

THE LANCET Oncology

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Potter S, Conroy EJ, Cutress RI, et al. Short-term safety outcomes of mastectomy and immediate implant-based breast reconstruction with and without mesh (iBRA): a multicentre, prospective cohort study. *Lancet Oncol* 2019; published online Jan 9. [http://dx.doi.org/10.1016/S1470-2045\(18\)30781-2](http://dx.doi.org/10.1016/S1470-2045(18)30781-2).

Web Appendix for Short-term safety outcomes of immediate implant-based breast reconstruction with and without mesh: The iBRA multicentre prospective cohort study

The iBRA Steering Group (in alphabetical order) comprises: N L P Barnes, J M Blazeby, O A Branford, E J Conroy, R I Cutress, M D Gardiner, C Holcombe, A Jain, K McEvoy, N Mills, S Mylvaganam, S Potter, J M Skillman, E M Teasdale, S Thrush, Z Tolkien, L J Whisker, P R Williamson

Local investigators (alphabetically by centre) and members of the Breast Reconstruction Research Collaborative are PUBMED citable collaborators in this study and were:

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**Milton Keynes NHS Trust:** A Taylor, K Chin; **Maidstone and Tunbridge Wells NHS Trust:** M Hashem, R Chalmers, H Devalia, K Cox, S Horn, M Dani, D Akolekar, C Chalmers; **Musgrove Park Hospital, Taunton:** S Potter, A Thorne, S Granger; J Gill, U Hassan, C Ives, T Walker, M Chana; **Nevill Hall Hospital:** V Lefemine, F Soliman; **New Cross Hospital, Wolverhampton:** T Sircar, F Salem, S Mylvaganam, P Matey, G Nagra, S Marla, R Vidya, N Nuru, I Adwan, E Fage, O Al-Jibury; **North Bristol NHS Trust:** S Potter, I Dash, S Cawthorn, J Cook, S Govindarajulu; **North Middlesex University Hospital:** T Gandamihardja; **Nottingham Breast Unit:** L Brock, M Akelund, C Otieno, A Halka, R D Macmillan, K Asgierson, L Whisker, H Khout, T Rasheed, C Laban, E Gutteridge, S McCulley; **Oxford:** D Remoundos, PJ Roy; **Peterborough City Hospital:** E Popa, Mr Goh, G Shetty; **Poole General Hospital:** S Clark, A Evans; **Prince Phillip Hospital:** S Udayasankar, S Khawaja, Y Sharaiha; **QE2 Welwyn Garden City:** U Walsh, H Deol; **Royal Berkshire Hospital:** N Dunne, B Smith, A Hakim; **Royal Bolton Hospital:** A Volleamere, C Garnsey, C Wright; **Royal Bournemouth Hospital:** E Skene; C Laban, A Iskender, D Perry; **Royal Devon and Exeter NHS Foundation Trust:** D Egbeare, M Wiltsher, R Johnston, D Ferguson; S Olsen, R Tillett, M Youssef; **Royal Glamorgan Hospital:** S Datta, G Patel, C Steventon, R Foulkes, E Vaughan Williams, G Osborn, C Gateley; **Royal Hampshire County Hospital, Winchester:** N Chand, B Zeidan, D Rainsbury, S Laws, L Peiris, K Harris, V Kalles; **Royal Liverpool and Broadgreen University Hospitals:** A Hargreaves, J Henderson, T Kiernan, N Barnes, M Chandrashekar, A Tansley, C Holcombe, G Mitchell, R Little, S Bathla, M Pennick, E De Sousa, W Hamiton-Burke; **Royal Marsden Hospital:** R Di Micco, R O'Connell, V Voynov, A Parvaiz, A Conway, P Barry, G Gui, J Rusby, N Roche, K Ramsey, K Krupa, L Johnson, D Elfadl, F MacNeil, A Peppe, L Soldanova, I Hamo, P Harris, A Augusti, C Constantinou, A R Godden; **Royal Surrey County Hospital:** E Clayton, A Conway, T Irvine, P Partlett, F Pakzad; **Royal United Hospital Bath:** R Shah, I Dash, S Potter, J Mcintosh, R Sutton, N Laurence; **Royal Victoria Infirmary, Newcastle:** L Darragh, J O'Donoghue, S Nicholson, H Cain, N Collis, J Chatterjee, A Critchley, L Caldon; **St. James's University Hospital, Leeds:** B Kim, D Remoundos, J Massey, R Achuthan, C Fenn, F Mazari, C Navin, K Horgan, S McKenzie, P Turton, M Lansdown; **St George's Hospital:** S Tang, Mr Banerjee; **St Marys Hospital, Isle of Wight:** M Jobson; **Salisbury District Hospital:** S Masood, V Brown, G Murphy; **Sheffield Teaching Hospitals NHS Trust:** V Fung, N Dunne, L Wyld, S Kohlhardt, V Chandran, L Maraqa, L Caldon, M Reed, A Ismail; **Southampton:** S Robertson, R Cutress; **Torbay and South Devon NHS Foundation Trust:** C Ives, M Green; **University College Hospital, London:** L Johnson, R Carpenter, J Gattuso, J Franks; **University Hospitals Birmingham:** S Mylvaganam, R Warner, L MacLennan, J Dickson, R Waters, N Basu, S Thomas, S Tadiparthi, S Aggarwal; **University Hospital Coventry and Warwickshire:** A Carbone, J Skillman, T Challoner, S Parker, A Park, A Tomlins, H Khan, E Eltigani, M Kishore, R Nangalia, S Chambers, S Ayaani; **University Hospital Llandough:** C Thomas, R Foulkes, A Hussain, J Iddon, H Sweetland, E Davies, S Tate, S Goyal, A Ghattura, C Zabkiewicz; **University Hospitals North Manchester:** S Narayanan, S Soumian, D Archampong, E Erel; **University Hospitals North Staffordshire:** S Narayanan, S Soumian, V Voynov; **University Hospitals South Manchester:** J Henderson, N Barnes, R Shotton, R Johnson, A Gandhi, J Harvey, C Kirwan, J Murphy, G Byrne, D El Sharief, B Baker, R Chattopadhyay, S Chatterjee, R Irri, Mei Ju Hwang, K Williams; L Barr; **Warrington and Halton Hospitals:** N Sarfraz, P Thawdar; **Warwick Hospital:** M Dakka, H Tafazal, L Jones, D Enver, D Clarke, S Harries; **West Hertfordshire Hospital NHS Trust:** D Cocker, S Monib, L M Lai, S Thomson, K Chong, S Baldota, J Maalo; **Whiston Hospital:** N Barnes, T Kiernan, R Clifford, M Pennick, L Chagla, A Iqbal; **Wirral University Teaching Hospital NHS Foundation Trust:** R Vinayagam, J Lund, M Callaghan, S Poonawalla, K James; **Worcestershire Royal Hospital:** M Tan, R Athwal, M Mullan, S Thrush, R Bright-Thomas, J Taylor, H Tafazal, K McEvoy, M Ahmed; **Yeovil District Hospital:** N Dobner, C Osborne; **York NHS Foundation Trust:** J Piper, E Baker, R Nasr.

Supplementary table 1: Missing data within each risk factor for each key outcome

	Total	Reoperation		Readmission		Infection		Implant loss	
		Yes	No	Yes	No	Yes	No	Yes	No
Number of patients	2081	370	1711	372	1709	522	1559	182	1899
Age	10 0.5%	3 0.8%	7 0.4%	3 0.8%	7 0.4%	4 0.8%	6 0.4%	1 0.5%	9 0.5%
Smoking	30 1.4%	7 1.9%	23 1.3%	5 1.3%	25 1.5%	9 1.7%	21 1.3%	3 1.6%	27 1.4%
BMI	118 5.7%	26 7.0%	92 5.4%	27 7.3%	91 5.3%	22 4.2%	96 6.2%	11 6.0%	107 5.6%
Previous radiotherapy	13 0.6%	3 0.8%	10 0.6%	3 0.8%	10 0.6%	3 0.6%	10 0.6%	0 0.0%	13 0.7%
Neo adjuvant chemo	26 1.2%	8 2.2%	18 1.1%	7 1.9%	19 1.1%	8 1.5%	18 1.2%	4 2.2%	22 1.2%
Length of operation	189 9.1%	28 7.6%	161 9.4%	34 9.1%	155 9.1%	49 9.4%	140 9.0%	17 9.3%	172 9.1%
Bilateral	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
Nipple sparing	10 0.5%	2 0.5%	8 0.5%	2 0.5%	8 0.5%	2 0.4%	8 0.5%	2 1.1%	8 0.4%
Risk reducing vs. therapeutic	4 0.2%	0 0.0%	4 0.2%	0 0.0%	4 0.2%	0 0.0%	4 0.3%	0 0.0%	4 0.2%
Fixed vs. adjustable	17 0.8%	4 1.1%	13 0.8%	4 1.1%	13 0.8%	4 0.8%	13 0.8%	4 2.2%	13 0.7%

Supplementary table 2: Unit specific recruitment and local collaborators in the iBRA Study

Hospital name	Local Collaborators	Date participant recruited		Total number recruited		Active recruitment months ¹		All recruitment months ²	
		First	Last			Months actively recruiting	Monthly recruitment rate	Months actively recruiting	Monthly recruitment rate
Overall		04/02/2014	30/06/2016	2108		28	75	28	75
Royal Liverpool University Hospital	A Hargreaves J Henderson* T Kiernan N Barnes M Chandrashekar* A Tansley* C Holcombe* G Mitchell* R Little S Bathla M Pennick E De Sousa* W Hamilton-Burke	04/02/2014	22/06/2016	118	5.6%	28	4	28	4
University Hospitals South Manchester	J Henderson N Barnes* R Shotton R Johnson* A Gandhi* J Harvey* C Kirwan* J Murphy* G Byrne* D El Sharief B Baker R Chattopadhyay S Chatterjee R Irri Mei Ju Hwang K Williams L Barr*	12/01/2015	30/06/2016	115	5.5%	17	7	17	7
Nottingham Breast Unit	L Brock M Akelund C Otieno A Halka R D Macmillan* K Asgierrson* L Whisker* H Khout* T Rasheed* C Laban E Gutteridge* S McCulley*	04/08/2014	27/06/2016	106	5.0%	22	5	22	5
Royal Marsden Hospital	R Di Micco R O'Connell V Voynov A Parvaiz A Conway P Barry* G Gui* J Rusby* N Roche* K Ramsey* K Krupa* L Johnson D Elfadl F MacNeil* A Peppe L Soldanova I Hamo P Harris* A Augusti C Constantinou A R Godden	20/05/2014	28/06/2016	101	4.8%	25	4	25	4
University Hospital Coventry and Warwickshire:	A Carbone J Skillman* T Challoner S Parker* A Park* A Tomlins* H Khan* E Eltigani* M Kishore* R Nangalia S Chambers S Ayaani;	26/03/2014	22/02/2016	85	4.0%	22	4	27	3
New Cross Hospital, Wolverhampton	T Sircar* F Salem S Mylvaganam* P Matey* G Nagra S Marla R Vidya* N Nuru I Adwan E Fage O Al-Jibury	17/11/2014	24/06/2016	82	3.9%	19	4	19	4
Brighton & Sussex University Hospital NHS Trust	S Shaheed F Ugolini R Rathinaezhil C Zammit* H Osman* A Chouhan	20/06/2014	09/06/2016	69	3.3%	23	3	24	3
Maidstone & Tunbridge Wells NHS Trust	M Hashem* R Chalmers* H Devalia* K Cox* S Horn* M Dani D Akolekar* C Chalmers	11/07/2014	24/06/2016	64	3.0%	23	3	23	3
West Hertfordshire Hospital NHS Trust	D Cocker S Monib L M Lai*	04/02/2014	09/06/2016	62	2.9%	28	2	28	2

Hospital name	Local Collaborators	Date participant recruited		Total number recruited		Active recruitment months ¹		All recruitment months ²	
		First	Last			Months actively recruiting	Monthly recruitment rate	Months actively recruiting	Monthly recruitment rate
Overall		04/02/2014	30/06/2016	2108		28	75	28	75
	S Thomson* K Chong* S Baldota J Maalo								
Wirral University Teaching Hospital NHS Foundation Trust	R Vinayagam* J Lund* M Callaghan* S Poonawalla* K James*	05/09/2014	28/06/2016	61	2.9%	21	3	21	3
Blackpool Teaching Hospital NHS Foundation Trust	I Michalakis* D Debnath* N Geerthan P Kiruparan*	09/01/2015	30/06/2016	60	2.9%	17	4	17	4
Sheffield Teaching Hospitals NHS Trust	V Fung N Dunne L Wyld* S Kohlhardt* V Chandran* L Maraqa* L Caldton M Reed* A Ismail*	25/11/2014	28/06/2016	54	2.6%	19	3	19	3
Belfast City Hospital	G Dobson S Sloan* G Irwin L Darragh S McIntosh* S Refsum* S Dawson;	10/06/2014	05/01/2016	53	2.5%	18	3	24	2
Worcestershire Royal Hospital	M Tan R Athwal M Mullan* S Thrush* R Bright-Thomas* J Taylor* H Tafazal K McEvoy M Ahmed	16/04/2014	30/06/2016	52	2.5%	26	2	26	2
St. James's University Hospital Leeds	B Kim D Remoundos J Massey R Achuthan* C Fenn* F Mazari C Navin* K Horgan* S McKenzie* P Turton* M Lansdown	16/07/2014	11/05/2016	49	2.3%	21	2	23	2
Airedale General Hospital	P Christopoulos V Fung, C Murphy* L Caldton, H Fatayer E Baker	12/03/2014	18/05/2016	48	2.3%	26	2	27	2
Frimley Park Hospital	D Egbeare* J Stevens E Mallidis R Daoud* I Karat* I Laidlaw* H Osman K Kanesalingam R Johnson R Gurung	02/09/2014	28/06/2016	46	2.2%	21	2	21	2
Barts Health NHS Trust	D Zheng F Tsang L Johnson A Peel S Ledwidge* S Barker J Hu* V Voynov* G Exarchos N Jiwa;	10/07/2014	01/06/2016	44	2.1%	22	2	23	2
Royal Bolton Hospital	A Volleamere* C Garnsey* C Wright	07/07/2014	14/06/2016	43	2.0%	23	2	23	2
Glenfield Hospital Leicester	K Lambert S Pilgrim* T Rattay H Khout* D Appleton B Vijaynagar S Bains M Kaushik J Krupa	26/01/2015	28/06/2016	39	1.9%	17	2	17	2
Royal Victoria Infirmary, Newcastle	L Darragh J O'Donoghue* S Nicholson* H Cain* N Collis* J Chatterjee* A Critchley* L Caldton	15/04/2015	23/05/2016	39	1.9%	13	3	14	3
Royal Devon and Exeter NHS Foundation Trust	D Egbeare M Wiltsher R Johnston D Ferguson* S Olsen* R Tillett* M Youssef	30/06/2014	25/04/2016	37	1.8%	21	2	24	2
University Hospitals Birmingham	S Mylvaganam R Warner* L MacLennan	11/09/2014	08/03/2016	35	1.7%	17	2	21	2

Hospital name	Local Collaborators	Date participant recruited		Total number recruited		Active recruitment months ¹		All recruitment months ²	
		First	Last			Months actively recruiting	Monthly recruitment rate	Months actively recruiting	Monthly recruitment rate
Overall		04/02/2014	30/06/2016	2108		28	75	28	75
	J Dickson* R Waters* N Basu* S Thomas* S Tadiparthi* S Aggarwal*								
Royal United Hospital Bath	R Shah I Dash S Potter J Mcintosh* R Sutton* N Laurence*	25/04/2015	29/06/2016	34	1.6%	14	2	14	2
Bradford Teaching Hospitals NHS Foundation Trust	S Hignett* E Baker C Tait R Linforth* M Salab* K Rigby*	02/09/2014	20/06/2016	34	1.6%	21	2	21	2
Homerton Hospital	S Tayeh S Darvesh* C Choy* L Parvanta*	25/09/2014	30/06/2016	34	1.6%	21	2	21	2
Dorset County Hospital	K Kennedy T Graja* C Osborne* R. Sutaria M Youssef T Stringfellow	22/07/2014	07/06/2016	28	1.3%	22	1	23	1
Royal Berkshire Hospital	N Dunne* B Smith* A Hakim	19/01/2015	03/05/2016	27	1.3%	15	2	17	2
Castle Hill Hospital Hull	A Wilkins B Wooler P Kneeshaw* T K Mahapatra* E Khalifa* K Grover* K Hodgkins S Harrison P McManus* E Mallidis* J Robinson F Langlands	13/01/2015	22/06/2016	26	1.2%	17	2	17	2
Diana Princess of Wales Hospital, Grimsby	J Smith* T Masudi S Joglekar	16/06/2014	30/09/2015	23	1.1%	15	2	24	1
Royal Hampshire County Hospital, Winchester	N Chand B Zeidan D Rainsbury* S Laws* L Peiris* K Harris* V Kalles*	16/07/2014	21/06/2016	23	1.1%	23	1	23	1
Musgrove Park Hospital, Taunton	S Potter A Thorne* S Granger J Gill* U Hassan C Ives T Walker M Chana	13/08/2014	01/06/2016	22	1.0%	21	1	22	1
East Lancashire Teaching Hospitals	A. Topps M Amanita S Gawne* J McNicholas* C Thomas M Khanbhai R Brindle N Taheri R Kuruvilla M Saleh F Bux P Pugh J Iddon	08/09/2014	07/10/2015	19	0.9%	12	2	21	1
Luton and Dunstable University Hospital	R James* E Stewart-Parker* K Kirkpatrick* D Ravichandran*	04/02/2015	07/01/2016	19	0.9%	11	2	16	1
Milton Keynes NHS Trust	A Taylor* K Chin*	21/10/2014	01/12/2015	19	0.9%	13	1	20	1
North Bristol NHS Trust	S Potter I Dash S Cawthorn* J Cook S Govindarajulu*	12/11/2014	15/09/2015	17	0.8%	10	2	19	1
University Hospitals North Manchester	S Narayanan* S Soumian* D Archampong E Erel	27/01/2016	26/05/2016	16	0.8%	3	5	5	3
University Hospital Llandough	C Thomas R Foulkes* A Hussain J Iddon* H Sweetland* E Davies* S Tate S Goyal A Ghattura* C Zabkiewicz	11/11/2014	28/06/2016	15	0.7%	19	1	19	1
Nevill Hall Hospital	V Lefemine* F Soliman*	21/08/2014	31/03/2016	15	0.7%	19	1	22	1
York NHS Foundation Trust	J Piper* E Baker R Nasr*	21/11/2014	20/11/2015	15	0.7%	11	1	19	1

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		First	Last			Months actively recruiting	Monthly recruitment rate	Months actively recruiting	Monthly recruitment rate
Overall		04/02/2014	30/06/2016	2108		28	75	28	75
Kettering General Hospital	A Knight* M Wright* G Wilson* S Musa*	24/09/2015	12/04/2016	14	0.7%	6	2	9	2
Peterborough City Hospital	E Popa* S Goh* G Shetty*	25/09/2014	12/03/2015	14	0.7%	5	3	21	1
Lancashire Teaching Hospitals Chorley	A Topps N Bishop G Boland* Z Saidan* B Murthy*	17/06/2014	21/10/2014	13	0.6%	4	3	24	1
St Helens and Knowsley NHS Trust	N Barnes T Kiernan* R Clifford M Pennick L Chagla* A Iqbal*	29/05/2014	12/04/2016	13	0.6%	22	1	25	1
Countess of Chester Hospital	W Hamilton-Burke H Lennon C Harding-Mackean*	17/02/2015	24/11/2015	12	0.6%	9	1	16	1
County Durham and Darlington NHS Trust	T Collin* J Henton	03/11/2014	23/05/2016	12	0.6%	18	1	19	1
Barnsley Hospital NHS Foundation Trust:	OS Olayinka JR Dicks*	08/07/2015	15/06/2016	10	0.5%	11	1	11	1
Lincoln County Hospital	A Sami* A Giamadze*	19/01/2016	22/06/2016	10	0.5%	5	2	5	2
QE2 Welwyn Garden City	U Walsh H Deol*	19/10/2015	08/02/2016	10	0.5%	3	3	8	1
Royal Glamorgan Hospital	S Datta G Patel C Steventon R Foulkes* E Vaughan Williams* G Osborn* C Gateley*	14/01/2016	11/04/2016	10	0.5%	2	5	5	2
Great Western Hospital, Swindon	I Dash A Chaudry* M Galea* N Coombs*	09/06/2014	29/09/2014	10	0.5%	3	3	24	0
University Hospitals North Stafford	S Narayanan* S Soumian* V Voynov;	10/06/2014	02/09/2014	10	0.5%	2	5	24	0
Royal Bournemouth Hospital	E Skene* C Laban* A Iskender* D Perry*	31/12/2015	16/06/2016	9	0.4%	5	2	5	2
Poole General Hospital	S Clark* A Evans*	09/04/2015	24/06/2016	9	0.4%	14	1	14	1
Royal Surrey County Hospital	E Clayton A Conway T Irvine* P Partlett* F Pakzad	11/09/2014	17/03/2015	9	0.4%	6	2	21	0
Ashford and St Peters NHS Trust	R Newton A Luangsomboon B Swiech A Robinson M Runkel	30/06/2015	26/02/2016	8	0.4%	7	1	12	1
Bumley Hospital	A. Topps M Amanita S Gawne* J McNicholas* C Thomas M Khanbhai R Brindle N Taheri R Kuruvilla M Saleh F Bux P Pugh J Iddon	13/11/2014	22/02/2016	8	0.4%	15	1	19	0
Warrington and Halton Hospitals	N Sarfraz* P Thawdar	11/06/2015	09/06/2016	8	0.4%	11	1	12	1
Chesterfield Royal Hospital	F Mazari J Massey* I Azmy* C Hollywood*	16/02/2015	27/07/2015	6	0.3%	5	1	16	0
Prince Phillip Hospital	S Udayasankar S Khawaja Y Sharaiha*	19/01/2016	21/06/2016	6	0.3%	5	1	5	1
Yeovil District Hospital	N Dobner C Osborne;	29/09/2014	18/04/2016	6	0.3%	18	0	21	0
Bedford Hospitals NHS Trust	N Manoloudakis H Charfare F Conroy*	19/11/2015	08/03/2016	5	0.2%	3	2	7	1
Craigavon Area Hospital	G Irwin P Mallon*	06/10/2014	26/06/2015	5	0.2%	8	1	20	0
Altnagelvin Area Hospital	R Johnston*	09/12/2014	16/02/2015	4	0.2%	2	2	18	0
Dunedin Hospital	B Smith*	25/06/2015	17/09/2015	4	0.2%	2	2	12	0
East Surrey Hospital	E J Turner S Waheed*	07/07/2015	08/09/2015	4	0.2%	2	2	11	0
University College Hospital, London	L Johnson R Carpenter* J Gattuso* J Franks*	13/10/2014	29/01/2015	4	0.2%	3	1	20	0
Warwick Hospital	M Dakka H Tafazal L Jones* D Enver* D Clarke* S Harries*	06/05/2015	09/06/2015	4	0.2%	1	4	13	0
Leighton Hospital	S Hignett* V Pope	20/04/2016	28/06/2016	3	0.1%	2	2	2	2

Hospital name	Local Collaborators	Date participant recruited		Total number recruited		Active recruitment months ¹		All recruitment months ²	
		First	Last			Months actively recruiting	Monthly recruitment rate	Months actively recruiting	Monthly recruitment rate
Overall		04/02/2014	30/06/2016	2108		28	75	28	75
Oxford University Hospitals NHS Foundation Trust	D Remoundos* PJ Roy*	09/02/2016	09/05/2016	3	0.1%	3	1	4	1
University Hospital Southampton NHS Foundation Trust	S Robertson R Cutress*	20/04/2015	13/07/2015	3	0.1%	2	2	14	0
Torbay and South Devon NHS Foundation Trust	C Ives M Green*	12/10/2015	29/02/2016	3	0.1%	4	1	8	0
North Middlesex University Hospital	T Gandamihardja*	12/10/2015	03/12/2015	2	0.1%	1	2	8	0
Basingstoke and North Hampshire Hospital	V Kalles K Harris*	20/06/2016	20/06/2016	1	0.1%	0	NA	0	NA
King George Hospital, Ilford	S Saha* S Samlalsingh* A Ogedegbe*	17/04/2015	17/04/2015	1	0.1%	0	NA	14	0
St Marys Hospital Isle of Wright	M Jobson*	07/10/2014	07/10/2014	1	0.1%	0	NA	20	0
L Barr (private)	L Barr*	26/11/2014	26/11/2014	1	0.1%	0	NA	19	0
Salisbury District Hospital	S Masood V Brown* G Murphy	14/04/2015	14/04/2015	1	0.1%	0	NA	14	0
St Georges Hospital	S Tang* D Banerjee*	10/04/2015	10/04/2015	1	0.1%	0	NA	14	0

*Denotes consultant surgeon collaborator; A total 2108 eligible patients from 81 sites were recruited. Table sorted by total number recruited. ¹Calculated using the date of first recruited patient at site (or overall for overall row) and date of last recruited patient at site (or overall for overall row). ²Calculated between the date of first recruited patient (or overall for overall row) and date last recruited patient in study.

Supplementary table 3. Detailed breakdown of key outcomes at 3 months by risk-factor

Factor	Implant loss		Infection		Readmission		Reoperation		
	Patients experiencing implant loss	Patients not experiencing implant loss	Patients treated for infection	Patients with no infection	Patients readmitted for complications	Patients not readmitted	Patients requiring reoperation for complications	Patients who did not require reoperation	
N	182	1899	522	1559	372	1709	370	1711	
Patient risk factor	Age (years) (N)	181	1890	518	1553	369	1702	367	1704
	MED (LQ - UQ)	51.0 (44.0-58.0)	49.0 (43.0-57.0)	50.0 (44.0-59.0)	49.0 (43.0-56.0)	49.0 (43.0-57.0)	50.0 (43.0-57.0)	49.0 (43.0-57.0)	50.0 (43.0-57.0)
	(MIN, MAX)	(16.0, 80.0)	(19.0, 83.0)	(19.0, 80.0)	(16.0, 83.0)	(19.0, 83.0)	(16.0, 81.0)	(19.0, 83.0)	(16.0, 81.0)
	Not known	1	9	4	6	3	7	3	7
	Smoking								
	Non/ex smoker	150 (84%)	1687 (90%)	449 (88%)	1388 (90%)	315 (86%)	1522 (90%)	312 (86%)	1525 (90%)
	Current smoker/nicotine replacement	29 (16%)	185 (10%)	64 (12%)	150 (10%)	52 (14%)	162 (10%)	51 (14%)	163 (10%)
	Not known	3	27	9	21	5	25	7	23
	BMI (kg/m²) (N)	171	1792	500	1463	345	1618	344	1619
	MED (LQ - UQ)	26.1 (23.8-30.9)	24.7 (22.2-28.0)	26.4 (23.8-30.5)	24.3 (22.0-27.6)	26.0 (23.5-29.9)	24.6 (22.0-28.0)	25.4 (23.0-29.1)	24.6 (22.1-28.0)
(MIN, MAX)	(15.0, 44.5)	(14.4, 54.0)	(15.0, 44.5)	(14.4, 54.0)	(15.0, 44.4)	(14.4, 54.0)	(15.0, 42.6)	(14.4, 54.0)	
Not known	11	107	22	96	27	91	26	92	
Previous radiotherapy									
Yes	21 (12%)	115 (6%)	52 (10%)	84 (5%)	33 (9%)	103 (6%)	33 (9%)	103 (6%)	
No	161 (88%)	1771 (94%)	467 (90%)	1465 (95%)	336 (91%)	1596 (94%)	334 (91%)	1598 (94%)	
Not known	0	13	3	10	3	10	3	10	
Neoadjuvant chemo									
Yes	13 (7%)	210 (11%)	44 (9%)	179 (12%)	36 (10%)	187 (11%)	32 (9%)	191 (11%)	
No	165 (93%)	1667 (89%)	470 (91%)	1362 (88%)	329 (90%)	1503 (89%)	330 (91%)	1502 (89%)	
Not known	4	22	8	18	7	19	8	18	
Operative risk factor	Length of operation (minutes) (N)	165	1727	473	1419	338	1554	342	1550
	MED (LQ - UQ)	180.0 (150.0-227.0)	180.0 (147.0-210.0)	180 (150.0-220.0)	180.0 (146.0-210.0)	180.0 (150.0-223.0)	180.0 (146.0-210.0)	180.0 (150-225.0)	180.0 (146.0-210.0)
	(MIN, MAX)	(85.0, 570.0)	(60.0, 480.0)	(75.0, 570.0)	(60.0, 480.0)	(75.0, 570.0)	(60.0, 480.0)	(70.0, 570.0)	(60.0, 480.0)
	Not known	17	172	49	140	34	155	28	161
	Bilateral surgery								
	Yes	59 (32%)	482 (25%)	158 (30%)	383 (25%)	118 (32%)	423 (25%)	121 (33%)	420 (25%)
	No	123 (68%)	1417 (75%)	364 (70%)	1176 (75%)	254 (68%)	1286 (75%)	249 (67%)	1291 (75%)
	Not known	0	0	0	0	0	0	0	0
	Nipple sparing mastectomy								
	Yes	47 (26%)	433 (23%)	115 (22%)	365 (24%)	93 (25%)	387 (23%)	100 (27%)	380 (22%)
No	131 (72%)	1439 (76%)	398 (77%)	1172 (76%)	272 (74%)	1298 (76%)	263 (71%)	1307 (77%)	
Different approach per breast	3 (2%)	18 (1%)	6 (1%)	15 (1%)	5 (1%)	16 (1%)	5 (1%)	16 (1%)	
Not known	2	8	2	8	2	8	2	8	
Risk reducing vs. therapeutic mastectomy									
Risk reducing only	33 (18%)	374 (20%)	112 (21%)	295 (19%)	81 (22%)	326 (19%)	82 (22%)	325 (19%)	
Therapeutic only	126 (69%)	1357 (72%)	360 (69%)	1123 (72%)	249 (67%)	1234 (72%)	243 (66%)	1240 (73%)	
Different approach per breast	23 (13%)	164 (9%)	50 (10%)	137 (9%)	42 (11%)	145 (9%)	45 (12%)	142 (8%)	
Not known	0	4	0	4	0	4	0	4	
Fixed vs. adjustable implants									
Fixed	102 (56%)	1118 (59%)	287 (55%)	933 (60%)	209 (57%)	1011 (60%)	211 (58%)	1009 (59%)	
Adjustable	79 (44%)	761 (40%)	230 (44%)	610 (39%)	159 (43%)	681 (40%)	155 (42%)	685 (40%)	
Different approach per breast	0 (0%)	4 (0%)	1 (0%)	3 (0%)	0 (0%)	4 (0%)	0 (0%)	4 (0%)	
Not known	4	13	4	13	4	13	4	13	

Percentages are calculated using the total number of patients with data available (N) for that column; LQ – lower quartile; Med – median, Min – minimum, Max – maximum; UQ – upper quartile.