

Appendix 9: 2016/7 Ablation and CRM device data completeness and validity checks

Data completeness for ablation procedures.

Completeness has been calculated for aggregates of a number of fields: demographics (NHS No, Postcode); clinical (basic – documented arrhythmias, other cardiac disease, etc); clinical (AF ablation – additional clinical data only required for AF ablation such as left atrial size, antiarrhythmic drugs); GMC No (first operator + consultant); procedure details (ablation target, success, etc). Validity checks whether “was ablation performed?” appears to agree with other fields, such as ablation target, success, etc.

All data are given as percentages, and colour-coded (red <90%, amber 90-95%, and green ≥95%).

Hospital	Hosp code	Region	Type	Demographics	Clinical (basic)	Clinical (AF ablation)	GMC	Procedure details	Validity (ablation)
Alder Hey Hosp.	ACH	England	Children						
Barts And The London	BAL	England		96.6	83.6	64.7	98.0	92.8	80.7
Basildon Hosp.	BAS	England		99.4	96.3	57.2	97.9	96.4	94.9
Belfast City Hosp.	BFT	N Ireland		49.8	99.7		99.8	91.2	97.2
Birmingham Childrens Hosp.	BCH	England	Children	70.3	92.1		90.5	86.2	82.9
Blackpool Victoria Hosp.	VIC	England		58.0	89.4	25.6	10.1	83.6	89.1
BMI The Alexandra Hosp.	AHM	England	Private	6.8	94.5	66.7	80.7	86.3	96.1
BMI The Meriden Hosp.	BMI	England	Private	49.3	97.7	80.0	83.1	98.9	96.9
BMI The Priory Hosp. Birmingham	PHB	England	Private	30.3	96.5	18.7	62.7	85.7	90.8
Bristol Royal Hosp. For Children	BRC	England	Children	13.6	94.8	44.5	53.5	87.3	88.6
Bristol Royal Infirmary	BRI	England		99.0	16.5		80.5	25.9	0.0
Castle Hill Hosp.	CHH	England		100.0	99.1	46.6	99.6	97.1	93.2
Cromwell Hosp.	CRO	England	Private	45.8	99.3	55.0	94.5	99.4	100.0
Derriford Hosp.	PLY	England		99.4	99.4	99.5	100.0	91.6	98.2
Eastbourne District Gen. Hosp.	DGE	England		99.7	98.9	22.1	87.2	92.5	95.9
Edinburgh Royal Infirmary	ERI	Scotland		99.6	96.7	70.3	100.0	95.2	90.0
Freeman Hosp. Newcastle	FRE	England		99.7	84.2	35.7	99.8	76.2	87.4
Frimley Park Hosp.	FRM	England		71.7	99.2		100.0	96.3	94.0
Glenfield Hosp.	GRL	England		99.5	99.9	64.7	100.0	91.0	91.5
Golden Jubilee Hosp.	GJH	Scotland							
Great Ormond Street Hosp.	GOS	England	Children	51.4	96.7		28.2	89.1	83.2

Hospital	Hosp code	Region	Type	Demographics	Clinical (basic)	Clinical (AF ablation)	GMC	Procedure details	Validity (ablation)
Harefield Hosp.	HH	England		99.9	62.3	35.9	100.0	78.5	86.0
Harley Street Clinic	HSC	England	Private	47.0	98.5	82.8	100.0	91.7	96.9
John Radcliffe Hosp.	RAD	England		96.1	86.6	67.0	92.3	87.8	90.7
Kent Institute of Medicine & Surgery	KIM	England	Private						
Kings College Hosp.	KCH	England	Private	98.2	76.1	67.5	100.0	90.1	97.5
Leeds Gen. Infirmary	LGI	England		94.3	89.1	67.4	95.2	89.8	93.4
Liverpool Heart & Chest Hosp.	BHL	England		98.2	99.9	93.9	100.0	98.0	97.2
London Bridge Hosp.	LBH	England	Private	46.3	99.1	95.0	99.6	94.4	97.7
Maidstone Hosp.	MAI	England		99.5	95.9		0.0	69.9	56.2
Manchester Royal Infirmary	MRI	England		97.1	85.0	32.9	94.2	88.3	90.7
Morrison Hosp.	MOR	Wales		33.4	89.5	73.6	82.2	86.0	93.4
New Cross Hosp. (Wolverhampton H.C.)	NCR	England		99.9	98.8	73.8	97.5	91.3	95.5
Norfolk & Norwich Univ. Hosp.	NOR	England		100.0	95.3		95.2	87.7	93.7
North Middlesex Univ. Hosp.	NMH	England		16.7	86.1		0.0	95.8	100.0
Northampton Gen. Hosp.	NTH	England							
Northern Gen. Hosp. Sheffield	NGS	England		100.0	69.6	11.3	97.7	69.0	11.2
Nottingham City Hosp.	CHN	England		100.0	96.7	87.1	87.4	96.8	95.7
Papworth Hosp.	PAP	England		99.4	98.4	5.9	93.4	79.5	96.6
Princess Royal Hosp. Telford	TLF	England							
Queen Alexandra Hosp.	QAP	England		98.2	98.6	90.8	100.0	91.3	99.5
Q.E. Hosp. Birmingham	QEB	England		99.8	77.5	30.8	98.8	88.0	91.0
Q.E. Hosp. Gateshead	QEG	England		100.0	83.3	33.3	100.0	83.3	100.0
Q.E. The Queen Mother Hosp.	QEQ	England		24.4	96.0		63.4	82.6	93.1
Royal Berkshire Hosp.	BHR	England		86.6	95.5		98.1	83.3	97.8
Royal Bournemouth Hosp.	BOU	England		100.0	91.3	56.4	68.9	96.4	97.9
Royal Brompton Hosp.	NHB	England		94.9	81.9	34.3	99.5	81.0	90.4
Royal Cornwall Hosp.	RCH	England		100.0	96.3		100.0	79.9	97.9
Royal Devon & Exeter Hosp.	RDE	England		71.4	97.2	63.0	99.5	83.1	98.5
Royal Hosp.s Belfast	RVB	N Ireland		49.0	99.2	41.2	99.4	86.3	91.2
Royal Infirmary Aberdeen	RIA	Scotland		99.0	68.4	16.7	0.0	77.7	52.4

Hospital	Hosp code	Region	Type	Demographics	Clinical (basic)	Clinical (AF ablation)	GMC	Procedure details	Validity (ablation)
Royal Surrey County Hosp.	RSU	England		16.7	81.3		0.0	85.6	95.1
Royal Sussex County Hosp.	RSC	England		99.7	97.1	43.2	100.0	91.0	97.1
Southampton Gen. Hosp.	SGH	England		97.0	94.6	0.0	21.7	76.2	71.2
Spire Bristol	GHB	England	Private	54.3	96.9	33.1	100.0	89.7	92.0
Spire Hosp. Cardiff	SPC	Wales	Private	31.1	91.4	44.5	93.1	77.8	89.3
Spire Hull And East Riding Hosp.	HBP	England	Private	51.7	28.2	28.1	98.3	88.7	58.3
Spire Leeds Hosp.	LEB	England	Private	45.8	96.2	0.0	0.0	65.0	25.0
Spire Southampton Hosp.	CBS	England	Private	47.5	96.9	2.4	9.3	82.2	98.2
St Georges Hosp.	GEO	England		78.3	96.9	66.2	100.0	91.4	97.4
St Richards Hosp.	STR	England							
St Thomas Hosp.	STH	England		99.6	98.9	34.0	98.3	82.3	97.5
The James Cook Univ. Hosp.	SCM	England		99.5	99.0	47.1	99.0	83.7	92.8
Univ. College Hosp.	UCL	England							
Univ. Hosp. Coventry	WAL	England		100.0	91.8	69.1	100.0	90.4	94.4
Univ. Hosp. Of North Staffs	STO	England		91.9	67.3	33.8	96.5	77.7	94.1
Univ. Hosp. Of Wales	UHW	Wales		95.9	98.1	58.3	88.3	86.7	90.3
Warwick Hosp.	WAR	England							
Watford Gen. Hosp.	WAT	England		77.0	76.6		65.2	77.1	93.3
Wellington Hosp. North	HHW	England	Private	47.4	99.7	93.0	100.0	91.6	98.6
Weston Gen. Hosp.	WGH	England							
William Harvey Hosp.	WHH	England		57.7	85.5		56.5	86.0	95.5
Worcestershire Royal Hosp.	WRC	England							
Wythenshawe Hosp.	WYT	England		100.0	59.6	0.0	99.8	72.1	75.8

Data completeness for CRM Device procedures.

Completeness has been calculated for aggregates of a number of fields: demographics (NHS No, Postcode); clinical (basic – indication for pacing, other cardiac disease, etc); clinical (complex – additional clinical data only required for ICD/CRT devices such as QRS width); GMC No (first operator + consultant); procedure details (device and procedure type, etc); generator details (make, model, serial no). Validity checks whether “maximum system capacity” (the type of system implanted)” concurs with the generator model.

All data are given as percentages, and colour-coded with red <90%, amber 90-95%, and green ≥95%.

Hospital	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
Addenbrookes Hosp.	ADD	England		99.6	100	100	100	100	99.9	99.4
Aintree Univ. Hosp.	FAZ	England		99.25	99.525		99	98.2	96.4	98.9
Airedale Gen. Hosp.	AIR	England		99.8	99.85	100	99.5	99	100	99.5
Alder Hey Hosp.	ACH	England	Children's	90.4	75		23.1	50	100	0
Arrowe Park Hosp.	WIR	England		99.4	100		100	97	99.4	100
Barnet Gen. Hosp.	BNT	England		92.65	97.75	79.86	90.5	98.3	97.65	96.1
Barnsley Hosp.	BAR	England		100	75.425		0	96.5	96.8	98
Barts And The London	BAL	England		99.3	95	86.28	96.35	95.15	94.35	87.4
Basildon Hosp.	BAS	England		98.7	99.975	97.74	98.9	99	98.4	84.6
Basingstoke & North Hampshire Hosp.	NHH	England		99.1	96.325	92.66	96.1	96.45	89.85	95.2
Bedford Hosp.	BED	England		100	100		85.9	100	100	99.4
Belfast City Hosp.	BFT	N Ireland		49.9	99.725	94.78	99.8	99.9	99.7	98.7
Birmingham Childrens Hosp.	BCH	England	Children's	86.5	100		89.3	88.1	88.9	71.9
Birmingham City Hosp.	DUD	England		99.2	98.575	98.96	98.7	98.8	99.5	95.2
Blackpool Victoria Hosp.	VIC	England		85.15	93.05	73.26	62.85	89.35	91.55	76.3
BMI The Alexandra Hosp.	AHM	England	Private	17.4	83.325	54	19	95.1	91.3	91.3
BMI The Meriden Hosp.	BMI	England	Private	45.45	91.675	47.5	9.1	100	100	100
Bradford Royal Infirmary	BRD	England		60.4	99.9	98.42	100	99.4	97.9	99.6
Bristol Royal Hosp. For Children	BRC	England	Children's	77.35	75	75	50	96.65	100	86.7
Bristol Royal Infirmary	BRI	England		84.05	98.075	84.76	99.45	99.95	99.3	95.8
Broomfield Hosp.	BFH	England		100	99.75		51.95	99.4	98.5	97.2
Calderdale Royal Hosp.	RHI	England		52.4	98.275	80.32	49.05	98.8	99.2	96.6
Castle Hill Hosp.	CHH	England		99.5	99.825	97.38	90.85	97.05	95.55	82.8

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
Central Middlesex Hosp.	CMH	England		93	99.325	50.02	92.65	97.1	94.2	95.6
Chelsea & Westminster Hosp.	WES	England		97.5	100	100	88.9	100	100	100
Cheltenham Gen. Hosp.	CHG	England		78.45	99.725	97.16	94.95	95.85	91.2	97.5
Chesterfield Royal Hosp.	CHE	England		100	75		95.95	91.4	99.5	81.2
Colchester Gen. Hosp.	COL	England		98.9	75		64.85	88.3	98.9	96.9
Conquest Hosp.	CGH	England		99.65	85.425	25.625	53.45	97.6	97.25	78.3
Countess Of Chester Hosp.	COC	England		94.9	98.8		99.6	98.4	100	100
County Hosp. Hereford	HCH	England		84.4	100	98.58	53.9	91	97.6	99.4
Craigavon Area Hosp.	CRG	N Ireland		100	81.05		13.4	100	100	91.6
Cromwell Hosp.	CRO	England	Private	39.6	100	96.24	51.2	100	100	97.6
Croydon Univ. Hosp.	MAY	England		65.45	100	100	79.65	100	100	97.9
Cumberland Infirmary	CMI	England		98.95	89.75		28.7	84.65	98.9	68.6
Darent Valley Hosp.	DVH	England		99.6	97.5	98	44.15	100	100	70.2
Darlington Memorial Hosp.	DAR	England		95.55	98.2		46.5	94.25	97.4	86.3
Derriford Hosp.	PLY	England		98.4	99.775	97.94	97	99.9	98.7	91.5
Diana, Princess of Wales Hosp. Grimsby	GGH	England		99.8	99.45	92.5	39.5	99.6	99.6	77
Doncaster Royal Infirmary	DID	England		99.4	81.05		97.85	97.75	92.5	97.3
Dorset County Hosp.	WDH	England		99.5	98.6	94.02	100	99.7	99.7	97.6
Duchy Hosp., Truro	DUC	England	Private	57.65	100	85.8	86.7	100	98.95	97.1
Dumfries & Galloway Royal Inf.	DMF	Scotland		45.45	75		0	63.65	100	30
Ealing Hosp.	EAL	England		100	100		95	97.6	98.8	98.2
East Surrey Hosp.	ESU	England		99.65	75	0	95.25	95.1	99.3	84.8
Eastbourne District Gen. Hosp.	DGE	England		99.9	99.675	92.72	58.2	99.8	99.65	89.8
Edinburgh Royal Infirmary	ERI	Scotland		99.85	98.15	70.52	99.8	99	97.65	83.4
Epsom Hosp.	EPS	England		99.7	100		99.45	100	100	100
Fairfield Gen. Hosp.	BRY	England		99.8	99.65	96.48	96.7	98.15	96.45	94.1
Forth Valley Royal	FVH	Scotland		51.85	92.85	59.375	7.8	95.35	95.35	93.1
Freeman Hosp. Newcastle	FRE	England		99.4	99.975	99.26	100	98.15	94.7	97.6
Frenchay Hosp.	FRY	England		96.4	92.225	93.75	88.6	92.55	98.2	81.9
Frimley Park Hosp.	FRM	England		84.9	100	99.6	77.85	98.2	96.35	88.5

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
George Eliot Hosp.	NUN	England		16.5	84.5		0	90.3	92.2	98.4
Glan Clwyd District Gen. Hosp.	CLW	Wales		98.05	91.575		52.5	84	90.75	78
Glangwili Gen. Hosp.	WWG	Wales		86.15	88.65		0	84.2	95.3	69.4
Glenfield Hosp.	GRL	England		99.75	99.8	99.42	99.95	100	99.65	95.8
Gloucestershire Royal Hosp.	GLO	England		50	0		100	100	100	100
Golden Jubilee Hosp.	GJH	Scotland		49.55	78.25	55.88	0.1	69.25	90.45	40.2
Good Hope Hosp.	GHS	England		99	99.9	85.46	99.3	99.4	94.95	95.6
Gratham And District Hosp.	GRA	England		54.1	0		0	100	100	NA
Great Ormond Street Hosp.	GOS	England	Children's	14	77.6	4.175	0	99.35	100	62.8
Gwynedd Hosp.	GWY	Wales		97.45	92.375		90.3	97.3	99.4	71.6
Hammersmith Hosp.	HAM	England		99.05	100	98.14	86.45	99.8	98.2	96.5
Harefield Hosp.	HH	England		98.95	100	99.84	84.85	99.75	97.5	98.7
Harley Street Clinic	HSC	England	Private	45.4	99.05	76.12	96.05	95.1	99.7	90.2
Harrogate District Hosp.	HAR	England		98.7	95	75	14.7	92.7	99.8	72.5
Huddersfield Royal Infirmary	HUD	England		52.55	97.4	85.36	48.25	97.25	96.2	95.9
John Radcliffe Hosp.	RAD	England		96.75	87.425	65.08	100	90.8	97.8	92.1
Kent Inst. of Medicine & Surgery	KIM	England	Private	49.25	99.475	95.38	88	94.75	97	97.9
Kettering Gen. Hosp.	KGH	England		99.8	100	99.82	97.05	97.55	97.4	90.4
King George Hosp. Goodmayes	KGG	England		99.85	97.775		97.7	95.15	99.3	87.9
Kings College Hosp.	KCH	England		99.3	100	96.68	100	100	95.3	99.6
Kings Mill Hosp.	KMH	England		99.6	99.55	73.6	87	98.1	99.5	96.6
Kingston Hosp.	KTH	England		98.75	75.3		0	98.35	97.5	100
Leeds Gen. Infirmary	LGI	England		99.75	99.725	90.38	92.85	92.3	87.9	99.2
Leeds Nuffield Hosp.	LNH	England	Private	50	100	66.66666667	28.55	100	100	85.7
Lewisham Hosp.	LEW	England		52.25	96.975		47.1	99.25	100	98
Lincoln County Hosp.	LIN	England		74.05	99.8		99.85	99.7	99.6	97.8
Lister Hosp.	LIS	England		70.2	99.875		97.95	99.25	99	97.1
Liverpool Heart & Chest Hosp.	BHL	England		98.4	99.975	98.62	99.85	99.95	99	89.5
London Bridge Hosp.	LBH	England	Private	44.75	95.075	68.02	61.45	88.95	93.95	84.6
London Independent Hosp.	IND	England	Private	54.55	78.575		0	90.9	100	87.5

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
Luton & Dunstable Hosp.	LDH	England		99.7	100		91.7	99.7	99.4	98.8
Maidstone Hosp.	MAI	England		99.7	82.275	0	0	98.7	97.85	52
Manchester Royal Infirmary	MRI	England		52.1	99.675	96.46	92.1	89.9	83.65	92.2
Medway Maritime Hosp.	MDW	England		93.75	98.05	77.36	47.15	96.75	98.3	91.2
Milton Keynes Hosp.	MKH	England		95.7	96.6	67.78	56.15	99	98.8	90.9
Monklands District Gen. Hosp.	MDG	Scotland		48.35	80.1		62.85	87.9	100	71.2
Morrison Hosp.	MOR	Wales		97.5	99.875	98.52	0	98	98.2	96.1
Musgrove Park Hosp.	MPH	England		99.7	85.5	71.26	25.95	99.8	99.5	78.3
Neville Hall Hosp.	NEV	Wales		100	75		100	94.45	100	88.9
New Cross Hosp. (Wolverhampton Heart Centre)	NCR	England		99.95	99.75	93.72	93.55	97.3	93.05	95.5
Norfolk & Norwich Univ. Hosp.	NOR	England		99.85	100	98.1	100	99.35	88.85	98.2
North Devon District Hosp.	NDD	England		92.15	84.775	57.58	0	62.8	97.9	34.4
North Middlesex Univ. Hosp.	NMH	England		35.05	93.15	20	6.7	91.9	98.4	93.6
Northampton Gen. Hosp.	NTH	England		89.55	97.5	80.1	89.7	95.35	97.65	89.1
Northern Gen. Hosp. Sheffield	NGS	England		99.9	88.05	80.84	100	91.7	79.1	87.3
Northwick Park Hosp.	NPH	England		98.8	99.875	75	73.8	98.3	99	96.4
Nottingham City Hosp.	CHN	England		99.75	98.975	85.56	89.05	94.05	93.1	87.2
Papworth Hosp.	PAP	England		99.7	97.05	56.66	89.05	99.45	98.95	98.7
Peterborough City Hosp.	PET	England		99.8	87.725		40.85	100	99.8	94.8
Pilgrim Hosp.	PIL	England		95.4	75		0	90.75	98.45	68.3
Pinderfields Gen. Hosp.	PIN	England		99.9	100	100	91.85	98.4	94.2	98.3
Poole Hosp.	PGH	England		100	100		64.75	97.85	97.65	99.5
Prince Charles Hosp.	PCH	Wales		92.2	75	0	84.45	86.1	98.9	71.3
Princess Alexandra Hosp. Harlow	PAH	England		100	100		100	100	100	100
Princess Of Wales Hosp.	POW	Wales		50	76.025	100	98.3	100	100	100
Princess Royal Hosp. Telford	TLF	England		53.75	87.075	62.68	42.05	97.6	97.9	92.4
Queen Alexandra Hosp.	QAP	England		99.7	99.95	100	99.1	98.9	97.9	94.2
Queen Elizabeth Hosp. Birmingham	QEB	England		99.15	92.825	85.94	91	83.65	96.8	67.3
Queen Elizabeth Hosp. Gateshead	QEG	England		94.1	75.825		34.1	99.25	99.65	97.3

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
Queen Elizabeth Hosp. Greenwich	GWH	England		99.15	97.85	64.9	93.55	98.15	99.15	92.4
Queen Elizabeth The Queen Mother Hosp.	QEQ	England		69.2	94.35	73.46	87.35	95.3	90.85	90.6
Queens Hosp. Burton	BRT	England		92.2	98.7		0	97.2	100	91.7
Rotherham Hosp.	ROT	England		99.65	99.775		90.9	100	100	99.2
Royal Albert Edward Infirmary	AEI	England		95.6	89.15		1.1	81.15	97.95	68.5
Royal Berkshire Hosp.	BHR	England		98.1	100	99.4	97.4	99.8	99.5	98.5
Royal Blackburn Hosp.	BLA	England		88.65	98.2	72.1	90.05	97.9	96.7	94.4
Royal Bolton Hosp.	BOL	England		96.75	99.45	86	91.65	97.5	95.1	93.2
Royal Bournemouth Hosp.	BOU	England		99.9	99.9	92.28	57.2	99.15	99.15	97.9
Royal Brompton Hosp.	NHB	England		96.35	100	99.5	52.85	99.4	97.1	98.6
Royal Cornwall Hosp.	RCH	England		99.9	99.125	81.78	99.9	98.8	97.95	97
Royal Derby Hosp.	DER	England		99.45	98.475	24.975	88	95.9	95.2	97.6
Royal Devon & Exeter Hosp.	RDE	England		77.9	99.025	93.34	89.8	98.7	96.65	98.3
Royal Free Hosp.	RFH	England		97.45	100	90.76	100	76.25	57.9	56.6
Royal Glamorgan Hosp.	RGH	Wales		96.55	75.975	30.46	93.85	81.95	99.1	62.4
Royal Gwent Hosp.	GWE	Wales		87.8	100		0	98.4	96.8	98.7
Royal Hosp.s Belfast	RVB	N Ireland		49.8	99.825	96.32	99.85	99.85	99.35	98.5
Royal Infirmary Aberdeen	RIA	Scotland		58.65	76.9	41.58	3.75	97.2	99.45	90.4
Royal Liverpool Univ. Hosp.	RLU	England		49.6	76.9		50	99.25	98.5	100
Royal Preston Hosp.	RPH	England		91.3	94.9		41.85	88.15	96	77.1
Royal Surrey County Hosp.	RSU	England		60.15	82.75	46.525	14.85	72.75	96.6	42.1
Royal Sussex County Hosp.	RSC	England		99.9	92.05	92.54	99.9	95.7	91.45	83.5
Royal United Hosp. Bath	BAT	England		99.05	97.975		74.5	99.05	98.55	95.1
Russells Hall Hosp.	RUS	England		97.6	98.025	89.14	97.3	96.6	94.25	93.3
Salford Royal Hosp.	SLF	England		99.75	100		100	100	100	92.1
Salisbury District Hosp.	SAL	England		99.35	99.55	99.08	96.5	99.8	99.35	96.8
Scarborough Hosp.	SCA	England		56.4	89.075		47.6	99.8	99.6	98.9
Scunthorpe Gen. Hosp.	SCU	England		98.3	81.575		31.35	98.3	98.3	100
Solihull Hosp.	SOL	England		99.5	99.875	85	98.75	100	98.4	98.1

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
South Tyneside District Hosp.	STD	England		97.85	99.425		0	95.7	96.6	98
Southampton Gen. Hosp.	SGH	England		96.85	99.825	86.38	98.6	99.95	92.15	94.7
Southend Univ. Hosp.	SEH	England		100	97.8		95.85	94.45	93.9	90.3
Spire Bristol	GHB	England	Private	47.2	98.675	87.5	0	93.05	91.7	95.7
Spire Hosp. Cardiff	SPC	Wales	Private	50	100	100	33.3	100	100	100
Spire Hull And East Riding Hosp.	HBP	England	Private	57.15	97.725	90	96.15	100	100	100
Spire Leeds Hosp.	LEB	England	Private	50	91.675	75	0	100	100	33.3
Spire Southampton Hosp.	CBS	England	Private	51.55	100	71.425	2.1	98.45	100	100
St Anthonys Hosp.	ANT	England	Private	38.05	97.825	33.325	0.9	95.5	98.5	86.8
St Georges Hosp.	GEO	England		96.5	99.175	95.68	94	97.85	98.2	92.1
St Marys Hosp. Isle Of Wight	IOW	England		94.85	98.125		0	97.45	98.7	94.8
St Peters Hosp.	SPH	England		99.7	100	99	100	100	100	99.6
St Richards Hosp.	STR	England		96.6	97.75	84.04	45.4	93.8	95.4	89.3
St Thomas Hosp.	STH	England		97.25	99.15	78.94	81.45	99.8	99.1	98
Stepping Hill Hosp.	SHH	England		100	84.825		31.25	79.15	95	40.4
Tameside Hosp.	TGA	England		95.25	97.925		22.95	94.85	99.4	96.8
The Great Western Hosp.	PMS	England		99.75	99.675	99.22	99.7	99.7	99.6	94.7
The Ipswich Hosp.	IPS	England		100	100		97.55	99.35	100	98.8
The James Cook Univ. Hosp.	SCM	England		99.8	99.95	99.94	100	96.3	99.75	99
The Princess Royal Univ. Hosp. Bromley	BRO	England		96.35	98.975		57	45.25	99.4	9
The York Hosp.	YDH	England		58.75	92.725	77.02	49.55	95.35	99.1	90.2
Torbay Hosp.	TOR	England		65.45	99.625	87.64	95.5	99.2	98.7	95.5
Trafford Gen. Hosp.	TRA	England		91.1	89.425		58.75	86.65	97.8	82.1
Univ. Hosp. Coventry	WAL	England		99.75	88.875	64.84	99.55	98.45	94.7	89.6
Univ. Hosp. Of Hartlepool	HGH	England		98.95	99.875	75	96.6	100	99.85	98.6
Univ. Hosp. Of North Durham	DRY	England		100	100		100	100	100	100
Univ. Hosp. Of North Staffs	STO	England		97.85	99.9	95.36	98.5	99.6	99.2	96.5
Univ. Hosp. Of Wales	UHW	Wales		58.45	99.775	87.26	98.3	99.1	99.05	91.6
Victoria Hosp. Kirkcaldy	KIR	Scotland		96	97.575	50	71.75	96.95	98.8	95
Walsall Manor Hosp.	WMH	England		59.9	92.25	84.52	60.7	98.15	97.3	94.2

Hosp.	Hosp code	Region	Category	Demographics	Clinical (basic)	Clinical (complex)	GMC	Procedure details	Generator details	Validity (generator)
Wansbeck Gen. Hosp.	ASH	England		73.65	98.225	87.82	34.8	99.3	97.2	95.5
Warrington Hosp.	WDG	England		90.7	96.125		59.3	99.05	98.7	99.4
Warwick Hosp.	WAR	England		95.55	88.325	86.34	8.2	76.35	98.5	58.9
Watford Gen. Hosp.	WAT	England		97.95	99.925	82.2	95.5	98.85	98.5	98.2
Wellington Hosp. North	HHW	England	Private	46.25	100	99.16	99.35	100	97.3	99.3
Westmoreland Gen. Hosp.	WGK	England		94.75	83.725	90.95	47.1	74.6	98	51.6
Weston Gen. Hosp.	WGH	England		90.65	75		0	96.9	93.8	90.9
Wexham Park Hosp.	WEX	England		99.2	83.2	96.94	99.9	100	98.35	99.8
Whipps Cross Univ. Hosp.	WHC	England		95.65	99.55		61.6	98.55	98.05	88.5
Whiston Hosp.	WHI	England		97.55	75.5		83.5	95.3	96.75	93.7
William Harvey Hosp.	WHH	England		58	96.425	82.92	68.7	90.8	99.15	79.5
Worcestershire Royal Hosp.	WRC	England		91.2	99.025	98.74	92.5	97.2	99.4	91.2
Worthing Hosp.	WRG	England		99.8	98.875	92.08	48.35	100	100	97.9
Wycombe Hosp.	AMG	England		99.85	98.65	100	99.7	99.55	99.1	95.8
Wythenshawe Hosp.	WYT	England		99.85	75	75	99.9	91.2	98.6	49.9
Yeovil District Hosp.	YEO	England		77	93.1		0.3	88.8	98	76.8
Yorkshire Clinic	YKC	England	Private	43.75	93.75		62.5	96.9	100	93.3