مقارنة ما يقدمه برنامج الدكتوراة في أمراض الدم من مخرجات تعليمية مستهدفة ILOs نسبة للمعايير الأكاديمية المرجعية

١- المعرفة والفهم

(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا	(ARS) Benchmark Acgme: accreditation council for graduate medical education	مخرجات التعلم المستهدفة ILOs	المقررات التى تحقق المعايير الأكاديمية للبرامج
The theories, concepts and modern knowledge in the field of specialization and other related field	Medical Knowledge: candidates are expected to demonstrate knowledge of biomedical, clinical and social sciences and to be able to apply their knowledge to patient care and the education of others	A1-5 A7-9 A12-15	First part courses: 1. Laboratory diagnosis in hematology 2. Transfusion medicine 3. Radiotherapy technology in hematology 4. Molecular biology in hematology
The basics, methodologies, ethics of scientific research and its versatile tools	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	A22-35	Second part compulsory courses: 1. Internal medicine 2. Hematology
The moral and legal ethics of the professional practice in the area of specialization	Professionalism: candidates are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society.	A10,11	Second part elective courses: 1. Stem cell transplantation 2. Hemoglobinopathies 3. Myelodysplastic syndrome Advanced studies in the medical field: 1. Scientific research and research methodology
The concepts and principles of quality of the professional practice in the area of specialization	Patient Care: candidates are expected to provide patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, and treatment of disease.	A6 A16-21	2. Medical statistics 3. Uses of computer in the medical sciences.

The knowledge on the effects of professional practice on the environment and ways of development and maintenance of the environment	**Interpersonal and Communication Skills:** candidates are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams. **Professionalism:** candidates are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society. **Systems-Based Practice:** Residents are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.	A6 A10,11 A16-35	

٢- القدرات الذهنية

(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا	(ARS) Benchmark Acgme: accreditation council for graduate medical education	مخرجات التعلم المستهدفة ILOs	المقررات التى تحقق المعايير الأكاديمية للبرامج
Analyze and evaluate of information in the field of specialization and make full use of such information to solve problems	Patient Care: candidates are expected to provide patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, and treatment of disease. Professionalism: candidates are expected to demonstrate behaviors that reflect a commitment	B3-7	First part courses: 1. Laboratory diagnosis in hematology 2. Transfusion medicine 3. Radiotherapy technology in hematology
Solve specific problems on the basis of limited and contradictory information	to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society. Interpersonal and Communication Skills: candidates are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams.	B3-7	Second part compulsory courses: 1. Internal medicine 2. Hematology
Carry out a research studies to add new information to the knowledge	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	B1-2	Second part compulsory courses: 1. Internal medicine 2. Hematology
Write scientific papers	Medical Knowledge: candidates are expected to demonstrate knowledge of biomedical, clinical	B1-2	

	and social sciences and to be able to apply their knowledge to patient care and the education of others		
Assess and analyze risks in the field of specialization	**Patient Care:** candidates are expected to provide patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, and treatment of disease. **Professionalism:** candidates are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society. **Interpersonal and Communication Skills:** candidates are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams.	**B3-7**	**First part courses:** 1. Laboratory diagnosis in hematology 2. Transfusion medicine 3. Radiotherapy technology in hematology **Second part compulsory courses:** 1. Internal medicine 2. Hematology
Plan to improve performance in the field of specialization	**Systems-Based Practice:** candidates are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.	**B1-2**	**Second part compulsory courses:** 1. Internal medicine 2. Hematology
Make good decisions in different professional aspects	**Systems-Based Practice:** candidates are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.	**B3-9**	**First part courses:** 1. Laboratory diagnosis in hematology 2. Transfusion medicine 3. Radiotherapy technology in hematology

			Second part compulsory courses: 1. Internal medicine 2. Hematology
Have innovation/creativity	Systems-Based Practice: candidates are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.	**B1-2**	Second part compulsory courses: 1. Internal medicine 2. Hematology
Discuss and negotiate in high level of confidence based upon proofs and evidences	Systems-Based Practice: candidates are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care. Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices. Medical Knowledge: candidates are expected to demonstrate knowledge of biomedical, clinical and social sciences and to be able to apply their knowledge to patient care and the education of others	**B1-9**	First part courses: 1. Laboratory diagnosis in hematology 2. Transfusion medicine 3. Radiotherapy technology in hematology Second part compulsory courses: 1. Internal medicine 2. Hematology

٣- المهارات العملية

(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا	(ARS) Benchmark Acgme: accreditation council for graduate medical education	مخرجات التعلم المستهدفة ILOs	المقررات التى تحقق المعايير الأكاديمية للبرامج
Apply modern and principle professional skills in the area of specialization	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	C1-8	Second part compulsory courses: Internal medicine course Hematology course
Write and evaluate technical reports	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	C2-5	Second part compulsory courses: Internal medicine course Hematology course
Adopt assessment methods and tools existing in the area of specialization.	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	C2-7	Second part compulsory courses: Internal medicine course Hematology course
Use of the appropriate technological means to serve the professional practice.	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	C2-7	Second part compulsory courses: Internal medicine course Hematology course
Plan to improve the performance of the professional practice and development of the performance of others	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient	C1-8	Second part compulsory courses: Internal medicine course Hematology course

	care practices. **Professionalism:** candidates are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society.		

٤- مهارات الاتصال

(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا	(ARS) Benchmark Acgme: accreditation council for graduate medical education	مخرجات التعلم المستهدفة ILOs	المقررات التى تحقق المعايير الأكاديمية للبرامج
Communicate effectively in different aspects	Interpersonal and Communication Skills: candidates are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams.	D1,3,4,7,9,10	Second part compulsory courses: Internal medicine course Hematology course
Demonstrate efficient IT capabilities in such a way that serves in the development of the professional practice	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	D3,4,8	Second part compulsory courses: Internal medicine course Hematology course
Manage the scientific meetings and manage time	Practice-Based Performance Improvement: candidates are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices.	D2-4	Second part compulsory courses: Internal medicine course Hematology course
Adopt self-assessment and Adopt life-long learning	Professionalism: candidates are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession, and society.	D10	Second part compulsory courses: Internal medicine course Hematology course
Use different resources for information and knowledge	Systems-Based Practice: candidates are expected to demonstrate both an	D3-9	Second part compulsory courses: Internal medicine course

	understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.		Hematology course
Collaborate effectively within multidisciplinary team and lead team works	Interpersonal and Communication Skills: candidates are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams.	D2-7	Second part compulsory courses: Internal medicine course Hematology course
Demonstrate a high level of competence in the management of time and scientific meetings	Systems-Based Practice: candidates are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care.	D1-10	Second part compulsory courses: Internal medicine course Hematology course