The achievements of the Mammary Fold Academic and Research Collaborative (MFAC) and current projects

Presented by Miss Lisa Sheehan, ST6 Wessex Deanery
Chair of MFAC

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Who we are...

• Established 2014
• Subcommittee of the Mammary Fold
• Trainee Lead
• 2 year posts, elected members
• Chair is Academic Representative to MF and links to the ABS Academic and Research Committee
Aims

“To enhance care and outcome for patients with breast disease through promoting and supporting trainee-led audit and research”

“To develop a national collaborative to facilitate high quality trainee-led audit and research projects, as well as design and conduct novel studies”
Background
Trainee research collaboratives

[Map showing various research collaboratives across different regions of the UK, including SSRG, NoSTRA, Yorkshire Surgical Research Collaborative, WM, NWRC, EMSAN, EESuRG, and LSrg.]
Benefits of collaborative research

Individual
- Team leading & working
- Enhance CV
- Publications & Presentations
- Transferable skills
- Project Methodology & design
- Data Collection & analysis
- Write papers

Patients
- Multicentre Trials
- Better recruitment
- More clinical surgical trials

Quality of Research
- Region
- Benefits of Research Collaborative

Individual
- Benefits of Research Collaborative

Region
- Benefits of Research Collaborative

Benefits of collaborative research

- Multicentre Trials
- Better recruitment
- More clinical surgical trials
Established track record

- National appendicectomy audit 2012
  - 3326 patients
  - 95 centres
  - 5 papers (so far!)
Established track record

- Recruited 760 patients from 21 centres
- Ran ahead of time
- Minimal loss to follow up
Could it work in breast surgery?
AIMS OF iBRA-1:
1. Define current practice of implant-based breast reconstruction in the UK
2. Evaluate clinical and patient reported outcomes of implant-based breast reconstruction
3. Determine the feasibility of future evaluation in a clinical trial or registry
4. Generate new guidelines for implant-based breast reconstruction

Enthusiasm
High visibility
Achievements so far....


Management of pure DCIS

National survey of management of DCIS

- Simple questionnaire
- Completed by trainee at MDT
  - Data from 76 units across UK
  - Huge variation in practice
Management of pure DCIS

• Outputs
  • 2 Oral presentations
    • Mammary Fold Academic and Research Day 2016
  • ASiT
  • Poster presentation
  • ABS Conference 2016
  • Paper published in EJSO
Variation in the management of ductal carcinoma in situ in the UK: Results of the Mammary Fold National Practice Survey.

Mammary Fold Academic and Research Collaborative.

Abstract

INTRODUCTION: Ductal carcinoma in situ (DCIS) accounts for approximately 10% of all newly-diagnosed breast cancers in the UK. The latest national guidelines were published in 2009 and may not reflect current best practice. We aimed to explore variation in the current management of DCIS to support the need for updated guidelines.

METHODS: A national practice questionnaire was developed by the Mammary Fold Academic Committee (MFAC) focussing on the pre, intra and post-operative management of DCIS. Trainees at UK breast units were invited to complete the questionnaire at their multidisciplinary team meeting to provide a comprehensive picture of current national practice.
Variation in the management of ductal carcinoma in situ in the UK: Results of the Mammary Fold National Practice Survey.

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The iBRA-2 Study

A national prospective multicentre audit to evaluate the impact of immediate Breast Reconstruction on the delivery of Adjuvant therapy
Audit Standards
• Inclusion criteria
  – Consecutive women undergoing mastectomy with and without immediate breast reconstruction using **ANY technique (Implant, LD, free flap)**

• Exclusion criteria
  – Risk-reducing surgery
  – Breast conservation including volume replacement techniques and complex tissue rearrangement e.g. therapeutic mammaplasty
• 6 month period
  – 1st July – 31st December 2016
• Follow up for 6 weeks or until start of adjuvant therapy
• Aim to recruit 3000 patients undergoing Mx +/- IBR of any type

Data collection
Published protocol
90 centres
212 named collaborators
Recruitment to iBRA-2 Study
(n=2642)
iBRA-2 data collection

User-friendly database

Time to Adjuvant Therapy

Data point 1
Data point 2
Data point 3
Data point 4
Data point 5
Data point 6

Patient Journey

Diagnosis (clinic)
Diagnostic MDT
+/−Noadjuvant Therapy
Operation 1
+/−Operation 2
Therapeutic MDT
Adjuvant Therapy

Survival and Recurrence
iBRA-2 recruitment

- PubMed-citable author criteria
- Certificates of collaboration
- Meetings, presentations, posters...
- Website sign-up
- Emails, emails, emails...
- Consultants, SAS grades
- Share between rotating trainees
- Prizes

Keep momentum
Research activity
iBRA-2 data validation and QA

- REDCap datasets must be > 95% complete to be included in analysis
- 5% of REDCap datasets were independently validated at each centre
- If concordance < 90%, data from that unit was excluded
- Emails to named Consultant
## iBRA-2 Timeline

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td><strong>Drafting of protocol paper</strong></td>
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<tr>
<td><strong>Registrations of interest and local audit approvals obtained</strong></td>
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<td><strong>3 centre prospective audit pilot study</strong></td>
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<tr>
<td><strong>National patient recruitment and data collection</strong></td>
<td>1st July 2016 - 31st December 2016</td>
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<td><strong>Data cleaning and analysis</strong></td>
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<td><strong>Write up &amp; dissemination</strong></td>
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<td><strong>Guidelines Design of future studies and funding submission</strong></td>
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**Timelines Flexibility**
iBRA-2 2016-17

• 76 centres with 212 named collaborators
• 2,631 patients recruited
• 40.5% reconstructions
• Multiple presentations
A National Audit of the Practice and Outcomes of Therapeutic Mammaplasty
Specific objectives

• To identify the number of units performing TM across the UK and the volumes of procedures performed

• To describe the current practice of therapeutic mammoplasty (TM) including the indications and techniques used

• To evaluate the clinical outcomes of TM using different techniques and explore predictors of adverse outcome.

• To determine the impact of TM on the delivery of adjuvant therapy

• To determine best practice with regards to TM with a view to generating national guidelines
Successes!
Successes!

Min Shelley Potter
Bristol Centre for Surgical Research
School of Social and Community Medicine
University of Bristol
Room 3, 13c Canynge Hall
39 Whitelock Road
Bristol
BS8 2PA
24th May 2016

Dear Shelley

Association of Breast Surgery Research Grant

We are pleased to confirm that you have been awarded an ABS Research Grant for your project, The TeaM (Therapeutic Mammaplasty) Study – A national audit of the practice and outcomes of therapeutic mammoplasty. The value of the grant is £10,000.

On the basis that the project is ready to start within the next three months the ABS would be happy to make this grant available on receipt of a copy of the attached conditions signed by the PI listed on your application and also return from the Finance Officer named on your application of the bank details to which the grant should be made payable.

Once these have been received back we will make the grant award and look forward to hearing how the project is progressing in the near future.

Kind regards,

[Signature]

Prof Malcolm Reed
Chair
ABS Academic & Research Committee

CC: Mr Alex Mikulis

Mr Ramsay Carless
Secretary
ABS Academic & Research Committee

The TeaM Study

Reconstructive Surgery Trials Network
Recruitment to the TeaM Study (n=880)
TeaM 2016-17

- 45 centres
- 632 patients recruited
- ABS pilot grant
- Presented at EBCC-11

The TeaM Study
Current Projects

• National Unilateral Nipple Discharge (NUND) study
• Mastitis And Mammary abscess Management Audit (MAMMA) study
• Implant Survey
• NEST
• Distributing surveys Nationally
• Part of Steering committee for projects inspired by GAP analysis
National Unilateral Nipple Discharge Study

Why?
There is currently a poor evidence base on which to base clinical decisions regarding the management of patients with unilateral nipple discharge.

Questions
The NUND Study aims to answer the following

- Evaluate number of women presenting to UK breast clinics with unilateral nipple discharge.
- To determine the incidence of malignancy in women presenting with unilateral nipple discharge.
- To evaluate the best way of investigating these patients by calculating the sensitivity and specificity of commonly used investigations.

HOW?
Carry out the first UK prospective multi-centred cohort study addressing these questions.

Get Involved! Fill in the following form:
https://forms.gle/PcFaGCrrq9gA7Hu98

Any queries please email NUNDproject@gmail.com
Aim of MAMMA is to describe the current practice in the management of mastitis and breast abscesses in the UK and Ireland and to provide recommendations for best practice.

http://mammastudy.com
National variation in surgical practice to minimise post-operative complications after implant based breast surgery

- Online Questionnaire sent out nationally
- After 2 months of data gathering, 76 responses
- Still able to partake
- Aim to reduce infections associated with implant surgery from 15-18% to the ABS standard <5%

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Neoadjuvant Systemic Therapy in Breast Cancer

A national prospective multicentre audit of neoadjuvant systemic therapy in breast cancer

The NeST (neoadjuvant systemic therapy in breast cancer) study – Protocol for a prospective multi-centre cohort study to assess the current utilization and short-term outcomes of neoadjuvant systemic therapies in breast cancer

G.W. Irwin a, F. Bannon b, C.E. Coles c, E. Copson d, R.I. Cuttress d, R.V. Dave c, M. Grayson f, C. Holcombe g, S. Irshad b, C. O’Brien j, R.L. O’Connell k, C. Palmieri l, A.M. Shaaban m, N. Sharma n, J. Singh o, I. Whitehead p, S. Potter q, S.A. McIntosh s

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nBreast Unit, Level 1 Chancellor Wing, St James Hospital, Becket Street, Leeds LS9 7TF, UK
oUniversity Hospitals Birmingham, Edgbaston, Birmingham B15 2GW, UK

Published Protocol Nov 2019
New Online Surveys....

New Research into management of loco-regional recurrence
https://www.surveymonkey.co.uk/r/MJFLXL6

Understanding and improving decision making in the treatment of older women with breast cancer

If you would like to take part, please follow this link: https://universityofsussex.eu.qualtrics.com/jfe/form/SV_0BanRudrv4ntTnv
Events

- Mammary Fold Academic and Research Day - March 20th, Birmingham
- Quarterly ABS committee meetings
- Support Mammary Fold Committee
  - Links to ASIT
  - Links to other regional collaborative research groups
MFAC Academic and Research day

Date: 20th March 2020
Venue: The Studio
Birmingham
Fee: Free admission

Re-conservation of the breast by Baek Kim
The Innovation Studies by Ed St John
Breast Cancer Trainees Research Collaborative Group (BCTRCG)- Ellen Copson
LICAP flap breast reconstruction by Paul Thiruchelvam
Modern management of the axilla by Amit Goyal
‘Drinks, nibbles and networking session.’

Submitted Oral Papers & Prize (£50 Amazon Voucher)
Future

- Encourage more collaborative research and hope to get it recognised as part of CPD/ JSCT guidelines for CCT
- Continue to contribute to change in practice guidelines
- Encourage trainees to ‘Get Involved!’
  - Mammary Fold Newsletter
  - Facebook group for MF members
  - Give advice to trainees who want to develop their own projects

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Acknowledgements

Miss Shelley Potter, Bristol
Consultant Senior Lecturer in Oncoplastic Breast Surgery & NIHR Clinician Scientist

Mr Tim Rattay, Leicester
NIHR Clinical Lecturer in Surgery, SpR in Breast and General Surgery

Mr Dennis Remoundos, Oxford
Consultant Oncoplastic Breast Surgeon