

MMMP – Clinical Phase 2

Presented by

Prof. Nagy Sayed-Ahmed

The overall aims of the MBBCh programme – 1

- Education in basic and clinical aspects of human biology and diseases
- Acquire knowledge and understanding of
 - health and its promotion,
 - the origin, prevention, diagnosis and management of disease and injury,
 - the impact of illness and disability on the individual and his/her place in the family and in society

The overall aims of the MBBCh programme – 2

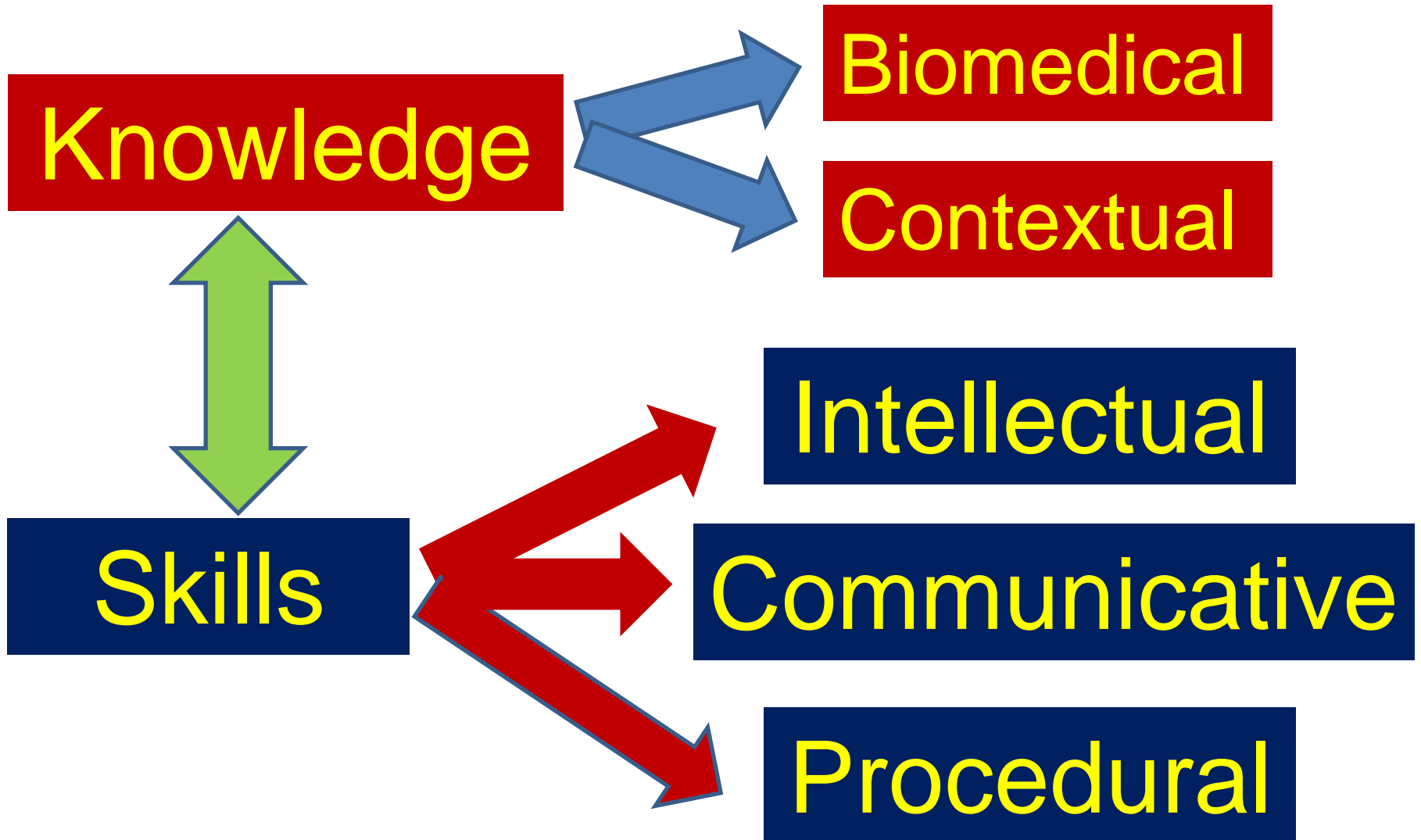
- proficiency in the basic clinical skills: ability to
 - obtain history,
 - undertake a comprehensive examination and interpret the findings
 - demonstrate competence in the performance of a limited number of basic clinical technical skills
- acquire attitudes and professional behaviour necessary for the achievement of high standards of medical practice

The Objectives of the MMMP

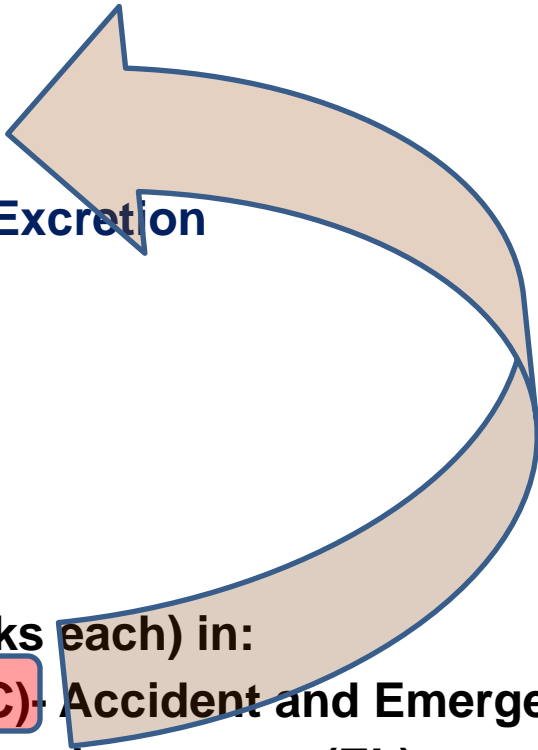
Essential to the practice of medicine –

- Knowledge:
 - Normal and abnormal structure and function
 - Pathogenesis and epidemiology
 - Presentation and diagnosis
 - Prevention and management
- Skills:
 - Clinical method
 - Basic clinical procedures
- Attitudes and Competence needed to practice medicine as a pre-registration house officer

The Pillars of Education



MMMP Arrangement Old

- **Semester 1: Foundation**
 - **Semester 2: Life cycle**
 - **Semester 3: Cardio-Respiratory Fitness**
 - **Semester 4: Abilities and Disabilities**
 - **Semester 5: Nutrition and Metabolism**
 - **Semester 6: Nutrition-Metabolism and Excretion**
 - **Semester 7: Heart-Lungs and Blood**
 - **Semester 8: Families and Children**
 - **Semester 9: Mind and Movements**
 - **Semester 10: Special Senses**
 - **Semesters 11 and 12: 4 blocks (12 weeks each) in:**
 - Tropical & Communicable Diseases (TC)**
 - Accident and Emergency (AE)**
 - Cancer studies and Imaging (CI)**
 - and Elective course (EL).**
- 

MMMP Arrangement New

- **Semester 1: Foundation**
- **Semester 2: Life cycle**
- **Semester 3: Cardio-Respiratory Fitness**
- **Semester 4: Abilities and Disabilities**
- **Semester 5: Nutrition and Metabolism**
- **Semester 6: Tropical and Community Medicine**

- **Semester 7: Heart-Lungs and Blood**
- **Semester 8: Nutrition-Metabolism and Excretion**
- **Semester 9: Mind and Movements**
- **Semester 10: Families and Children**
- **Semesters 11 and 12: 4 blocks (12 weeks each) in: Special Senses (SS)- Accident and Emergency (AE)-Cancer studies and Imaging (CI) and Elective course (EL).**

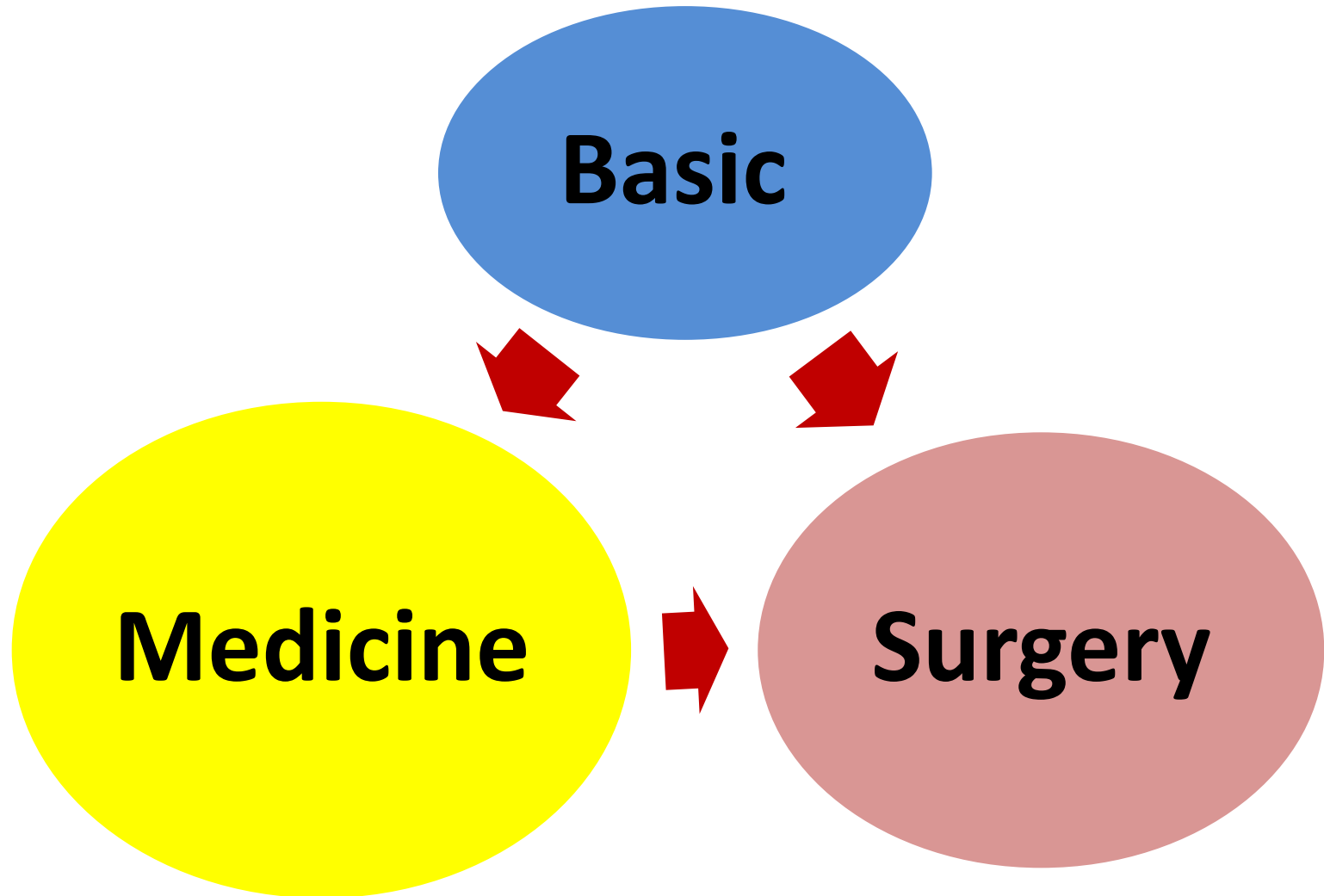
Overview of Phase 2

- **years 4 and 5 (semester 7-10)**
- **Each semester is an 18-week Course (Semester 10 is ~20 weeks)**
- **½ day of each week will be devoted to individualized Student-Selected Components (SSC)**

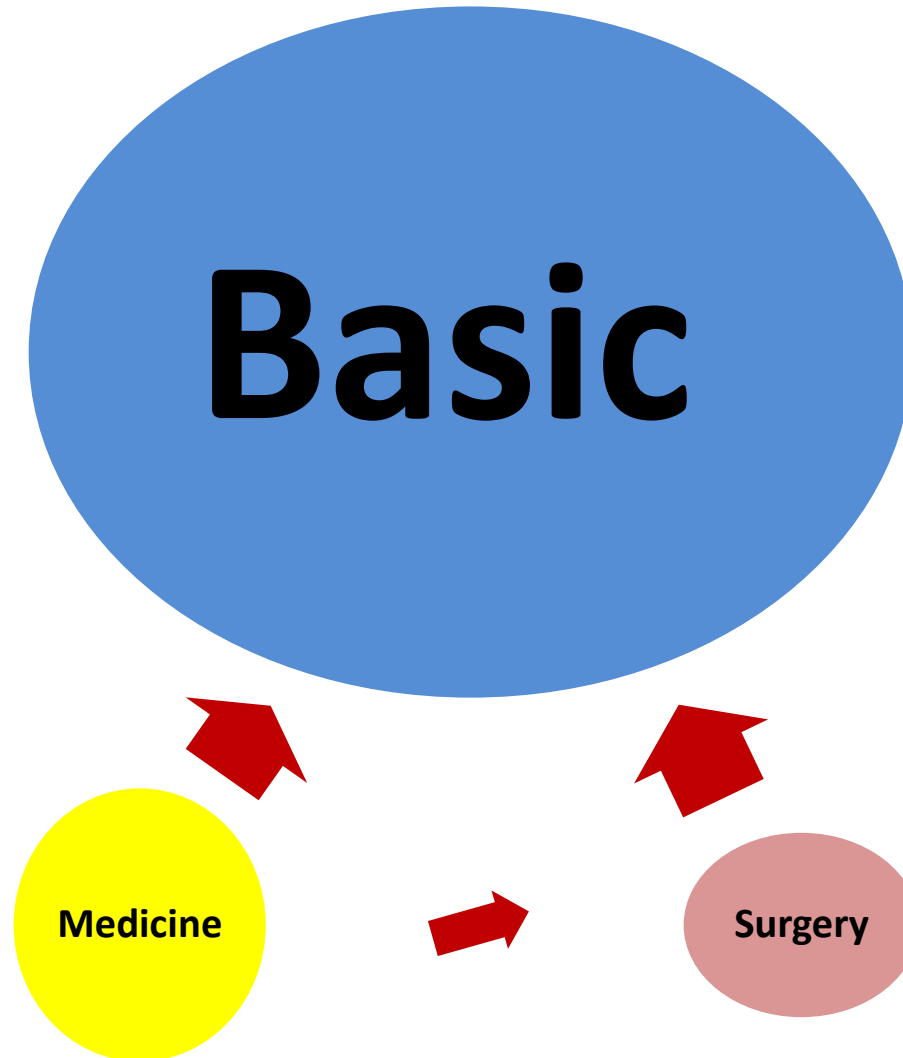
Phase 2

- **Semester 7: Heart-Lungs and Blood**
 - **Cardiology, Chest, & Haematology**
- **Semester 8: Nutrition-Metabolism and Excretion**
 - **Hepatogastroenterology, Endocrinology and Metabolism, Nephrourology**
- **Semester 9: Mind and Movements**
 - **Neuropsychiatry, Rheuma. Rehab, Orthopedics, Neurosurgery**
- **Semester 10: Families and Children**
 - **Obs & Gyne, Pediatrics**

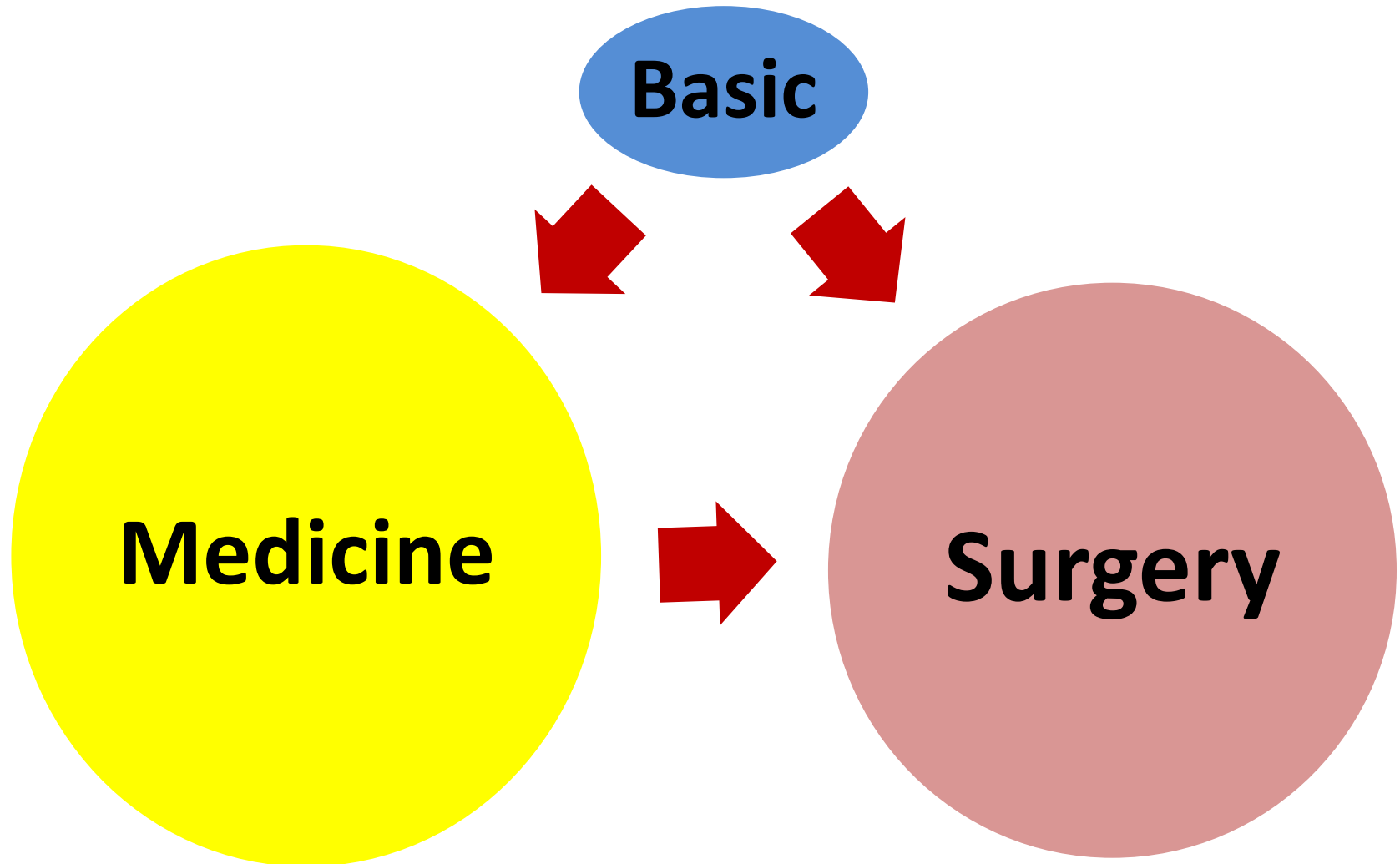
Relations between Basic & Clinical Science in MMP – 1



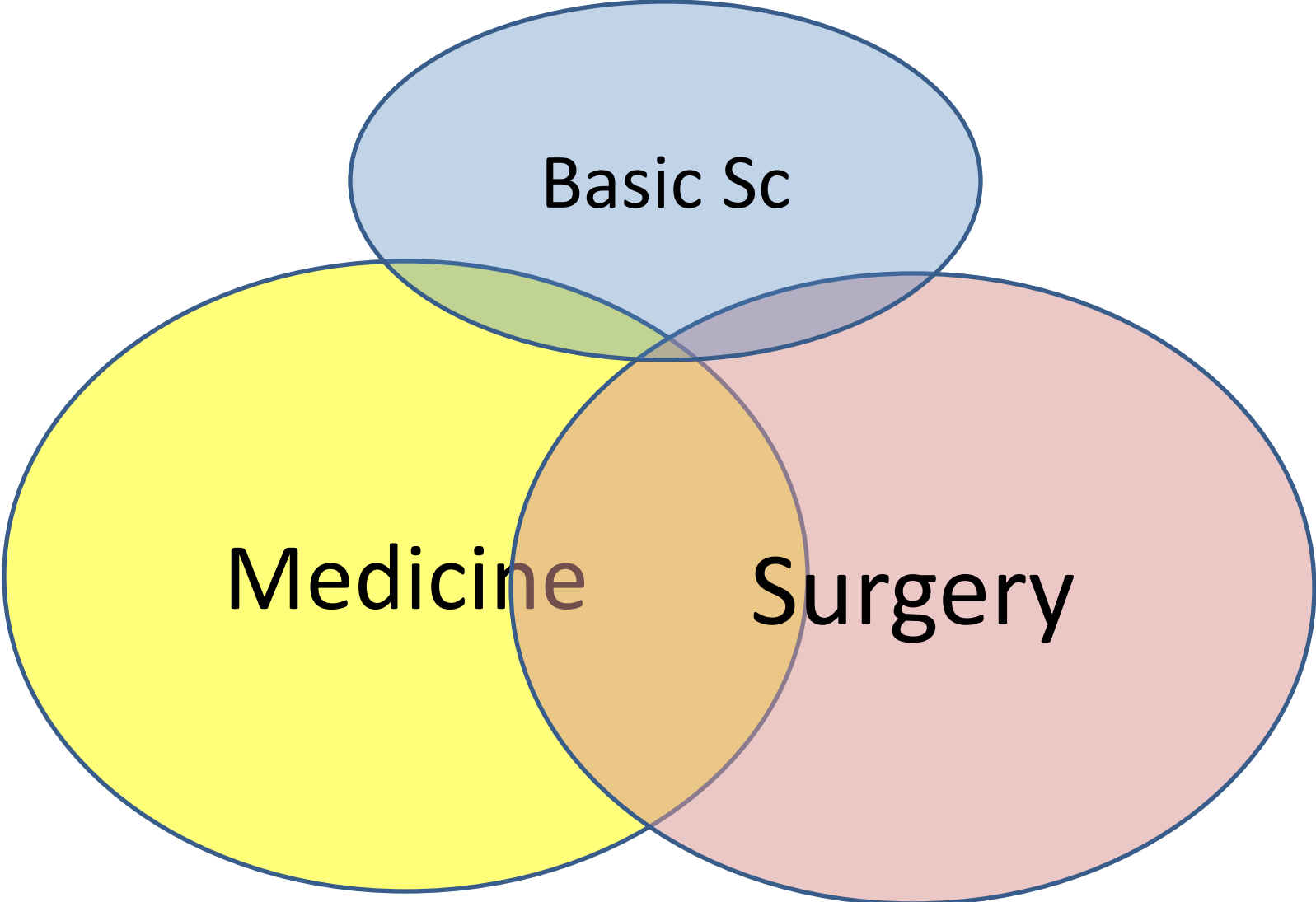
Relations between Basic & Clinical Science in MMP Phase 1



Relations between Basic & Clinical Science in MMP – Clinical Phases



Relations between Basic & Clinical Science in MMP – Total



Objectives & Core Skills of Phase 2 – A

- **General Objectives relating to Communication:**
 - Knowledge of the effects of age, gender and culture on health beliefs and expressed health needs.
 - The ability to put a patient at ease, obtain a factual medical history from an adult patient, Ascertain a patient's perceptions, feelings and expectations and finally, set personal learning objectives and negotiate them with clinical tutors,

Objectives & Core Skills of Phase 2 – B

- **General Objectives relating to *Basic Skills* :**
 - A general approach to physical examination; begin to learn examination of the individual systems
 - ability to measure temperature; measure blood pressure; examine the skin
 - ***Laboratory***: complete request forms; label specimens; dipstick test the urine; store specimens; handle blood specimens safely

Objectives & Core Skills of Phase 2 – C

- **General Objectives relating to *Basic Skills* :**
 - *Procedural (examples) :*

- venous cannulation;
- venepuncture;
- basic management of the airway;
- basic life support;
- subcutaneous injection;
- intramuscular injection;
- put on sterile gown and gloves;
- dress a wound;
- set up and care for a venous infusion;
- basic first aid.

Phase 2 Peculiarities

- Phase 2 is demanding
- Triggers for self-directed learning will come from a much wider range of activities
- to ensure that students gain maximum benefit from the available hospital resources
- **The students are encouraged to be pro-active:**
 - **Make use** of the many resources that the programme makes available to them

For Students: Getting the most out of your tutor

1. Express that you would like him/her to be more involved
2. Every few weeks, discuss with him/her how the PBL group is running.
 - Is it running smoothly?
 - What would improve things?
 - Can your tutor help to make the sessions more interesting?
3. Don't ask your tutor to tell you the answers.
4. PBL is an interactive process. Talk about it!

SEMESTER 7

HEART, LUNG & BLOOD

NME SEM 7

INDEX CLINICAL SITUATION - 1

- ◉ Anaemia
- ◉ Coagulation disorders
- ◉ Lymphoproliferative disorders
- ◉ Myeloproliferative disorders
- ◉ Purpura
- ◉ Splenomegaly
- ◉ Thromboembolic disease
- ◉ Transfusion of blood products
- ◉ Bullous/vesicular skin eruption
- ◉ Lymphadenopathy
- ◉ Shock
- ◉ Skin ulceration
- ◉ Tuberculosis
- ◉ Aortic Aneurysm
- ◉ Cardiac conduction/rhythm disorder
- ◉ Cardiac valve disease
- ◉ Cardiorespiratory arrest
- ◉ Chest pain
- ◉ Endocarditis
- ◉ Hypertension
- ◉ Ischaemic heart disease
- ◉ Oedema

NME SEM 7

INDEX CLINICAL SITUATION - 2

- ⦿ Palpitations
- ⦿ Pericardial disease
- ⦿ Peripheral vascular disease
- ⦿ Sudden unexpected death
- ⦿ Varicose veins
- ⦿ Acid base disturbance
- ⦿ Breathlessness
- ⦿ Carcinoma of the bronchus
- ⦿ Chronic lung disease
- ⦿ Cyanosis
- ⦿ Haemoptysis
- ⦿ Pleural effusion
- ⦿ Pneumothorax
- ⦿ Respiratory tract infection
- ⦿ Trauma to chest/abdomen
- ⦿ Hyperventilation
- ⦿ Lipid metabolism
- ⦿ Depression
- ⦿ Somatization
- ⦿ Bereavement

SEMESTER 7: STUDENT CASES - 1

- ⦿ Problem 1: heart failure, pulmonary congestion and infective endocarditis
- ⦿ Problem 2: Pneumonia, COPD, hypoxia and respiratory failure
- ⦿ Problem 3: ischaemic heart disease, atheroma and thrombosis,
- ⦿ Problem 4: carcinoma of the bronchus and lung tumors
- ⦿ Problem 5: thromboembolic disease, cardiac arrest and sudden death
- ⦿ Problem 6: aortic aneurysms - clotting, leaking or rupture and organ dysfunction and support, and massive blood transfusion
- ⦿ Problem 7: lymphoma, and differential diagnosis of lymphadenopathy.

SEMESTER 7: STUDENT CASES - 2

- ◉ Problem 8: Hypertension: epidemiology, associated risk, principles of management, and complications
- ◉ Problem 9: asthma, chronic breathlessness, and occupational related diseases
- ◉ Problem 10: anaemia, differential diagnosis and decision-making about treatment options
- ◉ Problem 11: atypical chest pain and psychopathology of anxiety disorders
- ◉ Problem 12: leukaemias and myeloproliferative disorders, cytotoxic and other anti-cancer drugs
- ◉ Problem 13: tuberculosis and the clinical aspects of pleural effusion

NME SEM 7

ROTATIONS DURING SEMESTER 7

Chest

Cardiology

Hematology

5 Weeks

5 Weeks

5 Weeks

Induction

Week1

Week2

Week3

Week4

Induction

Week1

Week2

Week3

Week4

Induction

Week1

Week2

Week3

Week4

NME SEM 7

ONGOING ASSESSMENT (OA)

Chest

Cardiology

Hematology

5 Weeks

5 Weeks

5 Weeks

Induction

Week1

Week2

Week3

Week4

Induction

Week1

Week2

Week3

Week4

Induction

Week1

Week2

Week3

Week4

OA-1

OA-2

OA-3

SEMESTER 8
NUTRITION, METABOLISM
& EXCRETION

NME SEM 8

COURSE OBJECTIVES - 1

- Understand structure and function of the GIT, excretory and endocrine systems and the processes of nutrition, metabolism and excretion.
- Understand major pathological processes that may affect these systems
- Understand 'Population Health issues' e.g.: burden of illness; aetiology and natural history; evidence for treatment/prevention; and inequalities in causes or management (e.g. by social class or geography).

NME SEM 8

COURSE OBJECTIVES - 2

- Understand the effect of biological, psychological, social, cultural and environmental factors
- Understand social influences on diet and nutrition
- Identify appropriate investigations to elucidate the pathological processes
- Understand the importance of a critical or evidence based approach to accessing and assessing informatio

NME SEM 8

COURSE OBJECTIVES - 3

- Be able to define problems related to these systems and to include psychological and social aspects
- Be able to access information on appropriate management.
- Be able to differentiate psychological conditions and processes (such as somatisation) that may present as symptoms in these systems.

NME SEM 8

COURSE OBJECTIVES - 4

COMMUNICATIONS & ATTITUDE

- Understand the importance of body image.
- Understand the process of long-term monitoring.
- Understand the process of conveying bad news to a patient or relative
- Be able to ascertain patient's views and expectations.
- Show a respect for a patient's value systems.
- Recognise his own emotions, concerns and ethical conflicts especially when faced with death.

NME SEM 8

COURSE OBJECTIVES - 5

CLINICAL SKILLS

- ⦿ communication objectives
- ⦿ *Examination:*
 - perform neck examination including thyroid
 - perform abdominal examination
 - perform rectal examination
- ⦿ *Image interpretation:*
 - interpret and abdominal radiograph
- ⦿ *Laboratory:*
 - perform near-patient blood glucose measurement

NME SEM 8

COURSE OBJECTIVES - 6

PROCEDURAL SKILLS

- Male urethral catheterisation
- Female urethral catheterisation
- Assist in theatre
- Nasogastric intubation
- Insert intravenous line and central venous catheter

NME SEM 8

ROTATIONS DURING SEMESTER 8 - 2

Medicine

5 Weeks

Induction

Endocrin

Endocrin

GIT Med

GIT Med

Surgery

5 Weeks

Induction

Gen Surg

Gen Surg

GIT Surg

GIT Surg

Nephro-
Urology

5 Weeks

Induction

Nephrol

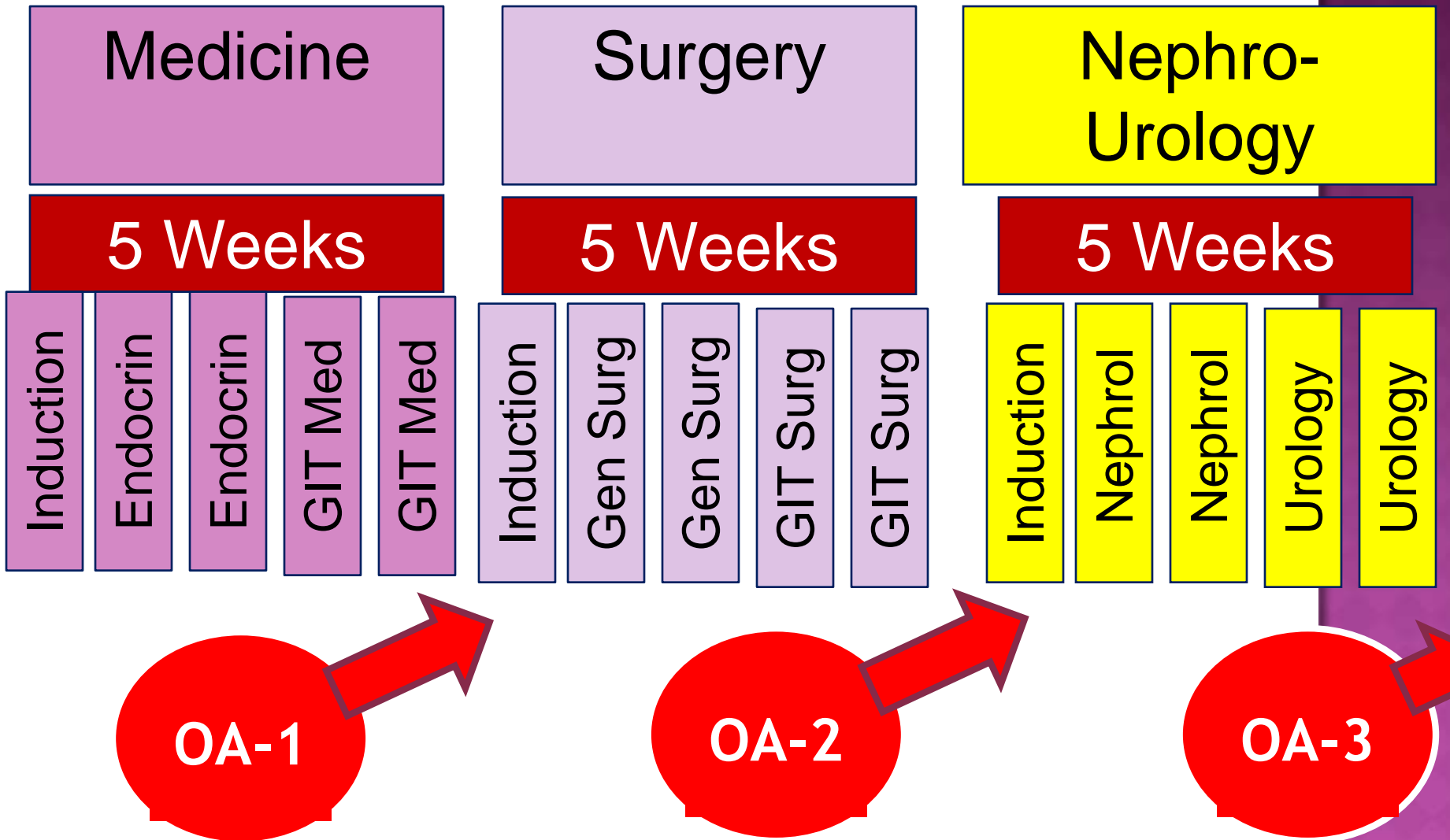
Nephrol

Urology

Urology

NME SEM 8

ONGOING ASSESSMENT (OA)



SEMESTER 9:

MIND & MOVEMENT

- ⦿ 4 weeks neurology
- ⦿ 2 weeks neurosurgery
- ⦿ 2 weeks psychiatry
- ⦿ 4 weeks orthopedics & rheumatology

SEMESTER 10:

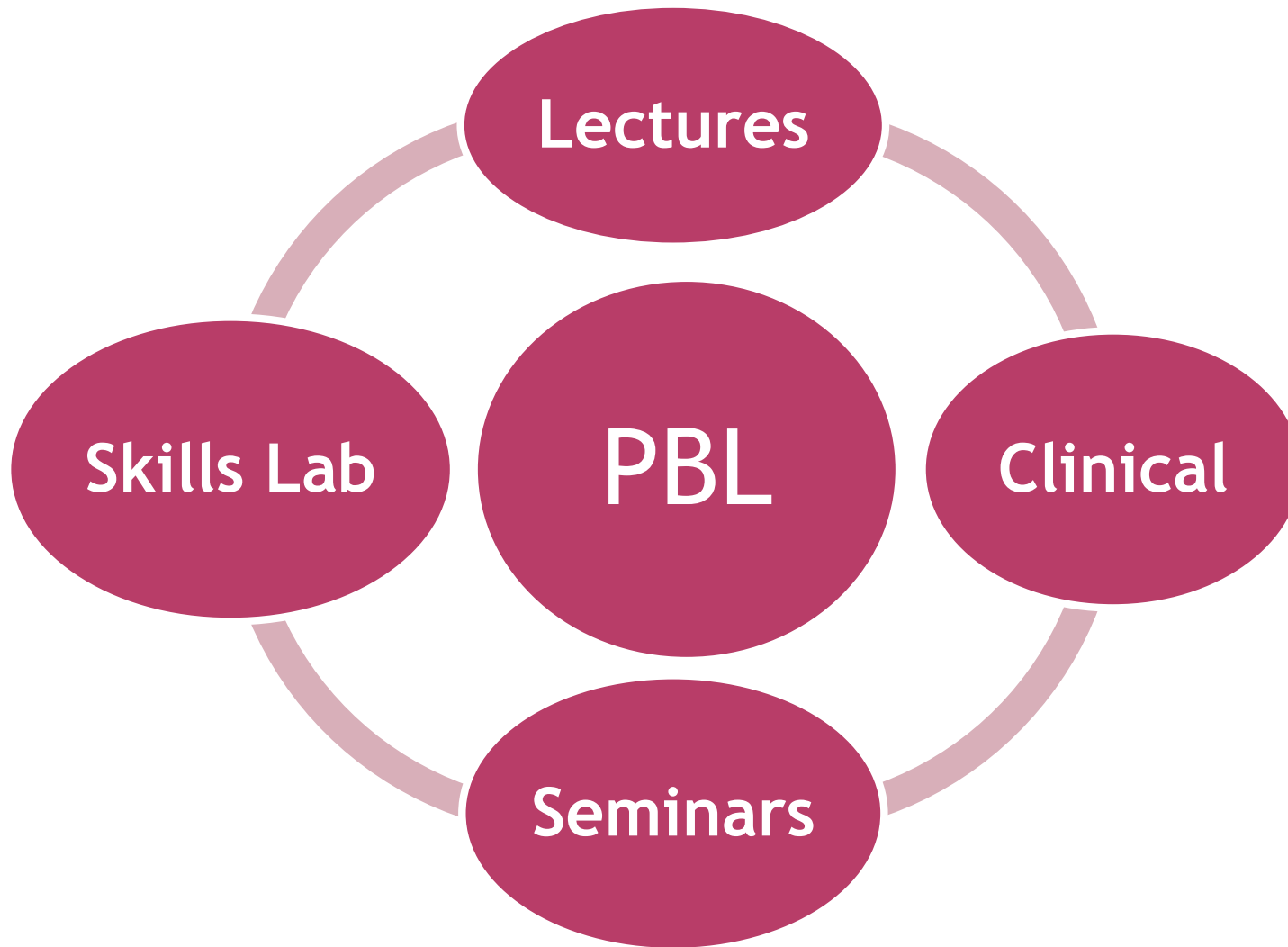
FAMILY & CHILDREN MEDICINE

During the module, the student should

- 1. Understand the normal form and function of the reproductive system, the processes of reproduction, and child and adolescent development
- 2. Understand 'the family' as a unit
- 3. Understand for children and adolescents, reproductive and family health
- 4. Be able to analyse their reaction to ethical conflicts and other emotive issues surrounding childhood (age 0-16 years), reproductive and family health
- 5. Understand surveillance & screening and genetics as applied to family health

EDUCATIONAL TECHNEQUES

TUTORING ENVIRONMENT



STUDENTS DISTRIBUTION

Environmment	No of Students
PBL Groups	10 -12 Students
Clinical Firms	10-12 Studens
Clinical Seminars	Whole group (up to 70 students)
Skills Lab	Whole group (up to 70 students)
Lecutres	Whole group (up to 70 students)

Classical Week, Clinical phase (Semester 7 onwards).

Time	Saturday	Sunday	Monday	Tuesday	Wednesday
9:00-10:00	Lecture 1	Lecture 2	Lecture 3	Lecture 4	Lecture 5
10:30-12:30	Clinical Training	Clinical Training	Clinical Training	Clinical Training	Clinical Training
12:30-13:30		Clinical Seminar	Clinical Seminar	Clinical Seminar	
14:00-16:00	PBL Session 1	Skills Lab	SSC	Skills Lab	PBL Session 2

WEEKLY TIMETABLE (SEM 8)

	09:00 - 10:00	10:30 - 12:00	12:30 - 13:30	13:30 - 14:00	14:00 - 15:30 Afternoon Act
Saturday	Day-Off (Except!!)				
Sunday	Lecture- 4	Clinical Training	PBL-2		
Monday	Lecture- 5	Clinical Training	PBL-1		
Tuesday	Lecture- 1	Clinical Training	Clinical Seminar-1		Skills Lab-1
Wednesd	Lecture- 2	Clinical Training	Clinical Seminar-2		SSC/Presentati on/Lecture
Thursday	Lecture- 3	Clinical Training	Clinical Seminar-3		Skills Lab-2

WORKING THROUGH PROBLEMS

First tutorial:

1. Read the case and clarify unfamiliar terms
2. Define the problem(s)
3. Brainstorm possible solutions.
4. Discuss solutions and arrange them into a tentative explanation of the case.
5. List questions to be answered and resources to be used, including clinical experience

Private Study:

6. Study privately (including accessing and assessing the evidence for the cause or treatment of the disease) and gain clinical experience

Second tutorial:

7. Pool answers to the questions and cite resources used.
8. Discuss related clinical experience.

Lecture

Knowledge

**Clinical
Seminars**

Understanding

**Skills lab/
Clin Training/
others**

Skills

NME Sems 7:10

Exams & Marks

Item	Marks
Midterm MCQs (2 or 3)	60
SSC/Presentation & Active Attendance	70
Final MCQs/EMQs	200
Final OSCE	200
Final Short Essay	120
Total	650







THANK
YOU

Nagy Sayed-Ahmed

Professor of Medicine

Mansoura University