# 9-14 NOVEMBER



# UK Adult Immune Thrombocytopenia (ITP) Pregnancy Registry: Collaborative research to better understand outcomes: the first 24 months.

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Sites: The Royal London Hospital (Bart's Health NHS Trust), The Royal Victoria Infirmary (The Newcastle Upon Tyne Hospitals NHS Foundation Trust), Pilgrim Hospital (United Lincolnshire Hospitals), Princess Royal University Hospital (Kings College Hospital NHS Foundation Trust), The Churchill Hospital (Oxford University Hospitals NHS Foundation Trust), West Middlesex University Hospital (Chelsea and Westminster Hospital NHS Foundation Trust), The County Hospital (Wye Valley NHS Trust), St James University Hospital (The Leeds Teaching Hospitals NHS Trust), Queen Elizabeth Hospital (Lewisham & Greenwich NHS Trust), Wythenshawe Hospital (Manchester University NHS Foundation Trust), Guy's Hospital (Guys And St Thomas NHS Foundation Trust).

# **INTRODUCTION / AIMS**



In August 2018, the UK Adult Immune Thrombocytopenia (ITP) pregnancy registry was added to the UK adult ITP registry to collect prospective data regarding the management and outcome of pregnancy in patients with ITP with the aim of furthering our understanding of this disorder in pregnancy.

Inclusion criteria included:

-Pregnant women with primary ITP diagnosed prior to pregnancy or primary ITP diagnosed in pregnancy where: the platelet count falls to <50 x10^9/L or treatment for ITP is required during pregnancy or up to 3 months post-partum.

Data links to the main arm of the UK adult ITP registry. The data sets captured are listed in table 1 and align with the data sets from UKOSS published

To date, 31 women have been recruited, 26 have delivered and we have complete data sets for the first **21 patients** .

Patient characteristics

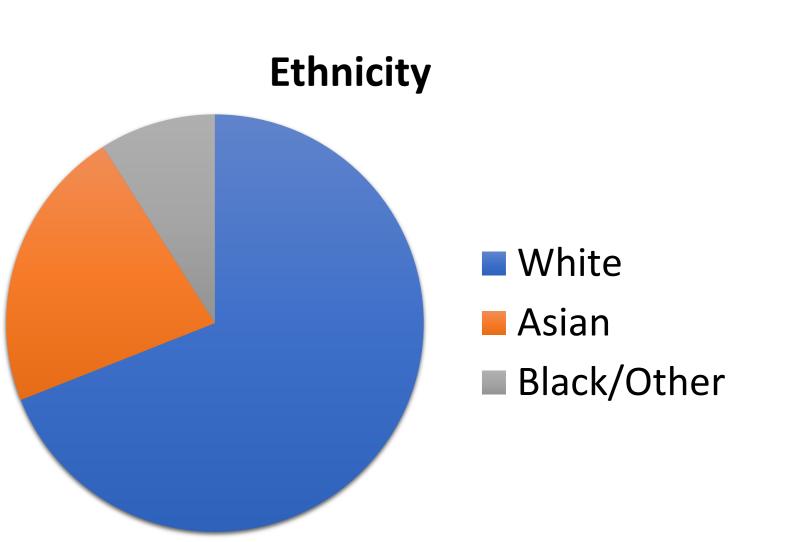
- The median age is 33 and ethnic mix (n = 23) is 69% White, 22% Asian and 9% Black.
- 74% were diagnosed with ITP before pregnancy and 26% were diagnosed in pregnancy.

### Platelet counts

- The mean **lowest platelet count during pregnancy** was 59.3 x10^9/L (range 0-226 x10^9/L).
- The mean **platelet count at delivery** was 111 x10^9/L (range 55-274 x10^9/L).
- The mean **platelet count 3 months post-partum** was 197 x10^9/L (range 58-924 x10^9/L).

# Bleeding:

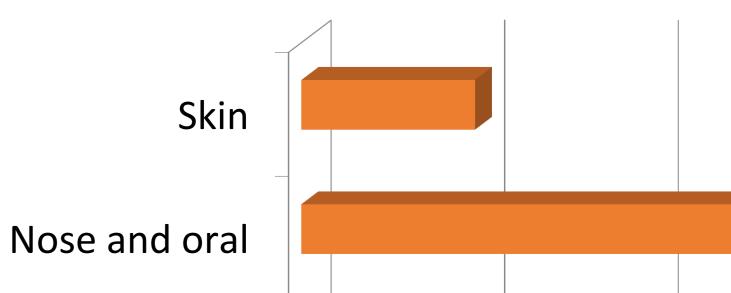
 Of those with complete data, 8 out of 21 experienced some bleeding during their pregnancy.



**NHS Trust** 

**Barts Health** 





#### in 2017.

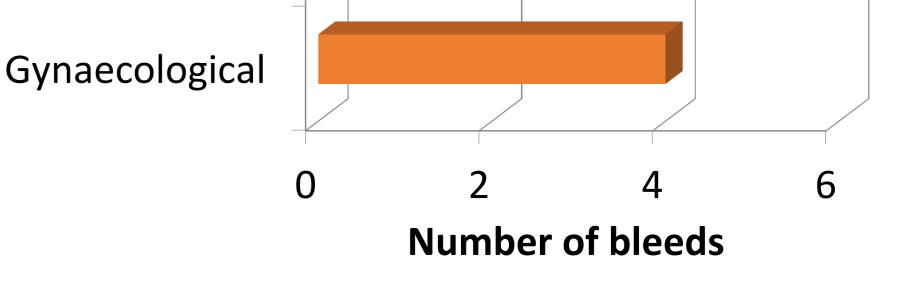
Medical and	Participant and Clinician Details
obstetric history	Problems in previous pregnancies
	Morbid events in previous pregnancies
Current	Comorbid conditions
pregnancy	Anthropometric and lifestyle information
information	Bleeding events
ITP treatments	Supportive therapies
during pregnancy	Medication
Delivery	Details and type of delivery
information	Anaesthesia method at delivery
Haematological	During pregnancy
and coagulation	At delivery
values	Post-partum
Maternal	Peri-partum bleeding events
outcome	RBC transfusion requirement

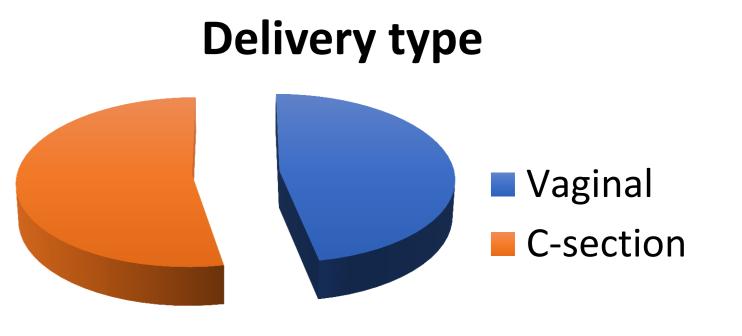
- The median lowest platelet count of those that suffered bleeding was 67 x10^9/L (range 0-226 x10^9/L).
- The median lowest count of those without bleeding was 54 x10^9/L (range 6-124 x10^9/L).
- The main bleed sites were skin bleeding (n = 2), gynaecological bleeding (n = 4) and epistaxis/oral cavity (n = 5).

#### Treatment and maternal outcomes:

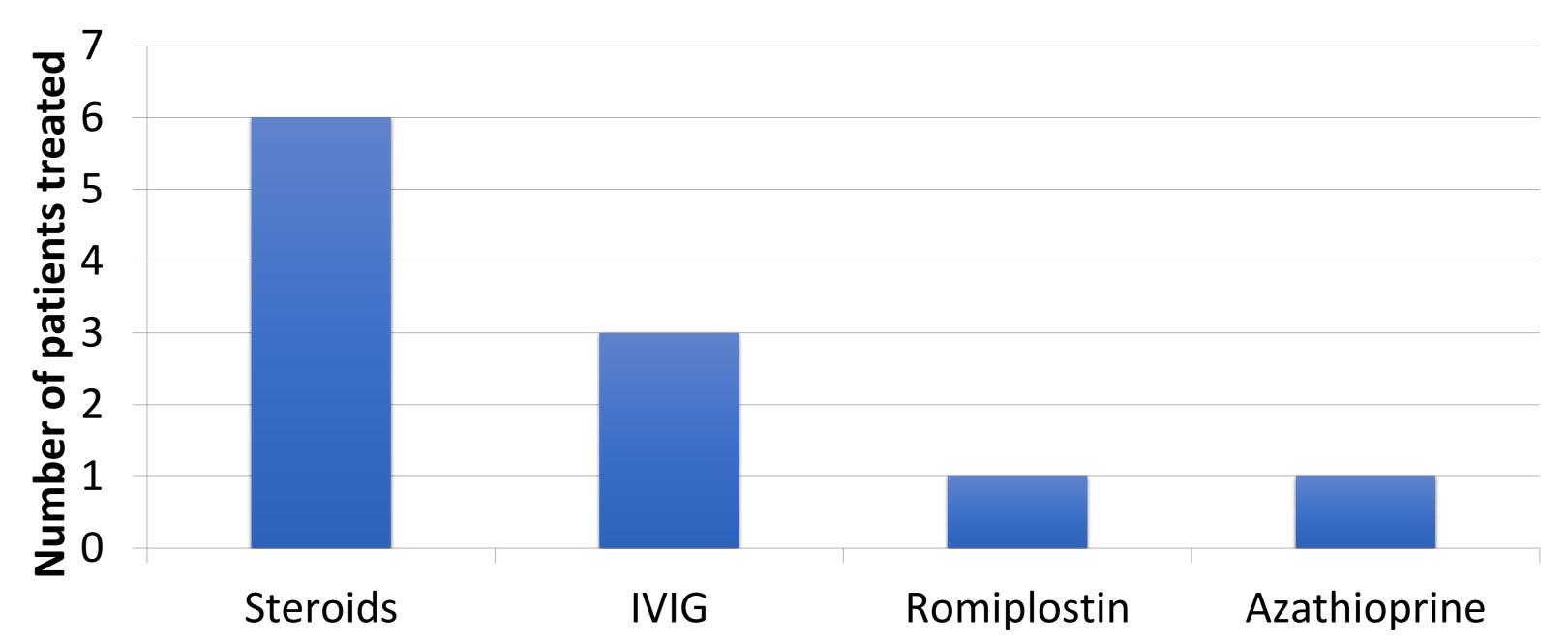
• Eight of the 21 women required treatment during pregnancy: 6 received steroids, 3 received IVIG, 1 received Azathioprine and 1 received Romiplostim.

• Eleven of the 21 patients had a caesarean section whilst the other 10 had vaginal delivery. There was 1 platelet transfusion and 3 reported post-partum haemorrhage in these cases.





#### Treatment



	Comorbid conditions during pregnancy or
	to 3 months post-partum
Infant details	Morbidity and treatments
	Platelet counts
	Breastfeeding

Table 1 UK adult ITP pregnancy registry data sets

## CONCLUSIONS

This study will provide invaluable data on the management and outcomes with ITP in pregnancy to help better risk stratify women as they head into pregnancy. Pregnancy ITP is a rare overall occurrence and using the pre-existing infrastructure of the UK ITP Registry has allowed a linked dataset to further our knowledge in this area.

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## **CONTACT INFORMATION**

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