

OMAN MEDICAL SPECIALTY BOARD



المجلس العماني للاختصاصات الطبية

RESIDENCY TRAINING PROGRAMME

OMSB ADULT CLINICAL
HEMATOLOGY FELLOWSHIP
CHECKLIST AND LOG BOOK OF TRAINING
2007

OMSB Adult Clinical Hematology Fellowship Logbook of Training

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HEMATOLOGY SPECIALTY

VISION

The hematology training program will develop and strive to produce well qualified specialists who will provide the highest quality hematological services to the country.

MISSION STATEMENT

To develop specialists who will be able to diagnose, manage and prevent blood diseases in the individual and the community with competence, compassion, effective communication and management skills. These specialists will also be committed to excellence and be motivated to continuously upgrade themselves and conduct useful research in their discipline.

GENERAL INTRODUCTION:

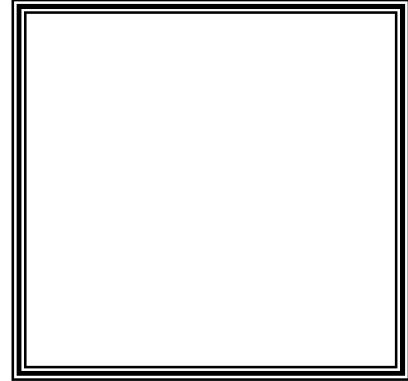
As part of the OMSB Hematology postgraduate training program, it is mandatory for each student to maintain a portfolio of their work during the course. The portfolio will consist of the following:

1. Checklist and Logbook of Training.
2. Records of important cases and discussions regarding diagnosis and management.
3. Documentation of lectures given as part of teaching experience.
4. Summaries of symposia attended.

This checklist and logbook of training is part of the overall portfolio. It is the responsibility of the student to ensure that it is duly filled in during their training and not retrospectively. The portfolio is a pre-requisite for the major examinations and will in addition contribute a percentage of the overall marks awarded.

**Hematology Specialty & Allied Training Centers: SQUH,
Royal Hospital & Central Blood Bank (MOH)**

IDENTIFICATION:



Name:

_____ :

OMSB No.:

_____ :

Staff No:

_____ :

Batch:

_____ :

Date of Registration:

_____ :

Name of Supervisor

1. _____ :

Chairman: Name & Signature

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms./Mrs.: _____
was under my supervision and has satisfactory completed this Log book
He/She candidate is deemed fit to appear for the final examination.

Supervisor: Name & Signature

OMSB ADULT CLINICAL HEMATOLOGY FELLOWSHIP

LOGBOOK OF TRAINING

R-1 ADULT Clinical Hematology Fellowship

LABORATORY HEMATOLOGY:

Period: 12 weeks

INTRODUCTION TO THE LABORATORY SERVICE

PROCEDURE	DATE	SUPERVISOR
Sample Collection, Transport and Storage		
Laboratory Safety		
Cell Counting (manual and automated)		
Quality Control		
Blood film / Marrow Preparation & Staining		

EXAMINATION OF BLOOD FILM AND CSF

PROCEDURE	DATE	SUPERVISOR
Differential WBC count		
RBC and Platelet Morphology		
Format of Blood Film Examination		
Interpretation of Blood Films		
Interpretation of CSF Cytospin		

EXAMINATION OF BONE MARROW ASPIRATE AND BIOPSY

PROCEDURE	DATE	SUPERVISOR
Identification of cells in Marrow Aspirate		
Identification of cells in Marrow Biopsy		
Format of Marrow Examination		
Interpretation of Marrow Aspirate & biopsy		

FLOWCYTOMETRY AND MOLECULAR TECHNIQUES IN HEMATOLOGICAL

DIAGNOSIS

PROCEDURE	DATE	SUPERVISOR
Principles of Flowcytometry		
Demonstration of Flowcytometry Techniques		
Interpretation of Flowcytometry Data		
Techniques in Diagnostic Molecular Biology		
Interpretation of Molecular Diagnostics		

HEMOGLOBINOPATHY LABORATORY

PROCEDURE	DATE	SUPERVISOR
Sickledex Test		
Hemoglobin Electrophoresis		
High Performance Liquid Chromatography		
Workup of Hemoglobinopathy		
Workup of Hemolytic Anemia		

HEMOSTASIS LABORATORY

PROCEDURE	DATE	SUPERVISOR
Manual and Automated Hemostasis Testing		
Platelet Function Tests		
Workup of Hemophilia		
Workup of Thrombophilia		

REPORTING OF BLOOD FILMS AND MARROW ASPIRATES AND DATA INTERPRETATION

PROCEDURE	DATE	SUPERVISOR
Blood Films		
Bone Marrow Aspirate		
Bone Marrow Biopsy		
Data Interpretation		

MORPHOLOGY CHECKLIST: BLOOD FILM

DISORDER	DATE	SUPERVISOR
Iron Deficiency Anemia		
Megaloblastic Anemia		
Thalassemia		
Sickle Cell Anemia		
G6PD Deficiency		
Schistocytes		
Microspherocytes		
Hereditary Spherocytosis		
Malarial Parasites		
Acute Myeloid Leukemia		
Acute Lymphoblastic Leukemia		
Chronic Myeloid Leukemia		
Chronic Lymphocytic Leukemia		
Essential Thrombocytosis		
Polycythemia Vera		
Idiopathic Myelofibrosis		
Immune Thrombocytopenia		

MORPHOLOGY CHECKLIST: BONE MARROW

DISORDER	DATE	SUPERVISOR
AML-M1		
AML-M2		
AML-M3		
AML-M4		
AML-M5		
AML-M6		
AML-M7		
Myelodysplastic Syndrome		
RA		
RARS		
RCMD-RS		
RAEB-1		
RAEB-2		
MDS-U		
ALL-L1		
ALL-L2		
ALL-L3		
Multiple Myeloma		
Essential Thrombocytosis		
Immune Thrombocytopenia		
Hemophagocytic Lymphohistocytosis		
Lieshmanasis		

MORPHOLOGY CHECKLIST: BONE MARROW BIOPSY

DISORDER	DATE	SUPERVISOR
Acute Myeloid Leukemia		
Acute Lymphoblastic Leukemia		
Myelodysplastic Syndrome		
Multiple Myeloma		
Myelofibrosis		
Immune Thrombocytopenia		
Essential Thrombocytosis		

RESIDENTS OWN CHECK LIST OF ABNORMAL MORPHOLOGY

DISORDER	DATE	SUPERVISOR

ADULT CLINICAL SERVICE

Period: 20 weeks

INPATIENT SERVICE

GENERAL SKILLS

SKILLS	DATE	SUPERVISOR
History and Physical Examination		
Differential Diagnosis		
Ordering Tests		
Interpretation of Investigations		
Presentation		
Communication		

MANDATORY CASES:

HEMATOLOGICAL MALIGNANCY

1. Acute Myeloid Leukemia

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

2. Acute Lymphoblastic Leukemia

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

3. Chronic Myeloid Leukemia

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

4. Chronic Lymphocytic Leukemia

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

5. Multiple Myeloma

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

6. Diffuse Large Cell Non Hodgkins Lymphoma

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

7. Low Grade Non Hodgkins Lymphoma

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

8. Hodgkins Lymphoma

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

9. Myelodysplastic Syndrome

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

10. Polycythemia Vera

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

11. Essential thrombocytosis

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

12. Myelofibrosis

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		
Palliation		

BENIGN HEMATOLOGY:

1. Sickle Cell Disease

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

2. Thalassemia Major

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

3. Autoimmune Hemolytic Anemia

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

4. Idiopathic Thrombocytopenic Purpura

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

5. Hemophilia A

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

6. von Willebrands Disease

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

7. Deep vein thrombosis

ASPECT	DATE	SUPERVISOR
Diagnosis		
Management		
Current Protocols		
Counseling		

OUTPATIENT SERVICE

SUBJECT	DATE	SUPERVISOR
Follow up Patients		
New Referred Patients		

CONSULTATIONS:

Obstetrics and Gynecology

REASON FOR CONSULT	DATE	SUPERVISOR
Bleeding		
Anemia		
Thrombocytopenia		
Abnormal Coagulation for Surgery		
Blood and Component Support		
Sickle Cell Disease in Pregnancy		
Thrombocytopenia in Pregnancy		
Thrombosis		

Surgery

REASON FOR CONSULT	DATE	SUPERVISOR
Bleeding		
Anemia		
Thrombocytopenia		
Abnormal Coagulation for Surgery		
Blood and Component Support		
Thrombosis		

Intensive Care Unit

REASON FOR CONSULT	DATE	SUPERVISOR
Bleeding		
Anemia		
Thrombocytopenia		
Abnormal Coagulation for Surgery		
Blood and Component Support		
Thrombosis		
DIC		

Thalassemia Service And Genetic Counseling

SUBJECT	DATE	SUPERVISOR
Transfusion Regimens		
Chelation programs		
Data Management		
Complications		
Counseling		

PEDIATRIC HEMATOLOGY:

Period: 8 weeks

Pediatric Clinical Hematology

SUBJECT	DATE	SUPERVISOR
Leukemia/Lymphoma		
Sickle Cell Disease and haemoglobinopathies		
ITP and Congenital bleeding disorders		
Acute and Chronic anemias		
Histiocytosis syndrome		
Procedures		

Pediatric Immunology Storage Disorders

SUBJECT	DATE	SUPERVISOR
Common Primary Syndrome in Oman		
Approach to Diagnosis: Algorithms		

DISEASE	DATE	SUPERVISOR
Phagocyte Disorders		
B cell immunodeficiency		
Common Variable Immunodeficiency		
Severe Combined Immunodeficiency		

R-2 ADULT Clinical Hematology Fellowship

ADULT CLINICAL SERVICE:

Period: 24 weeks

INPATIENT

SUBJECT	DATE	SUPERVISOR
Conducting Rounds		
Independent Decision Making		
Liaising with allied specialties		
Counseling		

OUTPATIENT

SUBJECT	DATE	SUPERVISOR
Conducting Outpatient Service		
Admitting the Sick Patient		
Liaising with allied specialties		
Counseling		

CONSULTATIONS

SUBJECT	DATE	SUPERVISOR
Attending to Consults		
Follow up of Consults		
Consultation Notes		
Liaising with allied specialties		

TEACHING

SUBJECT	DATE	SUPERVISOR
Bedside Teaching		
Formal Lectures		
Tutorials		
Setting Questions		
Assessment		

TRANSFUSION MEDICINE:

Period: 8 weeks

SAFE BLOOD DONATION

SUBJECT	DATE	SUPERVISOR
Donor recruitment		
Blood collection: Donation to final product		
Medical problems related to donors		
Autologous blood donation		
Donor counseling		

BASIC PRINCIPLES AND TECHNIQUES IN BLOOD BANKING

SUBJECT	DATE	SUPERVISOR
Principles		
Molecular Techniques		
Basic Immunology		
Blood group genetics		
Platelet and Neutrophil antigens		
Compatibility Testing		
ABO blood groups and antibodies		
RBC antigen-antibody reactions		
RhD antigen and antibody		
Other RBC antigen-antibody systems		
Compatibility Procedures		
ABO incompatible RBC transfusion		

IMMUNOHEMATOLOGY

SUBJECT	DATE	SUPERVISOR
Serological Principles		
Pre-transfusion Testing		
Detection and identification of antibodies		
Direct Antiglobulin Test		
Immune mediated hemolysis		
Serological Problems of Auto-antibodies		
Drug-induced immune hemolysis		

INFECTION SCREENING, TRANSFUSION COMPLICATIONS AND ISSUE OF BLOOD

SUBJECT	DATE	SUPERVISOR
Diagnosis and Management of Transfusion complications		
Screening Blood for transfusion transmissible infections		
Storage and Quarantine		
Issue of blood and blood components		

COMPONENT PREPARATION AND CLINICAL USE

SUBJECT	DATE	SUPERVISOR
Component Processing		
Manufacture of Plasma Derivatives		
Clinical Considerations in Transfusion Practice		
Indications and Administration of Blood Components		

BLOOD TRANSFUSION IN INFANCY

SUBJECT	DATE	SUPERVISOR
Neonatal and Pediatric Transfusions		

APHERESIS AND CRYOPRESERVATION

SUBJECT	DATE	OBSERVED	SUPERVISOR
Principles of automated apheresis			
Apheresis of blood components			
Therapeutic Apheresis			
Cryopreservation of marrow and PBSC			
Cord Blood Banking			

BLOOD UTILIZATION AND REVIEW

BLOOD UTILIZATION REVIEW	DATE	SUPERVISOR
Knowledge of Process		
Participation in BUR Meeting		

BONE MARROW TRANSPLANTATION

Period: 12 weeks

SUBJECT	DATE	SUPERVISOR
Counseling		
Pre BMT workup		
Harvesting BM and PBSC		
Conditioning		
Stem Cell Processing		
Supportive Care		
Antimicrobial Therapy and Prophylaxis		
BMT-related Complications		
BMT-related Imaging		
BMT-related Histopathology		
BMT-related Microbiology		
Role of Allied Specialties in BMT		
Engraftment and Chimerism		
Post Transplant Follow up		
Re-immunization		
Relapse and Rejection		

PROCEDURES	PERFORMED	OBSERVED	SUPERVISOR
Marrow Harvest			
PBSC Collection			
Cryopreservation			
Plasma Reduction			
RBC Depletion			
Skin Biopsy			
Marrow Aspirate/Bx			
Lumbar Puncture			

R-3 ADULT Clinical Hematology Fellowship

AREA OF INTEREST:

Period: 6 months

Subject Chosen:

ASPECT	DATE	SUPERVISOR

ONCOLOGY AND RADIATION THERAPY:

Period: 8 weeks

RADIATION THERAPY

SUBJECT	DATE	SUPERVISOR
Principles of Radiation Therapy		
Indications		
Doses: Therapeutic and Toxic		
Adverse Effects		

ONCOLOGY

SUBJECT	DATE	SUPERVISOR
Solid Tumours		
Lymphomas		

PALLIATION AND PAIN MANAGEMENT

SUBJECT	DATE	SUPERVISOR
Types of Palliative Care		
Methods of Pain Control		

RESEARCH:

Period: 12 weeks

Research Topic:

1. Research methodology.
2. Basic statistics for research.
3. Submit a project.
4. Conduct research.
5. Analysis of data.
6. Prepare for submission to a journal.

SUBJECT	DATE	SUPERVISOR
Research Methodology and Statistics		
Project submission		
Initiation of Research project		
Data Analysis		
Presentation of Results		
Submission to Journal		

Resident Adult Clinical Fellowship Forms

- Journal Club Presentation
- Case History Clerking with Note

JOURNAL CLUB PRESENTATION

No.	Date	Topic	Remarks
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

Supervisor: Name & Signature

Minimum numbers of seminars () presented/attended.

CASE HISTORY CLERKING WITH NOTE

No.	Date	Diagnosis	I.P. No.	Remarks
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

Supervisor: Name & Signature