



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Vascular Surgery

Course Specifications

sixth Year

Vascular Surgery sixth Year Course specifications

University: Tanta

Faculty: Medicine

Department: Vascular Surgery

1. Administrative Information

- **Course title: Vascular surgery**
- **Code: TMED 06: 01**
- **Department offering the course: Vascular surgery**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Academic year/ Level : Sixth year of M.B.B.Ch**
- **Date of approval by Department council :**
- **Date of approval by faculty council :**
- **Taught hours: 44 hours**

Lectures: 24 hours

Clinical: 20 hours

• **Vascular Surgery:**

2 days/week for 12 weeks

2. Overall Aims of Course

The aim of the course is to:

- Provide the student with the principles of medical ethics, evidence based surgical practice and life long learning.
- Provide the student with the appropriate knowledge, and skills, which enable him/her to obtain a detailed history from patients with vascular surgical problems, to carry out a proper clinical examination, and to define the appropriate management plan.
- Provide the student with the knowledge and skills needed for initial management of various vascular surgical emergencies, and vascular traumatized patient.
- Provide the student with an appropriate background covering various vascular problems at various age groups.

3 Intended Learning Outcomes (ILOs):

a) Knowledge and understanding

By the end of this course, the student will be able to:

- a1. Describe the vascular surgical anatomy and embryology (arterial , venous and lymphatic systems)
- a2. Define the etiology and pathology of vascular diseases with special emphasis on traumatic and environmental causes.
- a3. Identify the principles of clinical epidemiology, demography, biological variability and genetics and their role in causation of vascular surgical disorders.
- a4. Describe the clinical symptoms and signs of most important vascular disorders.
- a5. Define the appropriate diagnostic tools and therapeutic lines (medical/surgical) for

the vascular surgical disorders with emphasis on their prioritization in management plans.

a6. Recognize the common and important vascular surgical emergencies (traumatic & non-traumatic) and life threatening surgical illnesses and identify principles of their management with pre and post operative care.

a7. Identify the surgical instruments and their uses.

a8. Recognize the ethical principles that govern decision-making in surgical practice.

a9. Define principles of infection control and basics of patients' safety and safety procedures during surgical practice.

a10. Identify the importance of risk factors, methods of screening and early detection for prevention of vascular diseases.

b) Intellectual Skills

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

b1. Interpret the basic anatomic, pathologic and physiologic facts and integrate them with patients' symptoms and physical findings into meaningful diagnostic formulations of vascular diseases

b2. Analyze patient symptoms, physical findings to generate a list of differential diagnosis for each problem.

b3. Classify the most appropriate and cost-effective diagnostic investigations for surgical conditions to reach the proper final diagnosis.

b4. Interpret information objectively, express systemic thinking and personal judgment as well as retrieve data from literature for clinical problem solving based on evidence (EBM).

b5. Analyze and integrate the results of history taking, physical examinations and investigations in order to identify, prioritize and assess management strategies for various vascular diseases, emergencies as well as life threatening conditions.

b6. Interpret decisions according to medico-legal aspects and different situations of uncertainty in surgical practice and cope with by proper counseling, consultation and referral.

b7. Classify risk factors for vascular diseases and injuries to determine strategies for appropriate response.

b8. Analyze the principles of sterilization and infection control regulations based on hospital and community levels.

c) Professional and Practical Skills

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

c1. Demonstrate basics skills of practical surgical anatomy and pathology.

c2. Perform and document history taking and physical examination and construct patient's symptoms and signs in meaningful diagnostic terms.

- c3. Perform clear and concise medical records and present patient's data in an organized and informative manner using other sources of information like medical records, patient's family/ friends.
- c4. Choose the proper investigations related to the patient condition including different laboratory and radiological modalities to reach the diagnosis
- c5. Formulate management of patients with common vascular surgical conditions including chronic conditions requiring long-term follow-up, rehabilitation and pain relief.
- c6. Apply first aid measures for management of traumatized patients.
- c7. Perform routine bedside procedures.
- c8. Apply the principles of sterile techniques and infection control guidelines.
- c9. Perform basic life support procedures such cardio-pulmonary resuscitation, air way management and insertion of IV line.

d) General and Transferable Skills, Professional attitude and communication skills

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

- d1. Treat patient as a person, delivering care in an honest, considerate and compassionate manner and respecting his confidentiality, cultural beliefs, financial conditions, and his rights to be involved in management plans.
- d2. Conduct sincere and effective patient interviews (regardless their social or cultural backgrounds), properly explain their condition and plan of management, obtain consents and convey bad news in a professional way.
- d3. Maintain a professional image [in manner, dressing, speech and relationships], and practice in a responsible attitude.
- d4. Give accurate summaries of patient's illness and present information in organized, clear manner.
- d5. Construct appropriate management strategies for patients with common surgical diseases considering patients or families counseling, cost effectiveness and evidence based medicine (EBM) in management decisions.
- d6. Participate effectively and cooperatively in a team for effective patient management.
- d7. Recognize his own limitations and know when and how to ask for senior consultation or to refer patient to appropriate health facility at appropriate stage.
- d8. Evaluate himself and his work to specify his educational needs and adopt continuous medical education and lifelong learning to update his knowledge.
- d9. Communicate, consult, honor and respect the role of other health-care providers and discuss professional errors in an honest way.
- d10. Ensure patients safety and infection control measures, report any conditions that might jeopardize patient safety and try to solve them.

4-Topics (Contents of the course)

Topic	No. of hrs.		
	Total	Lectures	Clinical/Small groups/Skill lap
Vascular Surgery			
Vascular & Lymphatic surgery	44	24	20

Contents of the course

Vascular surgery:

- Arterial injuries; Acute ischemia; Occlusive arterial disease includes aneurysms
- Venous system
- Lymphatic system and lymph nodes

TRAUMA SURGERY

- Vascular injuries and acute ischemia

List 1: Clinical cases

- History taking and clinical examination.
- Chronic leg ulcers.
- Peripheral ischemia.
- Gangrene.
- Varicose veins.
- Edema of the limbs.

List 2b: List of Surgical Anatomy Topics

- Axillary and brachial arteries.
- Femoral and popliteal arteries.
- Long and short saphenous veins.

List 2c: List of operative procedures

- Varicose veins surgery.
- Principles of management of arterial injuries.
- Above the knee amputation.

Course Specifications: Vascular Surgery sixth Year

The name of course	General Surgery
Code of course	06: 01

University: Tanta
Faculty: Medicine
Department: Vascular Surgery

Category	Topic	Wk	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills Professional attitude and communication skills
Vascular Surgery	1. Acute Ischemia	13th	a1,2,4-8	b1-7	c1-5	d2,4,5,7
	2. Chr. Ischemia		a1-5	b1-7	c1-5	d1-7
	3. TOS		a1-5	b1-5	c1-5	d5
	4. Arterial Aneurysm		a1-5	b1-7	c1-5	d5,7
	5. Gangrene, Diabetic foot	14th	a1-3	b1-8	c1-5,7,8	d1-7,10
	6. Vascular Injuries		a1-8	b1-7	c1-4,6-9	d2,4,5,7
	7. Principles of Amputation		a7-10	b4-6,8	c5	d2,5
	8. AV fistula		a3,4,7	b5-7	c1	
	9. Hemangiomas & Vascular Malformations		a2-5	b1-5,7	c1-4	d1-5
	10. Varicose veins		a1-5,7,8	b1-7	c1-5	d1-5
	11. DVT		a2-5	b1-7	c1-5	d1-5
	12. Lymphatic system		a1-5	b1-8	c1-5	

5-Teaching and learning Methods

	Theoretical lectures.	Clinical rounds	Self Learning
Topics covered	All theoretical contents of the course	-Clinical cases,	Advances in surgical diagnosis and management techniques
Method of teaching	Lectures	-Tutorial -Surgical Rounds	Directing the students to search the medical literature using library and websites and present it.
Place	Main auditorium	-Teaching rooms -	-At home -Library -Teaching rooms
Time of the day	11:30-1:30 am	9:00 am: 11:00 am	twice weekly

- Teaching in lectures includes:

- Theoretical lectures in main auditorium supplied with righting board, over-head projection, desktop and data-show apparatus.
- Non-scheduled shock exams are held at lectures to assess students' attendance, knowledge and understanding.

- Teaching in surgical wards includes:

- Clinical demonstration and bedside teaching.
- Staff rounds with active participation of students for clinical, ethical and communicational skills.
- Observation of bedside procedures.
- Each student must present the history of surgical case and have them documented in a log book

- Teaching in small group rounds includes

- Learning of basic diagnostic tools and surgical procedures
- MCQ sessions, problem solving sessions.
- Presentations done by students; each student should present a 15 minuets presentation of one surgical subject and have them documented in a log book
- Interactive revision sessions

Teaching method	Learning of:	To serve ILO #
Lectures	Knowledge & Understanding & Intellectual skills	a1-21 b1-8
Tutorials	Knowledge & Understanding & Intellectual skills	a1,2,5,7,8 b2-4
Ward rounds (Clinical)	Professional & practical skills Attitude & communication skills	c1-5,7,8 d1-5,10
ER , OR rounds	Professional & practical skills Attitude & communication skills	c2-8 d1-10
Skill Lap. rounds	Professional & practical skills	c7-11

Schedule and place of lectures and small round sessions:

vascular Surgery

A. lectures are given on Sundays and Tuesdays of every week in every rotation (for 4 weeks).They are given in the main auditorium from 11.30 AM -1.30 pM. The halls are provided with writing boards, overhead projection, desktops and data show apparatus.

B. Small groups are given from9 AM -11 aM in:

- 5 teaching rooms are present in the outpatient clinic and general surgery department supplied by standard equipments.

6-Student Assessment:

a) Methods used

1. End-round clinical exams
2. Final written
3. Oral exam

4. Practical exam

b) Assessment schedule

1. Assessment 1 (end round 1) after 4 weeks
2. Assessment 2 (final exam)

c) Weighing of assessments

Minimum acceptable attendance is 75%; students who fail to attend that percentage of activities will not be allowed to take the end of term examination. They may be allowed to take it during a subsequent term if they satisfy the required attendance. Students need to attend at least 60% in order to sit for the final examination.

7- List of References

7.1 Course notes

7.2 Text book

7.3 Recommended books

- Black, J., Burnand, K. G., & Thomas, W. E. (2005). *Browse's Introduction to the Symptoms & Signs of Surgical Disease 4th Edition*. CRC Press.
- Williams, N. S., Bailey, H., Bulstrode, C. J., Love, R. M., & O'Connell, P. R. (2008). *Bailey & Love's short practice of surgery*. Crc Press.
- Kasr El-Aini Introduction to Surgery. Galal S, Mohsen A and Korashi E (Editors). 7th edition. 2011
- McLatchie, G., Borley, N., & Chikwe, J. (Eds.). (2013). *Oxford handbook of clinical surgery*. Oxford University Press.

8-Facilities for learning and teaching resources

1. Lecture halls equipped with audiovisual aids
2. Skill Lab
3. Hospital facilities for bed side clinical teaching
4. Operating room for demonstration
5. Wireless internet facilities

We verify that the above Course and the analysis of students and external evaluator opinions are accurate.

Course coordinators and head of department

Name: Signature Date

Name: Signature Date

Name: Signature Date

Name: Signature Date

Name: Signature Date

Head of quality assurance unit:

Name: Signature Date

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Matrix of the course ILOs with the Program ILOs																		
Course ILOs	Program ILOs	Knowledge & Understanding					Intellectual Skills			Professional & Practical Skills				General, Transferable, Professional attitude and Communication Skills				
		knowledge & understanding	a.1.	a1	a2													
a.2.	a3		a4	a5														
a.3.	a13		a19															
a.4.	a4																	
a.5.	a6		a7															
a.6.	a8		a9															
a.7.	a9																	
a.8.	a9																	
a.9.	a16																	
a.10.	a14		a17															
a.11.	a10		a11															
a.12.	a3		a9															
a.13.	a9																	
a.14.	a9																	
a.15.	a5		a6															
a.16.	a9																	
a.17.	a5		a6	a7	a8	a9												
a.18.	a8																	
a.19.	a9																	
a.20.	a9																	
a.21.	a8		a9															
Intellectual skills	b.1.					b1	b5											
	b.2.					b5												
	b.3.					b2												
	b.4.					b4	b9	b11										
	b.5.					b3	b6	b7										
	b.6.					b10	b13											
	b.7.					b8												
	b.8.					b12												
Professional & practical skills	c.1.								c1									
	c.2.								c2	c3	c4							
	c.3.								c5									
	c.4.								c6									
	c.5.								c6	c7								
	c.6.								c8									
	c.7.								c15									
	c.8.								c23									
	c.9.								c10	c13	c17	c19						
	c.10.								c20	c21								
	c.11.								c11	c12								
General, transferable, Professional	d.1.												d1	d2	d3	d5	d18	d19
	d.2.												d8	d9	d10			
	d.3.												d17					

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Matrix of the course ILOs with the Program ILOs																				
Course ILOs		Program ILOs	Knowledge & Understanding					Intellectual Skills			Professional & Practical Skills			General, Transferable, Professional attitude and Communication Skills						
		Attitude and communication skills	d.4.													d14				
d.5.														d2	d22	d24				
d.6.														d15	d20					
d.7.														d7	d15					
d.8.														d12	d13	d29				
d.9.														d4	d7					
d.10														d23	d26	d27				