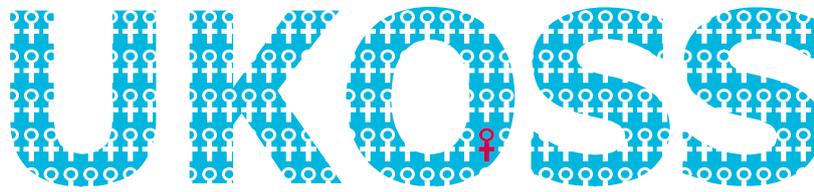




Royal College of  
Obstetricians  
and Gynaecologists



UK Obstetric Surveillance System



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## NEWSLETTER 32 - January 2013

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### Incidence and Risk Factors for Placenta Accreta/Increta/Percreta in the UK: A National Case-control Study

The results of the UKOSS Placenta Accreta/Increta/Percreta study will be published shortly. Placenta accreta/increta/percreta is associated with major pregnancy complications and is thought to be becoming more common. The aims of this study were to estimate the incidence of placenta accreta/increta/percreta in the UK and to investigate and quantify the associated risk factors.

A national case-control study using the UK Obstetric Surveillance System was undertaken, including 134 women diagnosed with and 256 control women.

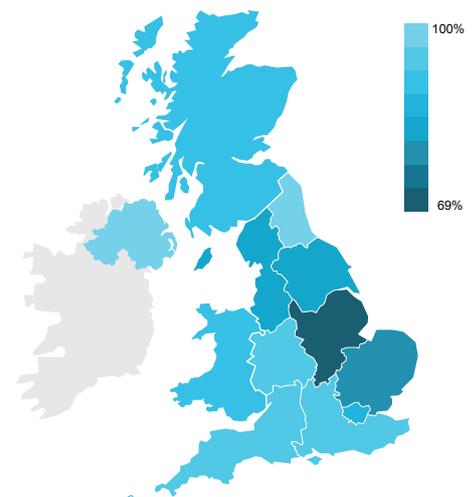
We identified 134 women with placenta accreta/increta/percreta between May 2010 and April 2011, giving an estimated incidence of 1.7 cases per 10,000 maternities overall. The incidence was over 300 times higher in women with both a previous caesarean delivery and placenta praevia; 577 per 10,000. Women who had a previous caesarean delivery (aOR) 14.41, 95%CI 5.63-36.85), other previous uterine surgery (aOR 3.40, 95%CI 1.30-8.91), an IVF pregnancy (aOR 32.13, 95%CI 2.03-509.23) and placenta praevia diagnosed antepartum (aOR 65.02, 95%CI 16.58–254.96) had raised odds of having placenta accreta/increta/percreta. There was also a raised odds of placenta accreta/increta/percreta associated with older maternal age in women without a previous caesarean delivery (aOR 1.30, 95%CI 1.13-1.50 for every one year increase in age).

The study shows that women with both a prior caesarean delivery and placenta praevia have a high incidence of placenta accreta/increta/percreta. There is thus a need to maintain a high index of suspicion of abnormal placental invasion in such women and make preparations for delivery accordingly.

**Reference:** Fitzpatrick KE, Sellers S, et al. The management and outcomes of placenta accreta/increta/percreta in the UK. PLoS One (in press – due for publication January 2013).



### UKOSS Regional Card Return Rates - Sept 2012 – Nov 2012



**Funding:** This study is representative of independent research commissioned by the National Institute for Health Research (NIHR) under its Programme Grants for Applied Research Programme (Grant Reference Number RP-PG-0608-10038). The views expressed are those of the author(s) and not necessarily those of the NHS, the NIHR or the Department of Health.

THIS MONTH

- New study – Pregnancy outcomes in women with artificial heart valves

- Myeloproliferative Disorders final reporting



## Thanks to the following hospitals who have returned cards for the last three months:

Aberdeen Maternity Hospital, Aberdeen  
Airedale General Hospital, Keighley  
Alexandra Hospital, Redditch  
Altnagalvin Area Hospital, Londonderry  
Antrim Hospital, Antrim  
Arowe Park Hospital, Wirral  
Barnet and Chase Farm Hospitals NHS Trust, Enfield  
Barnet General Hospital, Barnet  
Barnsley District General Hospital, Barnsley  
Basildon Hospital, Basildon  
Bassetlaw District General Hospital, Worksop  
Birmingham City Hospital, Birmingham  
Birmingham Heartlands Hospital, Birmingham  
Birmingham Women's Hospital, Birmingham  
Borders General Hospital, Borders  
Bradford Royal Infirmary, Bradford  
Bronglais Hospital, Aberystwyth  
Caithness General Hospital, Wick  
Causeway Hospital, Coleraine  
Chelsea & Westminster Hospital, London  
Chesterfield & North Derbyshire Royal Hospital, Chesterfield  
City Hospitals Sunderland NHS Trust, Sunderland  
Countess of Chester Hospital, Chester  
Craigavon Area Hospital, Portadown  
Daisy Hill Hospital, Newry  
Darent Valley Hospital, Dartford  
Darlington Memorial Hospital, Darlington  
Derby Hospitals NHS Foundation Trust, Derby  
Derriford Hospital, Plymouth  
Dewsbury and District Hospital, Dewsbury  
Diana Princess of Wales Hospital, Grimsby  
Doncaster Royal Infirmary, Doncaster  
Dorset County Hospital, Dorchester  
Dr Gray's Hospital, Elgin  
Dumfries & Galloway Royal Infirmary, Dumfries  
Ealing Hospital, London  
East Surrey Hospital, Redhill  
Epsom General Hospital, Epsom  
Erne Hospital, Enniskillen  
Forth Valley Royal Hospital, Larbert  
Friarage Hospital, Northallerton  
Frimley Park Hospital, Camberley  
George Eliot Hospital, Nuneaton  
Good Hope Hospital, Sutton Coldfield  
Harrogate District Hospital, Harrogate  
Hereford County Hospital, Hereford  
Hillingdon Hospital, Uxbridge  
Hinchingsbrooke Hospital, Huntingdon  
Hull Royal Infirmary, Hull  
Ipswich Hospital, Ipswich  
James Cook University Hospital, Middlesbrough  
James Paget Hospital, Great Yarmouth  
Jersey General Hospital, St Helier  
King George Hospital, Ilford  
King's Mill Hospital, Sutton in Ashfield  
Kingston Hospital, Kingston upon Thames  
Lancashire Women and Newborn Centre, Burnley  
Lincoln County Hospital, Lincoln  
Lister Hospital, Stevenage  
Luton & Dunstable Hospital, Luton  
Macclesfield District General Hospital, Macclesfield  
Manor Hospital, Walsall  
Mater Infirmorum Hospital, Belfast  
Medway Maritime Hospital, Gillingham  
Milton Keynes General Hospital, Milton Keynes  
Nevill Hall Hospital, Abergavenny  
New Cross Hospital, Wolverhampton  
Newham General Hospital, London  
Ninewells Hospital & Medical School, Dundee  
Norfolk & Norwich University Hospital, Norwich  
North Devon District Hospital, Barnstaple  
North Manchester General Hospital, Manchester  
North Middlesex Hospital, London  
Northampton General Hospital, Northampton  
Northwick Park Hospital, Harrow  
Peterborough City Hospital, Peterborough  
Poole Hospital, Poole  
Prince Charles Hospital, Methyr Tydfil  
Princess Alexandra Hospital, Harlow  
Princess Elizabeth Hospital, St Martins  
Princess Royal Hospital, Haywards Heath  
Princess Royal Maternity Hospital, Glasgow  
Queen Alexandra Hospital, Portsmouth  
Queen Charlotte's and Chelsea Hospital, London  
Queen Elizabeth Hospital, Gateshead  
Queen Elizabeth Hospital, London  
Queen Elizabeth the Queen Mother Hospital, Margate  
Queen's Hospital, Burton upon Trent  
Queen's Hospital, Romford  
Raigmore Hospital, Inverness  
Rosie Maternity Hospital, Cambridge  
Royal Albert Edward Infirmary, Wigan  
Royal Alexandra Hospital, Paisley  
Royal Berkshire Hospital, Reading  
Royal Bolton Hospital, Bolton  
Royal Cornwall Hospital, Truro  
Royal Devon & Exeter Hospital, Exeter  
Royal Gwent Hospital, Newport  
Royal Jubilee Maternity Service, Belfast  
Royal Oldham Hospital, Oldham  
Royal Preston Hospital, Preston  
Royal Surrey County Hospital, Guildford  
Royal United Hospital, Bath  
Royal Victoria Infirmary, Newcastle-upon-Tyne  
Russells Hall Hospital, Dudley  
Scarborough Hospital, Scarborough  
Scunthorpe General Hospital, Scunthorpe  
Simpson Centre for Reproductive Health, Edinburgh  
Singleton Hospital, Swansea  
South Tyneside District Hospital, South Shields  
Southend Hospital, Westcliff-on-Sea  
Southmead Hospital, Bristol  
St George's Hospital, London  
St Helier Hospital, Carshalton  
St John's Unit at Howden, Livingston  
St Mary's Hospital, Manchester  
St Michael's Hospital, Bristol  
St Peter's Hospital, Chertsey  
Staffordshire General Hospital, Stafford  
Stepping Hill Hospital, Stockport  
Stoke Mandeville Hospital, Aylesbury  
Tameside General Hospital Ashton-under-Lyne  
Taunton and Somerset Hospital, Taunton  
The Great Western Hospital, Swindon  
The Jessop Wing, Sheffield  
The Portland Hospital, London  
The Tunbridge Wells Hospital, Tunbridge Wells  
Torbay Hospital, Torquay  
Ulster Hospital, Belfast  
University College Hospital, London  
University Hospital Lewisham, London  
University Hospital of North Durham, Durham  
University Hospital of North Tees, Stockton-on-Tees  
University Hospital of Wales, Cardiff  
Victoria Hospital, Blackpool  
Victoria Hospital, Kirkcaldy  
Wansbeck General Hospital, Ashington  
Warrington Hospital, Warrington  
Warwick Hospital, Warwick  
Watford General Hospital, Watford  
West Cumberland Hospital, Whitehaven  
West Middlesex University Hospital, Isleworth  
West Suffolk Hospital, Bury St Edmunds  
West Wales General Hospital, Carmarthen  
Western Isles Hospital, Stornoway  
Wexham Park Hospital, Slough  
Whipps Cross University Trust Hospital, London  
Whiston Hospital, Prescot  
Whittington Hospital, London  
William Harvey Hospital, Ashford  
Withybush Hospital, Haverfordwest  
Worcestershire Royal Hospital, Worcester  
Worthing Hospital, Worthing  
Wrexham Maelor Hospital, Wrexham  
Wythenshawe Hospital, Manchester  
Yeovil Women's Hospital, Yeovil  
York Hospital, York  
Ysbyty Gwynedd District General Hospital, Bangor  
Ayrshire Maternity Unit, Kilmarnock  
Conquest Hospital, St Leonards-on-Sea  
Croydon University Hospital, Thornton Heath  
Cumberland Infirmary, Carlisle  
Eastbourne District General Hospital, Eastbourne  
Glan Clwyd District General Hospital, Rhyl  
Gloucestershire Royal Hospital, Gloucester  
Guy's and St Thomas' Hospital, London  
Homerton University Hospital, London  
Horton Hospital, Banbury  
John Radcliffe Hospital, Oxford  
Kettering General Hospital, Kettering  
King's College Hospital, London  
Leeds General Infirmary, Leeds  
Leicester Royal Infirmary, Leicester  
Liverpool Women's Hospital, Liverpool  
Nobles Hospital, Douglas  
Nottingham University Hospitals NHS Trust, Nottingham  
Pilgrim Hospital, Boston  
Princess Anne Hospital, Southampton  
Queen Elizabeth Hospital, Kings Lynn  
Rotherham District General Hospital, Rotherham  
Royal Free Hospital, London  
Royal Glamorgan Hospital, Llantrisant  
Royal Hampshire County Hospital, Winchester  
Royal Lancaster Infirmary, Lancaster  
Royal Shrewsbury Hospital, Shrewsbury  
Royal Sussex County Hospital, Brighton  
Salisbury District Hospital, Salisbury  
Southport & Ormskirk Hospital NHS Trust, Ormskirk  
St James's University Hospital, Leeds  
St Mary's Hospital, London  
St Mary's Hospital, Newport  
St Richard's Hospital, Chichester  
University Hospital of Coventry & Warwickshire, Coventry  
University Hospital of North Staffordshire, Stoke on Trent  
Wishaw General Hospital, Wishaw  
Bedford Hospital, Bedford  
Broomfield Hospital, Chelmsford  
Colchester General Hospital, Colchester  
Furness General Hospital, Barrow-in-Furness  
Leighton Hospital, Crewe  
North Hampshire Hospital, Basingstoke  
Princess of Wales Hospital, Bridgend  
Princess Royal University Hospital, Orpington  
Queen Elizabeth II Hospital, Welwyn Garden City  
Royal London Hospital, London  
Southern General Hospital, Glasgow  
Calderdale Royal Hospital, Halifax  
Leicester General Hospital, Leicester  
Nottingham City Hospital, Nottingham  
Pinderfields General Hospital, Wakefield

Returned all three cards. Returned two cards. Returned one card. No Cards Returned.



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## New study – Artificial Heart Valves in Pregnant Women

**Background:** Women with mechanical prosthetic heart valves require lifelong anticoagulation, usually with warfarin, to prevent valve thrombosis. During pregnancy their thrombotic risk increases, thus, the need for effective anticoagulation is greater. Warfarin treatment throughout pregnancy appears to have the lowest risk of maternal thrombotic complications<sup>1</sup> but is associated with a higher fetal loss rate and can have damaging effects on the fetus<sup>1</sup>. In contrast, unfractionated heparin or low molecular weight heparin are safe for the fetus, but doubts have been expressed about their efficacy in preventing maternal thrombotic complications<sup>2</sup>. The aim of this study is to provide population based estimates of the incidence of maternal and fetal complications with the different anticoagulant regimes in order to inform the future management of pregnant women with artificial valves and to help optimise outcomes for mother and baby.

**Surveillance Period:** 1st February 2013 – 31st January 2015

**Case definition:** All women with artificial mechanical prosthetic heart valves in the UK, who become pregnant during the study period, irrespective of the outcome of the pregnancy.

This includes any woman in whom one or more heart valves have been replaced with an artificial mechanical prosthetic heart valve eg Starr-Edwards ball in cage, Bjork-Shiley tilting disc or St Jude's bi-leaflet valve.

### EXCLUDED

Women with a bioprosthetic valve eg Carpentier-Edwards, Medtronic Intact or Hancock, women with a homograft or women who have had a valvotomy or valvoplasty (unless they also have an artificial mechanical prosthetic heart valve).

**Funding:** Wellbeing of Women

**Investigators:** Dr. Sarah Vause, Prof. Bernard Clarke, Dr. Clare Tower, Dr. Charles Hay, Central Manchester University Hospitals NHS Trust; Prof. Marian Knight, NPEU

### References:

- 1.Chan WS, Anand S, Ginsberg JS. Anticoaglation of pregnant women with mechanical heart valves: A systematic review of the literature . Arch Intern Med 2000; 160:191
- 2.Roberts N, Ross D, Flint SK, Arya R, Blott M. Thromboembolism in pregnant women with mechanical prosthetic heart valves anticoagulated with low molecular weight heparin. BJOG 2001; 108:327-9

## Case report summary for current studies up until December 2012

Disorder	Actual number of reported cases	Data collection forms returned (%)	Number of confirmed cases (%)	Expected number of confirmed cases
Adrenal Tumours	19	16 (84)	6 (38)	35
Amniotic Fluid Embolism*	165	157 (95)	112 (71)	94
Anaphylaxis*	4	0 (0)	0 (0)	5
Cardiac Arrest in Pregnancy (CAPS)	74	52 (72)	27 (52)	38
Gastric Banding in Pregnancy	189	139 (74)	82 (59)	128
Massive Transfusion	88	40 (45)	31 (78)	84
Myeloproliferative Disorders	79	65 (82)	42 (65)	146
Pituitary Tumours	107	101 (92)	75 (74)	138
Stage 5 Chronic Kidney Disease	19	8 (42)	3 (38)	34

**Funding:** \*This study represents independent research commissioned by the National Institute for Health Research (NIHR) under its Programme Grants for Applied Research Programme (Grant Reference Number RP-PG-0608-10038). The views expressed are those of the author(s) and not necessarily those of the NHS, the NIHR or the Department of Health.

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\*Search your app store for 'qrcode'



## UKOSS Myeloproliferative Disorders in Pregnancy

The Myeloproliferative Disorders in Pregnancy study is due to end this month. Please can all UKOSS reporters check that they have reported all cases of myeloproliferative disorder in pregnancy that occurred between the 1st January 2010 and 1st January 2013. Thank you

## Meet a UKOSS Reporter

**Melanie Workman**, the UKOSS/UKNeS Programme Manger, interviews Stephen Hiles.

Stephen Hiles works at Northwick Park Hospital as a Senior Information Analyst and has been reporting to UKOSS since 2009.

**MW:** Who is your employer and what is your job title?

**SH:** I am employed by North West London Hospitals NHS Trust as a Senior Information Analyst

**MW:** How long have you held this position?

**SH:** I have held this particular position for 8 months, although I have been at the trust for over 10 years now, employed in various roles including Healthcare and Midwifery Assistant, Birth Rate Plus Co-ordinator and Information Manager for Women's and Children's Services.

**MW:** What are the main duties/responsibilities of your current role?

**SH:** The main duties of my current role are to produce and maintain a number of dashboards for various departments within the trust. I also return data to a number of outside organisations including The Department of Health, The Health and Social Care Information Centre, local PCT's and Commissioning Partnerships as well as completing Freedom of Information enquiries and ad hoc queries from members of hospital staff. The most recent addition to my responsibilities is to participate in the Together To Improve Value Programme run by NHS London.

**MW:** What do you like best about your current job?

**SH:** The best aspect of my job is the variety of reports I produce and the knowledge I gain by completing them. I enjoy the challenge of producing data in different formats to suit the organisation or individual requesting it.

**MW:** What do you think is particularly good about your maternity unit?

**SH:** In my opinion the depth and breadth of experience, skills and expertise of the midwives and management make the maternity unit of Northwick Park outstanding.

**MW:** What aspects of being a UKOSS reporter do you most enjoy?

**SH:** Being a UKOSS reporter has given me valuable knowledge and insight especially when looking at unusual and complex pregnancies. When I complete the forms for a case I have reported I feel a sense of pride that the work I am doing could help to produce guidelines for these conditions in the future.

## Chocolate Box



Chocolates this month go to **Linda Edwards** from George Eliot Hospital, Nuneaton for timely return of cards and forms and **Julie Harland** from Taunton and Somerset Hospital for identifying outstanding gastric banding cases.

*Many thanks to you both!*

**MW:** Do you have any hobbies/what are your interests outside of work?

**SH:** One of my biggest interests outside work is cooking, I love to serve something new to the table and when my family give me a thumbs up its worth all the time and energy spent on it. Another interest is reading fantasy novels especially by Terry Pratchett, they're a great way to escape and wind down at the end of the day.

**MW:** How do you manage/co-ordinate the UKOSS reporting in your hospital?

**SH:** Through strategic time management and organisation the extra work load created by being a UKOSS reporter is achieved. I have regular meetings with one of our Consultant Obstetricians to discuss the cases that need to be reported. Then when I receive the forms I collect the medical files from the records department, review the files and extract the relevant data required before returning the completed forms to UKOSS.

**MW:** Would you recommend becoming a UKOSS reporter to others and why?

**SH:** I would strongly recommend becoming a UKOSS reporter to anyone as it gives a broader insight into the different ways information is collected and then used in order to produce guidelines for the benefit of future pregnancies. In addition to this the UKOSS reporter will be contributing to the improvements being made to the current health system.



Stephen Hiles - Northwick Park Hospital

Admin team: 01865 289714

Email: [UKOSS@npeu.ox.ac.uk](mailto:UKOSS@npeu.ox.ac.uk) Web: [www.npeu.ox.ac.uk/UKOSS](http://www.npeu.ox.ac.uk/UKOSS)

Studies are additionally funded by Wellbeing of Women, North Bristol NHS Trust, NHS Blood and Transplant, Lauren Page Charity and SPARKS.

