

2002

Dr.P.R.L.Morawakage,
National blood transfusion service,
No555/5, Alvitigala Mawatha,
Narahenpita, Colombo 5
Sri Lanka

The administrative officer,
WASPaLM administrative office,
5F Takahashi building,
1-7-1 Sanugakucho Chiyoda-ku
Tokyo 101-0064
Japan

Dear Sir,

Please find enclosed herewith my training records in connection with the training I had in UK on transfusion medicine. I hope you will find it satisfactory.

I take this opportunity to thank you all for the excellent support rendered towards me within short period of time and selecting me for this training to enable me to upgrade my knowledge and service to my country in future. Please accept my gratitude for your kind commitment to nations like our country.

I am looking forward to upgrade our transfusion service with the knowledge and expertise which I gathered from my training in UK and hope to hear from you all in near future.

I wish you all the best and look for your future efforts to help the nations who need support to upgrade their knowledge in health sector.

Thank you once again for my excellent training

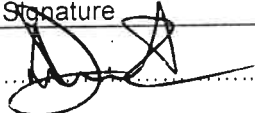
Best regards

A handwritten signature in cursive script, reading 'P.R.L. Morawakage', with a horizontal line underneath.

Dr. P.R.L.Morawakage

Progress report of training in UK

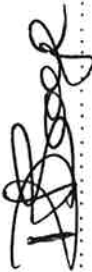
Dr. P.R.L.Morawakage

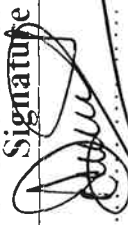
Period	Training	Venue	Signature
7 th Jan. to 30 th Jan	Intermediate Transfusion Medicine course (Theory & practical) Programme schedule is attached	NBS - Colindale	 Mr. A. Devenish Training co-ordinator NBS
2 nd Feb. to 6 th Feb	Activities that are undertaken – component processing & quality assurance Donation testing & microbiology Blood grouping & antibodies Issues of products to hospitals	NBS - Colindale	 Mr. A. Devenish Training co-ordinator NBS
9 th of Feb to 29 th of Feb	Theory Transplantation & Transfusion Immunology (MSc in Medical Immunology) Programme schedule is attached	NBS - Colindale	 27/02/04 Dr. Deborah Sage Head , H&I Department, NBS Tooting
	Practical Sample reception & sorting out of samples DNA extraction by automation & salting out technique DNA quantification Pre PCR set up of class 1 & class 11 typing PCR & post PCR work Gel preparation for electrophoresis Gel electrophoresis of PCR products DNA imaging & gel documentation PCR data analysis & results interpretation	NBS - Tooting	 27/02/04 Dr. Deborah Sage Head , H&I Department, NBS Tooting

Progress report of training in UK

Dr. P.R.L.Morawakage

From 1st March to 30th April 20004

Period	Section		Venue	Signature
1 st March to 8 th April 2004	Molecular		H & I Department National blood service Tooting	 Dr. Deborah Sage Consultant Clinical Scientist – Head H&I Department NBS- Tooting
	Practical	Theory		
	HLA typing & results interpretation by PCR-SSP technique (moderate resolution) in following conditions: Platelet donor typing Family studies in BMT recipient Testing for disease association Vaccination studies Research work Reconfirmation of typing before transplant Short tandem repeat for chimerisam in post BMT	Polymorphism in HLA & different PCR technique HLA & disease association Rare & common combination of haplotypes Correlation of allelic type serological specificity Family studies for BMT Chimerisam in post BMT		
3 rd & 4 th March 2004	Special Modules		NBS - Colindale	 Mr. A. Devenish Training coordinator - NBS
	HLA/Stem Cell Transplantation Module for specialist Registrars Program schedule is attached.			

Period	Special Modules		Venue	Signature
9 th & 10 th March 2004	Transfusion Microbiology Module for Specialist Registrars Program schedule is attached.		NBS - Colindale	 Mr. A. Devenish Training coordinator -NBS
13 th April to 30 th April	Serology Section		H & I Department National blood service Tooting	 Dr. Deborah Sage Consultant Clinical Scientist – Head H&I Department NBS- Tooting
	Practical	Theory		
	Peripheral blood lymphocyte separation by density gradient method B Lymphocyte separation by magnetic beads Testing of cell viability & concentration for LCT Freezing of cells at –80C for LCT Thawing of frozen cells Preparation of compatibility test plates with & with out DTT Cross match technique Cross matching with enhancing techniques	Investigation of renal transplant recipient Comparison of test methods for antibody screening Interpretation of compatibility test results Interpretation of antibody screening results		

Progress report of training in UK

Dr. P.R.L.Morawakage

May - 2004

Practical	Theory	Venue	Signature
Preparation of master plates with & without DTT for antibody identification. Antibody identification by LCT method. Testing with random donor cells. Selection of frozen cells for LCT method. Thawing of frozen cells. Antibody identification by ELISA technique (class I & class II). Application of Luminex technology for antibody identification. CDC cross match with enhancing techniques. Cross match with cadaver donor- on call. Separation of lymphocytes from spleen sample. Live donor cross match.	Interpretation antibody identification results. Result interpretation of ELISA antibody identification. Interpretation of cross match results. Quality control. Validation of reagents. Antibody identification assessments. Level 1,2,3 Application of HLA serology techniques in renal transplantation.	H & I Department, National blood Service, Tooting, London.	 Dr. Deborah Sage, Consultant clinical Scientist - Head H & I Department National Blood Service, Tooting, London.

Intermediate Transfusion Medicine Course

January 2004

NBS - Colindale

All tutorials in Lecture Theatre 2 unless stated otherwise.

Mon. 05 January	10.00	Course Objectives	Mr A Devenish Dr J Harrison
	10.30	Recruitment and selection of blood donors Donor care/ follow-up/ case studies	Dr M Inskip
	12.00	Donor apheresis in the NBS	Dr J Harrison
	14.00	NBS Overview & tour of Colindale Centre	Mr A Devenish
Tues. 06 Jan	09.30	Introduction to blood groups	Mr M Redman
	10.30	ABO groups – the laboratory perspective	Mr A Devenish
	11.30	Rh – a beginner's guide	Mr A Devenish
	13.30	Non-microbiological testing of donations and the blood bag label	Mr L Lau
	14.30	Preparation, processing & QM of blood components - Components Portfolio	Mr M Haines
	16.00	Immunohaematology case studies	Mr A Devenish
Wed. 07 Jan	09.30	Basic and Applied Immunology	Dr D Turner
	14.15	Practical - 1	
Thurs. 08 Jan	09.30	Application of other blood group systems	Mr M Redman
	14.00	Trigger factors for red cell transfusion	Dr H Boralessa
		Adverse reactions to blood transfusion (other than infection) and reporting to SHOT	Dr H Boralessa
Fri. 09 Jan	10.00	Selection of reagents for pre-transfusion testing	Mr G Campbell Sick
	11.15	Current laboratory methods in antibody detection & identification	Mr A Devenish
	13.30	Practical - 2	

Programme subject to change

Intermediate Transfusion Medicine Course

January 2004

NBS - Colindale

Mon. 12 Jan	10.00	QA/ QC & automation in the hospital blood bank	Mr G Webb
	11.30	Principles of Pre-Transfusion testing – Past, Present and Future	Mr A Devenish
	14.00	Provision of blood for patients: Transfusion dependent and rare groups	Mr M Redman
	15.15	Role of the Issue department & BSMS	Mr D McNamara
Tues. 13 Jan	09.30	Appropriate use of blood in Paediatrics and Neonatology	Dr H New
	11.00	The ABO Blood Group System	Dr G Daniels
	13.30	The Rh Blood Group System	Dr G Daniels
	15.15	Practical 3	
Wed. 14 Jan	10.00	Documentation in the clinical setting – ensuring safe hospital practice	Dr D Cummins
	11.15	The clinical interface - Role of the hospital blood bank haematologist & HTC's	Dr C Taylor
	14.00	Tissue Banking	Ms A Ranson
	15.45	Fractionated Blood Products	Dr Clive Dash
Thurs. 15 Jan	10.00	Antenatal testing and quantification of red cell antibodies; including AutoAnalyzer, FC & CL	Mr P Fleetwood
	11.30	Case studies	Mr P Fleetwood
	14.00	Practical - 4	
Fri. 16 Jan	10.00	The use of blood components, as per BCSH guidelines - FFP, platelets & rbc Selection of blood / products in various clinical situations	Dr F Regan
	11.30	Components development	Dr R Cardigan
	14.00	HDN and its prevention & treatment Uses of anti-D Ig	Dr M de Silva

Programme subject to change

Intermediate Transfusion Medicine Course

January 2004

NBS - Colindale

Mon. 19 Jan	09.30	Auto Immune Haemolytic Anaemia - the clinical aspect with case studies ITP and auto-immune cytopenias	Dr D Provan
	11.15	Alloimmunisation in SCD & other transfusion dependent patients	Dr D Provan
	13.30	Laboratory investigation of a positive DAT	Mr P Fleetwood
	15.00	Use of flowcytometry to monitor minor cell populations	Mr G Burgess
	16.00	Better Blood Transfusion: The SHOT Report & Alternatives to allogeneic blood transfusion	Dr J Harrison
Tues. 20 Jan	09.30	Microbiological agents	Dr P Hewitt
	13.30	Microbiological testing of donations	Dr J Barbara
	15.30	Genomic Testing	Dr R Eglin
Wed. 21 Jan	09.30	Bacterial Issues	Dr S Hartley
	10.30	CJD/ vCJD	Dr P Hewitt
	11.45	Quality control in Transfusion Microbiology	Mr D Wenham
	14.00	Microbiology case studies	Dr P Hewitt
	15.30	Post test discussion with donors	Dr C Moore
	16.30	Transfusion Microbiology surveillance	Dr D Howell
Thurs. 22 Jan	09.30	Basic HLA system HLA and blood transfusion (incl. TA-GvHD)	Dr D Turner
	11.15	HLA and BMT - incl. registries and searches	Dr J Brown
	14.15	HLA and BMT - techniques applied in donor/ recipient testing	Dr J Brown
	15.30	GvHD & Cytokines	Dr D Turner
Fri. 23 Jan	10.00	Platelet and granulocyte antigens & antibodies covering NAITP, TTP and HIT	Dr W Ouwehand
	11.45	Platelet refractoriness & provision of HLA matched platelets - clinical & lab. aspects	Dr J Harrison Dr C Brown
	14.00	Practical - 5	

Programme subject to change

Intermediate Transfusion Medicine Course
January 2004
NBS - Colindale

Mon. 26 Jan	09.30	Assessment of clinical significance of red cell antibodies in pre-transfusion testing	<i>Prof. M Contreras</i>
	11.15	Exam advice	<i>Dr P Hewitt</i>
	11.45	TBC	
	13.30	Leucocyte depletion and platelet transfusion FFP - where are we now & where are we going?	<i>Dr L Williamson</i>
Tues. 27 Jan	10.00	Screening for IgA deficiency	<i>Mr M Redman</i>
	11.00	The evidence base for transfusion	<i>Dr S Stanworth</i>
	12.00	Therapeutic Apheresis	<i>Dr A Mijovic</i>
	14.00	Practical - 6	
Wed. 28 Jan	10.00	Role of haemopoietic growth factors in Transfusion Medicine	<i>Dr A Mijovic</i>
	11.15	Blood Transfusion in patients undergoing haemopoietic cell and solid organ transplantation	<i>Dr A Mijovic</i>
	14.15	Interesting clinical case (TRALI, IgA deficiency, hyper-haemolysis in SCD)	<i>Dr N Win</i>
Thurs. 29 Jan	09.30 - 12.30	Course Assessment Exam	<i>Attendees</i>
	13.30 -	Exam review	<i>Dr P Hewitt</i>
Fri. 30 Jan	09.30 - lunch	Outstanding red cell cases/ practical discussion/ course evaluation/ feedback	<i>Mr A Devenish/ Dr J Harrison</i>

NB. No certificate of attendance will be issued unless the course assessment test is completed

Programme subject to change

MSc IN MEDICAL IMMUNOLOGY



MODULE 9: TRANSPLANTATION & TRANSFUSION IMMUNOLOGY



Tuesday, 13 January - 24 February 2004

**Module co-ordinators:
Cristina Navarrete, Peter Amlot & David Turner**

FINAL PROGRAMME

DAY 1: Tuesday, 13 January 2004 – Venue: LT1, NBS

- | | |
|--------------------|---|
| 09:00-09:15 | Introduction
<i>Dr Cristina Navarrete (NBS/RF&UCMS)</i> |
| 09:15-10:15 | Immunology of transplantation: An overview
<i>Dr Peter Amlot (RF&UCMS)</i> |
| 10:15-11:00 | Immunology of blood transfusion
<i>Dr Cristina Navarrete (NBS/RF&UCMS)</i> |
| 11:00-11:30 | Coffee |
| 11:30-12:15 | HLA: The human MHC
<i>Dr David Turner (NBS/RF&UCMS)</i> |
| 12:15-13:30 | Lunch |
| 13:30-14:30 | H-2: The mouse MHC
<i>Dr Nigel Yeatman (Queen Mary & Westfield College)</i> |
| 14:30-15:15 | Antigen presentation by MHC class I molecules
<i>Dr Paul Travers (Anthony Nolan Research Institute, London)</i> |
| 15:15-15:45 | Tea |
| 15:45-16:30 | Antigen presentation by MHC class II molecules
<i>Dr Paul Travers (Anthony Nolan Research Institute, London)</i> |

DAY 2: Tuesday, 20 January 2004 - Venue: LT1, NBS

- 09:15-10:15** Minor histocompatibility antigens
Professor Elizabeth Simpson (MRC Clinical Sciences Centre, Imperial College of Science, Technology & Medicine)
- 10:15-11:00** Allorecognition: direct and indirect T cell activation
Dr Giovanna Lombardi (Imperial College of Science, Technology & Medicine)
- 11:00-11:30** Coffee
- 11:30-12:15** NK cells in transplantation
Dr David Briggs (NBS, Birmingham)
- 12:15-13:30** Lunch
- 13:30-14:30** Cellular and humoral mechanisms of allograft rejection
Dr Andrea Harmer (NBS, Sheffield)
- 14:30-15:15** Heart transplantation
Professor Marlene Rose (Imperial College of Science, Technology & Medicine/ Harefield Hospital)
- 15:15-15:45** Tea
- 15:45-16:30** Non-HLA gene polymorphisms and their relevance in transplantation
Dr David Turner (NBS/RF&UCMS)

DAY 3: Tuesday, 27 January 2004 - Venue: LT1, NBS

- 09:15-10:15** Immunosuppressive drugs
Dr Peter Amlot (RF&UCMS)
- 10:15-11:00** Immunomodulation – MoAb
Dr Peter Amlot (RF&UCMS)
- 11:00-11:30** Coffee
- 11:30-12:15** Post-transplantation malignancies
Dr Peter Amlot (RF&UCMS)
- 12:15-13:30** Lunch
- 13:30-14:30** Transplantation tolerance: Animal models and prospects for operational tolerance in man.
Dr Andrew Bushell (Nuffield Dept of Surgery, John Radcliffe Hospital, Oxford)
- 14:30-15:15** Xeno-transplantation
Dr Anthony Dorling (Imperial College School of Medicine/Hammersmith Hospital)
- 15:15-15:45** Tea
- 15:45-17:00** Renal transplantation
Professor Stephen Powis (RF&UCMS)

DAY 4: Tuesday, 3 February 2004 - Venue: LT1, NBS

- 09:15-10:15 Allogeneic transplant: current indications and outcome
Professor Jane Apperley (Imperial College School of Medicine/Hammersmith Hospital)
- 10:15-11:00 The immunogenicity of non-self blood cell antigens and the clinical significance of alloantibodies
Dr Willem Ouwehand (NBS/University of Cambridge)
- 11:00-11:30 Coffee
- 11:30-12:15 Clinical use of microchimerism detection following haemopoietic stem cell transplantation
Dr Derwood Pamphilon (NBS, Bristol)
- 12:15-13:30 Lunch
- 13:30-14:30 Dissecting the GvH from the Graft versus Leukaemia (GVL) effect
Dr Mark Lowdell (RF&UCMS)
- 14:30-15:15 Clinical Immunotherapy
Dr Francesco Dazzi (Imperial College School of Medicine/Hammersmith Hospital)
- 15:15-15:45 Tea
- 15:45-16:30 Post transplant monitoring using VNTRs and TRECs
Dr Paul Travers (Anthony Nolan Research Institute, London)

DAY 5: Tuesday, 10 February 2004 - Venue: LT1, NBS

- 09:15-10:15 Cord blood banking / transplantation
Mrs Sue Armitage (NBS, Edgware)
- 10:15-11:00 HLA and stem cell transplantation
Dr Cristina Navarrete (NBS/RF&UCMS)
- 11:00-11:30 Coffee
- 11:30-12:15 HLA and blood transfusion
Dr Cristina Navarrete (NBS/RF&UCMS)
- 12:15-13:30 Lunch
- 13:30-14:30 Transfusion related acute lung injury (TRALI)
Colin Brown (NBS, Colindale)
- 14:30-15:15 Immunological platelet refractoriness
Colin Brown (NBS, Colindale)
- 15:15-15:45 Tea
- 15:45-16:30 Reproductive Immunology
Dr Gillian Vince (University of Liverpool)

DAY 6: Tuesday, 17 February 2004 - Venue: LT1, NBS

- 09:15-10:15 Immunological aspects of blood transfusion
Professor Marcela Contreras (NBS/RF&UCMS)
- 10:15-11:00 Tissue engineering and transplantation
Dr John Kearney (NBS, Sheffield)
- 11:00-11:30 Coffee
- 11:30-12:15 Ethical issues in transplantation
Dr Derwood Pamphilon (NBS, Bristol)
- 12:15-13:30 Lunch
- 13:30-14:30 Stem cell development
Dr Suzanne Watt (NBS, Oxford)
- 14:30-15:15 Cord blood immunology
Dr Cristina Navarrete (NBS/RF&UCMS)
- 15:15-15:45 Tea
- 15:45-16:30 Blood transfusion in patients undergoing haemopoietic stem cell and solid organ transplantation
Professor Marcela Contreras (NBS/RF&UCMS)

DAY 7: Tuesday, 24 February 2004 - Venue: LT1, NBS

- 09:15-10:15 HLA antibody screening and applications
Dr Deborah Sage (NBS, Tooting)
- 10:15-11:00 Antibody crossmatching techniques and applications
Dr Deborah Sage (NBS, Tooting)
- 11:00-11:30 Coffee
- 11:30-12:15 Graft versus Host Disease (GvHD)
Dr Deborah Sage (NBS, Tooting)
- 12:15-13:30 Farewell lunch
- 13:30-14:30 Cellular techniques used in transplantation
Dr Ed Kaminski (Derriford Hospital, Plymouth)
- 14:30-15:15 HLA typing using DNA based techniques
Dr Juliette Brown (NBS, Colindale)
- 15:15-15:45 Tea
- 15:45-16:30 Module Assessment

NATIONAL BLOOD SERVICE

LONDON AND THE SOUTH EAST

Advanced Transfusion Medicine Training



HLA/Stem Cell Transplantation Module
for Specialist Registrars
3rd & 4th March 2004
NBS - North London (Colindale), London NW9 5BG

3rd March - Lecture Theatre 2

09:00	HLA System	David Turner
09.45	HLA & Blood Transfusion	Cristina Navarrete
10.30	-----Tea-----	
11.00	Transfusion reactions:	Cristina Navarrete
	• Transfusion associated-GvHD	Nay Win
	• Transfusion related acute lung injury (TRALI)	
	Clinical and laboratory aspects	
12.30	-----Lunch-----	
13.30	Transfusion reactions:	Hari Boralessa
	• Immunological platelet refractoriness: Clinical and laboratory aspects	Colin Brown
14.30	HLA and non-HLA DNA typing techniques	Juliette Brown
15.15	-----Tea-----	
15.30	Blood Transfusion in Transplant Patients	Marcela Contreras
16.15	Close	

4th March - Lecture Theatre 2

09.00	Immunology of cord blood transplantation	Cristina Navarrete
10.00	Cord blood banking	Sue Armitage
11.00	-----Tea-----	
11.30	Post Transplant Chimerism Analysis	Juliette Brown
12.15	-----Lunch-----	
13.15	HLA and HSCT (PBSC, BM and CB), including MUD searches and registries	Debbie Sage
14.15	Other genetic systems involved in HSCT outcome (minor Hags, NK cells and cytokine polymorphisms)	David Turner
15.15	-----Tea-----	
15.30	Graft versus leukaemia effect	Francesco Dazzi
	Immunotherapy	
16.15	Close	

Transfusion Microbiology Module for Specialist Registrars

NBS – Colindale



DAY ONE

SETTING THE SCENE:

THE OUTSIDE ENVIRONMENT AND CURRENT PRIORITIES/PRESSURES

10.00	Registration and Coffee	
10.15	Introduction/setting the scene. What agents - current mandatory testing Medicolegal and regulatory issues	Dr Patricia Hewitt
11.00	NAT Testing Why test? CPMP implications; pooled plasma vs components; cost benefit	Dr Roger Eglin
12.00	Bacterial Contamination	Dr Stephen Hartley
13.00	Lunch	
14.00	Quality Framework: demonstration of testing and process control	David Wenham/ Alan Bendle
14.45	Tea	
15.00	Prions	Dr Roger Eglin
16.00	Close	

Transfusion Microbiology Module for Specialist Registrars

NBS – Colindale



DAY TWO

CLINICAL ASPECTS

WHAT ARE THE REAL ISSUES FOR DONORS AND PATIENTS TODAY?

10.00	"Counselling" of Donors	Dr Patricia Hewitt
10.45	Reporting of infectious complications	Dr Patricia Hewitt
11.00	Coffee	
11.15	Investigation of reported posttransfusion infection	Dr Patricia Hewitt
12.00	Case studies	Dr Patricia Hewitt
13.00	Lunch	
14.00	Basis of screening/confirmatory tests Surveillance and risk estimates: residual risk Seroconversion in new and repeat donors SHOT & TTI	Dr John Barbara
15.15	Other infectious agents/markers: existing and new - anti-HTLV - HIV antigen - HCV antigen - parvovirus B19 - HHV 8 - HAV - GBVc ("HGV") - TTV	Dr John Barbara
16.15 - 16.30	Assessment, tea and depart	