



Royal College of  
Obstetricians  
and Gynaecologists

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Introducing the first in a series of UKOSS infographics presenting some of the main findings from recent studies!

## UKOSS

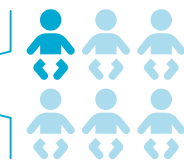
UK Obstetric Surveillance System

### Impacted Fetal Head

A prospective observational study of **3518** second-stage caesarean births at **194** obstetric units across the UK between 1st March and 31st August 2019. Data collated via UKOSS reporting system.



An estimated 7.3% of Caesarean section births occurred during the 2nd stage

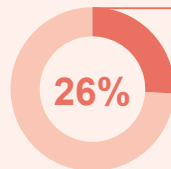


1/6 (16%) of these involved IFH

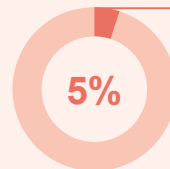
57%

Occurred after attempted instrumental delivery

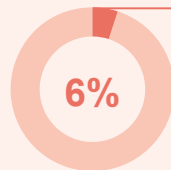
#### Maternal outcomes



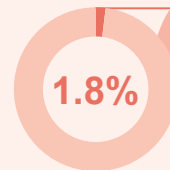
Post-partum haemorrhage



Sepsis



ICU admission



Organ injury\*

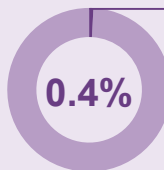
\*Organ injury = injury to bladder or bowel, or hysterectomy performed

8 techniques were used to manage an IFH (from most to least common):

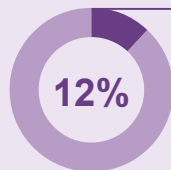
- Push technique
- Fetal Pillow
- Head-down tilt
- Tocolysis
- Extend incision
- Reverse breech
- Patwardhan
- Tydeman tube

Limited evidence as to which of these provides the best outcomes

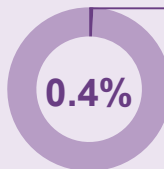
#### Infant outcomes



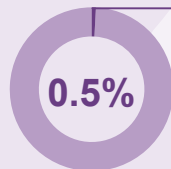
Stillbirth



Neonatal unit admission



Neonatal death



HIE

There is no standard definition for IFH. This study classified it as:

**“use of disimpaction technique or surgeon-reported ‘difficulty’ delivering the fetal head”**

#### More work is needed on:

- Education and training for clinicians
- A standardised definition of IFH
- Which techniques provide the best outcomes
- Maternal risk factors for IFH
- Risk factors for infant birth trauma

Reference: Wyn Jones N, Mitchell EJ, Wakefield N, Knight M, Dorling J, Thornton JG, Walker KF. Impacted fetal head during second stage Caesarean birth: A prospective observational study. Eur J Obstet Gynecol Reprod Biol. 2022 May;272:77-81. doi: 10.1016/j.ejogrb.2022.03.004. Epub 2022 Mar 4. PMID: 35290876.



OCT 2023

# Hospital Monthly Reporting Rates: June 2023 – August 2023

3 months reported, 2 months reported, 1 month reported, 0 months reported

Altnagelvin Area Hospital	Queen Elizabeth Hospital (King's Lynn)	Nobles Hospital (Isle of Man)
Aneurin Bevan University Health Board	Queen Elizabeth the Queen Mother Hospital	Poole Hospital
Arrowe Park Hospital	Queen's Hospital (Burton-on-Trent)	Princess Elizabeth Hospital (Guernsey)
Ayrshire Maternity Unit	Rosie Maternity Hospital	Queen Charlotte's and Chelsea Hospital
Barnet Hospital (Royal Free London NHS Foundation Trust)	Rotherham District General Hospital	Queen Elizabeth Hospital (Woolwich)
Barnsley Hospital	Royal Albert Edward Infirmary	Queen's Medical Centre
Basildon University Hospital	Royal Cornwall Hospital	Raigmore Hospital
Bedford Hospital	Royal Derby Hospital	Royal Alexandra Hospital
Borders General Hospital	Royal Free Hospital	Royal Berkshire Hospital
Bradford Royal Infirmary	Royal Lancaster Infirmary	Royal Hampshire County Hospital
Broomfield Hospital	Royal Surrey County Hospital	Royal Jubilee Maternity Service
Chesterfield Royal Hospital	Royal United Hospital	Salisbury District Hospital
City Hospital (Birmingham)	Royal Victoria Infirmary	Southern General Hospital
Colchester General Hospital	Russells Hall Hospital	Warwick Hospital
Conquest Hospital (East Sussex Healthcare NHS Trust)	Singleton Hospital	Watford General Hospital
Craigavon Area Hospital	Simpson Centre for Reproductive Health	West Cumberland Hospital
Croydon University Hospital	Southend University Hospital	Whipps Cross University Trust Hospital
Darent Valley Hospital	South West Acute Hospital	Yeovil Women's Hospital
Derriford Hospital	St George's Hospital	Antrim Hospital
Dorset County Hospital	St Helier Hospital	Birmingham Women's Hospital
Dumfries & Galloway Royal Infirmary	St James's University Hospital	Chelsea & Westminster Hospital
East Surrey Hospital	St John's Hospital	Countess of Chester Hospital
Epsom General Hospital	St Mary's Hospital (Isle of Wight)	Homerton University Hospital
Forth Valley Royal Hospital	St Mary's Hospital (London)	James Cook University Hospital
Frimley Park Hospital	St Mary's Hospital (Manchester)	King's College Hospital
Furness General Hospital	St Michael's Hospital	Kingston Hospital
George Eliot Hospital	Stepping Hill Hospital	Lancashire Women and Newborn Centre
Glan Clwyd District General Hospital	Stoke Mandeville Hospital	Leicester Royal Infirmary
Glangwili General Hospital	Sunderland Royal Hospital	Liverpool Women's Hospital
Harrogate District Hospital	Tameside General Hospital	Newham General Hospital
Heartlands Hospital	The Great Western Hospital	North Middlesex University Hospital
Hereford County Hospital	The Jessop Wing	Princess Royal University Hospital
Hull Royal Infirmary	The Portland Hospital	Royal Devon & Exeter Hospital
Ipswich Hospital	The Tunbridge Wells Hospital	Royal Oldham Hospital
Jersey General Hospital	Torbay Hospital	Scarborough Hospital
Kettering General Hospital	Ulster Hospital	Scunthorpe General Hospital
Lancashire Teaching Hospitals (Royal Preston Hospital)	University Hospital of North Midlands	Southmead Hospital
Leeds General Infirmary	University Hospital of North Tees	St Peter's Hospital
Leighton Hospital	University Hospital of Wales	St Richard's Hospital
Lincoln County Hospital	Victoria Hospital (Blackpool)	University Hospital Coventry
Lister Hospital	Victoria Hospital (Kirkcaldy)	Airedale General Hospital
Luton and Dunstable University Hospital	Warrington Hospital	Bassetlaw District General Hospital
Manor Hospital (Walsall)	Western Isles Hospital	Darlington Memorial Hospital
Medway Maritime Hospital	West Middlesex University Hospital	Diana Princess of Wales Hospital
Milton Keynes University Hospital	West Suffolk Hospital	Gloucestershire Royal Hospital
Musgrove Park Hospital	Wexham Park Hospital	Guy's and St Thomas' Hospital
New Cross Hospital	Whiston Hospital	John Radcliffe Hospital
Norfolk & Norwich University Hospital	Whittington Hospital	Leicester General Hospital
North Devon District Hospital	William Harvey Hospital	Princess Royal Hospital (Haywards Heath)
North Manchester General Hospital	Wishaw General Hospital	Queen's Hospital (Romford)
Northampton General Hospital	Worthing Hospital	Royal Bolton Hospital
Northumbria Specialist Emergency Care Hospital	Wrexham Maelor Hospital	Royal London Hospital
Northwick Park Hospital	Wythenshawe Hospital	Royal Sussex County Hospital
Nottingham City Hospital	York Hospital	The Hillingdon Hospital
Ormskirk District General Hospital	Ysbyty Gwynedd District General Hospital	University College Hospital
Peterborough City Hospital	Aberdeen Maternity Hospital	University Hospital Lewisham
Pilgrim Hospital	Basingstoke and North Hampshire Hospital	University Hospital of North Durham
Pinderfields General Hospital	Bronglais Hospital	Worcestershire Royal Hospital
Prince Charles Hospital	Caithness General Hospital	
Princess Anne Hospital	Calderdale Royal Hospital	
Princess Alexandra Hospital	Cumberland Infirmary	
Princess of Wales Hospital	Daisy Hill Hospital	
Princess Royal Hospital (Telford)	Doncaster Royal Infirmary	
Princess Royal Maternity Hospital	Good Hope Hospital	
Queen Alexandra Hospital	Hinchingbrooke Hospital	
Queen Elizabeth Hospital (Gateshead)	James Paget University Hospital	
	King's Mill Hospital	
	Ninewells Hospital & Medical School	



## Call for new reporters!

We are looking for reporters in these hospitals. If you are interested in becoming a UKOSS reporter and assisting the team with data collection then we would love to hear from you.

Contact us at [ukoss@npeu.ox.ac.uk](mailto:ukoss@npeu.ox.ac.uk) for more information

**Bassetlaw  
District General  
Hospital**

**Leicester General  
Hospital**

**Royal Bolton  
Hospital**

**Princess Royal  
Hospital  
(Haywards Heath)**

**Royal Sussex  
County Hospital**

## The Covid-19 study has now closed, when can we archive the data forms?

We have had a number of queries from sites asking us to confirm that the Covid-19 study has closed and if so, when all study documentation can be archived.

We can confirm that the study UKOSS: Pandemic Influenza in Pregnancy, IRAS 112935, REC 12/EM/0365 (which became known as the Covid-19 study) has now closed and we are finalising data analysis. Please be advised that all study files (such as data collection forms) can now be archived according to local trust policies and processes.

If you have any queries at all regarding the end of the Covid-19 in pregnancy study, please do not hesitate to get in touch with us at [ukoss@npeu.ox.ac.uk](mailto:ukoss@npeu.ox.ac.uk).



## Case Report Summary for Studies up until the end of August 2023

Study	Actual number of reported cases	Data collection forms returned (%)	Expected number of confirmed cases
Amniotic Fluid Embolism	391	364 (93)	223
Biologic Agents in Pregnancy	237	183 (77)	401
Long-term non-invasive ventilation in pregnancy	16	4 (25)	21
New Therapies for Influenza	34	24 (71)	185
Pregnancy in Women with Known Cardiomyopathy	309	236 (76)	448
Severe Pyelonephritis in pregnancy	128	107 (84)	550
Severe Respiratory Virus – RECOVERY trial	20	20 (100)	71
Thrombotic Microangiopathy Associated Pregnancy Acute Kidney Injury	30	23 (77)	346



# Meet Laura Goodfellow and Nicola Vousden who recently joined the UKOSS Steering Committee as Trainees



## Laura Goodfellow Interview

**Where do you currently work and what is your job title?**

*I am an Academic Clinical Lecturer at the University of Liverpool. I spend half my working week as an ST6 (nearly 7) at Liverpool*

*Women's Hospital and the other half working on obstetric research. My research is about preterm birth, in particular the vaginal microbiome, preterm prelabour rupture of membranes (PPROM) and optimising maternal health during and after pregnancy. I also have an interest in staff wellbeing and have been involved in the RCOG INDIGO project into prevention and treatment of post-traumatic stress in the O&G workforce.*

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

*I went to Newcastle Medical School and was lucky enough to get a Wolfson scholarship to support my intercalation into an MRes programme that included a laboratory based project about the role progesterone receptors play in the initiation of labour. I went on to an academic Foundation Programme job in Southampton and was able to work on data from the Southampton Women's Study looking at the relationship between activity levels in mothers and their 4 year old children.*

*I then joined the O&G training programme in the North West region in 2010. After gaining my MRCOG I was able to take time out of programme for research at the Harris Research centre at University of Liverpool. I worked on a biomarkers of preterm birth project and this formed the basis of my MD into the relationship between the vaginal microbiota and recurrent early*

*preterm birth. During my time out of programme my colleague, Dr Angharad Care, and I also put in a hopeful application for a UKOSS project into preterm prelabour rupture of membranes (PPROM) under 23 weeks gestation. We were delighted to be accepted!*

*I began my lectureship role in November 2021, then went on maternity leave in April 2022. I returned to work this spring and am enjoying getting stuck into work now and in particular analysis of the UKOSS PPRM project. This is the first time this topic has been studied on a population-level and I now understand how valuable this is- we found maternal morbidity and mortality that researchers in one or two centres would be unlikely to identify. Importantly this has implications for management of this condition and my next step is to disseminate our findings effectively and look to interventions to improve outcomes.*

**What do you look forward to most about your role on the Steering Committee?**

*I look forward to hearing about the diverse topics that UKOSS is currently investigating. I hope that having been through the process of proposing a UKOSS topic, having it accepted and working with the team to deliver an outcome I can usefully contribute to both future projects and the development of the UKOSS platform.*

**What are your interests/hobbies outside of your working life?**

*I have three young sons. We enjoy going on adventures to parks, museums and the beach. I also enjoy cooking, reading and I am an enthusiastic follower of formula 1.*



## Nicola Vousden

*Nicky has recently started as a clinical lecturer at the NPEU and is investigating ways to improve outcomes for women facing inequality and disadvantage during pregnancy. She is a public health registrar training in London and prior to this analysed the UKOSS COVID-19 in pregnancy study. She used to work in Obstetrics and Gynaecology so is looking forward to learning about a wide range of clinical topics and meeting new clinicians and researchers across the country.*

## Star Reporters



This newsletter we would like to thank **Jan Auffret** (Jersey General Hospital) for being the first to complete the September monthly report, **Lauren Chaney** (Northumbria Specialist Emergency Care Hospital) for being the first to return an NIV data collection form and **Sarah Reynolds** (Bedford Hospital) for long and consistent contribution to UKOSS.

Your edible goodies will be in the post very soon!

## UKOSS Certificates of Contribution

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](mailto:ukoss@npeu.ox.ac.uk) and we will get one emailed to you.

