Learnbloodtransfusion e-learning: transfusion and anti-D

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Learnbloodtransfusion (LBT)

- a suite of transfusion-related e-learning courses
- created in 2005 by the SNBTS
- endorsed by all 4 UK Blood Transfusion Services
- developed to ensure that all healthcare workers can participate safely in the transfusion process*

*should be used a part of a training programme, including face to face and competency assessment
Seven LBT courses:

- Safe Transfusion Practice
- Safe Transfusion Practice (Paediatrics)
- Blood Components and Indications for Use
- Good Manufacturing Practice
- Anti-D Clinical
- Anti-D Laboratory
- Learn Cell Salvage
Topics covered in the courses include:

- ABO blood group system and serology
- The correct procedures for each step in the transfusion process
- Blood components and derivatives and their indications for use
- The management of massive transfusion
- Recognising and managing a transfusion reaction
- Good manufacturing practice (GMP)
- Anti-D and Haemolytic Disease of the Foetus and Newborn (HDN)
- Blood Conservation
- Cell Salvage
Safe Transfusion Practice

**The sessions:**

1. Haemovigilance in the UK and ROI
2. Blood Group Serology
3. Requesting Procedures
4. Sampling Procedures
5. Collection Procedures
6. Administration Procedures
7. Management of Transfused Patient

**Designed for:**

- Doctors
- Nurses
- Midwives
- ODPs
- Clinical support workers
- Phlebotomists
- Porters
- Biomedical scientists
- Medical laboratory assistants

**Learning outcomes:**

- Identify the most common errors in the transfusion process
- Describe basic ABO serology
- Describe the correct procedures for all the steps in the transfusion process
- Explain the initial action required to manage an adverse event
Blood Components and Indications for Use

The sessions:
1. Safe and Appropriate Transfusion Practice
2. Blood Group Serology
3. Red Blood Cells
4. Platelets
5. Plasma Components
6. Massive Transfusion
7. Plasma Derivatives
8. Adverse Effects of Transfusion

Designed for:
- Doctors
- Nurses
- Midwives
- ODPs
- Blood transfusion trainers

Learning outcomes:
- Demonstrate an understanding of the ABO blood group system
- Summarise the pre-transfusion testing process and selection of compatible blood components
- Describe the different blood components/derivatives that are available and the indications for their use
- Describe the common signs and symptoms of a transfusion reaction and outline how to take appropriate action
- Illustrate how you are professionally accountable in relation to the transfusion process

Mothers, babies and blood - SWRTC Midwives Seminar, 8th March 2012
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Anti-D Clinical

The sessions:
1. Understanding Maternal Sensitisation
2. Anti-D Prophylaxis
3. Management of Pregnancies at Increased Risk
4. Anti-D – Routine Use
5. Anti-D – Informed Decision Making
6. Anti-D – Safe Storage and Administration

Designed for:
- Obstetricians
- General Practitioners
- Midwives
- Nurses

Learning outcomes:
- Explain the significance of RhD during pregnancy, antibody formation following fetomaternal haemorrhage and how anti-D immunoglobulin prevents sensitisation
- Describe the impact that anti-D prophylaxis has had on outcomes
- Discuss the management of potentially sensitising events during pregnancy and the care of women already sensitised to the RhD antigen
- Recognise the need to facilitate informed decision making in relation to anti-D
- Describe the safe storage and administration of anti-D immunoglobulin
Anti-D Laboratory

The sessions:
1. Understanding Maternal Sensitisation
2. Anti-D Prophylaxis
3. Routine Laboratory Testing in Pregnancy
4. The Role of the Laboratory in Anti-D Prophylaxis
5. The Role of the Laboratory in Anti-D Sensitised Pregnancies

Learning outcomes:
✓ Explain the significance of RhD during pregnancy, antibody formation following fetomaternal haemorrhage and how anti-D immunoglobulin prevents sensitisation
✓ Describe the impact that anti-D prophylaxis has had outcomes
✓ Discuss the role of the routine blood transfusion and haematology laboratories in pregnancy, role of the laboratory in anti-D prophylaxis and the role of routine laboratory and reference laboratories in the management of sensitised pregnancies

Designed for:
• Hospital transfusion laboratory staff
• Obstetricians
• General Practitioners
• Midwives
• Nurses

Mothers, babies and blood - SWRTC Midwives Seminar, 8th March 2012
Learn Cell Salvage

The sessions:
1. Basic Blood Facts
2. Blood Conservation
3. Intraoperative Cell Salvage
4. Postoperative Cell Salvage

Designed for:
- Doctors
- Nurses
- ODPs
- Cell salvage operators
- Clinical perfusionists
- Clinical support workers

Learning outcomes:
✓ Describe the basic composition and physiology of blood
✓ List the donor blood components that are currently available for clinical use in the UK
✓ Understand the importance of planning a blood conservation strategy for a surgical patient
✓ Explain the indications and limitations of the various blood conservation techniques available
Quality assurance

• Content led by UK-wide transfusion network
• Managed by an editorial board
  - of transfusion specialists
  - from all 4 UK BTSs

• 2 yearly review cycle on all courses
  - review groups made up from specialists and users in clinical practice
How do you access LBT e-learning?

- LearnPro (www.learnbloodtransfusion.org.uk)
- NLMS [ESR OLM]
- e-Learning for Healthcare (e-LfH)

- Contact your Transfusion Practitioner or Learning and Development department to find out more
- Alternatively, you can contact NHSBT.CustomerService@nhsbt.nhs.uk