

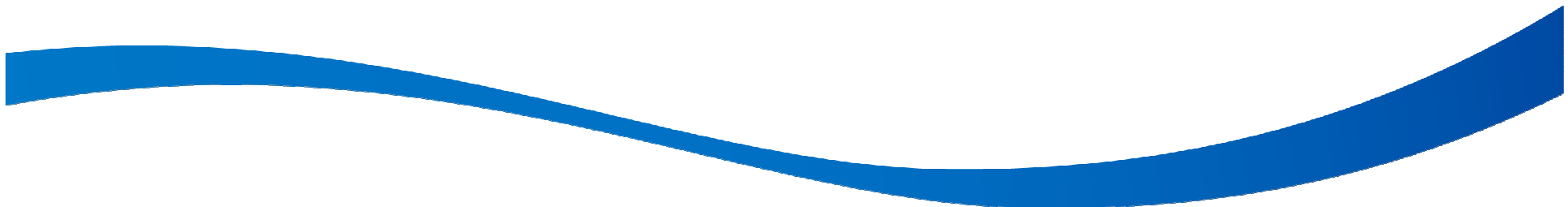
Paediatric considerations in apheresis and a new collaboration

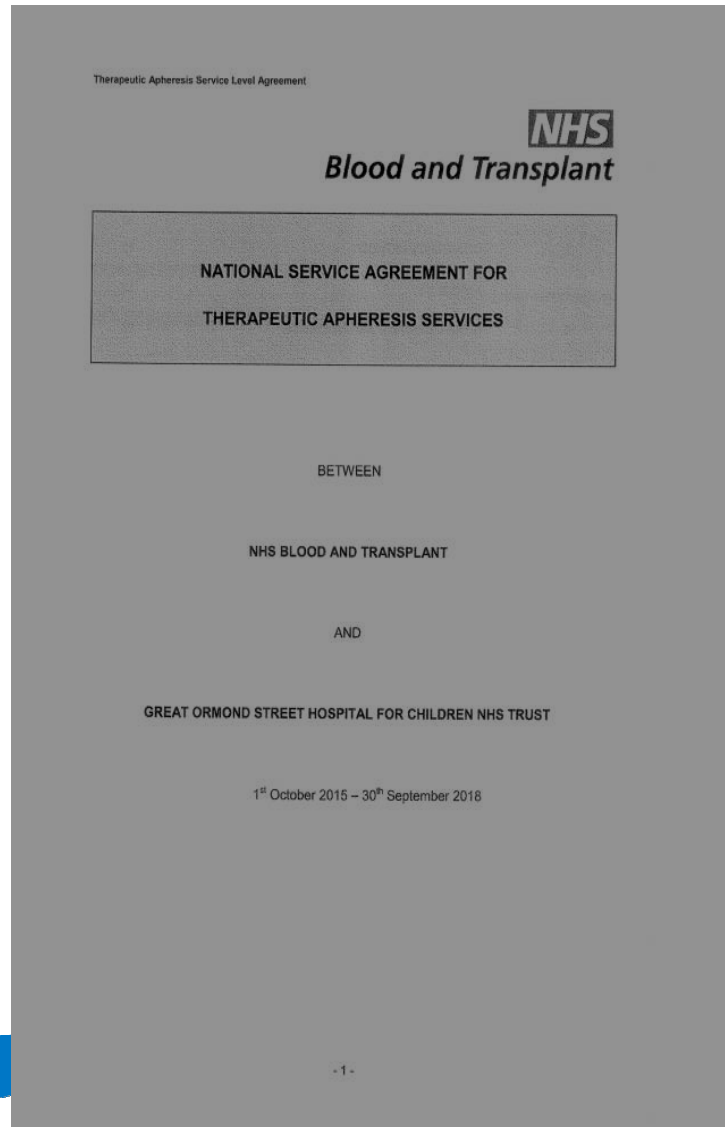
Ailish Barry, ANP Paediatric Oncology & Lead Nurse Apheresis GOSH.

Nancy O'Brien, Lead Nurse, NHS Blood & Transplant,

Therapeutic Apheresis Services - London

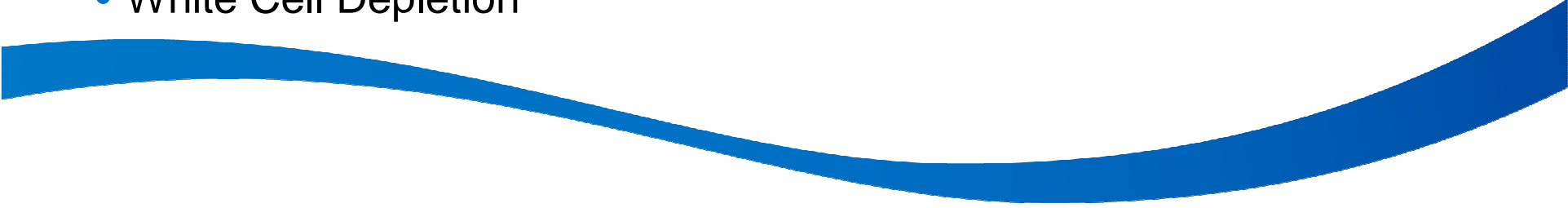
In October 2015 NHSBT TAS and GOSH took a collaborative approach to the delivering of apheresis services.





- The Service Level Agreement sets out the logistical, operational and financial terms and conditions between NHSBT and GOSH.
- This includes the Regulatory and Governance responsibilities of each Party.
- For Peripheral Blood Stem Cell and Lymphocyte collections we are jointly accredited by JACIE and licensed by the Human Tissue Authority.

Apheresis Services offered at GOSH

- Peripheral Blood Stem Cell Collection.
 - Donor Lymphocyte Collection.
 - Therapeutic Plasma Exchange.
 - Red Cell Exchange.
 - Extracorporeal Photopheresis
 - White Cell Depletion
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Apheresis Activity @ GOSH



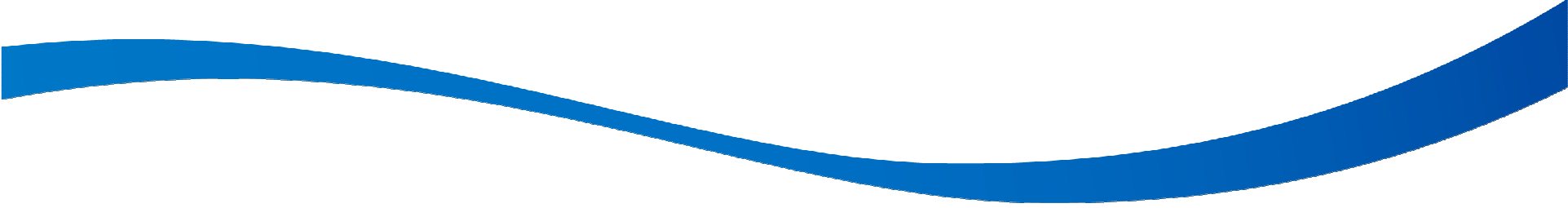
Blood and Transplant

Name of procedure	Number of Procedures between October 1 st 2015 – March 31 st 2016	Number of Procedures in financial year 2016-17
Plasma Exchange	39	130
Red Cell Exchange	0	4
Stem Cell Harvest (PBSCH)	16	44
Lymphocyte Collection	1	14
White Cell Depletion (IDL)	3	1
Photopheresis (ECP)	13	35
Total Number of Procedures by TAS London (GOSH Only)	72	142

The NHS blood & Transplant Apheresis Team

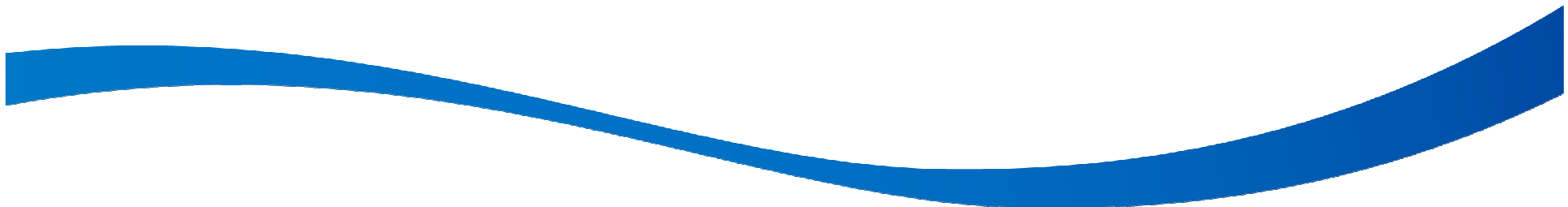
There are 8 NHSBT TAS units across England employing 65 Apheresis Nurses.

The Therapeutic Apheresis Team in London (GOSH) consists of :

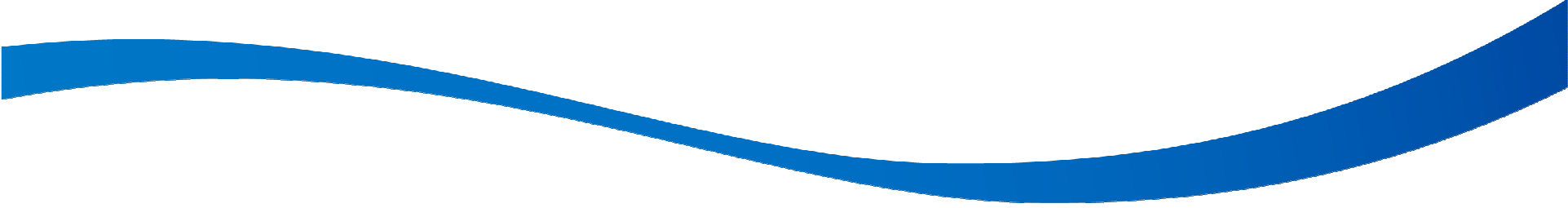
- 1 Lead Nurse
 - 2.8 WTE Nurse Practitioners
 - 1 WTE Unit Assistant
 - 1 Therapeutic Apheresis Consultant (2 PA's/1day per week)
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Donor selection for PBSCH and Leucopheresis

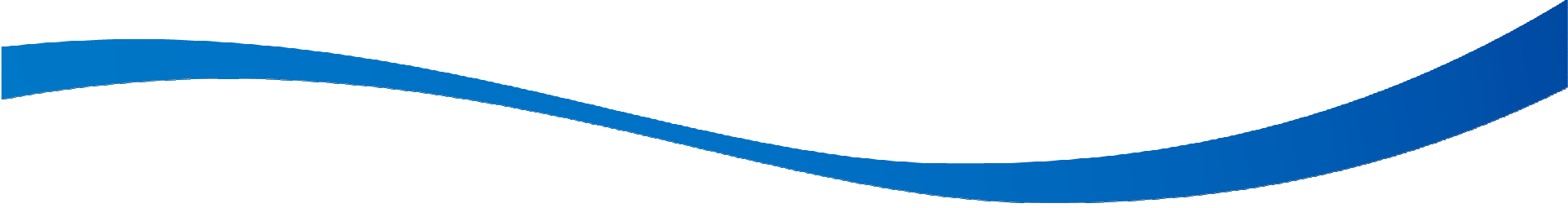
- Immunotherapy
- Gene therapy
- Oncology
- Haematology



Referral Process

- Consultant refers to Apheresis Lead
 - Log onto data base, work out dates
 - Email NHSBT, Cell therapy and relevant others
 - Consent for storage and explanation on procedure
 - NHSBT consent for procedure
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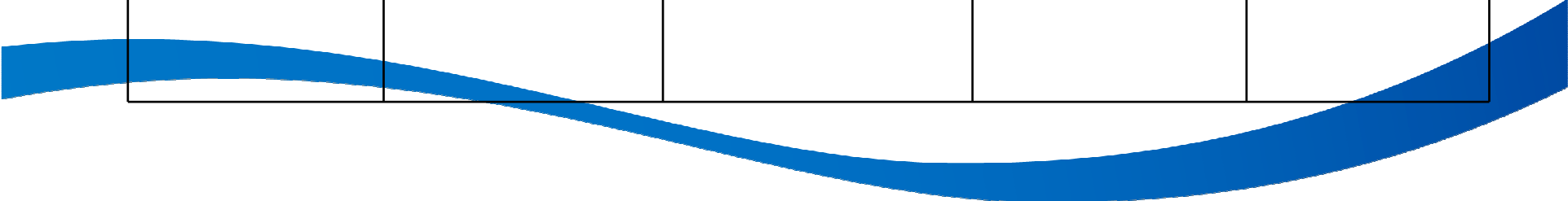
Audit to compare post PBSCH platelet use in oncology patients pre and post commencement of NHSBT Apheresis Services at GOSH.

- Aim
 - To determine if there were significant changes to patient outcomes.
 - Methodology
 - We examined data from Oncology Patients harvested over 2 x 12 month time periods: A pre NHSBT (Sept 1st 2014 – Sept 30th 2015) and B under NHSBT (Jan 1st 2016 – Dec 31st 2016).
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Audit to compare post PBSCH platelet use in oncology patients pre and post commencement of NHSBT Apheresis Services at GOSH.

Table 1: Comparison of platelet post PBSC harvest

Time Period	No of patients	No of procedures	Platelets used post Harvest	% platelets used post procedure
A: pre NHSBT	26	32	7	26.9%
B: under NHSBT	18	27	1	3.7%



For the future

- More protocols requiring PBSCH
- Research studies
- More audits and improving service provision and clinical care
- Further collaborative presentations

