



University of Sharjah
College of Medicine

Surgery II:
Clerkship Course Guide 2019-20
Clinical Sciences Department

Clerkship Guide Surgery II

Dear students,

This short study guide entails the topics that shall be covered during the Surgery II rotation by interactive lectures, tutorials and bedside clinical sessions for procedural skills. Since the surgical discipline is vast and cannot cover all the basic and clinical components in one rotation, this guide is a mere outline and there may be some additional surgically related topics that are not mentioned in this guide. For a more comprehensive detail of the entire course for Surgery II, please read the Surgery II Clerkship Manual.

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Course Description

Academic Year: Year 5

Course code: Surgery II (0900602)

Credit Hours: 11

Duration: 10 weeks

Clerkship Description:

This course covers multiple surgical like Orthopedics, Urology, ENT, Ophthalmology, and Anesthesia. They are attending accordingly either in the OT, OPD, or in their dedicated wards. Moreover, students are encouraged to refine their surgical skills, partake in pre- and post-operative assessments, and act as a part of the team. In addition, students are gaining the ability to formulate appropriate management and follow up plans for various surgical conditions.

Clerkship Aims:

- Ability to conduct competent history and physical examination of patients from various surgical subspecialties.
- Integration of strong clinical reasoning along with interpretation skills necessary for diagnosis of the surgical conditions
- Ability to formulate appropriate management and follow up plans for both general and specific surgical conditions and trauma emergencies
- Efficiency in working with other healthcare professionals in multi-disciplinary teams
- Demonstrate effective communication skills with patients and their respective families
- Development of adequate surgical skills for clinical settings application

Teaching Methodologies:

Students are sent in small groups up to 6 to different hospitals attached to their respective surgical team, five days a week starting 8AM to 2PM. Members of the team are taking responsibility in teaching during hospital hours. Students are also gaining their clinical skills through observing and assisting in any available bedside procedures (e.g., Urethral catheterization, Fundoscopy and slit lamp etc.). In addition, students are following patients closely and actively participating in discussions regarding the diagnosis and management.

Moreover, dedicated bedside teaching are taking place once per day within the hospital settings. Resource sessions are also being given online by designated faculty to help bridge their knowledge needs.

Assessment Tools:

Students are tested throughout their clerkship rotation for their clinical knowledge and management skills. During their continuous assessment, they are evaluated by the clinical doctor. In addition, the students are continuously evaluated by clinical E-Portfolios through

Taskstream. At the end of each rotation, students are further assessed by written examination and OSCE.

Cognitive knowledge to be attained during the rotation

ORTHOPEDECS CLERKSHIP (Three weeks)

- Fractures, dislocations, and subluxations
- Musculoskeletal infection
- Arthritis
- Metabolic endocrine disorders
- Bone necrosis
- Spine
- Bone tumor
- Gait

UROLOGY CLERKSHIP (Two weeks)

- Obstructive Uropathy (Hydronephrosis and Prostatic hyperplasia).
- Genito-urinary trauma and injuries
- Renal Colic and urolithiasis.
- Blood in urine (Microscopic and Macroscopic Hematuria).
- Urinary tract infection (UTI) and (STDs).
- Loss of Urinary voluntary control (Urinary incontinence).
- Upper and Lower urinary tract tumors (Hypernephroma, Bladder and Prostatic Tumors).
- Scrotal masses and acute pain (Testicular Tumors, Varicocele and Testicular Torsion).

OPHTHAMOLOGY CLERKSHIP (One week)

- Acute and chronic visual loss
- Eye trauma.
- Red eye (glaucoma, conjunctivitis)
- Eye emergencies
- Strabismus and / or amblyopia

ENT CLERKSHIP (Two weeks)

- Epistaxis
- Dizziness / vertigo / tinnitus
- Ear pain
- Hearing loss/deafness
- Hoarseness
- Tonsillitis/ quinsy/ croup
- Sore throat
- Smell/taste dysfunction
- Head and neck pain / facial palsy
- Upper respiratory tract obstruction

ANESTHESIA CLERKSHIP (One week)

- Induction
- Emergence and maintenance
- Hemodynamic changes
- Airway management including difficult airway
- Regional anesthesia
- Decision making in case of critically ill patient
- Airway management
- Regional anesthesia
- Vascular access
- Ventilator support

Procedural skills to be attained during the rotation

ORTHOPEDECS CLERKSHIP

- How to take basic orthopaedic history and perform a physical examination of the musculoskeletal system
- How to diagnose and treat common adult orthopaedic problems
- Basics of fracture treatment, including cast application
- Basic principles of total joint replacement surgery
- Management of postoperative adult orthopaedic patients

UROLOGY CLERKSHIP

- Urethral catheterization and dilation in males and females.
- Urethral swab & urine dipstick testing.
- Abdominal, Prostatic and small parts linear U/S.
- Urodynamic of the lower urinary tract (Q-max. for outflow obstruction).
- Lithotripsy (ESWL) in Al-Qassimi Hospital
- Office cystoscopy in Al-Qassimi Hospital

OPHTHAMOLOGY CLERKSHIP

- Examination of the eye and visual acuity
- Fundoscopy and slit lamp
- Clinical optics / optometry

ENT CLERKSHIP

- Otoscopes
- Tuning fork test
- Rinne's test
- Performs and interpret pure tone audiometry, tympanometry, stapedius reflex, acoustic brainstem responses (ABR)

ANESTHESIA CLERKSHIP

- Techniques of airway management and general anesthesia for both adults and pediatric patients

Suggested Resources

There is no single text book or resource that can be suggested for the undergraduate medical students. The following books and resources are suggested only for your guidance and you can choose anyone of the suggested or other books and resources for your studies.

I. Orthopedics

1. Adams's Outline of Orthopaedics, by David L. Hamblen (Published by Churchill Livingstone, 2009. ISBN 9780702030611)
2. Adams's Outline of fractures, by David L. Hamblen PhD DSc FRCS (Published by Churchill Livingstone, 2007. ISBN 9780443102974)
3. Apley's Concise System of Orthopaedics and Fractures (Published by Hodder Education Publishers, 2005. ISBN 9780340809846)
4. Current Diagnosis and Treatment Orthopedics, 4e, Skinner, Harry B (Published by Appleton & Lange, 2000. ISBN 9780838503638)

II. Urology

1. Bailey and Love's Short Practice of Surgery 27th Edition (Published by CRC Press, 2018. ISBN 9781498796507)
2. Smith general Urology (Published by Mcgraw Hill, 2000. ISBN 9780071120067)
3. EAU update guidelines.
4. AUA updates guidelines 2010-2012.
5. Urology Emergency Manual in UHS.

III. Ophthalmology

1. Parsons Disease of the Eye (Published by Elsevier India, 2019. ISBN 9788131254158)

IV. ENT

1. Logan Turner's diseases of the ear, nose, throat (Published by CRC Press, 2015. ISBN 9780340987322)

V. Anesthesia

1. Resources sessions and clinical demonstrations

Online resources

- e-Medicine
- Medscape
- College of medicine e-Platform Blackboard

- UpToDate
- Clinical key