

NARS for PhD degree of pathology

أ - المعرفة والفهم:

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark Royal College of Pathology	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا (الباثولوجيا)
General pathology	A1-A9	Describe in details the major common pathological processes and patterns of disease	1. The theories, concepts and modern knowledge in the field of specialization and other related field
Special pathology Elective courses	A10-A12 A17-A25	Describe detailed pathological features including aetiology pathogenesis, morphology, complications and prognosis for different body organ diseases	
Molecular pathology	A13-A14	Identify molecular techniques Describe molecular tests currently performed on histological samples	
Training courses	A16	Describe the principles of performing a research study Identify appropriate statistical methods Describe the principles of research ethics and how to write a scientific paper	2. The basics, methodologies, ethics of scientific research and its versatile tools
General pathology	A14	an appropriate knowledge of contemporary legislation appropriate professional and ethical conduct in challenging situations	3. The moral and legal ethics of the professional practice in the area of specialization

General pathology	A26	Identify principles of quality in laboratory processing	4. The concepts and principles of quality of the professional practice in the area of specialization
General pathology	A15	Appropriate knowledge of such matters as health and safety policy, policies on needle stick injuries Appropriate knowledge of risk management issues related to laboratory processing	5. The knowledge on the effects of professional practice on the environment and ways of development and maintenance of the environment

ب - القدرات الذهنية :

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General pathology Special pathology Elective courses	B1-3,B8	Demonstrate importance of integration of clinical and pathological data for accurate diagnosis	1) Analyze and evaluate of information in the field of specialization and make full use of such information to solve problems
General pathology Special pathology Elective courses Molecular pathology	B4-5,B12	Create special techniques in problematic cases cases Demonstrate understanding of types of clinical trial types of evidence	2) Solve specific problems on the basis of limited and contradictory information
Training courses	B7	Demonstrate how to use appropriate statistical methods Demonstrate the ability to be active in research and development Appraise medical data	3) Carry out a research studies to add new information to the knowledge

		research critically	
Training courses	B7	Demonstrate how to write a scientific paper	4) Write scientific papers
General pathology	B11	Demonstrate appropriate knowledge of risk assessment, perception and management Demonstrate the ability to be truthful and admit error to patients, relatives and colleagues	5) Assess and analyze risks in the field of specialization
Special pathology, elective courses	B6 B13 B2 B9	Analyse feedback and comments and integrate them into plans for the service manage time and resources effectively in terms of delivering services to patients Demonstrate an understanding of the importance of surgical pathology to clinicians and patients (e.g. timeliness and accuracy of reporting) cost-benefit issues when considering the use of additional techniques	6) Plan to improve performance in the field of specialization
Special pathology, elective courses	B10	Demonstrate the ability to report independently	7) Make good decisions in different professional aspects

Special pathology Elective courses	B4-5-7	A proactive approach to new technologies and treatment	8) Have innovation/creativity
General pathology Special pathology elective courses	B12	understand types of clinical trial and types of evidence	9) Discuss and negotiate in high level of confidence based upon proofs and evidences

ج - المهارات العملية:

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Special pathology	C2-3,C8	work without direct supervision in histopathology	1) Apply modern and principle professional skills in the area of specialization
General pathology	C1	independent cut-up of all specimens	
Special pathology	C4	report most histopathology and non-cervical cytopathology specimens including frozen sections	
Special pathology	C5	request and integrate molecular pathology and other test results into diagnostic reports	
Special pathology	C11	presents cases at MDT and other clinical meetings	
General pathology Special pathology	C12	demonstrate appropriate time management and task prioritisation	

Special pathology	C4	Report most histopathology and non-cervical cytopathology specimens including frozen sections Produce accurate reports with clear conclusions and other written correspondence	2) Write and evaluate technical reports
Special pathology Elective courses	C16	critically appraise the available clinical and laboratory data in coming to diagnostic/treatment decisions	3) Adopt assessment methods and tools existing in the area of specialization.
Special pathology	C13	Prepare to use IT tools within a diagnostic and, where relevant, research setting	4) Use of the appropriate technological means to serve the professional practice.
Special pathology General pathology	C6	consult and admit mistakes	5) Plan to improve the performance of the professional practice and development of the performance of others
Special pathology General pathology	C10	Analyse and solve clinical problems effectively	
Special pathology General pathology	C14	Show willingness to use guidelines as appropriate	
Special pathology General pathology	C15	Analyse feedback and comments and integrate them into plans for the service	

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Special pathology General pathology Molecular pathology Elective course	D1-2-3	Show respect towards colleagues, including non-medical professionals, and recognise good advice	1) Communicate effectively in different aspects
Special pathology General pathology Molecular pathology Elective course	D3-D10	Apply the principles of literature searching using medical databases	2) Demonstrate efficient IT capabilities in such a way that serves in the development of the professional practice
Special pathology General pathology Molecular pathology Elective course	D7	Show the ability to manage time Demonstrate effective interaction with professionals in other disciplines and agencies Demonstrate the ability to prepare properly for meetings	3) Manage the scientific meetings and manage time
Special pathology General pathology Molecular pathology Elective course	D11	Develop the ability to undertake an effective appraisal or assessment	4) Adopt self-assessment and Adopt life-long learning
Special pathology General pathology Molecular pathology Elective course	D3-D10	Apply the principles of how to retrieve and utilise data recorded in clinical systems	5) Use different resources for information and knowledge
Special pathology General pathology Molecular pathology Elective course	D4	Show recognition of a team approach and willingness to consult and work as part of a team	6) Collaborate effectively within multidisciplinary team and lead team works
Special pathology	D7	Show the ability to	7) Demonstrate a high level of

General pathology Molecular pathology Elective course		manage time Demonstrate effective interaction with professionals in other disciplines and agencies Demonstrate the ability to prepare properly for meetings	competence in the management of time and scientific meetings
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