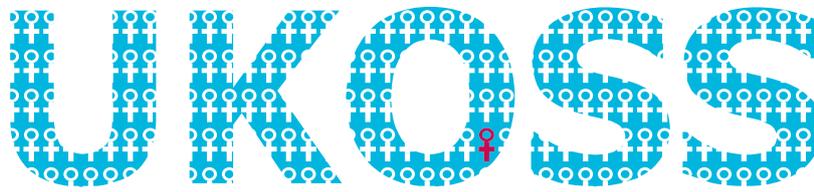




Royal College of  
Obstetricians  
and Gynaecologists



UK Obstetric Surveillance System



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## NEWSLETTER 45 - April 2016

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### Massive Transfusion Study Published

Postpartum haemorrhage (PPH) remains a common cause of maternal morbidity and mortality worldwide, however, little is known about the incidence, management and outcomes of women with severe PPH undergoing massive transfusion. The aims of this study were to ascertain the incidence of massive transfusion in obstetrics in the UK, and describe the current management practices and clinical outcome for these women.

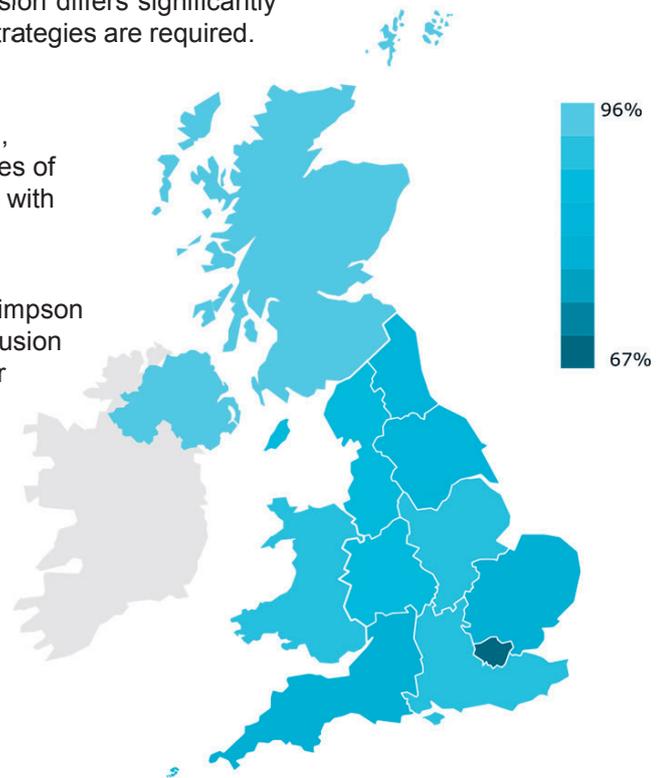
The study identified 181 women who had undergone massive transfusion, giving an estimated incidence of 23 per 100 000 maternities (95%CI 19–26). The median estimated blood loss was 6 l (interquartile range 4.5–8.0 l) and the principle causes of haemorrhage were uterine atony (40%), placental abnormalities (33%) and trauma including uterine rupture (19%). At presentation, the median platelet count was lowest for placenta accreta, compared with other causes, while the median prothrombin time and fibrinogen were <1.5 times normal and <3 g/l, respectively for all aetiologies. The median platelet count and fibrinogen fell to  $<75 \times 10^9 /l$  and  $<2 \text{ g/l}$ , respectively for all causes during bleeding, except for trauma. In total, 45% of women underwent hysterectomy; women with placenta accreta had the highest hysterectomy rate. Two women died, 82% were admitted to intensive care/high-dependency units, and 28% developed major morbidities.

This study showed that massive transfusion due to PPH is associated with high rates of morbidity and hysterectomy. The coagulopathy in women with PPH undergoing massive transfusion differs significantly depending on its cause, suggesting that more targeted transfusion strategies are required.

#### References:

Green L, Knight M, Seeney FM, Hopkinson C, Collins PW, Collis RE, Simpson N, Weeks A, Stanworth SS. The epidemiology and outcomes of women with postpartum haemorrhage requiring massive transfusion with eight or more units of red cells: a national cross-sectional study. BJOG 2015 (Epub ahead of print).

Green L, Knight M, Seeney F, Hopkinson C, Collins PW, Collis RE, Simpson NA, Weeks A, Stanworth SJ. The haematological features and transfusion management of women who required massive transfusion for major obstetric haemorrhage in the UK: a population based study. Br J Haematol. 2015 (Epub ahead of print).



UKOSS Regional Card Return Rates Map  
December 2015 – February 2016

### The UKOSS Annual Report is going electronic!

From July 2016 the annual report will be published electronically via the UKOSS website and Twitter with a very limited number of printed copies available on request. Please note that all UKOSS reporters will continue to receive the report via email

THIS MONTH

- New study: Zika Virus in Pregnancy
- Meet a UKOSS reporter



Thanks to the following hospitals who have returned cards for December 2015, January and February 2016:

Aberdeen Maternity Hospital, Aberdeen  
Airedale General Hospital, Keighley  
Altnagelvin Area Hospital, Londonderry  
Antrim Hospital, Antrim  
Ayrshire Maternity Unit, Kilmarnock  
Barnet and Chase Farm NHS Trust Maternity Unit, Barnet  
Basildon Hospital, Canvey Island  
Bassetlaw District General Hospital, Worksop  
Birmingham Heartlands Hospital, Birmingham  
Birmingham Women's Hospital, Birmingham  
Borders General Hospital, Borders  
Bradford Royal Infirmary, Bradford  
Bronglais Hospital,  
Broomfield Hospital, Chelmsford  
Caithness General Hospital, Wick  
Calderdale Royal Hospital, Halifax  
Causeway Hospital, Coleraine  
Chesterfield & North Derbyshire Royal Hospital, Chesterfield  
City Hospitals Sunderland NHS Trust, Sunderland  
Countess of Chester Hospital, Chester  
Craigavon Area Hospital, Portadown  
Croydon University Hospital, Thornton Heath  
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  
Forth Valley Royal Hospital, Larbert  
Frimley Park Hospital, Camberley  
George Eliot Hospital, Nuneaton  
Glan Clwyd District General Hospital, Bodelwyddan  
Gloucestershire Royal Hospital, Gloucester  
Good Hope Hospital, Sutton Coldfield  
Guy's and St Thomas' Hospital, London  
Harrogate District Hospital, Harrogate  
Hinchingsbrooke Hospital NHS Trust, Huntingdon  
Homerton University Hospital, London  
Hull Royal Infirmary, Hull  
Ipswich Hospital, Ipswich  
James Cook University Hospital, Middlesbrough  
James Paget University Hospitals Trust, Great Yarmouth  
Jersey General Hospital, St Helier  
Kettering General Hospital, Kettering  
King's College Hospital, London  
King's Mill Hospital, Sutton in Ashfield  
Leighton Hospital, Crewe  
Lincoln County Hospital, Lincoln  
Lister Hospital, Stevenage  
Liverpool Women's Hospital, Liverpool  
Macclesfield District General Hospital, Macclesfield  
Manor Hospital, Walsall  
Medway Maritime Hospital, Gillingham  
Milton Keynes Hospital NHS Foundation Trust, Milton Keynes  
Nevill Hall Hospital, Abergavenny  
Ninewells Hospital & Medical School, Dundee  
Nobles Hospital, Douglas  
Norfolk & Norwich University Hospital, Norwich  
North Devon District Hospital, Barnstaple  
North Manchester General Hospital, Manchester  
Northampton General Hospital, Northampton  
Northwick Park Hospital, Harrow  
Nottingham City Hospital, Nottingham

Peterborough City Hospital, Peterborough  
Pilgrim Hospital, Boston  
Pinderfields General Hospital, Wakefield  
Poole Hospital, Poole  
Prince Charles Hospital, Methyr Tydfil  
Princess Alexandra Hospital, Harlow  
Princess Anne Hospital, Southampton  
Princess Elizabeth Hospital, St Martins  
Princess Royal Hospital, Telford  
Queen Charlotte's and Chelsea Hospital, London  
Queen Elizabeth Hospital, Gateshead  
Queen Elizabeth Hospital, Kings Lynn  
Queen Elizabeth Hospital, London  
Queen Elizabeth the Queen Mother Hospital, Margate  
Queen's Medical Centre, Nottingham  
Raigmore Hospital, Inverness  
Royal Albert Edward Infirmary, Wigan  
Royal Alexandra Hospital, Paisley  
Royal Cornwall Hospital, Truro  
Royal Devon & Exeter Hospital, Exeter  
Royal Glamorgan Hospital, Llantrisant  
Royal Oldham Hospital, Oldham  
Royal Preston Hospital, Preston  
Royal Surrey County Hospital, Guildford  
Royal Sussex County Hospital, Brighton  
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 NHS Foundation Trust, South Shields  
South West Acute Hospital, Enniskillen  
Southend University Hospital NHS FT, Westcliff-on-Sea  
Southern General Hospital, Glasgow  
Southmead Hospital, Bristol  
St Helier Hospital, Carshalton  
St James's University Hospital, Leeds  
St John's Hospital, Livingston  
St Mary's Hospital, London  
St Mary's Hospital, Manchester  
St Mary's Hospital, Newport  
St Michael's Hospital, Bristol  
St Peter's Hospital, Chertsey  
St Richard's Hospital, Chichester  
Stoke Mandeville Hospital, Aylesbury  
Taunton and Somerset Hospital, Taunton  
The Great Western Hospitals NHS Foundation Trust, Swindon  
The Hillingdon Hospitals NHS Foundation Trust, Uxbridge  
The Portland Hospital, London  
The Tunbridge Wells Hospital, Tunbridge Wells  
Torbay Hospital, Torquay  
Ulster Hospital, Belfast  
University Hospital Lewisham, London  
University Hospital of Coventry & Warwickshire, Coventry  
University Hospital of North Durham, Durham  
University Hospital of North Staffordshire, Stoke on Trent  
University Hospital of North Tees, Stockton-on-Tees  
University Hospital of Wales, Cardiff  
Victoria Hospital, Blackpool  
Victoria Hospital, Kirkcaldy  
Wansbeck General Hospital, Ashington  
Warrington and Halton Hospitals NHS FT, Warrington  
Warwick Hospital, Warwick

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  
Whiston Hospital, Prescot  
William Harvey Hospital, Ashford  
Wishaw General Hospital, Wishaw  
Worcestershire Royal Hospital, Worcester  
Wrexham Maelor Hospital, Wrexham  
Yeovil Women's Hospital, Yeovil  
York Hospital, York  
Ysbyty Gwynedd District General Hospital, Bangor  
Birmingham City Hospital, Birmingham  
Chelsea & Westminster Hospital, London  
East Surrey Hospital, Redhill  
East Sussex Healthcare NHS Trust, St Leonards-on-Sea  
Epsom General Hospital, Epsom  
Furness General Hospital, Barrow-in-Furness  
Horton Maternity Hospital, Banbury  
Kingston Hospital, Kingston upon Thames  
Leicester General Hospital, Leicester  
Luton & Dunstable Hospital, Luton  
New Cross Hospital, Wolverhampton  
North Hampshire Hospital, Basingstoke  
Princess of Wales Hospital, Bridgend  
Princess Royal Hospital, Haywards Heath  
Princess Royal Maternity Hospital, Glasgow  
Queen's Hospital, Burton upon Trent  
Queen's Hospital, Romford  
Rosie Maternity Hospital, Cambridge  
Royal Berkshire Hospital, Reading  
Royal Bolton Hospital, Bolton  
Royal Lancaster Infirmary, Lancaster  
Royal United Hospital, Bath  
Southport & Ormskirk Hospital NHS Trust, Ormskirk  
St George's Hospital, London  
Stepping Hill Hospital, Stockport  
Tameside General Hospital, Ashton-under-Lyne  
Whittington Hospital, London  
Worthing Hospital, Worthing  
Arrowe Park Hospital, Wirral  
Barnsley Hospital NHS Foundation Trust, Barnsley  
Bedford Hospital, Bedford  
Hereford County Hospital, Hereford  
John Radcliffe Hospital, Oxford  
Lancashire Women and Newborn Centre, Burnley  
Queen Alexandra Hospital, Portsmouth  
Royal Free Hospital, London  
Royal Gwent Hospital, Newport  
Royal Hampshire County Hospital, Winchester  
Royal Jubilee Maternity Service, Belfast  
Salisbury District Hospital, Salisbury  
University College Hospital, London  
Watford General Hospital, Watford  
Wythenshawe Hospital, Manchester  
Colchester General Hospital, Colchester  
Cumberland Infirmary, Carlisle  
Leeds General Infirmary, Leeds  
Leicester Royal Infirmary, Leicester  
Newham General Hospital, London  
North Middlesex University Hospital, Edmonton  
Princess Royal University Hospital, Orpington  
Rotherham District General Hospital, Rotherham  
Royal London Hospital, London  
The Jessop Wing, Sheffield  
Whipps Cross University Trust Hospital, London

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



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# New UKOSS study has started!

## Zika Virus in Pregnancy: how to report

A new UKOSS study on Zika virus in pregnancy began in March 2016. The reporting for this study is slightly different to other UKOSS studies.

On each monthly report card, reporters are requested to report **the numbers** of women in their unit who fall into each of the following categories:

1. Any pregnant woman with a history of travel to a country with active Zika virus transmission during pregnancy or 4 weeks before conception and no adverse pregnancy outcome.
2. Any pregnant woman with a history of travel to a country with active Zika virus transmission during pregnancy or 4 weeks before conception where there has been an adverse pregnancy outcome, such as a fetal abnormality, miscarriage, stillbirth, neonatal death or termination of pregnancy.

**Please note that reporters will only be requested to complete a data collection form for those women who did experience adverse pregnancy outcomes.**

You will have recently received the first card featuring Zika reporting, which looks like this:

If you have any queries, then please don't hesitate to get in touch with the UKOSS team at [ukoss@npeu.ox.ac.uk](mailto:ukoss@npeu.ox.ac.uk)

**UKOSS Report Card**  
 United Kingdom Obstetric Surveillance System March 2016

Nothing to report

 DEMO

Please specify the number of cases seen this month:

<input type="checkbox"/> Amniotic Fluid Embolism	<input type="checkbox"/> Aspiration in Pregnancy
<input type="checkbox"/> Breast Cancer in Pregnancy	<input type="checkbox"/> Cystic Fibrosis in Pregnancy
<input type="checkbox"/> Epidural Haematoma or Abscess	<input type="checkbox"/> Epilepsy in Pregnancy
<input type="checkbox"/> Gastric Bypass in Pregnancy	<input type="checkbox"/> Pulmonary Embolism
<input type="checkbox"/> Spontaneous Haemoperitoneum in Pregnancy (SHiP)	

**Zika Virus in Pregnancy:**

<input type="checkbox"/> No. of pregnant women with travel history to a Zika affected area: <b>No</b> adverse pregnancy outcome	<input type="checkbox"/> No. of pregnant women with travel history to a Zika affected area: <b>Adverse</b> pregnancy outcome
---	--

*Please inform UKOSS@npeu.ox.ac.uk of any changes in reporter*

## Epilepsy study: identifying controls

The Epilepsy study is a case-control study and we will soon be requesting data for the controls. Reporters will be asked to complete data collection forms for the first two women who deliver in their unit in **June 2016** who have epilepsy but do not meet the criteria for UKOSS cases. We will shortly be circulating further information regarding the identification of controls; however in the meantime, please contact [ukoss@npeu.ox.ac.uk](mailto:ukoss@npeu.ox.ac.uk) if you have any queries.



## Case report summary for current studies up until the end of Feb 2016

Disorder	Actual number of reported cases	Data collection forms returned (%)	Expected number of confirmed cases
Amniotic Fluid Embolism	223	214 (96)	133
Aspiration in Pregnancy	13	11 (85)	37
Breast Cancer	21	9 (43)	25
Cystic Fibrosis	53	41 (77)	52
Epidural Haematoma or Abscess	15	12 (80)	4
Epilepsy in Pregnancy	111	57 (51)	210
Gastric Bypass in Pregnancy	307	250 (81)	69
Pulmonary Embolism	201	139 (69)	150
SHiP	1	1 (100)	2

### Read more online

To read this on your phone or to access our complete archive:  
 Open the BARCODE READER APP\* on your phone and scan the code here

\*Search your app store for 'qrcode'



# Meet longstanding UKOSS reporter, Anne-Marie Whiting

## Who is your employer and what is your job title?

I am employed part time by Torbay and South Devon NHS Foundation Trust and I am employed as the Clinical Governance Coordinator for Obstetrics and Gynaecology.

## Can you give a brief summary of your career to date?

I undertook my midwifery training in Exeter in 1988, and came to work at Torbay after qualifying. I initially worked on the special care baby unit whilst waiting for a midwifery vacancy. I have worked in both hospital and community settings within the Trust. I was involved in setting up the first pilot team midwifery in 1992. I became a supervisor of midwives in 1998, and I have been in my current post since 2002.

## What are the main duties/responsibilities of your current role?

I have a very varied role I manage all the clinical incidents, undertake serious case reviews, and manage the review of all the policies and guidelines. I coordinate audit, complaints and litigation in the department. I lead the review of National reports and NICE guidance. I am also the contact Supervisor of Midwives.

## What do you enjoy most about your current job?

I work within a very supportive team of midwives, medical staff, and also the administrative support team. I share an office with three Matrons and we have a great camaraderie. The trust values the role and I have two midwives who support, Jo Blacker who is an audit midwife and Helen Saad who also works one day in Clinical Governance with me.

## How does being a UKOSS reporter add to your role at work (if at all)?

Being in this role for this amount of time I have reported and investigated many of the studies that UKOSS have undertaken. I have investigated maternal deaths into some of the rare direct causes, and seen the learning come into practice from the studies. Reading around the new studies also gives me a new understanding of the rare conditions.

## How long have you been a UKOSS reporter?

I have been a UKOSS reporter since its inception!

## How do you manage/co-ordinate the UKOSS reporting in your hospital?

We are a relatively small unit with approximately 2500 deliveries a year, however Torbay is the most deprived council in the south west which brings with it many other socio economic challenges. I receive the "blue cards" and through our regular case reviews and meetings am able to identify cases. We have the UKOSS posters up in the antenatal clinic and inform all midwifery and medical colleagues both obstetric and anaesthetic of the studies. I respond to requests when cases are low in numbers via email to the individual teams. Jo and Helen support me so between us we strive to identify cases, and complete the forms timely and thoroughly!

## Would you recommend becoming a UKOSS reporter to others and why?

I would definitely recommend it. It alerts you to present studies, and it's really rewarding seeing the study results. Ultimately you are helping to improve the outcome for women and their babies. Oh yes, and great for nursing and midwifery revalidation!

## Do you have any hobbies/what are your interests outside of work?

I swim (quite well), and play tennis (not so well) regularly. I also enjoy walking around the South Devon coastline, and I am in the process of trying to complete all the sections of the South West Coast Path. I enjoy reading and always have a book on the go.



## Gastric Bypass

This study has now ended. Please can all UKOSS reporters check that they have reported all cases of women delivering between 1st April 2014 and 1st April 2016 following gastric bypass surgery, and ensure that any outstanding data collection forms are completed and returned as soon as possible. Thank you.

## Chocolate Box



Chocolates this month go to Mrs Sally Budgen at Royal Cornwall Hospital and Ms Susan Weekes/Judith Lowther at Bradford Royal Infirmary for timely return and accurate completion of cards and data collection forms.

*Many thanks to you both!*



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Studies are additionally funded by Wellbeing of Women, National Institute for Academic Anaesthesia - OAA Grant, North Bristol Hospitals NHS Trust, Betsi Cadwaladr University Health Board (BCU HB) and NIHR HTA.

