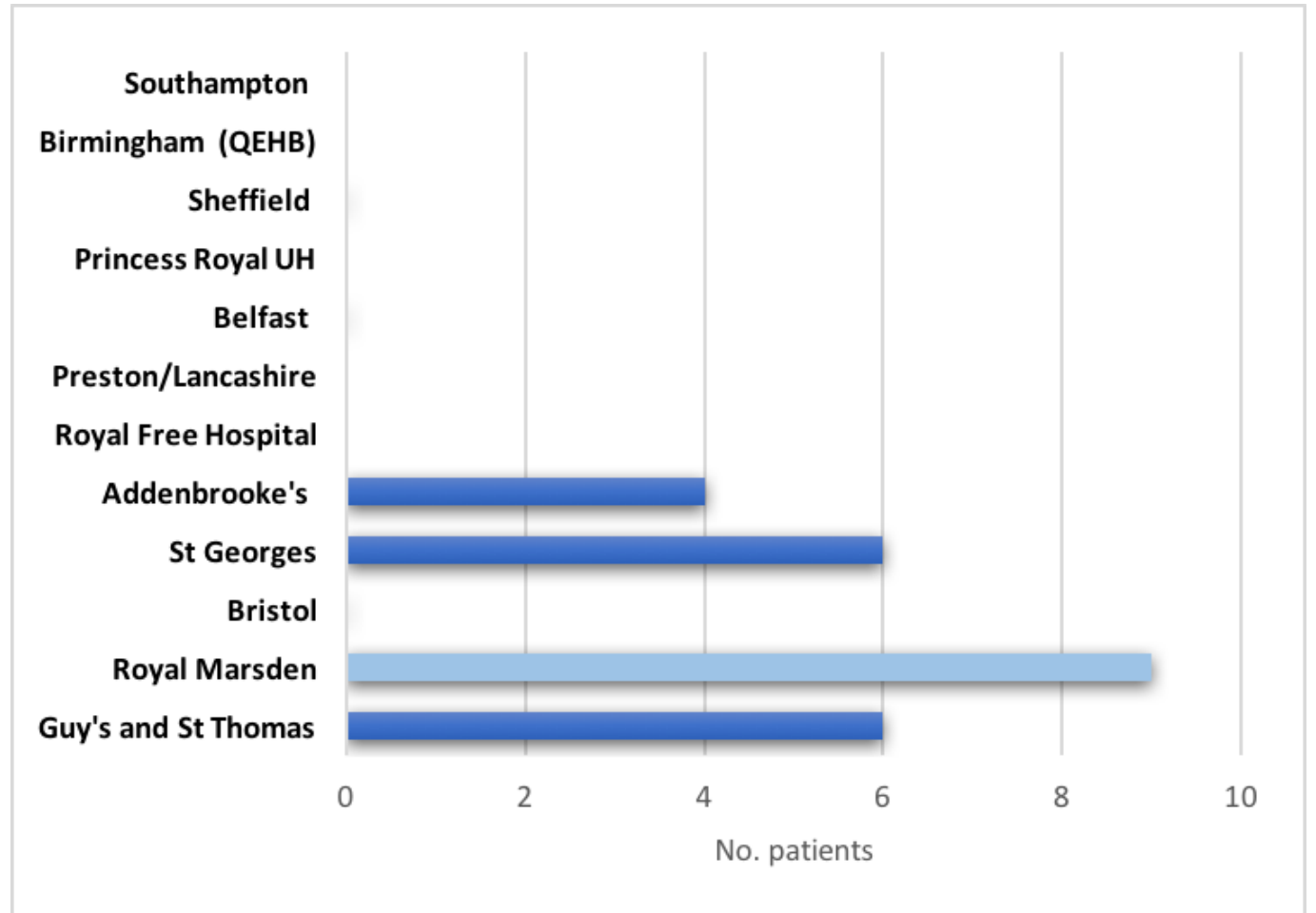
- Incomplete
- Incomplete (no data saved) ?
- Unverified
- Complete

NEW Record ID 4

Data Collection Instrument	Status
Baseline	<input type="radio"/>
Surgery	<input type="radio"/>
Medical Oncology	<input type="radio"/>
Clinical Oncology	<input type="radio"/>
Obstetrics	<input type="radio"/>

Results in progress

- 12 sites committed, others expressed interest
- 4 units completed data collection (n=23)
- Data awaited for 8 sites
- Patients managed across multiple sites !





Why we need your help



- Uncommon in individual hospitals but increasing in incidence nationally
- Challenging management for patients and MDT, important to understand the consistency of the management of these cases nationally and in light of RCOG guidelines
- Understanding the impact of treatment on pregnancy outcomes and breast cancer related survival will help to inform future practice

How to get involved...

Any institutions wishing to participate and contribute to this national audit by joining the Breast Cancer Trainee Research Collaborative Group, please do not hesitate to contact us:

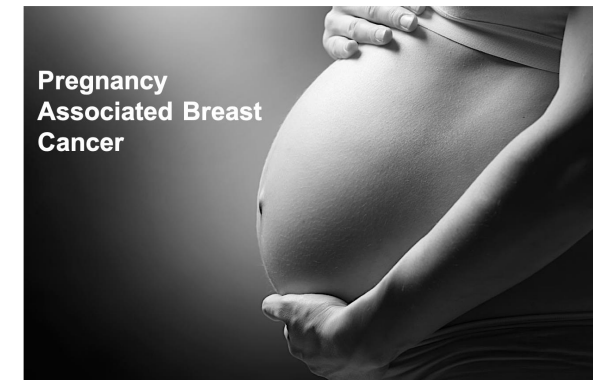
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<https://bctrcguk.wixsite.com/bctrcg>

Thank you!



Thanks to...

- Sheeba, Danielle and Madeha for their hard work so far on this project
- Charlotte Moss for setting up the REDCap database
- All of the sites who have signed up so far... come and say hi today

References

- 1. Smith LH, Danielsen B, Allen ME, Cress R. Cancer associated with obstetric delivery: results of linkage with the California cancer registry. *Am J Obstet Gynecol* 2003;189:1128–35.
- 2. Andersson TM, Johansson AL, Hsieh CC, Cnattingius S, Lambe M. Increasing incidence of pregnancy-associated breast cancer in Sweden. *Obstet Gynecol* 2009; 114:568–72.
- 3. Ventura SJ: First births to older mothers, 1970-1986. *Am J Public Health* 79:1675-1677, 1989
- 4. Ranstam J, Janzon L, Olsson H: Rising incidence of breast cancer among young women in Sweden. *Br J Cancer* 61:120-122, 1990