مقارنة ما يقدمه البرنامج من نتائج تعليمية مستهدفة مع المعايير المرجعية لبرنامج الدكتوراة في جراحة الأوعية الدموية

أ ـ المعرفة والفهم:

المقررات التي تحقق المعايد الأكاديمية للبرامج	ILOs مخرجات التعلم المستهدفة	(ARS) Benchmark المعايير الأكاديمية لجامعات انجلترا	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا (درجة الدكتوراه في جراحة الاوعيه الدمويه)
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	A1,2,3,4,5,6,7,8,9,10,11,12	The medical problems in our society are the main reason which influence the training of our vascular candidates. In vascular surgery the predominant diseases is atherosclerosis with increasing obesity and Diabetes Milletus, those patients requires a lot of care especially for their infections at least and the reduced blood flow to the lower limb as a result of atherosclerosis. This revascularization can be performed either using a catheter or surgery. Chronic renal failure is a major problem in our locality which requires large number of medical personal with a high degree of knowledge to manage this problem. Trainees in surgery should be allocated to approved posts commensurate with their level of training and appropriate to the educational opportunities available in that post (particular consideration should be given to the needs of less than fulltime trainees). Due consideration should be given to individual training requirements to minimise competition for educational opportunities.	1. The theories, concepts and modern knowledge in the field of specialization and other related field
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery	A1,2,3,4,5,6,7,8,9,10,11,12 B1,2,3,4,5, D1,2,3,4,5,6,7	-Demonstrates understanding of the basic principles of audit, clinical risk management & evidence based practice -Understanding of basic research principles, methodology & ethics, with a	2. The basics, methodologies, ethics o scientific research and i versatile tools

	and the second commencer of the second se		
-Arterial tree surgery		potential to contribute to	
-Venous and		research	
lymphatic surgery		-Trainees in surgery should	
-Advanced endovascular		have the opportunity and study	
techniques.		time to complete and present	
		one audit project in every	
		twelve months. (The	
		requirements for audit vary for	
		each surgical specialty. Please	
		refer to the designated specialty	
N. Company		for details.)	
		-Trainees in surgery should	
		have at least 2 hours of	
		facilitated formal teaching each	9
		week (on average). (For	:
		example, locally provided	
		teaching, regional meetings,	
		annual specialty meetings,	
		journal clubs and x-ray	-
		meetings).	
		-Trainees in surgery should	
		have easy access to educational	
		facilities, including library and	
		IT resources, for personal study, audit and research and their	
		timetables should include an	:
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		equivalent to half a day per week to allow for this.	
-Basic vascular	A1225701011		O The
200	A1,2,3,5,7,9,10,11	To understand the ethical and	3. The moral and legal
surgery -Arterial tree surgery	D2,4,6,7	legal obligations of a surgeon To understand consent and	ethics of the professional
-Venous and			practice in the area of
lymphatic surgery		ethical issues in patients	specialization
-Advanced endovascular		certified DNAR (do not attempt	
techniques.		resuscitation)	
-Applied Anatomy	A 4 5	411	4 71
1 · · · · · · · · · · · · · · · · · · ·	A4,5	-All trainees in Vascular	4. The concepts and
related to heart &	D5	Surgery should have the	principles of quality of
chest		opportunity to attend a	the professional practice
-Applied Pathology			
		minimum of two consultant-	in the area of
related to blood and		supervised outpatient clinics	
related to blood and lymphatic vessels		supervised outpatient clinics per week and should see a mix	in the area of
related to blood and lymphatic vessels –Basic vascular		supervised outpatient clinics per week and should see a mix of new and follow-up patients.	in the area of
related to blood and lymphatic vessels -Basic vascular surgery		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant-	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patientsAll trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patients. -All trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week -All trainees in Vascular Surgery should have the opportunity to attend a	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patients. -All trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week -All trainees in Vascular Surgery should have the	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patients. -All trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week -All trainees in Vascular Surgery should have the opportunity to attend a	in the area of
related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular		supervised outpatient clinics per week and should see a mix of new and follow-up patients. -All trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultant- supervised ward round per week -All trainees in Vascular Surgery should have the opportunity to attend a minimum of three supervised	in the area of

-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	A4,5,6	should be consistent with the level of training as defined by the Vascular Surgery Curriculum -Acquire experience in the management of a post surgical patient on the critical care, high dependency and post- operative wards. -Gain experience in the evaluation and management of a patient undergoing vascular surgery.	5. The knowledge on the effects of professional practice on the environment and ways of development and maintenance of the environment
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ب - القدرات الذهنية:

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة	(NARS) المعايير القومية الأكاديمية القياسية العامة ليرامج قطاع الدراسات العليا
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	B1-5	-Clinical assessment and management of the pre- operative, post-operative and critically ill patient -Analysis and interpretation of investigations, including specific diagnostic testsCritical care management including recognition, evaluation and treatment of haemodynamic and ventilatory abnormalitiesFamiliarity with the management of multi-organ failure -The management of vascular emergency and trauma (ATLS)	1) Analyze and evaluate of information in the field of specialization and make full use of such information to solve problems Output Description:
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular	B1-5 D2,5	-Capacity to think beyond the obvious, with analytical and flexible mind -Capacity to bring a range of approaches to problem solving -Clinical assessment and management of the preoperative, post-operative and critically ill patient	2) Solve specific problems on the basis of limited and contradictory information

I real and a second	Madillanus masu massa saggi kanga kanasa pinasa kanga ka		
techniques.		-Analysis and interpretation of investigations, including specific diagnostic testsCritical care management including recognition, evaluation and treatment of haemodynamic and ventilatory abnormalitiesFamiliarity with the management of multi-organ failure	
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	B4,5 D5,6	-Demonstrates understanding of the basic principles of audit, clinical risk management & evidencebased practice -Understanding of basic research principles, methodology & ethics, with a potential to contribute to research -Evidence of active participation in audit -Evidence of contributing to teaching & learning of others -Academic surgery provides an exciting and challenging career for candidates in addition to completing clinical training in general vascular surgery.	3) Carry out a research studies to add new information to the knowledge
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	B4,5 D5,6	-Demonstrates understanding of the basic principles of audit, clinical risk management & evidencebased practice -Understanding of basic research principles, methodology & ethics, with a potential to contribute to research -Evidence of active participation in audit -Evidence of contributing to teaching & learning of others -Academic surgery provides an exciting and challenging career for candidates in addition to completing clinical training in general Vascular surgery.	4) Write scientific papers
-Applied Anatomy related	A6	-To manage patient care in	5) Assess and analyze risks in

to heart & chest	B4,5	the peri-operative period.	the field of specialization
-Applied Pathology related		-To assess and manage	
to blood and lymphatic		preoperative risk.	
vessels		-To take part in the conduct	
-Basic vascular surgery		of safe surgery in the	
-Arterial tree surgery		operating theatre	
-Venous and lymphatic		environment.	
surgery		-To assess and manage	
-Advanced endovascular		bleeding including the use of	
techniques.		blood products.	
		-To care for the patient in the	
		post-operative period	
Market Annual Control of the Control		including the assessment of	
ANALYSIS ANALYSI ANALYSI ANALYSI ANALYS		common complications.	
A STATE OF THE STA		-To assess, plan and manage	
		post-operative fluid balance	
		-To assess and plan	
NAME OF THE PROPERTY OF THE PR		perioperative nutritional	
	, , , , , , , , , , , , , , , , , , ,	management.	
-Applied Anatomy related	C1-6	Professional behaviour and	6) Plan to improve performance
to heart & chest		leadership skills	in the field of specialization
-Applied Pathology related		o To provide good clinical	The field of openialization
to blood and lymphatic		care	
vessels		o To be a good communicator	
-Basic vascular surgery		o To teach and to train	
-Arterial tree surgery		o To keep up to date and	
-Venous and lymphatic		know how to analyse data	
surgery		o To understand and manage	
-Advanced endovascular		people and resources within	
techniques.		the health environment	
i colunques.		o To promote good Health	
CONTRACTOR OF THE CONTRACTOR O		o To understand the ethical	
		and legal obligations of a	
		surgeon	
-Applied Anatomy related	C1-6	-Capacity to monitor and	7) Make good decisions in
to heart & chest	D2	anticipate situations that may	7) Make good decisions in
-Applied Pathology related	D2	change rapidly	different professional aspects
A		-Demonstrates effective	
to blood and lymphatic vessels			
		judgement and decision-	
-Basic vascular surgery		making skills	
-Arterial tree surgery		-The objective of the training	
-Venous and lymphatic		programme is to produce	
surgery		trained Vascular surgeons,	
-Advanced endovascular		who will have the clinical	
techniques.		knowledge, the surgical	
		expertise and the professional	
	We strange to the str	skills necessary for consultant	
	01.6	practice.	
-Applied Anatomy related	C1-6	-To assess the surgical patient	8) Have innovation/creativity
to heart & chest		-To elicit a history that is	
-Applied Pathology related		relevant, concise, accurate	
to blood and lymphatic		and appropriate to the	
vessels		patient's problem	
-Basic vascular surgery		-To produce timely, complete	
-Arterial tree surgery		and legible clinical records.	

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-Venous and lymphatic		-To assess the patient	
surgery		adequately prior to operation	
-Advanced endovascular		and manage any preoperative	
techniques.		problems appropriately.	
		-To propose and initiate	
		surgical or non-surgical	
		management as appropriate.	
		-To take informed consent	
		for straightforward cases.	
-Applied Anatomy related	C1-6	-Candidates should be up to	9) Discuss and negotiate in high
to heart & chest		date and fit to practise safely	level of confidence based upon
-Applied Pathology related		-Preparation of the surgeon	proofs and evidences
to blood and lymphatic		for surgery	
vessels		•Effective and safe hand	
-Basic vascular surgery		washing, gloving and	
-Arterial tree surgery		gowning	
Venous and lymphatic		•Administration of local	
surgery		anaesthesia	
–Advanced endovascular		•Accurate and safe	
techniques.		administration of local	
		anaesthetic agent	
		-Preparation of a patient for	
		surgery	
		*Creation of a sterile field	
		*Antisepsis	
		*Draping	

ج - المهارات العملية:

المقررات التى تحقق المعليبر الأكاديمية للبرامج	مخرجات النعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة	(NARS) المعايير القومية الأكاديمية القياسية العامة ليرامج قطاع الدراسات العليا
-Applied Anatomy related	C1-6	Professional behaviour and	1) Apply modern and principle
to heart & chest	D1,2	leadership skills	professional skills in the area of
-Applied Pathology related		o To provide good clinical	specialization
to blood and lymphatic		care	
vessels		o To be a good	
-Basic vascular surgery		communicator	
-Arterial tree surgery		o To teach and to train	
-Venous and lymphatic		o To keep up to date and	
surgery		know how to analyse data	
-Advanced endovascular		o To understand and	
techniques.		manage people and	

		resources within the	
		health environment	
		o To promote good Health	
-Applied Anatomy related	C1-6	Candidates should be	2) Write and evaluate technical
to heart & chest		efficient in writing of	reports
-Applied Pathology related		operation and medical	
to blood and lymphatic		records	
vessels			
-Basic vascular surgery			
-Arterial tree surgery			
-Venous and lymphatic			
surgery			
-Advanced endovascular			
techniques.			
-Basic vascular surgery	C1-6	Ability to assess the patient	3) Adopt assessment
-Arterial tree surgery	D4,6	and manage the patient, and	methods and tools existing in
-Venous and lymphatic		propose surgical or non-	the area of specialization.
surgery		surgical management.	,
-Advanced endovascular			
techniques.			
-Applied Anatomy related	C1-6	-To assess the surgical patient	4) Use of the appropriate
to heart & chest	D1,5	-To elicit a history that is	technological means to serve
-Applied Pathology related		relevant, concise, accurate	the professional practice.
to blood and lymphatic		and appropriate to the	, , , , , , , , , , , , , , , , , , , ,
vessels		patient's problem	
-Basic vascular surgery		-To produce timely, complete	
-Arterial tree surgery		and legible clinical records.	
-Venous and lymphatic		-To assess the patient	
surgery		adequately prior to operation	
-Advanced endovascular		and manage any preoperative	
techniques.	:	problems appropriately.	
		-To propose and initiate	77
N. C.		surgical or non-surgical	
TO THE PROPERTY OF THE PROPERT		management as appropriate.	
		-To take informed consent	
		for straightforward cases.	
-Applied Anatomy related	C1-6	Professional behaviour and	5) Plan to improve the
to heart & chest	D2	leadership skills	performance of the
-Applied Pathology related		o To provide good clinical	professional practice and
to blood and lymphatic		care	development of the
vessels		o To be a good	performance of others
-Basic vascular surgery		communicator	
-Arterial tree surgery		o To teach and to train	
-Venous and lymphatic		o To keep up to date and	- Andrews
surgery		know how to analyse data	
-Advanced endovascular		o To understand and	
techniques.		manage people and	
		resources within the	
		health	
		environment	
CONTRACTOR OF THE PROPERTY OF		o To promote good Health	
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المقررات التي تحقق المعايير الأكاديمية للبرامج	مغرجات التعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	D1,3,4,5,6	-Vascular surgeons generally work closely with their colleagues in Cardiology, Respiratory Medicine, Oncological Medicine, Anaesthesia and Intensive Care. They also have close professional relationships with other nonmedical staff such as perfusionists, intensive care staff and operating department personnel. -To have sufficient understanding of these conditions so as to know what and to whom to refer in a way that an insightful discussion may take place with colleagues whom will be involved in the definitive management of these conditions.	1) Communicate effectively in different aspects
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	D1,2,3,4	Professional behaviour and leadership skills o To provide good clinical care o To be a good communicator o To teach and to train o To keep up to date and know how to analyse data o To understand and manage people and resources within the health environment o To promote good Health	2) Demonstrate efficient IT capabilities in such a way that serves in the development of the professional practice
-Applied Anatomy related to heart & chest -Applied Pathology related to blood and lymphatic vessels -Basic vascular surgery -Arterial tree surgery -Venous and lymphatic surgery -Advanced endovascular techniques.	D1,2,4,5,6	-Takes responsibility for own actions -Demonstrates respect for the rights of all -Demonstrates awareness of ethical principles, safety, confidentiality & consent -Capacity to operate effectively under pressure & remain objective In highly emotive/pressurised	3) Manage the scientific meetings and manage time

		aitrations I	
		situations	
TO STATE OF THE ST		-Awareness of own	
		limitations & when to ask for	
	D0 5 5	help	
-Applied Anatomy related	D3,5,6	Learning & Development.	4) Adopt self-assessment and
to heart & chest		Shows realistic insight	Adopt life-long learning
-Applied Pathology related		into Vascular surgery and	
to blood and lymphatic		the personal	
vessels		demands of a	
-Basic vascular surgery		commitment to surgery	
-Arterial tree surgery		Demonstrates	
-Venous and lymphatic		knowledge of training	
surgery		programme &	
-Advanced endovascular		commitment to own	
techniques.		development	
		• Shows critical &	
		enquiring approach to	
		knowledge acquisition,	
		commitment to self-	
		directed learning and a	
	***************************************	reflective/analytical	
		approach to practice.	
-Applied Anatomy related	D3,4,5,6	Professional behaviour and	5) Use different resources for
to heart & chest	,_,∪	leadership skills	information and knowledge
-Applied Pathology related		o To provide good clinical	miorination and knowledge
to blood and lymphatic		care	
vessels		o To be a good	
-Basic vascular surgery	The state of the s	communicator	
-basic vascular surgery -Arterial tree surgery		o To teach and to train	
-Arterial tree surgery -Venous and lymphatic		o To keep up to date and	
1			
surgery Advanced endovascular		know how to analyse data o To understand and	
techniques.		manage people and	
		resources within the	
		health	
		environment	
		o To promote good Health	
-Applied Anatomy related	D3,4,5	-Capacity to manage time	6) Collaborate effectively within
to heart & chest		and prioritise workload,	multidisciplinary team and lead
-Applied Pathology related		balance urgent & important	team works
to blood and lymphatic		demands, follow instructions	
vessels		-Understands importance &	
-Basic vascular surgery		impact of information	
-Arterial tree surgery		systems	
-Venous and lymphatic		-Trainees must attend MDT	
surgery		and other Departmental	
-Advanced endovascular		meetings and ward rounds,	
techniques.		prepare operating lists (and	
		actually perform some	
		surgery under appropriate	
		supervision. They must	
		manage all patients in a ward	
		environment, preoperatively	
		and post operatively. This	
		includes recognising and	<u> </u>
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10 V. 2011			
	111001000-2014	initiating the management of	
		common complications and	100000
		emergencies, over and above	
		those already laid out in the	
		generic curriculum,	

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- -The medical problems in our society are the main reason which influence the training of our vascular candidates..
- In vascular surgery the predominant diseases is atherosclerosis with increasing obesity and Diabetes Milletus, those patients requires a lot of care especially for their infections at least and the reduced blood flow to the lower limb as a result of atherosclerosis. This revascularization can be performed either using a catheter or surgery.
- -Chronic renal failure is a major problem in our locality which requires large number of medical personal with a high degree of knowledge to manage this problem.
- -Demonstrates understanding of the basic principles of audit, clinical risk management & evidence based practice
- -Understanding of basic research principles, methodology & ethics, with a potential to contribute to research
- Trainees in surgery should have the opportunity and study time to complete and present one audit project in every twelve months. (The requirements for audit vary for each surgical specialty. Please refer to the designated specialty for details.)
- -Trainees in surgery should have at least 2 hours of facilitated formal teaching each week (on average). (For example, locally provided teaching, regional meetings, annual specialty meetings, journal clubs and x-ray meetings).
- -Trainees in surgery should have easy access to educational facilities, including library and IT resources, for personal study, audit and research and their timetables should include an equivalent to half a day per week to allow for this.

To understand the ethical and legal obligations of a surgeon

To understand consent and ethical issues in patients certified DNAR (do not attempt resuscitation)

- -All trainees in Vascular Surgery should have the opportunity to attend a minimum of two consultantsupervised outpatient clinics per week and should see a mix of new and follow-up patients.
- -All trainees in Vascular Surgery should have the opportunity to attend a minimum of one consultantsupervised ward round per week..
- -All trainees in Vascular Surgery should have the opportunity to attend a minimum of three supervised lists (open or endovascular) per week. The grade of supervisor and the mix of procedures should be consistent with the level of training as defined by the Vascular Surgery Curriculum
- -Acquire experience in the management of a post surgical patient on the critical care, high dependency and post-operative wards.
- -Gain experience in the evaluation and

management of a patient undergoing vascular surgery.

- Clinical assessment and management of the pre-operative, post-operative and critically ill patient
- -Analysis and interpretation of investigations, including specific diagnostic tests.
- -Critical care management including recognition,

evaluation and treatment of haemodynamic and ventilatory abnormalities.

-Familiarity with the management of multi-organ

failure

- -The management of vascular emergency and trauma (ATLS)
- -Capacity to think beyond the obvious, with analytical and

flexible mind

-Capacity to bring a range of approaches to problem

solving

- -Clinical assessment and management of the pre-operative, post-operative and critically ill patient
- Analysis and interpretation of investigations, including specific diagnostic tests.
- -Critical care management including recognition,

gvaluation and treatment of haemodynamic and ventilatory abnormalities.

- -Familiarity with the management of multi-organ
- failure
- -Demonstrates understanding of the basic principles of audit, clinical risk management & evidencebased practice
- Understanding of basic research principles, methodology & ethics, with a potential to contribute to research
- -Evidence of active participation in audit
- -Evidence of contributing to teaching & learning of others
- -Academic surgery provides an exciting and challenging career for candidates in addition to completing clinical training in general vascular surgery.
- -Demonstrates understanding of the basic principles of audit, clinical risk management & evidencebased practice
- -Understanding of basic research principles, methodology & ethics, with a potential to contribute to research
- -Evidence of active participation in audit
- -Evidence of contributing to teaching & learning of others
- Academic surgery provides an exciting and challenging career for candidates in addition to completing clinical training in general Vascular surgery.
- -To manage patient care in the peri-operative period.
- -To assess and manage preoperative risk.
- -To take part in the conduct of safe surgery in the operating theatre environment.
- -To assess and manage bleeding including the use of blood products.
- -To care for the patient in the post-operative period including the assessment of common complications.
- -To assess, plan and manage post-operative fluid balance
- -To assess and plan perioperative nutritional management.

Professional behaviour and leadership skills

- o To provide good clinical care
- o To be a good communicator
- o To teach and to train
- o To keep up to date and know how to analyse data
- o To understand and manage people and resources within the health environment
- o To promote good Health
- o To understand the ethical and legal obligations of a surgeon
- -Capacity to monitor and anticipate situations that may change rapidly
- -Demonstrates effective judgement and decision-making skills
- -the objective of the training programme is to produce trained Vascular surgeons, who will have the clinical knowledge, the surgical expertise and the professional skills necessary for consultant practice.
- -To assess the surgical patient
- -To elicit a history that is relevant, concise, accurate and appropriate to the patient's problem
- -To produce timely, complete and legible clinical records.
- -To assess the patient adequately prior to operation and manage any preoperative problems appropriately.
- -To propose and initiate surgical or non-surgical management as appropriate
- -To take informed consent for straightforward cases.
- -Candidates should be up to date and fit to practise safely
- -Preparation of the surgeon for surgery
- *Effective and safe hand washing, gloving and gowning
- *Administration of local anaesthesia
- *Accurate and safe administration of local anaesthetic agent
- -Preparation of a patient for surgery
- *Creation of a sterile field
- *Antisepsis

*Draping

-Trainees in surgery should be allocated to approved posts commensurate with their level of training and appropriate to the educational opportunities available in that post (particular consideration should be given to the needs of less than fulltime trainees). Due consideration should be given to individual training requirements to minimise competition for educational opportunities.

Professional behaviour and leadership skills

- o To provide good clinical care
- o To be a good communicator
- o To teach and to train
- o To keep up to date and know how to analyse data
- o To understand and manage people and resources within the health environment
- o To promote good Health

Candidates should be efficient in writing of operation and medical records

Ability to assess the patient and manage the patient, and propose surgical or non-surgical management.

- -To assess the surgical patient
- To elicit a history that is relevant, concise, accurate and appropriate to the patient's problem
- -To produce timely, complete and legible clinical records.
- -To assess the patient adequately prior to operation and manage any preoperative problems appropriately.
- -To propose and initiate surgical or non-surgical management as appropriate.
- -To take informed consent for straightforward cases.

Professional behaviour and leadership skills

- o To provide good clinical care
- o To be a good communicator
- o To teach and to train
- o To keep up to date and know how to analyse data
- o To understand and manage people and resources within the health environment
- o To promote good Health
- -Vascular surgeons generally work closely with their colleagues in Cardiology, Respiratory Medicine, Oncological Medicine, Anaesthesia and Intensive Care. They also have close professional relationships with other non-medical staff such as perfusionists, intensive care staff and operating department personnel.
- -To have sufficient understanding of these conditions so as to know what and to whom to refer in a way that an insightful discussion may take place with colleagues whom will be involved in the definitive management of these conditions.

Professional behaviour and leadership skills

- o To provide good clinical care
- o To be a good communicator
- o To teach and to train
- o To keep up to date and know how to analyse data
- o To understand and manage people and resources within the health environment
- o To promote good Health
- -Takes responsibility for own actions
- -Demonstrates respect for the rights of all
- -Demonstrates awareness of ethical principles, safety,

confidentiality & consent

- -Capacity to operate effectively under pressure & remain objective In highly emotive/pressurised situations
- -Awareness of own limitations & when to ask for help

Learning & Development:

- Shows realistic insight into Vascular surgery and the personal demands of a commitment to surgery
- Demonstrates knowledge of training programme & commitment to own development
- Shows critical & enquiring approach to knowledge acquisition, commitment to self-directed learning and a reflective/analytical approach to practice.

 Professional behaviour and leadership skills
- o To provide good clinical care
- o To be a good communicator
- o To teach and to train
- o To keep up to date and know how to analyse data
- o To understand and manage people and resources within the health environment
- o To promote good Health
- -Capacity to manage time and prioritize workload, balance urgent & important demands, follow instructions
- -Understands importance & impact of information systems
- -Trainees must attend MDT and other Departmental meetings and ward rounds, prepare operating lists (and actually perform some surgery under appropriate supervision. They must manage all patients in a ward environment, preoperatively and post operatively. This includes recognising and initiating the management of common complications and emergencies, over and above those already laid out in the generic curriculum,

Aims

- 1. To prepare our candidates to acquire knowledge, competencies, skills and applications in different branches of Vascular Surgery by teaching the basic medical science related to Vascular Surgery.
- 2. To give an update theoretical idea in vascular and endovascular Surgery.
- 3. To recognize the epidemiology, racial and gender distribution of each vascular surgical disease as an essential prerequisite for the development of effective control programs.
- 4. To acquire the pathogenic potential, pathogenesis, clinical picture and complications of

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 program, the candidate will be able to:

A- 'Knowledge and Understanding

a1-Explain the anatomical and pathological processes underlying common vascular diseases and conditions

a2-Explain the anatomical basis of vascular conditions, diseases and interventions a3-Describe the embryological basis of common congenital vascular diseases and conditions a4-Correlate common surgical & vascular infections with the causative pathogens

a5-Describe the presentations of common vascular diseases

a6-Define the relevant investigations required to reach an accurate diagnosis

a7-Explain the medical treatment of vascular patients, its indications, contraindications, side effects, and mode of administration

a8- Describe conservative management of vascular conditions, its indications, contraindications, and modalities

a9-Explain the principles of operative surgery & endovascular surgery

a10-Describe the appropriate technique and steps of common vascular & endovascular procedures a11- Outline the principles of advanced and complex operations of vascular & endovascular procedures a12- Outline the importance of patient education in vascular surgery

2- Intellectual activities (B)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

b1- Classify vascular diseases and conditions b2 – Differentiate vascular diseases and conditions Vascular Surgical problems.

- 5. To accept different options of management both for Urgent and Cold cases.
- 6. To acquire different presentations related to vascular problem that might happen in some specialties as:

 Orthopedics, Obstetrics & gynecology & how to manage it.
- 7. To accept basics of ethics, medicolegal aspects of health problems & malpractice.

from each other

- b3 Select appropriate laboratory and radiological investigations for each vascular condition
- b4 Interpret the results of laboratory and radiological investigations
- b5- Select the proper line of treatment
- b6- Demonstrates the ability to solve common vascular problems
- C- Professional/practical skills
- The Postgraduate Degree provides opportunities for candidates to demonstrate the following professional/practical skills:
- C1- Examine different vascular systems of the body, including the arterial, venous, lymphatics, and extremities as well as different swellings & malformations.
- c2- Detect manifestations of clinical abnormalities
- c3- Construct a plan of management for a given clinical situation
- c4- Independently perform common vascular & endovascular Surgical Procedures with adequate proficiency
- c5- prepare the patient as regards the postoperative management and complications
- c6-Prepare the patient for vascular & endovascular procedures
- c7- Consult the patient as regards the surgical & endovascular options and outcome
- c8- Assist with efficiency and recognize challenges and difficulties during major vascular & endovascular procedures
- D- Communication & Transferable skills
 The Postgraduate Degree provides the opportunity to
 demonstrate the following transferable skills:
- d1- Apply sound communication skills in interviewing patients and their relatives
- d2- Apply team working skills in working with peers
- d3- communicate and cooperate efficiently and professionally with paramedical personnel
- d4- Maintain honesty and integrity in all interactions with lecturers, seniors, colleagues, patients and administrative task.
- d5- Be responsible towards oneself and others in the workplace and in the community at large
- d6- Maintain a professional image concerning behavior, dress and speech

Prof Hesham Sharaf Elding hold