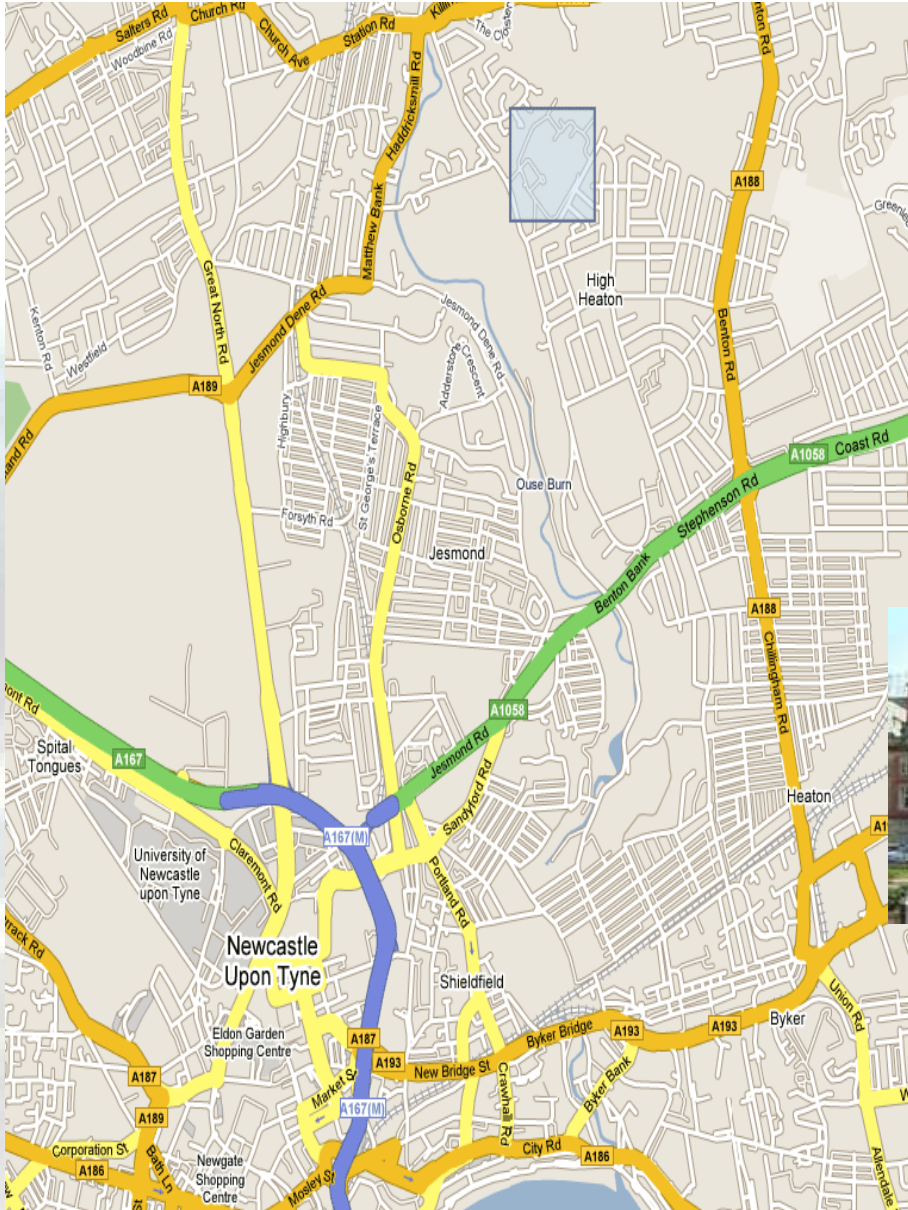


Newcastle upon Tyne Blood Transfusion Course

Susan Whitehead

Transfusion Practitioner
(Recently Retired and loving it)

Newcastle



Did we need a Course?

- Came into post May 2000
- Back ground General Surgery/Day unit
- No education for TP's
- First course ran in 2003 in conjunction with NHSBT Newcastle/University of Northumbria

Working Group

- Working Group:
 - Dr Jonathan Wallis
Consultant Haematologist
 - Susan Whitehead
Transfusion Practitioner
 - Dr Hazel Tinegate
Consultant Haematologist NHSBT Newcastle

Who did We Target

- Originally only open to Transfusion Practitioners
- Open to TP's in the Northern Region
- Small Groups
- Between 4- 10 candidates
- 1 day per month for 11 Months

What were the course aims?

- Impart a broad knowledge of blood transfusion
- To complement in-house training.
- To improve safety of blood transfusion
- Explore the use of alternatives to donor blood.

What were our Aims

- Establish multidisciplinary staff training.
- Able to improve the quality of service provision through clinical audit and professional development.
- To ensure that the reporting of adverse events and near misses are reported

How did we deliver the Education?

- Lectures Delivered by Medical and Blood bank Staff and Senior Nursing Staff
- Interactive
- Hands on Practical's
- Journal Clubs

What Subject were included

- **Centre based topics**

- Donor selection.
- Donor care
- Donor testing
- Blood component manufacture
- Validation and QC within the transfusion centre
- Transfusion centre stock control
- Bench based topics
- Blood groups and antibodies, basic principals.
- Lab coag assay

- **Hospital Based Topics**

- Bone marrow collection and cryopreservation
- Infective risks of transfusion
- Storage of red cells and effects on quality

- Haemolytic and other transfusion reactions
- Indications for blood and components
- Management of shock
- Management of transfusion reactions
- Paediatric and obstetric transfusion
- Transfusion epidemiology
- Administration of transfusion
- Cell salvage
- WHO
- European awareness
- ⁿMajor Haemorrhages Pre Hospital and in hospital care

- **Management**

- Audit
- SHOT
- ⁿNEQAS

ⁿ = New for this course

How many hours

• Lectures and Seminars/Tutorials	88
• Workshops Directed Learning	40
• Independent Learning	40
• Work Experience/Learning at Work	32
• Total Hours	200
• Number of credits	20

Positive Back From Course

Lots of
information

Very interesting cheeky
chapie

Bit Abstract. Sometimes need to
'think outside the box' for the
answers

I enjoy the lectures from the surgical/medical consultants as
it gives a clinical view of transfusion.

It gave a good
introduction into
transplant

Thought it was too hard at the
beginning, but when got to the second
half of the talk it made sense.

Shows that the
guidelines don't solve
some of the outstanding
issues

Amusing, charismatic speaker, easy to learn from

Could have
done with
longer

HLA typing and monitoring made 'very' simple

What I did not Expect from the Course

To enjoy it as much as I did and learn so much

To gain such a huge insight into the transfusion process and this highlighted the huge gap in my knowledge base

To make such great professional contacts and a supportive learning group that was so valuable

To reach the level of understanding. I am amazed at how much I have gained from the course

In this course I did not expect such in depth teaching on group serology and antibodies but found it very interesting

Worst Things about the course

Function room 137 not conducive to learning

Too much-too fast

Hand-outs not available for the session.

Was harder to grasp than RBC's, could have done with it a bit slower.

*The worst thing about this course was — **can't think of anything***

The Redheugh Bridge

To much 'white noise' in the room from next door

To much information, although very helpful

Recommendations 2003

- Develop participant handbook
- Handbook to be provided prior to course commencement
- Need for change of venue

Working Group

2003 - 2010

- Dr Jonathan Wallis
Consultant Haematologist
- Susan Whitehead
Transfusion Nurse
- Dr Hazel Tinegate
Consultant haematologist
NHSBT

2012

- Dr Jonathan Wallis
Consultant Haematologist
- Dr Hazel Tinegate
Consultant Haematologist
- Mr Chris Elliot
Senior Biomedical Scientist
- Susan Whitehead
Transfusion Practitioner
- Lyn Taylor
Administrator

Course 2014 -- 2015

- Course has started for the 6th time
- Long way to Travel to Newcastle
- We have received a lot of interest

Candidates

- **2010 – 2011** Applications accepted from Laboratory based Biomedical Scientists
- Transfusion Practitioner with Nursing or BMS background
- Increased the Group to 20 Candidates

Information

- Participant handbook prior to course Commencement
 - Time Table
 - Venues
 - Assignment
 - Maps
- Contact Details of course leaders

Date/Time	9.30-10:30	10:30-10:45	10:45 – 12:15	12:15-13:00	13:00-13:30	13:30 – 15:00	15:00-15:15	15:15 – 15:55 15:55 – 16:30
17 th September 2014 NBS	Welcome and over view of transfusion	Coffee	Donor eligibility/ screening/Blood Collection	Lunch	Journal club How to read papers	Visit to processing and QM Visit to processing and donor suite		Donor to Patient Traceability/Problems with donor recall MHRA
15 th October 2014 NBS	Haemolytic Reactions	Coffee	DNA Typing/ABO and other red cell antigens/ Basic serology	Lunch	Journal Club	Management of patients with atypical antibodies	Coffee	NEQAS. Hospital Blood Bank stock control
12 th November 2014 FH	Red Cell & Platelet Storage Effects	Coffee	Bone marrow Collection	Lunch	Journal Club	Cryopreservation	Coffee	Bone Marrow Transplant overview ABO Mismatch BMT
10 th December 2014 FH	Epidemiology of Red Cell /Platelet Transfusion	Coffee	Red cells Transfusion Case Studies	Lunch	Journal Club	Platelet Physiology	Coffee	Indication for Red Cell production/ erythropoietin
7 th January 2015 FH	Red cell and Platelet Storage effects	Coffee	Haemostasis	Lunch	Journal Club	Medical Platelet use: Indications valid etc Platelet refractoriness	Coffee	Use of FFP, Cryoprecipitate, FViia, Fviii, Beriplex,
4 th February 2015 FH	Surgical Haemorrhage/ Shock	Coffee	GI bleeding Obstetric Haemorrhage	Lunch	Journal club	Major Haemorrhage Pre hospital care Major Haemorrhage Hospital care	Coffee	Coagulopathies in Major Trauma Major Haemorrhage pack/ Blood bank Prospective

Date/Time	9.30-10:30	10:30-10:45	10:45 – 12:15	12:15-13:00	13:00-13:30	13:30 – 15:00	15:00 - 15:15	15:15 – 15:55 15:55 – 16:30
4 th March 2014 FH	Jehovah's Witness/EPO	Coffee	Cell Salvage and Blood Sparing Surgery Peri operative use of Iron	Lunch	Journal Club	Haematological complications of pregnancy Use of Anti D	Coffee	Transfusion transmitted infections Epidemiology of vCJD
1 st April 2015 FH	Neonatal Transfusion	Coffee	Paediatric Haematology/oncology Transfusion Paediatric Transfusion	Lunch	Journal Club	Transfusion Management of Haemoglobinopathy Use of Anti D	Coffee	Solid Organ Transplantation
29 th April 2015 FH	Transfusion in Cardiac Surgery	Coffee	Transfusion Reactions	Lunch	Journal Club	Renal disease and Transfusion use of EPO outside Renal Disease	Coffee	iron overload With case scenarios
27 th May 2015 FH	Blood Bank Empowerment Consent/Nurse authorising	Coffee	IT and Blood Transfusion Like it or loathe it Path Modernisation/ Remote issue	Lunch	Journal Club	Poster Presentations	Coffee	Poster Presentations
24 th June 2015 FH	W.H.O.	Coffee	Blood Transfusion European Experience	Lunch	Journal Club	Poster Presentations	Coffee	Awards

Conclusion

- To give a Greater clinical understanding of Blood Transfusion
- Comments of the course are about the same as in the past years
- Important to keep assessment

Any Questions

