

General

- Management of **acutely injured patient**. (2013)
- Types and complications of **burn**. (2015, 2016)
- Differentiate between **hypertrophic scar** and **keloid**. (2016)
- Rule of nine in **burns**. (2016)
- Differences between **partial-thickness** and **full-thickness** skin burn? (2016)
- Case (35 y.o male, 50% burns – mixed partial thickness and deep burn - due to scald, patient's weight → 60 kg, arrived to emergency hospital 2h after burn): (2016)
 - Describe any fluid therapy formula for his resuscitation?
- Indications and complications of **blood transfusion**. (2014, 2015, 2016)
- Definition, classes and endocrinal response to **shock**. (2016)
- Causes and treatment of **hypovolemic shock**. (2015)
- 1st aid measures of **hypovolemic shock**. (2014)
- Pathology and treatment of **septic shock**. (2011)
- Define **surgical wounds**. (2016)
- Enumerate factors affecting **wound healing**. (2014, 2016)
- Enumerate **post-operative complications**. (2016)
- Causes of **post-operative fever**. (2016)
- Pathogenesis and treatment of **gas gangrene**. (2013)
- Compare between **tetanus** and **gas gangrene**. (2016)
- Factors affecting **K⁺ distribution** in the body. (2016)
- Causes of **hypokalemia**. (2016)
- Cause of **hyponatremia**. (2016)
- C/P of **hypercalcemia**. (2016)
- Adverse effects of **intravenous infusion therapy**. (2016)

Skin and Soft Tissues

- Clinical types, pathology, C/P and treatment of **basal cell carcinoma** (2012, 2014, 2015, 2016)
- Complications of **squamous cell carcinoma**. (2016)
- Pathology, types and treatment of **malignant melanoma** (2011, 2016)
- Case (22 y.o patient, thigh pain + 4x4 cm swelling , limited mobility + no palpable nodes in femoral triangle or inguinal region + MRI → large mass within quadriceps muscle + biopsy → high grade undifferentiated sarcoma): (2016)
 - Most probable causes of soft tissue sarcoma?
 - Other required investigations?
 - 4 types of soft tissue sarcoma?
 - How to manage this case?

Vascular

- Definition, causes, investigations and treatment of **acute ischemia of LL**. (2011, 2013, 2016)
- Etiology and investigations of **chronic ischemia**. (2015)
- Management of **chronic lower limb ischemia**. (2012)
- 4 factors help **venous return** from LL. (2016)
- **Virchow triad**. (2016)
- Diagnosis of **DVT** and mention post-operative preventive measures. (2011)
- Risk factors, prophylaxis and treatment of **DVT**. (2014)
- Define **varicose veins**. (2016)
- 4 causes of **varicose veins**. (2016)
- Investigations needed to confirm **varicose veins**. (2016)
- Different lines of treatment of **varicose veins**. (2016)
- Mechanism of **venous ulceration**. (2016)
- 4 risk factors of **leg ulcers**. (2016)
- 4 important clinical differences between **varicose ulcer** and **post-phlebitic ulcer**. (2016)
- Case (40 y.o female, disfigurement, bluish discoloration of skin and discomfort in the right leg):
 - Possible diagnosis?
 - 4 causes of that pathology?
 - Investigations needed?
 - Lines of treatment?
- Causes and C/P of **lymphedema**. (2015)
- Causes and DD of **unilateral LL swelling**. (2014, 2015)
- DD of adult patient with **unilateral leg pain**. (2013)

Head and Neck

- causes, C/P and treatment of **tongue cancer**. (2013, 2014, 2015)
- Case (52 y.o male, smoker, tongue pain + profuse salivation + fetor + ulcer 2x3 on the left side everted edge + mass on the upper left side of the neck): (2016)
 - Most likely diagnosis?
 - Investigations needed?
 - Surgical options suggested for this condition?
 - Possible complications?
- Compare **adamantinoma** and **osteoclastoma**. (2014, 2015)
- **Functions of salivary gland secretions**. (2016)
- C/P and treatment of **acute calcular submandibular sialadenitis**. (2013)
- C/P of **chronic submandibular sialadenitis**. (2015)
- Complete: (2016)
 - The most common causes of **sialadenitis**....
 - Causes of associated **facial new palsy**....
 - **Sjogren's disease** is a triad of....
 - A significant **stone in Wharton's duct** can be managed by....
- Define **sialectasis**. (2016)
- Causes and treatment of **parotid fistula**. (2015)
- Classification of benign and malignant **salivary gland tumors**. (2016)
- Diagnosis and treatment of **mixed parotid tumors (pleomorphic adenoma)**. (2014)
- Diagnosis and treatment of **malignant parotid tumors**. (2013)
- DD of **swelling in submandibular triangle** (2012)
- Causes of **submandibular gland swelling**. (2015)
- DD and investigations of **midline neck swellings**. (2013, 2015)
- Enumerate **lateral side neck swelling**. (2014)

Thyroid & Parathyroid

- **Anatomy** of thyroid gland (2012)
- Investigations of **1ry thyrotoxicosis**. (2013)
- C/P and surgical treatment of **thyrotoxicosis**. (2014)
- Types and investigations of **toxic goiter**. (2015)
- Pathological types and methods of spread of **thyroid cancer**. (2013)
- Types, investigations and treatment of **thyroid cancer**. (2014)
- DD of **(solitary) thyroid nodule**. (2012, 2015)
- management of **solitary thyroid nodule**. (2011)
- Case (32 y.o female, neck lump + weight loss + recurrent diarrhea): (2016)
 - Possible diagnosis?
 - Investigations needed?
 - Lines of treatment?
- Case (30 y.o woman, 5-month pregnancy + palpitations + tremors + excessive sweating + loss of weight + neck swelling, move up and down with deglutition): (2016)
 - Provisional diagnosis?
 - Investigations ordered?
 - Lines of treatment?
 - Causes of neck swelling?
- C/P of **1ry hyperparathyroidism**. (2016)

Breast

- Enumerate **axillary** groups of **lymph nodes**. (2016)
- 5 risk factors of **breast cancer**. (2016)
- Compare between **Paget's disease** and **eczema** of the breast. (2016)
- Pathology, diagnosis and treatment of **early cancer breast**. (2011, 2014)
- Treatment of **advanced carcinoma** of the breast. (2012)
- DD of **breast lump**. (2013, 2015)
- DD and investigations of **nipple discharge** (2012, 2014, 2015)
- Case (38 y.o female, mastalgia + grayish nipple discharge + 2x3 mobile firm mass in the upper outer quadrant of left breast + negative axillary node): (2016)
 - Most likely diagnosis?
 - Investigations needed?
 - 4 clinical differences between this pathology and malignant lesions?
 - Treatment?
- Case (49 y.o woman, 3x4 cm mass in upper outer quadrant of left breast + solitary mobile ipsilateral axillary lymph node + mammography → irregular speculated shadows + micro-calcifications): (2016)
 - Investigations needed?
 - TNM staging of the case?
 - Contraindications for breast conservation surgery?
 - Line of treatment for this case?
 - Define sentinel axillary lymph node
 - How you advise this patient to do breast self-examination?

Hernia

- Anatomy of **inguinal canal** (2011, 2012, 2015)
- Anatomy of **femoral triangle** (2011, 2013, 2014)
- Compare between **direct** and **indirect** hernia. (2016)
- Factors preventing **inguinal hernia**. (2016)
- **Complications** of hernia (2016)
- C/P and management of **strangulated hernia** (2011, 2013)
- Management of **strangulated hernia containing colon**. (2012)
- Define: (2016)
 - **strangulated hernia**
 - **Richter's hernia**
 - **Little's hernia**
 - **Spigelian's hernia**
- Case (55 y.o male, abdominal colicky pain + repeated greenish vomiting + distention + absolute constipation for 3 days + abdominal mass over a previous laparotomy incision which has become recently larger, tense and tender + silent abdomen): (2016)
 - Possible diagnosis?
 - Investigations needed?
 - Metabolic changes associated with this condition?
 - Management options of this condition?
 - How to differentiate between viable and non-viable loop intra-operatively?

Male Genitalia

- Causes of **undescended testis**. (2016)
- Pathology, types, C/P and investigations of **testicular tumors**. (2013, 2015)
- Define **varicocele** and describe its clinical grading. (2016)
- **Varicocele** causes progressive testicular damage over time due to.... (2016)
- Definition and causes of **hydrocele**. (2016)
- Causes and diagnosis of **scrotal swelling**. (2015)

GIT

Esophagus

- Factors contributing to **GERD**. (2016)
- Definition and C/P of **Barret's esophagus**. (2016)
- C/P, investigations and treatment of **sliding hiatus hernia**. (2012)
- Define **achalasia**. (2016)
- C/P, investigations and treatment of **achalasia** of the esophagus. (2013)
- Epidemiology, pathology and treatment of **esophageal cancer**. (2011)
- C/P and investigations of **cancer esophagus**. (2015)
- Investigations and treatment of **lower third esophageal cancer**. (2014)
- DD of **dysphagia**. (2014, 2016)
- Causes and investigations of **lower esophageal dysphagia**. (2015)

Stomach & Duodenum

- Anatomy and surgical importance of the **2nd part of duodenum**. (2013, 2014)
- C/P, diagnosis and treatment of **congenital hypertrophic pyloric stenosis**. (2012, 2013, 2014, 2016)
- Pathology and treatment of complications of **peptic ulcer**. (2011)
- C/P and treatment of **perforated duodenal ulcer**. (2014, 2015)
- Case (45 y.o male worker, severe recurrent epigastric pain + worse when stomach is empty and at night, relieved by eating food and antacid medication + hematemesis attack 1 month ago, smokes 20/d, looks unwell + tender epigastric region): (2016)
 - Possible diagnosis?
 - 4 investigations for this patient + their values?
 - Possible complications?
 - Steps of surgical treatment?

- Case (45 y.o male, epigastric burning pain for 2 weeks + worse when stomach is empty and at night + relieved by food and antacids): (2016)
 - Possible diagnosis?
 - Ordered investigations?
 - Different options of management?
 - Possible complications of this disease?
- Risk factors of **stomach cancer**. (2016)
- Pathology, investigations and treatment of **carcinoma of the stomach**. (2012, 2015, 2016)
- Items of diagnosis of **gastric carcinoma**. (2016)

Intestinal obstruction

- Causes, C/P and treatment of **intestinal obstruction**. (2014, 2015, 2016)
- C/P and treatment of (ileocecal) **intussusception**. (2014, 2016)
- C/P and treatment of **sigmoid volvulus**. (2015)
- Why is sigmoid **volvulus** is the most common type of volvulus? Other types of volvulus? (2016)
- Definition and investigations of **acute mesenteric ischemia**. (2016)

Small Intestine

- C/P, Complications and treatment of **Mickel's diverticulum**. (2013, 2015)
- Causes and investigations of **neonatal intestinal obstruction**. (2015)
- Types and management of **infantile small intestinal obstruction**. (2012)

Colon

- C/P and investigations of **Hirschsprung disease**. (2013)
- types, C/P and treatment of **megacolon** (2011)
- C/P and complications of **diverticular disease**. (2015)

- C/P of uncomplicated colonic **diverticulosis**. (2016)
- Complications and treatment of **colonic diverticulosis**. (2014)
- Define:
 - **Diverticulosis**
 - **Diverticular disease**
 - **Diverticulitis**
- C/P and investigations of **ulcerative colitis**. (2013)
- Definition, causes and C/P of **ulcerative colitis**. (2016)
- Compare **ulcerative colitis** and **Crohn's disease**. (2016)
- Define **Familial Adenomatous polyposis**. (2016)
- C/P and management of right-side **colon cancer**. (2014)
- Diagnosis and treatment of left **colon cancer**. (2015)
- Compare between right and left **colon cancer**. (2016)
- Prognostic factors of **colorectal cancer**. (2016)
- Case (70 y.o man, right-sided abdominal pain + constipation for 4 month + increasing amount of laxative intake + feeling of insufficient evacuation + weight loss + occult blood): (2016)
 - DD?
 - Other investigations?
 - Possible complications?
 - Treatment?
- Case (42 y.o male, fatigue + anemia + tenesmus + bleeding per rectum + palpable ulcerative mass 6cm from anal verge, non-tender , slightly mobile): (2016)
 - Most likely diagnosis?
 - How confirm the diagnosis?
 - Complications associated with this disease process?
 - Mention different therapeutic lines for this case?

Anorectal

- Enumerate **anorectal malformations**. (2016)
- Definition and symptoms of **imperforate anus**. (2016)
- Classification, C/P and treatment (peri-) **anal suppuration** (2012, 2013)
- types and treatment of **anal fistula** (2012)
- Etiology, classification, diagnosis and treatment of **hemorrhoids** (2011, 2013, 2014, 2015)
- Definition, classification and complications of **rectal prolapse**. (2016)

Appendix

- C/P and treatment of **acute appendicitis**. (2015)
- DD of mass in the right iliac fossa and treatment of **appendicular mass**. (2015)
- Case (25 y.o male, vague umbilical pain shift to right iliac fossa, 3 days duration + HR→ 100/min + temp → 38 °C + tender mass in the right iliac fossa): (2016)
 - Provisional diagnosis?
 - Investigations ordered?
 - Strategy of treatment?
 - DD of a mass in the right iliac fossa ?
 - Enumerate cause of right iliac fossa pain?
- Case (15 y.o student, emergency department, umbilical then right iliac pain + vomiting + looks unwell + fever + tenderness + rebound tenderness in the right iliac fossa + rigidity): (2016)
 - Possible diagnosis?
 - Differentiate between visceral and somatic pain?
 - Complications of this pathology?
 - Possible positions of vermiform appendix?
 - Treatment of the case?
 - Treatment in case of appendicular mass?

- Definition and causes of **acute abdomen**. (2016)
- Interpret these findings to reach a diagnosis: (2016)
 - Abdominal distention + tympany to percussion + borborygmi → ?
 - Severe abdominal pain + silent abdomen + tenderness in left lumbar region + gas under diaphragm on erect plain X-ray abdomen following colonoscopy → ?
 - Severe abdominal pain + silent abdomen + right lower quadrant tenderness → ?
 - Spontaneous painless anal bleeding → ?

Biliary System

- Diagnosis, management of **Acute cholecystitis**. (2011, 2014, 2015)
- Causes of **benign biliary stricture**. (2016)

Jaundice

- Complications and treatment of **gall stones**. (2012, 2015, 2016)
- Diagnosis of **extra-hepatic obstructive jaundice**. (2012)
- C/P, investigations and treatment of **calcular obstructive jaundice**. (2014)
- Case (60 y.o male, upper abdominal pain 2 month + loss of appetite + hepatomegaly + mild ascites + deep jaundice + dark urine + clay-colored stool + direct bilirubin → 4.6 gm/dl + serum alkaline phosphatase → 200 IU/L): (2016)
 - Possible diagnosis?
 - Investigations needed?
 - Treatment options in this case?
 - Physiological steps of bilirubin formation?

Portal HTN

- Anatomy of **portal vein**. (2015)
- Normal **portal blood pressure**? Definition of **portal hypertension**? (2016)
- 4 causes of **portal HTN**. (2016)

GIT bleeding

- DD and management of **upper GIT bleeding**. (2012, 2014, 2016)
- causes, diagnosis and treatment of **bleeding per rectum** (2012)

Liver

- Main risk factors for **hepatocellular carcinoma**. (2016)
- Investigations and treatment of **liver secondaries**. (2011)
- Etiology and management of **liver abscess**. (2015)

Pancreas

- Causes, complications, investigations and treatment of **acute pancreatitis**. (2012, 2016)
- 4 investigations of **pancreatic pseudocyst**. (2016)
- Classification and diagnosis of **pancreatic tumors**. (2016)
- C/P, investigations and management of **cancer head pancreas**. (2011, 2013, 2015)

Spleen

- 4 causes of **left hypochondrial pain**? (2016)
- Case (42 y.o male, hematemesis + firm swelling with rounded edges in the left upper quadrant with notch on its anterior border 4 fingers below costal margin + positive history of bilharziasis): (2016)
 - Diagnosis?
 - Investigations needed?
 - Indications of surgery?
 - How differentiate between intra- and retro-peritoneal mass?

- Case (47 y.o female, anemia + repeated attacks of chest infection + firm swelling in left hypochondrial region 4 fingers below costal margin, rounded edge + recurrent, multiple areas of bluish discoloration without previous trauma, CBC → pancytopenia): (2016)
 - Possible diagnosis?
 - Causes of enlarged spleen?

Abdominal Trauma

- Causes, diagnosis and treatment of **rupture spleen**. (2012, 2014)
- Define **splenosis**. Drawbacks of **splenosis**. (2016)
- Definition, causes and pathophysiological effects of **abdominal compartment syndrome**. (2016)

Peritoneum

- Functions of **peritoneum**. (2016)
- Definition and diagnosis of **acute peritonitis**. (2016)
- **Retroperitoneal tumors** may arise from.... (2016)

Plastic

- Burn (see General)
- Wound healing (see General)
- Anatomical classification of **cleft lip**. (2016)

Urology

- Causes, investigations and treatment of **hematuria**. (2011, 2013, 2014, 2015, 2016)
- Case (62 y.o male, recurrent hematuria): (2016)
 - Main causes of hematuria?
 - Immediate measures needed?
 - Investigations required?
 - Lines of treatment?
- Case (65 y.o male, acute urine retention following 1 year of medical treatment of LUT obstructive symptoms): (2016)
 - C/P of acute urine retention?
 - Initial treatment of the condition?
 - Diagnostic workup in this case?
 - How to differentiate between benign and malignant prostatic pathology?
- Causes, investigations and treatment of **anuria**. (2011, 2012)
- Causes and treatment of (acute) **urine retention**. (2012, 2013, 2015)
- Case (40 y.o male, no urine for 24 hours): (2016)
 - Define anuria?
 - Types of anuria?
 - Define urine retention?
 - Causes of urine retention?
 - Indications of emergency dialysis in this patient?
- Mention the **congenital anomalies of the genitourinary tract** that can be detected in a newborn during clinical exam. (2016)
- Diagnosis and treatment of **benign prostatic hyperplasia**. (2014, 2015)
- Diagnosis and treatment of a patient with **ureteric stone**. (2014, 2015)
- Causes, diagnosis and treatment of **renal trauma**. (2014, 2015)
- Pathology, C/P and treatment of **renal cell carcinoma**. (2011, 2012)

- C/P and management of **cancer of urinary bladder**. (2012, 2015)
- Pathology, diagnosis and treatment of **invasive cancer bladder**. (2011, 2014)
- Radiological investigations for diagnosis and staging of **renal tumors**. (2016)
- Clinical and radiological diagnosis of **urethral trauma**. (2016)
- Case (55 y.o female, recurrent hematuria + turbid urine): (2016)
 - Probable causes?
 - When to do cystoscopy?
 - Other investigations?
 - If bladder biopsy showed invasive squamous cell carcinoma. What is the optimal treatment?
- Case (62 y.o male, recurrent hematuria + necroturia + dysuria): (2016)
 - Histopathological types of bladder tumors?
 - Treatment of TCC of the bladder?
- Case (6 y.o boy, left acute painful scrotum): (2016)
 - Investigations required?
 - DD?

Cardiosurgery

- 5 **cyanotic congenital heart diseases**. (2016)
- 3 palliative surgeries in **congenital heart diseases**. (2016)
- 6 parts of **MV** complex. (2016)
- 4 complications of **MV** repair. (2016)
- 3 contraindications for **closed mitral valvotomy**. (2016)
- Complications of (biological) **prosthetic valves**. (2015, 2016)
- Indications and surgical complications of **coronary bypass surgery**. (2011)
- 4 conduit used in **CABG**. (2016)
- Indications and complications of **intercostal tube**. (2011, 2012, 2013, 2014, 2016)
- 4 complications of **penetrating chest injuries**. (2016)
- Types, causes, diagnosis and treatment of **pneumothorax**. (2012, 2013, 2016)
- Causes, diagnosis and treatment of **hemothorax**. (2014)
- 3 **vascular structures** passing through the **diaphragm**. (2016)
- 3 types of **diaphragmatic hernia**. (2016)
- Types and complications of **thoracotomy**. (2015)
- 4 types of **pulmonary resection**. (2016)
- 3 **incisions** in cardiothoracic surgery. (2016)
- 3 muscles for **chest wall reconstruction**. (2016)

Neurosurgery

- **Ulnar nerve injury** (causes, C/P, diagnosis and treatment) (2011, 2013, 2014)
- Diagnosis and treatment of **radial nerve injury** (2012)
- Etiology and management of **brain abscess** (2012)
- Etiology of **pyogenic brain abscess**. (2016)
- First aid measures of **head trauma** (2011)
- General management of **head injury**. (2015)
- Intensive care management off **comatosed head injured patient**. (2016)
- Different lines of surgical treatment of **cervical disc prolapse**. (2015)
- Different types of surgical interference for **cervical disc prolapse** and indications for each. (2016)
- Compare the neurological manifestations of **L4-5** and **L5-S1 disc prolapse**. (2016)
- Indications of surgery in **lumbar disc prolapse**. (2016)
- diagnosis of infant with **congenital hydrocephalus**. (2016)
- Treatment of **acquired obstructive hydrocephalus**. (2016)
- Multimodality treatment of functioning **pituitary adenomas**. (2016)
- The commonest **intramedullary spinal cord tumors** are , (2016)
- Best diagnosis investigation for: (2016)
 - **Acute brain hemorrhage**
 - **Cerebral aneurysm**
 - **Ulnar nerve entrapment**
 - **Cervical disc prolapse**
 - **Antenatal meningomyelocele**

Orthopedics

- Clinical evaluation of multi-trauma patient according to **ATLS. (2016)**
- **Fracture healing** and fracture developments (non-union, infection and heterotopic ossification). (2015)
- C/P, diagnosis and treatment of **acute compartment syndrome**. (2015, 2016)
- The most common complication and nerve injury in **supracondylar fracture humerus**. (2016)
- Management of **supracondylar fracture of humerus**. (2013, 2015)
- Late complications of **Colles' fracture**. (2016)
- C/P, complications and treatment of traumatic posterior **hip dislocation**. (2016)
- Causes, diagnosis and treatment of **fracture of femur neck**(2011, 2012, 2013, 2014)
- Case (65 y.o female, fell home + emergency hospital + groin pain + inability to walk + externally rotated limb): (2016)
 - Approach for diagnosis?
 - Possible diagnosis?
 - General and local complications?
- Case (45 y.o male, dash-board accident, presented to emergency room by flexion adduction and internal rotation): (2016)
 - Probable diagnosis?
 - Radiological investigations?
 - Most common complications?
- Etiology, C/P and treatment of **acute osteomyelitis**. (2014)
- Management of **acute hematogenous osteomyelitis**. (2014)
- Define: (2016)
 - **Sequestrum**
 - **Involucrum**

- The most common causative organism in case of: (2016)
 - **Acute hematogenous osteomyelitis.**
 - **Osteomyelitis complicating total hip arthroplasty.**
- Predisposing factors and C/P of **septic arthritis** of the knee. (2016)
- pathology and treatment of **osteoclastoma** (2011)
- Pathology, diagnosis and treatment of **osteosarcoma**. (2012, 2014)
- Age incidence, commonest site, common sites of metastasis and complication of **osteosarcoma**. (2016)
- pathology, C/P, investigations and treatment of **Ewing's sarcoma** (2011, 2013, 2015)
- The most common site and age of **Ewing's sarcoma**. (2016)
- Components of **congenital talipes equinovarus** deformity? (2016)
- Different alternative for operative treatment of **osteoarthritic** knee. (2016)

Anaesthesia

- Complications of **general anaesthesia**. (2012, 2013, 2015)
- Complications of **spinal anaesthesia**. (2012, 2013, 2014)
- Advantages and disadvantages of **spinal anaesthesia** (2011)
- Enumerate 3 **inhalational anaesthetics**. (2016)
- Advantages and disadvantages of **inhalational anaesthesia**. (2015, 2016)
- Advantages and disadvantages of **isoflurane** (2011)
- Compare between **Isoflurane** and **Sevoflurane**. (2016)
- Advantages and disadvantages of **Ketamine**. (2016)
- Advantages and disadvantages of **Propofol**. (2016)

??

- Histological grading and gross picture of **nodal Hodgkin's disease**. (2013, 2014)