

Program and Courses Specifications of Master Pediatrics Hepatology

*Department of Pediatrics Hepatology
National institute of Liver
Menoufia University*

Pediatric Hepatology Master program

A-Administrative Information

- 7. Program Title:** Master degree of Pediatrics Hepatology
- 8. Award/Degree:** Master degree of pediatrics Hepatology
- 9. Program Type:** multiple
- 10. Department responsible:** Pediatrics Hepatology department.
- 11. Coordinator:** Dr: ElBehery Elsaed ElBehery

B-Professional Information:

1-Program Aims:

- 1-To support acquisition of knowledge and understanding of pediatric hepatology health and its promotion, and of pediatric hepatobiliary disease prevention and management, in the context of the whole individual and his or her place in the family and society.
- 2-This program will enable the postgraduate student to:
 1. Be able to provide basic health care for individuals in different Pediatric age groups (neonates, infants, children, and adolescents).
 2. Know the normal growth and development (physical, physiologic, psychosocial), and its clinical application from birth through adolescence.
 3. Deal with the different clinical symptoms of hepatobiliary diseases in order to reach a proper diagnosis.
 4. Know appropriate background covering the common and important Pediatric hepatobiliary emergencies and diseases.
 5. Identify the proper cost-effective needed investigations on facing a Hepatobiliary problem in the pediatric age group.
 6. Having the ability of interpretation of most common investigations.
 7. Observe the specialized way of management of cases in special pediatric units.
 8. Maintain and improve his standard pediatric medical knowledge.
 9. research.Perceive & integrate progress in Pediatric medical knowledge

10. Identify the indications & logistics for referring pediatric patients to other specialties.
11. Know the magnitude of pediatric hepatobiliary problems in the community especially endemic diseases.
12. Open a channel of communication with national & international medical schools.
13. Enable the development and application of appropriate professional attitudes, communication and problem solving skills.

2-Intended Learning Outcomes (ILOs) for program

A-Knowledge and Understanding:

By the end of the program, the student will be able to:

- a1- Recognize the details of normal growth and development during infancy, childhood and adolescence.
- a2- Define the updates of management of abnormalities affecting growth and development.
- a3- Discuss in depth the impact of congenital and inherited diseases on hepatobiliary system of children .
- a4- Determine accurately the nutritional requirements of infants and children, and the most common nutritional disorders affecting infants and children, and describe appropriate management for disorders.
- a5- Define the details of the indications, contraindications, administration and precautions of the immunizations necessary for infants and children according to the national schedule and the condition of the child.
- A6- Justify the management priorities for neonatal and Pediatric hepatobiliary emergencies.
- A7-Appraise the advances in pathogenesis of and therapeutic lines of the most important neonatal and pediatric hepatobiliary problems.
- A8- Apply the ethical and scientific principles of medical research methodology.
- a 9. Approve the recent diagnostic tools (and describe how they would be interpreted) and therapeutic lines for neonatal and Pediatric hepatobiliary problems.
- A10-- Mention the ethical and medico legal principles that should be applied in the practice .
- A11- Appraise the principles of quality assurance in medical practice.

A12- Predict the effect of medical practice on surrounding environment and how can it be made safe (syringe disposal, tissue and blood specimen transport", ect)

B-Intellectual Skills

By the end of the program, the student will be able to:

B1- Solve Pediatric hepatobiliary problems depending on critical thinking and analysis of available data.

B2- Interpret the most important symptoms and signs of hepatobiliary disease in Pediatric patients

B3- participate in risk management as a part of clinical government.

B4- Interpret X-ray, CT, MRI, ECG,EEG, Liver enzyme, blood gas ,CBC and blood picture reports covering hepatobiliary disorder.

B5- Formulate appropriate management plans for individual patients presenting with the most common hepatobiliary Pediatric disorders.

C-Professional and Practical Skills

By the end of the program, the student will be able to:

c1- Check accurately vital signs in neonates, infants, children and adolescents.

c2- Assess physical and mental development in neonates, infants, children and adolescents according to standard milestones and recognize abnormalities.

c3- Perform appropriate clinical and anthropometrics assessments for the nutritional status of infants and children.

c4- Adequately manage different neonatal and Pediatric hepatobiliary emergencies.

c5- Construct a proper history for a patient in the Pediatric age group.

c6- Perform an adequate clinical examination for a patient in the Pediatric age group

.C7- Use efficiently modern tools relevant to the specialty for patient management.

C8- Write competently and evaluate all forms of medical reports

C9- Assess the newly applied techniques in the area of Pediatrics hepatology.

D-General and Transferable Skills

By the end of the program, the student will be able to:

- d1- Figure out strategies and plans using the available community resources.
- d2- Use different models for assessing client needs, considering the children needs of the society.
- d3- Communicate effectively with children, adolescent and their families.
- d4-Continuously improve his practice based on constant self evaluation and lifelong learning.
- d5-Practice team's leadership in various professional contexts.

3-Academic Standards:

. 3a- Academic Reference Standards (ARS)) Menoufia academic reference standards for Master degree postgraduate students of Pediatrics hepatology (Annex 1): for this program were compiled according to the general Academic Reference Standards provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs(published on February 2009).

3b.Comparison between ARS and ILOS of the program (Annex 2)

4-Curriculum Structure and Contents

| | | |
|---------------------------------------|-------------------|--------------------|
| Course | | |
| - Applied Physiology | First part | |
| - Applied Pathology | | |
| - Applied Medical Biochemistry | | |
| -Applied human anatomy and embryology | | |
| -Applied Histology | | |
| -Applied Microbiology and Immunology | | |
| -Applied Parasithology | | |
| -Applied Clinical Pathology | | |
| -Medical statistic and Epidemiology | | |
| Pediatrics hepatology | | |
| | | Second part |
| | | Thesis |
| | | Log book |

5- Program admission requirements

- Graduated by MB B CH

6-Regulations for progression and Program completion

- **First year** : the student will be examined in the first part courses. The examinations are written, oral and practical exams and for completion of this part the student must pass (60% from total mark)
- **Second part:** the assessment is written –oral and practical exams. Student must pass in the second part (60% of mark) to finish his part.
- **Thesis:** thesis are conducted in the field of Pediatrics hepatology. Student can choose its subject after passing at least the first semester and he can discuss it after 2 years of registering the protocol of the thesis provided that he passed the second part and it has no marks. After discussion the graduate will receive the degree.
- **Log book:** this book will contain all the activities that are done through the program and the student will not be allowed to enter the exam of the second part unless completing 75% of its activities.
First part or second part exam conducted twice /year in April and in October

7-Evaluation of program intended learning outcomes

8.1-Senior students:

Tool: Questionnaires-Review of assessment method

Sample: Students in the last year

8.2-Alumni

Tool: Questionnaires

Sample: Student finished M.Sc. within 5 years

8.3-Stakeholders (Employers)

Tool: interviews

Sample: directors of nearby hospitals.

8.4-External Evaluator(s) External Examiner

Tool: Report

Sample: External examiners in each course