Gastrointestinal Tract
07GIT001 Describe the embryology, pathophysiology, presentation, differential diagnosis, management and epidemiology of congenital abnormalities and perinatal disorders of the gastrointestinal tract.
07GIT002 Describe the pathophysiology, epidemiology, presentation, differential diagnosis, and management of inflammatory bowel disease.
07GIT003 Discuss factors affecting the quality of life of patients with inflammatory bowel disease as measured with the Inflammatory Bowel Disease Questionnaire (IBDQ).
07GIT004 Describe the pathophysiology and presentation of esophageal motility disorders.
07GIT005 Describe the pathophysiology, epidemiology and clinical presentation of various forms of malabsorption syndrome.
07GIT006 Describe the pathophysiology, presentation, differential diagnosis, management and epidemiology of benign and malignant tumors of the gastrointestinal tract, head and neck, including the oral cavity, paranasal sinuses, nasopharynx and major salivary glands.
07GIT007 Recognize the anatomy, epidemiology and clinical presentation of diverticular disease.
07GIT008 Describe the etiology, pathophysiology, and presentation of ischemia/infarction of the small bowel and colon.
07GIT009 Recognize the epidemiology, pathophysiology, presentation and management of esophagitis.
07GIT010 Describe the pathophysiology, presentation, differential diagnosis, management and epidemiology of gastritis, gastropathy and peptic ulcer disease.
07GIT011 Describe the pathophysiology, presentation, differential diagnosis, management and epidemiology of bacterial and parasitic enteric infections and food poisoning.
07GIT012 Describe the special characteristics of the part of the mucosal immune system, especially the GI tract, and the importance of IgA in mucosal immune responses.

Lower Urinary Tract
07LUT001 Describe the epidemiology, pathophysiology, presentation, evaluation and management of prostatitis, benign prostatic hyperplasia and prostate cancer.
07LUT002 Describe the congenital anomalies of the lower urinary tract and male genital tract.
07LUT003 Describe the epidemiology, pathophysiology, presentation, evaluation and management of neoplasms of the lower urinary tract and male genital tract.

07LUT004 Describe the pathophysiology and clinical presentation of cystitis, urethritis and inflammation of the testis/epididymis.

Liver and Biliary System

07LVR001 Describe the pathophysiology, presentation, differential diagnosis, management and epidemiology of common conditions that produce jaundice.

07LVR002 Describe the etiology, pathophysiology, presentation, differential diagnosis, management, treatment and epidemiology of viral hepatitis.

07LVR003 Describe the major mechanisms of injury, pathophysiology, clinical presentation and management of drug-related hepatic injury.

07LVR004 Describe the etiology, pathophysiology, presentation, differential diagnosis, management and epidemiology of cirrhosis and alcoholic liver disease.

07LVR005 Describe the etiology, pathophysiology, presentation, differential diagnosis, management and epidemiology of carcinomas and metastatic disease of the liver.

07LVR006 Describe the etiology, pathophysiology, presentation, differential diagnosis, management and epidemiology of gall bladder disease.

Oncology

07ONC001 Describe general concepts of cancer biology and therapeutic approaches including, aspects of surgery, radiation, chemotherapy, and biologics.

Pancreas

07PAN001 Describe the etiology, pathophysiology, presentation, differential diagnosis, management and epidemiology of pancreatitis.

07PAN002 Describe the etiology, pathophysiology, presentation, differential diagnosis, management and epidemiology of pancreatic cancer.

Renal

07REN001 Define nephrotic syndrome and its etiology, clinical presentation, pathophysiology and management.

07REN002 Describe the etiology, pathophysiology, evaluation, management and clinical presentation of acute tubular necrosis.
07REN003 Define glomerulonephritis; list the major causes, outline the common clinical presentations, immunologic mechanisms and general management principles associated with glomerulonephritis.

07REN004 Describe the etiology, clinical presentation, disease course and management plan of congenital anomalies and autosomal dominant polycystic kidney disease.

07REN005 Describe the pathophysiology, epidemiology and clinical presentation of various forms of tubulointerstitial nephritis.

07REN006 Discuss the etiology and pathophysiology of urolithiasis.

07REN007 Describe the pathophysiology, epidemiology and clinical presentation of thrombotic microangiopathies.

07REN008 Discuss the etiology, evaluation and management of hypernatremia and hyponatremia.

07REN009 Discuss the most common mechanisms of drug-drug interactions and their consequences.

07REN010 Define chronic kidney disease, its etiology, clinical presentation, pathophysiology, evaluation and management.

07REN011 Describe the mechanisms of action, clinical application and the adverse effects of diuretic agents.

07REN012 Describe the pathophysiology, presentation, management and epidemiology of benign and malignant tumors of the kidney.

07REN013 Compare the epidemiology, pathophysiology, clinical presentation, differential diagnosis, and management of urinary tract infections.

07REN014 Discuss the epidemiology, mechanisms of toxicity, risk factors and drug classes most commonly associated with drug-induced renal disease.

07REN015 Describe the indications for kidney transplantation, its risks, histocompatibility principles, post op management and diagnostic findings of rejection.

Reproductive System and the Breast

07REP001 Describe the epidemiology, screening recommendations, pathophysiology, presentation, evaluation and management of neoplasms of the vulva, vagina, cervix, ovary and uterus.

07REP002 Describe the epidemiology, pathophysiology, presentation, evaluation and management of benign disorders of the vulva; ovarian cysts and polycystic ovarian syndrome.

07REP003 Describe the epidemiology, pathophysiology, presentation, evaluation and management of dysfunctional uterine bleeding; benign disorders of the endometrium (endometriosis, adenomyosis, leiomyomata uteri); and mesothelial tumors.

07REP004 Identify the common bacterial and viral pathogens associated with sexually transmitted infections. Describe the epidemiology, pathophysiology, clinical presentation, and treatment of STIs.

07REP005 Describe the clinical application, mechanisms of action, adverse side effects of medications used to treat sexually transmitted infections.
List the pathogens commonly associated with congenital and neonatal infections (TORCHES). Describe the epidemiology, pathophysiology, clinical presentation, impact on fetal/neonatal morbidity and mortality, and prevention of viral infections of the fetus and newborn.

Describe the clinical application, mechanisms of action, and adverse side effects of medications used to treat urinary incontinence, BPH and erectile dysfunction.

Describe the etiology, pathological findings, presentation and evaluation of salpingitis and ectopic pregnancy.

Describe the etiology and pathological findings of spontaneous abortions, multiple gestations and placental infections.

Compare and contrast the types of gestational trophoblastic disease and placental abnormalities.

Define the risk factors, clinical presentation, complications and management of preeclampsia and eclampsia.

Describe the epidemiology, pathophysiology, presentation, evaluation and management of neoplasms of the breast, breast inflammation, and benign epithelial lesions of the breast.

**Clinical Skills**

Demonstrate knowledge and ability to perform the Tier 1 and 2 neuromuscular examination.

Practice the complete neuromuscular examination with supervision by physicians.

Practice the complete neuromuscular examination

Demonstrate the ability to enter patient encounter information in the UNDSM & HS “One45” database including both clinical and procedural data.

Review the role of the public health services in our region related to patient care and epidemiology. Outline physician responsibilities in communicating with city, state, and national health departments and agencies.

Review the fluid and electrolyte needs of patients in various pathologic conditions and prepare correct fluid orders.

Review and demonstrate ability to perform female breast and genitourinary examinations.

Review the fundamentals of male genitourinary examination including discussion of hernia, genital, and prostate normal and pathologic conditions.

Introduce the role of obstetrics and gynecology in the health management of female patients. Review the fundamental issues in health and disease in the pregnant and non-pregnant female.

Outline the fundamentals of female breast and genitourinary examinations. Outline pathologic and normal conditions. Review technique of examinations.
07CSK011 Demonstrate ability to perform male genitourinary examination.

07CSK012 Review the rationale and technique as well as demonstrate ability to perform insertion of Foley catheter in urinary bladder.

07CSK013 Review the issues of health promotion and disease specific to the geriatric population. Outline the fundamentals of assessment and care of the elderly patient.

**Radiology**

07RAD002 Review fundamentals of abdominal, genitourinary and mammographic radiology.

**Patient Wrap-Up**

PWU-SEI001 Observe and reflect on the patient's experience with disease and the ways in which disease impacted the patient’s occupation, finances, and family.

PWU-SEI002 Observe and reflect on patient's experience with the healthcare system.

PWU-SEI003 Observe and reflect on the coping skills used by the patient.

PWU-DPR001 Observe and evaluate the professional values exhibited by the physician.

PWU-DPR002 Observe and evaluate the communication skills of the physician.

PWU-DPR003 Observe and evaluate the patient-centeredness exhibited by the physician.

PWU-CSK001 Observe and evaluate the clinical reasoning skills exhibited by the physician.

PWU-CSK002 Apply basic science concepts to patient diagnoses and treatment.

**Patient-Centered Learning (PCL)**

PCL-CSK001 Demonstrate the ability to define and solve clinical problems based on a patient case.

PCL-CSK002 Demonstrate the ability to apply knowledge of basic sciences to clinical manifestations and presentation in a patient case.

PCL-CSK003 Demonstrate the ability to generate hypotheses based on the clinical presentation and underlying pathogenesis of disease in a patient case.

PCL-PTE001 Demonstrate the ability to actively listen to and reflect on information presented or discussed in learning objectives by other students.

PCL-PTE002 Demonstrate the ability to deliver concise, clear, scientifically-based presentations or discussions of learning objective topics.

PCL-PTE003 Demonstrate the ability to display knowledge of subject area in learning objective presentation that is beyond information covered in presentation or discussion.

PCL-PIF001 Demonstrate the ability to generate learning objectives based on deficiencies in the student's understanding of a patient case.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PCL-PIF002</td>
<td>Demonstrate the ability to gather evidence-based information from multiple resources that is relevant and sufficient to address learning issues generated from a patient case.</td>
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<tr>
<td>PCL-PIF003</td>
<td>Demonstrate responsibility to team through leadership and fulfillment of group duties.</td>
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<tr>
<td>PCL-PIF004</td>
<td>Demonstrate ability to assess learning needs, strengths, and limitations.</td>
</tr>
<tr>
<td>PCL-PIF005</td>
<td>Demonstrate ability to respond appropriately to feedback.</td>
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<tr>
<td>PCL-PIF006</td>
<td>Demonstrate ability to treat others in team with respect, show openness to different views, and discuss differences non-judgmentally.</td>
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<tr>
<td>PCL-PIF007</td>
<td>Demonstrate effort to continuously strive for excellence in all activities.</td>
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