

Obstetricians and Gynaecologists





NEWSLETTER 42 - July 2015

Pregnancy outcome in patients with sickle cell disease in the UK - a national cohort study comparing sickle cell anaemia (HbSS) with HbSC disease

The results of the UKOSS Sickle Cell Disease Study have now been published. Historical data suggest that sickle cell disease (SCD) in pregnancy is associated with a high incidence of maternal and fetal complications; however there have been few recent studies and there is a lack of knowledge about fetal and maternal outcomes and management of women with SCD. The objectives of this study were to describe maternal and fetal outcomes of SCD in pregnancy in the UK and to compare outcomes in the two most common genotypes, HbSS and HbSC using UKOSS.

One hundred and nine pregnancies in women with SCD were reported over one year; the majority (88%) were Black Caribbean or Black African women. 51 women (47%) had HbSS and 44 (40%) had HbSC. It was found that women with HbSS were significantly more likely than women with HbSC to receive a transfusion during pregnancy (43% vs. 7%), have a painful crisis during pregnancy (77% vs. 27%) or postnatally (22% vs. 2%), and to be admitted to an intensive care unit (29% vs. 11%).

Severe or extreme crises (requiring hospital attendance or admission) occurred in 18% of women with HbSS and 9% of women with HbSC (P = 0.23). Acute Chest Syndrome was seen in both HbSS and HbSC (10% vs. 5%, P = 0.3). Women with HbSS were more likely to deliver at <37 weeks gestation (P = 0.01). Delivery at <34 weeks was increased in both HbSS and HbSC women (6% vs. 5%) compared to national data.

This study confirms a high rate of maternal and fetal complications in mothers with SCD, even in women with HbSC, which has previously been considered to have a more benign phenotype in pregnancy.

Reference: Oteng-Ntim E, Ayensah B, Knight M, Howard J. Pregnancy outcome in patients with sickle cell disease in the UK – a national cohort study comparing sickle cell anaemia (HbSS) with HbSC disease. British Journal of Haematology. 2015;169(1):129-37.



THIS MONTH

UKOSS Regional Card Return Rates Map March 2015 to May 2015

New studies coming soonMeet one of our researchers



100%

Thanks to the following hospitals who have returned cards for February, March and April 2015:

Aberdeen Maternity Hospital, Aberdeen Airedale General Hospital, Keighley Alexandra Hospital, Redditch Altnagelvin Area Hospital, Londonderry Ayrshire Maternity Unit, Kilmarnock Barnet and Chase Farm NHS Trust Maternity Unit. Barnet Basildon Hospital, Canvey Island Bassetlaw District General Hospital, Worksop Bedford Hospital, Bedford Birmingham Heartlands Hospital, Birmingham Birmingham Women's Hospital, Birmingham Borders General Hospital, Borders Bradford Royal Infirmary, Bradford Bronglais Hospital, Aberystwyth Broomfield Hospital, Chelmsford Caithness General Hospital, Wick Calderdale Royal Hospital, Halifax 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 Croydon University Hospital, Thornton Heath Daisy Hill Hospital, Newry Darent Valley Hospital, Dartford 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 NHS Trust, London East Sussex Healthcare NHS Trust, St Leonards-on-Sea Epsom General Hospital, Epsom Forth Valley Royal Hospital, Larbert Frimley Park Hospital, Camberley Furness General Hospital, Barrow-in-Furness George Eliot Hospital, Nuneaton Gloucestershire Royal Hospital, Gloucester Good Hope Hospital, Sutton Coldfield Harrogate District Hospital, Harrogate Hinchingbrooke Hospital NHS Trust, Huntingdon Horton Maternity Hospital, Banbury 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 Lancashire Women and Newborn Centre, Burnley Leeds General Infirmary, Leeds Leighton Hospital, Crewe Lincoln County Hospital, Lincoln Lister Hospital, Stevenage Liverpool Women's Hospital, Liverpool Luton & Dunstable Hospital, Luton Macclesfield District General Hospital, Macclesfield Medway Maritime Hospital, Gillingham Milton Keynes Hospital NHS Foundation Trust, Milton Keynes Nevill Hall Hospital, Abergavenny New Cross Hospital, Wolverhampton Ninewells Hospital & Medical School, Dundee Norfolk & Norwich University Hospital, Norwich North Devon District Hospital, Barnstaple North Manchester General Hospital, Manchester Northampton General Hospital, Northampton

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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 of Wales Hospital, Bridgend Princess Royal Hospital, Haywards Heath Princess Royal Maternity Hospital, Glasgow Queen Alexandra Hospital, Portsmouth Queen Elizabeth Hospital, Gateshead Queen Elizabeth Hospital, Kings Lynn Queen Elizabeth the Queen Mother Hospital, Margate Queen's Medical Centre, Nottingham 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 Glamorgan Hospital, Llantrisant Royal Hampshire County Hospital, Winchester Royal Jubilee Maternity Service, Belfast Royal Oldham Hospital, Oldham Royal Preston Hospital, Preston Royal Surrey County Hospital, Guildford Royal Sussex County Hospital, Brighton Royal United Hospital, Bath Royal Victoria Infirmary, Newcastle-upon-Tyne Russells Hall Hospital, Dudley Scarborough Hospital, Scarborough Scunthorpe General Hospital, Scunthorpe 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 George's Hospital, London St Helier Hospital, Carshalton St John's Hospital, Livingston St Mary's Hospital, Manchester St Mary's Hospital, Newport St Michael's Hospital, Bristol St Peter's Hospital, Chertsey Stoke Mandeville Hospital, Aylesbury Taunton and Somerset Hospital, Taunton The Great Western Hospitals NHS Foundation Trust. Swindon The Jessop Wing, Sheffield 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 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 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 Whiston Hospital, Prescot Whittington Hospital, London William Harvey Hospital, Ashford Wishaw General Hospital, Wishaw Worcestershire Royal Hospital, Worcester Wrexham Maelor Hospital, Wrexham York Hospital, York Ysbyty Gwynedd District General Hospital, Bangor Antrim Hospital, Antrim Arrowe Park Hospital, Wirral Barnsley Hospital NHS Foundation Trust, Barnsley Birmingham City Hospital, Birmingham Causeway Hospital, Coleraine Colchester General Hospital, Colchester Darlington Memorial Hospital, Darlington East Surrey Hospital, Redhill Glan Clwyd District General Hospital, Bodelwyddan Guy's and St Thomas' Hospital, London Hereford County Hospital, Hereford John Radcliffe Hospital, Oxford Kingston Hospital, Kingston upon Thames Leicester Royal Infirmary, Leicester Manor Hospital, Walsall Newham General Hospital, London Nobles Hospital, Douglas North Hampshire Hospital, Basingstoke North Middlesex University Hospital, Edmonton Princess Alexandra Hospital, Harlow Princess Anne Hospital, Southampton Princess Elizabeth Hospital, St Martins Queen Charlotte's and Chelsea Hospital, London Queen Elizabeth Hospital, London Queen's Hospital, Burton upon Trent Queen's Hospital, Romford Rotherham District General Hospital, Rotherham Roval Free Hospital, London Royal Gwent Hospital, Newport Royal Lancaster Infirmary, Lancaster Salisbury District Hospital, Salisbury Simpson Centre for Reproductive Health, . Edinburgh St James's University Hospital, Leeds St Mary's Hospital, London St Richard's Hospital, Chichester Stepping Hill Hospital, Stockport Tameside General Hospital, Ashton-under-Lyne University College Hospital, London University Hospital of North Durham, Durham University Hospital of North Staffordshire, Stoke on Trent Yeovil Women's Hospital, Yeovil Cumberland Infirmary, Carlisle Homerton University Hospital, London Princess Royal Hospital, Telford Southport & Ormskirk Hospital NHS Trust, Ormskirk The Hillingdon Hospitals NHS Foundation Trust, Uxbridge Worthing Hospital, Worthing Wythenshawe Hospital, Manchester Leicester General Hospital, Leicester Princess Royal University Hospital, Orpington Royal London Hospital, London Whipps Cross University Trust Hospital, London

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

Follow us @NPEU_UKOSS

New UKOSS studies coming soon!

Breast Cancer in Pregnancy

This study will identify the current incidence of primary breast cancer in pregnancy in the UK and investigate the presentation and management of breast cancer in pregnancy, looking at the short-term outcomes for both mother and infant.



Epilepsy in Pregnancy

This case-control study will identify the prevalence of poorly controlled epilepsy amongst pregnant women in the UK and investigate the management of women with poorly controlled epilepsy in pregnancy.

More information on these planned studies will be available soon!

A welcome to the newly appointed UKOSS Steering Committee Members

Following the advertisement for new Committee Members the Steering Committee were delighted to appoint the following Consultants to represent Obstetrics and Anaesthetics:

Dr Philip Moore

Originally from Somerset, Philip has worked at Birmingham Women's Hospital as a consultant obstetric anaesthetist for the last fourteen years, previous to that having been a research fellow there for the COMET study. Apart

from obstetrics, his clinical interests include neuroanaesthesia, acute pain, resuscitation and healthcare IT. He has continued his involvement in research as co-applicant for the BUMPES, SALVO and ANODE NIHR trials. Philip is delighted to be representing his specialty on the UKOSS Steering Committee and hopes his contributions as an anaesthetist will be useful to this valuable national project.



Mr David Churchill

David has been a full time consultant obstetrician for 20 years. He works at Wolverhampton and has an honorary contract with the University of Birmingham. He researched ambulatory blood pressure monitoring in normal and hypertensive pregnancies for his MD and remains research active as the local PI for several trials. His areas of



clinical interest are maternal and fetal medicine and his everyday practice involves caring for women with endocrine, hypertensive and renal diseases. In the past he has held senior positions in medical management and is currently the deputy head of the undergraduate academy at New Cross Hospital. He is an instructor on the MOET course and has taught life saving skills in Bangladesh and several countries in Sub-Sarahan Africa. He is also a central assessor for the MBRRACE-UK confidential enquiries into maternal mortality.

Case report summary for current studies up until the end of May 2015

Disorder	Actual number of reported cases	Data collection forms returned (%)	Number of confirmed cases (%)	Expected number of confirmed cases
Amniotic Fluid Embolism	210	203 (97)	140 (69)	123
Anaphylaxis	57	49 (86)	32 (65)	77
Aspiration in Pregnancy	8	7 (88)	4 (57)	25
Cystic Fibrosis	19	7 (37)	7 (100)	9
Epidural, Haematoma or Abscess	13	9 (69)	7 (78)	3
Gastric Bypass in Pregnancy	176	123 (70)	72 (59)	39
Pulmonary Embolism	41	14 (34)	1 (7)	25
Vasa Praevia	49	23 (47)	12 (52)	55

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GMC Revalidation and NMC Continual Professional Development

We are aware that as part of your GMC revalidation or NMC Continual Professional Development, you are required to provide evidence of participation in national audit and research. If any UKOSS reporters would like to receive a certificate confirming their contribution to UKOSS, please email us at *ukoss@npeu.ox.ac.uk* and we will post one to you.



Melanie O'Connor, UKOSS Programme Manager, interviews Manisha Nair about her current role at the NPEU and her contribution to the UKOSS programme of work

What is your job title and what projects do you currently work on?

I am a senior epidemiologist/health services researcher for UKOSS and other research projects at the NPEU. Along with Marian Knight, I am working towards translating UKOSS to India in order to collect data and conduct epidemiological studies on risk factors for maternal morbidity and mortality.

Can you give me a brief overview of your career to date?

I received my medical degree in India in 2002, following which I worked as a Surveillance Medical Officer and State Routine Immunisation Officer in the polio eradication project of the World Health Organisation in India until 2008. After my daughter was born in 2007, I decided to change my career path from programmes to academia and thus went back to University. I completed my MSc in Global Health Science from University of Oxford in 2009 as a future faculty scholar of Public Health Foundation of India, undertook training in clinical research as a Fogarty Scholar of the National Institutes of Health in 2010 and then went on to complete my DPhil in Public Health at University of Oxford in 2013 as a Weidenfeld Scholar. I started working with the NPEU as an epidemiologist/ health services researcher in April 2013.

Please could you summarise your role in UKOSS/how you use UKOSS data?

My role in UKOSS is to conduct epidemiological and statistical analysis of the data. UKOSS maintains high quality standards in data collection and compilation which is matched by an equally rigorous data cleaning and robust analytical process to make the outputs useful for clinical and policy purposes. The projects that I have been involved with have complied data collected through the UKOSS studies conducted since 2005 to answer questions about ethnic variations in maternal morbidity in the UK, estimate the rates of specific maternal risks associated with planned vaginal birth after caesarean (VBAC) and elective repeat caesarean section (ERCS) and to assess risk factors associated with direct maternal deaths in the UK by using information from the UKOSS and MBRRACE-UK databases.

What has been the biggest challenge you have encountered whilst working with UKOSS?

The biggest challenge is to ensure that the epidemiological and statistical methods used to analyse the data are robust and the process is rigorous every time, but I enjoy this very much because of the associated opportunity to sharpen my skills.

What do you enjoy most about working with UKOSS?

There are not many programmes like UKOSS and therefore, there are not many opportunities to work with data on rare conditions that affect maternal health. The variety of studies conducted through UKOSS over ten years give ample scope with good sample size to answer important research questions to inform policies in the UK and globally. These experiences are valuable for my career in maternal and perinatal research.

Is there a specific research topic area that you feel particularly strongly about?

I am working towards developing a computational model to estimate the range of effectiveness of interventions to reduce maternal mortality globally.

Lastly, what are your interests/ hobbies outside of your working life?

Outside of my work life, my time is mostly spent with my family and trying some oil on canvas (whenever possible).



King and Queen from Rajput dynasty, Manisha Nair

Chocolate Box



Chocolates this month go to Frances Lamb at Royal Victoria Infirmary for her extra efforts to obtain outstanding information and to Karen Cutler from Poole Hospital for catching up with a backlog of outstanding data.

Many thanks to you both!



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