COURSE SPECIFICATION

(Elective course:CNS pathology)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate PhD degree of Pathology
(2) Department offering the programme:	Pathology department
(3) Department responsible for teaching the course:	Pathology department
(4) Part of the programme:	Second part
(5) Date of approval by the Department`s council	26/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Elective course
(8) Course code:	PATH 605 CNP
(9) Total hours:	5 credit hours
(10) Total teaching hours:	75 hours

(B) Professional information

Course Aims:

1--To aquire detailed informations about non neoplastic CNS diseases, their pathogenesis, morphologic features , prognosis, fate and complications

2-To provide molecular background for non neoplastic CNS lesions

3-To clarify molecular pathogenesis for CNS tumors

4-To enhance ability to differentiate tumors based on morphologic features, and immunohistochemical features

5-To support implementation of different ancillary diagnostic techniques for approaching diagnosis in problematic cases

6-To help correlating pathologic parameters to prognosis and therapy

7-To provide the skill for interpretation stereotactic biopsy

8- To support applying and integrating data for problem solving in tissue biopsy interpretation

9-To help handling and processing of CNS specimens in different pathologic conditions

10-To guide applying grading and staging of CNS tumors

Intended learning outcomes(ILOs)

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: Identify altered structure and function of the CNS that are seen in various diseases; definition, etiology, pathogenesis, prognosis, fate & complications of such diseases.

A2: Describe the morphological features of different types of tumors in CNS.

A3: Classify tumors of CNS. Gradding and staging according to the recent WHO classification

A4: Describe and discuss characteristic morphological pattern (macroscopic and microscopic) of different pathologic lesions within CNS and their underlying pathogenesis and molecular basis

A5: To identify recent advances in pathology processes and relate structural and functional changes and the associated clinical manifestations

B- Intellectual skills

B1: Interpret findings of pathological specimens effectively

B2: Analyze various gross and microscopic pathologic data resulting from the disease process.

B3: Enlist the differential diagnosis of various gross and microscopic pathologic features to reach proper evidence based diagnosis.

B4: Relate the clinical data, investigational data and patient history to reach proper pathologic diagnosis with proper time managing.

B5: Analyze different problems of misdiagnosis.

B6: Discuss problematic cases with senior staffs and supervisors to improve professional performance.

D- Communication & Transferable skills

D1: Present adequately themselves by improving descriptive capabilities and communication skills and respond positively to feedback.

D2: Respect ethical relationship with staff and ethics in research.

D3: Present attitudes that will maximize their educational experiences via continous search in data base and lifelong learning.

D4: Work in inter-professional teams to enhance patient safety and improve patient care quality.

Course content

A:Non neoplastic diseases(2 credit hours; 30 teaching hours)

1-Congenital anomalies

2-Cerebrovascular disorders

3-Inflammatory diseases

4-Infectious diseases

5-Degenerative diseases

B: neoplastic diseases(3 credit hours; 45 teaching hours)

1-Glial tumors

2-Choroid plexus tumors

3-Neuronal, glioneuronal tumors

4-Hamartomas and related lesions

5-Embryonal tumors

6-Pineal parenchymal tumors

7-Meningiomas

8-Nonmeningeothelial mesenchymal tumors

9-Nerve sheath tumors

10-Germ cell tumors

11-Lymphoproliferative and myeloproliferative disorders

12-Melanocytic tumors

13-Paragangliomas

14-Chordoma

15-Hemangioblastoma

16-Other primary tumors

17-Metastatic tumors

Assessment schedule:

- Final written exam with total of 80 marks
- MCQ continuous assessment of 20 marks

Other assessment without marks:

1-Attendance Criteria: Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Head of the department

References of the course:

6.1: Hand books: Course notes: Book authorized by department

6.2: Text books: Rubbin's text book of pathology, Ackerman's surgical pathology, Sternberg's surgical pathology & Soft tissue tumors

6.3: Websites:

– http://www.pathmax.com

- United States and Canadian Academy of Pathology (USCAP): http://www.uscap.org/

- The Royal Collage of pathologists: http://www.rcpath.org/

Facilities and resources mandatory for course completion:

□ Lecture halls and data show

□ Pathology labs. in various Mansoura university medical centers□

□ Pathology Archives of slides and tissue for problematic cases

□ Extensive library and other learning resources

□ Computer laboratories with a wide range of software

□ Internet with a wide range of learning support material

Course coordinator: **Dr. Reham Nagib**

Head of the department: **Prof. Dr. Khaled Zalata**