

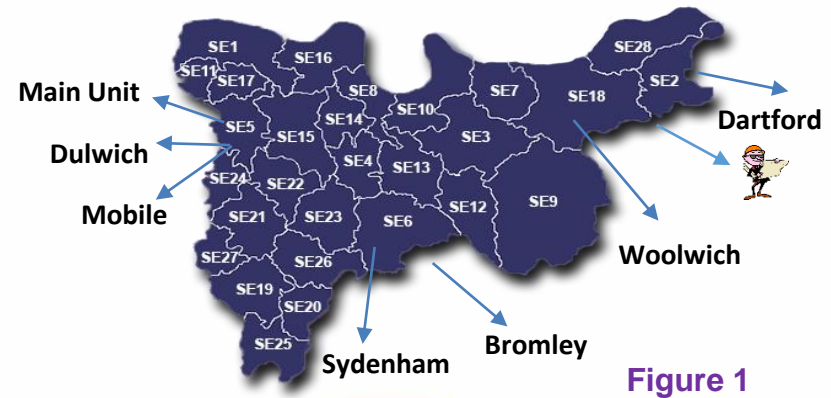
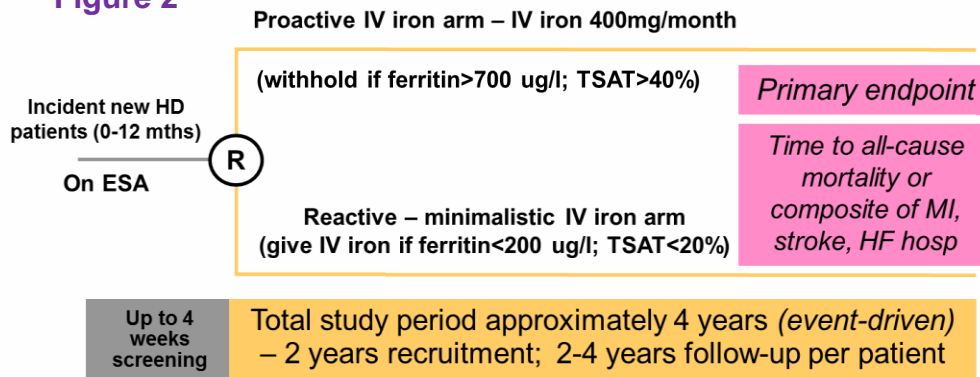
DELIVERING A LARGE RENAL STUDY ACROSS MULTIPLE SATELLITE DIALYSIS UNITS

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BACKGROUND

High quality clinical studies are necessary to improve healthcare in patients. Conducting research in dialysis patients in the UK can be problematic since majority of them are managed in satellite dialysis units, geographically distinct from the mother (Fig 1) unit which creates a challenge for researchers that does not exist in other medical specialities.

Figure 2



Sample size = 2080

PIVOTAL

Proactive IV irOn Therapy in haemodialysis patients

Queen Elizabeth Hospital
Birmingham **NHS**
NHS Foundation Trust

Altnagelvin Area Hospital
HSC Western Health
and Social Care Trust

Ninewells Hospital
and Medical School **NHS**
Tayside

Gloucestershire
Hospitals **NHS**
NHS Foundation Trust

Daisy Hill Hospital **HSC**
(Northern Ireland)

City General Hospital, Stoke
University Hospital of
North Staffordshire **NHS**
NHS Trust

The Newcastle Upon
Tyne Hospitals **NHS**
NHS Foundation Trust

Southend
University Hospital **NHS**
NHS Foundation Trust

Central Manchester University Hospitals **NHS**
NHS Foundation Trust

Royal Shrewsbury Hospital
The Shrewsbury and
Telford Hospital **NHS**
NHS Trust

www.kidneyresearchuk.org

NHS
Royal Cornwall
Hospitals
NHS Trust

Aintree
University
Hospital **NHS**
NHS Foundation Trust

Victoria Hospital **NHS**
Kirkcaldy **NHS**
Fife

University Hospitals
of Wales **NHS**
NHS Wales
GIG
CYMRU

Royal Preston Hospital
Lancashire Teaching
Hospitals **NHS**
NHS Foundation Trust

The Royal Liverpool and
Broadgreen University Hospitals
NHS Trust

Basildon and Thurrock
University Hospital **NHS**
NHS Foundation Trust

Royal Sussex County Hospital
Brighton and Sussex
University Hospitals **NHS**
NHS Trust

Morrison Hospital

Queen Alexandra Hospital
Portsmouth Hospitals **NHS**
NHS Trust

Plymouth Hospitals **NHS**
NHS Trust

New Cross Hospital
The Royal Wolverhampton Hospitals **NHS**
NHS Trust

University Hospitals
Coventry and Warwickshire
st **NHS**

University Hospitals
of Leicester **NHS**
NHS Trust

Royal Devon
and Exeter
NHS Foundation Trust **NHS**

Edinburgh
Royal Infirmary **NHS**
SCOTLAND

Salford Royal **NHS**
NHS Foundation Trust

Birmingham **NHS**
Heartlands Hospital
NHS Foundation Trust

St George's University Hospitals **NHS**
NHS Foundation Trust

Hammersmith Hospital **NHS**
Western Infirmary **NHS**
Greater Glasgow
and Clyde

Norfolk and Norwich
University Hospitals **NHS**
NHS Foundation Trust

Bradford Teaching
Hospitals **NHS**
NHS Foundation Trust

Epsom and
St Helier
University
Hospitals **NHS**

University Hospitals
of Leicester **NHS**
NHS Trust

Royal London Hospital
NHS
NHS Foundation Trust

Royal Free London
NHS Foundation Trust **NHS**

St James's University Hospital
The Leeds Teaching Hospitals **NHS**
NHS Trust

Wirral University Teaching Hospital **NHS**
NHS Foundation Trust

Antrim Area Hospital
HSC Northern Health
and Social Care Trust

King's College Hospital **NHS**
NHS Foundation Trust

Nottingham
University Hospital **NHS**
NHS Trust

Lister Hospital
East and North
Hertfordshire **NHS**
NHS Trust

Belfast City Hospital
(Northern Ireland) **HSC** Belfast Health and
Social Care Trust

Hull and
East Yorkshire
Hospitals **NHS**
NHS Trust

Churchill Hospital
Oxford
University
Hospitals **NHS**
NHS Trust

Sheffield Teaching Hospitals **NHS**

Royal Berkshire **NHS**
The Leeds Teaching Hospitals **NHS**
NHS Trust

Southmead Hospital
NHS
North Bristol
NHS Trust

Guy's and St Thomas' **NHS**
NHS Foundation Trust **NHS** **NHS**

East Kent
Hospitals University
NHS Foundation Trust



Registered Charity No: 252892 Registered Scottish Charity No: SC039243

METHODS



Challenges:

- Recruitment
- Potential participants
- Blood sampling and dosing
- Synchronising Principal Investigator and Sub-Investigator's and patient availability
- Data collection and data entry

Strategies:

- Delivery of study trial in satellite units
- Identification of “link nurses”
- Regular communication with satellite unit managers and link nurses
- Regular visits to satellite units
- Implementation of Telephone consenting process
- Regular telephone conferences
- Support from Kidney Research UK

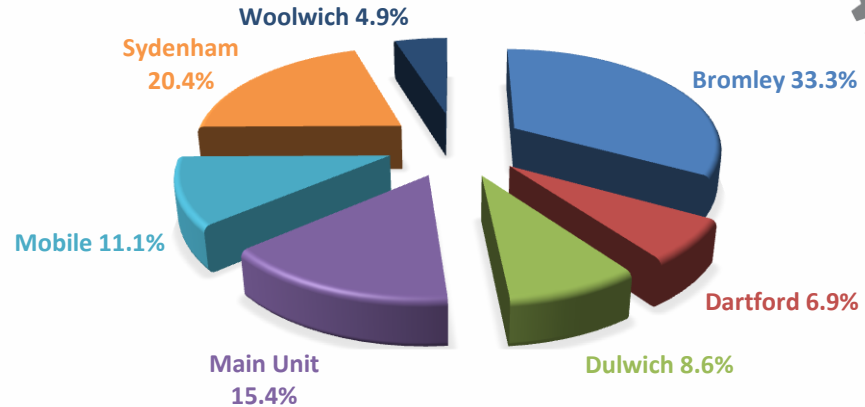
SITES RECRUITMENT FIGURES (Figure 4)

		screened	randomised	
1	King's College Hospital	162	144	
2	Queen Alexandra Hospital, Portsmouth	125	103	
3	Kent & Canterbury Hospital	116	96	
4	Sheffield Teaching Hospital	103	86	
5	Guy's Hospital	96	81	
6	St Helier Hospital	98	79	
7	Salford Royal Hospital	93	79	
8	Royal London Hospital	96	77	
9	Churchill Hospital, Oxford	76	71	
10	St George's Hospital	80	70	
11	Freeman Hospital, Newcastle	70	62	
12	University Hospital, Cardiff	92	60	
13	Royal Liverpool Hospital	10-Jun-14	70	60
14	Lister Hospital	19-Feb-14	81	59
15	Hull Royal Infirmary	26-Feb-14	68	59
16	Southmead Hospital, Bristol	15-Oct-14	63	59
17	Manchester Royal Infirmary	27-Jun-14	73	58
18	Nottingham City Hospital	20-May-14	65	55
19	Western Infirmary Glasgow	08-Jul-14	76	53
20	University Hospital Aintree	27-Mar-14	70	53
21	Heartlands Hospital, Birmingham	19-Mar-14	71	50
22	Royal Devon & Exeter	09-Apr-14	54	50
23	Leicester General Hospital	29-Nov-13	67	48
24	Queen Elizabeth Hospital, Birmingham	24-Dec-13	47	45
25	Hammersmith Hospital	10-Jul-14	56	41
26	City General Hospital, Stoke	27-Mar-14	43	41
27	Royal Sussex County Hospital	15-Apr-15	49	40
28	Royal Free Hospital	09-May-14	53	39
29	Morrison Hospital, Wales	24-Jan-14	37	34
30	St James's Hospital, Leeds	14-Apr-14	34	32
31	Royal Shrewsbury Hospital	03-Feb-14	34	29
32	Royal Preston Hospital	29-Apr-14	39	27
33	New Cross Hospital, Wolverhampton	05-Jan-15	27	23
34	Norfolk & Norwich Hospital	12-Jan-15	23	21
35	Victoria Hospital, Kirkcaldy	30-May-14	28	19
36	Antrim Area Hospital, N.Ireland	30-Jun-15	18	17
37	Edinburgh, Royal Infirmary	14-Dec-15	17	17
38	Daisy Hill Hospital, N.Ireland	19-Feb-15	13	13
39	Bradford Teaching Hospital	01-Dec-14	14	12
40	Royal Cornwall Hospital	30-Apr-14	14	12
41	Belfast City Hospital	29-Apr-15	16	11
42	Basildon & Thurrock Hospital	29-Sep-15	11	10
43	Wirral University Hospital	14-Jul-14	11	10
44	Coventry University Hospital	08-Dec-14	14	9
45	Southend University Hospital	14-Jan-15	9	7
46	Gloucestershire Royal Hospital	08-Dec-14	8	6
47	Ninewells Hospital, Dundee	16-Apr-14	6	6
48	Altnagelvin Hospital, N. Ireland	26-Feb-16	14	4
49	Royal Berkshire, Reading	14-Mar-16	4	3
50	Derriford Hospital, Plymouth	12-Oct-15	2	2
		2606	2142	

162 patients were screened and 147 (90.7%) were randomised from our unit. 137 (84.5%) of the 162 patients were located in one of the 6 satellite units, with units contributing between 4.9% to 33.3% of the total population (Figure 2).

Figure 3

PATIENT DISTRIBUTION AT KING'S PARTICIPATING SITES



- Total No of patients screened – 2,606
- Total No of patients randomised – 2,142
- Withdrawal from the study treatment - 757
- Withdrawal from study consent - 86



CONCLUSION

Delivering a large renal studies across multiple satellite dialysis units is possible, but research staff need to be aware of the hurdles that require to be overcome. Strategies need to be implemented to overcome these hurdles in order for the study to be successful.



