EPIC II DIAGNOSES

ACUTE MEDICAL DISEASE

- 100 Neurological:
  101-Cerebrovascular accident: Recent stroke, by ischemic or hemorrhagic mechanism (non-traumatic), documented by CT scan and/or lumbar puncture or only by history and physical symptoms.
  102-Intracranial tumor: tumor documented by CT scan or MRI, malignant (primary or secondary) or not.
  103-Degenerative disease: includes Alzheimer’s disease, Huntington’s chorea, amyotrophic lateral sclerosis, multiple sclerosis, Parkinson’s disease.
  104-Myopathia, myasthenia gravis: acute exacerbation or progressive evolution of polymyositis, dermatomyositis, progressive muscular dystrophy, myasthenia.
  105-Polyneuritis and polyradiculoneuritis: includes polyneuritis due to infection, inflammation, toxic, Guillain-Barré syndrome.
  106-Post-anoxic coma: cerebral damage from hypoxia induced by several clinical situations, e.g., respiratory-cardiac arrest, cardiac disease with arrest, central nervous system diseases that lead to respiratory arrest (epilepsy, trauma, stroke), CO poisoning, profound hypotension.
  107-Delirium tremens: acute encephalopathy due to alcohol withdrawal.
  109-Other

- 200 Respiratory:
  201-Exacerbation of chronic pulmonary disease: exacerbation of respiratory failure in chronic pulmonary disease (either obstructive or non obstructive) due to progressive evolution.
  202-Asthma attack: acute exacerbation inducing paroxysms of dyspnea, cough and wheezing.
  203-Pulmonary embolism: partial or complete obstruction of the pulmonary arterial blood flow by a thrombus documented by pulmonary scintigraphy and/or pulmonary angiography.
  204-Pleural effusion: air, blood, liquid, chyle in the pleural cavity documented by pleural tap, pulmonary radiography or CT scan.
  205-Obstruction: obstruction of the upper or lower airways by a foreign body. Includes obstruction of the airways by a tumor.
  206-Inhalation pneumonitis: induced by gastrointestinal contents, blood, smoke, and/or gases.
  207-Tumor: Benign or malignant.
  208-Other

- 300 Cardiovascular:
  301-Acute myocardial infarction.
  302-Unstable angina, myocardial ischemia induced by crescendo angina, repeated attacks of severe angina, recent onset angina or early return of angina after infarction.
  303-Cardiopathy: includes ischemic, valvular, hypertensive, alcoholic and other, non infectious forms.
  304-Other

- 400 Renal/genito-urinary tract:
  401-Acute tubular necrosis: sudden onset of renal failure during or following an acute severe illness.
  402-Acute glomerulopathy: acute renal failure resulting from lesions in the glomeruli.
  403-Interstitial nephropathy: renal failure resulting from lesions in the interstitium.
  404-Vascular nephropathy: renal failure resulting from lesions in the arteries (intra or extra-renal).
  405-Renal neoplasia
406-Gynecological diseases, non malignant: lesions of ovary, uterus, cervix, vulvae, vagina not due to neoplasia.
407-Gynecological diseases, malignant: lesions of ovary, uterus, cervix, vulvae, vagina due to neoplasia.
408-Other

- 500 Hematological:
  501-Transfusion reaction: includes all types of accident with transfusion of blood products.
  502-Drug toxicity and secondary effects: includes toxicity or secondary effects of chemotherapy and/or immunosuppressant agents and hematological toxicity of any other drugs (inducing neutropenia, thrombocytopenia.).
  503-Non malignant disease: includes anemia (acquired or congenital), aplastic anemia, methemoglobinemia, thrombocytopenia, congenital disorders of blood coagulation factors, hypersplenism (primary), sickle cell crisis.
  504-Malignant disease: includes lymphoma, acute leukemia and multiple myeloma
  505-Other

- 600 Digestive:
  601-Cholecystitis, acute or chronic, with or without cholangitis.
  602-Acute alcoholic hepatitis: with or without liver failure
  603-Acute toxic, drug hepatitis: induced by drug (e.g., paracetamol/acetaminophen) or gas (e.g., fluorethane) or other (mushrooms).
  604-Pancreatitis: includes acute or recurrent acute pancreatitis, from pancreatic edema, to edema with fat necrosis, to necrosis with variable degrees of hemorrhage documented by laboratory data and abdominal CT scan.
  605-Esophageal, gastric varices: documented by endoscopy or surgery.
  606-Esophageal, gastric, duodenal ulcer: documented by endoscopy or surgery
  607-Neoplasia of the upper digestive tract (esophageal, gastric or duodenal).
  608-Neoplasia of the lower digestive tract (colon and rectum).
  609-Other

- 700 Metabolic:
  701-Drug overdose: includes all accidental or intentional drug intoxication (including overdose), by any drug.
  702-Other intoxication, acute: by alcohol, CO inhalation, industrial, domestic, vegetable, animal products.
  703-Adverse effects of medication: acute disease due to a drug given in normal dosage (Lyell’s and Stevens-Johnson syndromes, malignant syndrome of neuroleptics).
  704-Diabetic ketoacidosis.
  705-Hyperosmolar diabetic coma.
  706-Endocrinopathy: includes diseases of thyroid, pituitary gland, adrenal cortex, endocrine pancreas, parathyroids, ovaries.
  707-Other

- 800 Pregnancy:
  801-Eclampsia, preeclampsia: Disorders encountered during the last trimester of pregnancy or shortly after delivery which are characterized by hypertension, edema, proteinuria (preeclampsia), convulsions and coma (eclampsia).
  802-HELLP syndrome
  803-Delivery hemorrhage
  804-Other

- 900 Trauma:
  901-Isolated brain trauma
  902-Monotrauma, without brain trauma
  903-Polytrauma, without brain trauma
  904-Polytrauma, with brain trauma
  905-Burn
  906-Near-drowning
907-Other

- **000 Other diseases**

**Description:** The acute disease should be recorded for all patients, independent of the surgical status. It is the acute (or acute on chronic) disease that best explains the reason(s) for admission. It can be medical or surgical. Only one choice is possible.
SITE OF SURGERY

000 No surgery in the current hospital stay.

- 100 Neurosurgery:
  101-Cerebrovascular accident: neurosurgery of intracranial hematoma or other non traumatic accident (hemorrhage, aneurysm.)
  102-Intracranial tumour: neurosurgery for any type of tumour primary or secondary
  103-Spinal surgery
  104-Ear, nose and throat surgery
  105-Maxillo-facial surgery
  106-Other

- 200 Thoracic surgery:
  201-Pneumonectomy
  202-Lobectomy
  203-Pleural surgery: includes all surgery on pleura either for tumor or talcage/abrasion for pneumothorax.
  204-Lung transplantation
  205-Other

- 300 Cardiac surgery:
  301-Valvular, without coronary artery by-pass graft (CABG): surgical treatment of valvulopathies without coronary surgery.
  302-Valvular with CABG: valvular repair with coronary surgery.
  303-CABG without valvular repair.
  304-Other: pericardial effusion, congenital anomaly, ventricular aneurysm, neoplastic disease, vena cava clipping/filter.
  305-Heart transplantation
  306-Heart & lung transplantation
  307-Major aortic surgery: includes all surgery on aorta for dissection, atheroma, aneurysm.
  308-Carotid endarterectomy: includes all surgery on the carotid artery
  309-Other major vascular surgery: includes all surgery on intra thoracic or intra abdominal vessels;
  310-Peripheral vascular surgery: includes all surgery on non-intracranial, non-intrathoracic, non-intraabdominal vessels, either arteries or veins with or without by-pass graft.
  311-Other

- 400 Renal-urinary tract:
  401-Renal surgery
  402-Urologic surgery

- 600 Digestive:
  601-Upper gastro-intestinal surgery (up to and including the jejunum)
  602-Lower gastrointestinal surgery
  603-Biliary tract: surgery of gallbladder and/or biliary tract
  604-Liver: partial hepatectomy, portal-systemic shunt surgery
  605-Liver transplantation
  606-Pancreas

- 700 Metabolic:
  701-Endocrine surgery (thyroid, adrenal, pancreas etc)

- 800 Ob/gyn
  801-Obstetric surgery: Cesarean section, surgery for ectopic pregnancy, peri- or post-partum hemorrhage, intra-uterine death.
  802-Gynecological surgery: surgery of uterus, ovaries, cervix, genitalia.

- 900 Trauma
  901-Brain: surgery for subdural, epidural, intracerebral haematoma or skull fracture.
  902-Thorax: surgery of intra-thoracic organs (either cardiac, respiratory or digestive tract) and vessels.
  903-Abdomen
  904-Limb
  905-Multiple
  906-Other
Description: For patients undergoing surgery the anatomical site of surgery should be indicated. Only one selection is possible. Invasive radiological procedures or definitive pacemaker insertions should not be considered as surgical procedures.
REASON(S) FOR ICU ADMISSION

- 000 Surveillance/Monitoring only
- 100 Neurological:
  101- Coma, stupor, obtunded patient, confusion, agitation, delirium
  102- Seizures
  103- Focal neurologic deficit (hemiplegia, paraplegia, tetraplegia)
  104- Intracranial mass effect
  105- Other
- 200 Respiratory:
  201- ALI and ARDS: Syndrome of inflammation and increased permeability associated
  with clinical, radiological and physiologic abnormalities: arterial hypoxemia
  resistant to oxygen therapy (PaO2/FiO2 < 300 mmHg) and diffuse bilateral
  radiological infiltrates without signs of cardiac failure or pulmonary capillary
  hypertension (pulmonary artery occlusion pressure < 18 mmHg).
  202- Acute respiratory failure on chronic pulmonary disease: Chronic pulmonary disease
  could be obstructive or restrictive.
  203- Other: Impaired respiratory function less than that defined by ALI, due to
  pulmonary lesion or pleuritis, necessitating oxygen or mechanical ventilation.
- 300 Cardiovascular:
  301- Cardiac arrest: Needing cardiopulmonary resuscitation (CPR) prior to admission to
  ICU. CPR must include chest compression, defibrillation or cardiac massage.
  302- Shock: Defined by a systolic blood pressure (SBP) less than 90 mmHg or a drop in
  SBP of > 40 mmHg from baseline with presence of clinical signs of peripheral
  circulatory insufficiency (cold, moist skin, cyanosis) and organ hypoperfusion
  (oliguria, encephalopathy, metabolic acidosis...) requiring the use of
  inotropic/vasopressor agents.
  303- Chest pain (with electrocardiographic changes compatible with either angina or
  acute myocardial infarction)
  304- Hypertensive crisis
  305- Arrhythmia: (due to heart rate or heart conduction disturbances)
  306- Cardiac failure without shock either left, right or global
  307- Other
- 400 Renal:
  401- Pre-renal acute renal failure (induced by hypovolemia or shock.)
  402- Obstructive acute renal failure (post-renal acute renal failure: obstruction of the
  urinary tract or the intra-renal ducts.)
  403- Organic acute renal failure (resulting from lesions in the arteries (intra or extra-
  renal), in the glomeruli, or in the interstitium)
  404- Other
- 500 Hematological:
  501- Hemorrhagic syndrome/disseminated intravascular coagulation: Induced by
  coagulation disorders, like thrombocytopenia and/or increase in prothrombin time
  and/or congenital disorders of blood coagulation factors and/or acquired disorders
  of blood coagulation factors.
  502- Severe hemolysis
  503- Other
- 600 Digestive/Liver:
  601- Bleeding: Either upper or lower gastrointestinal tract
  602- Acute abdomen: Related to infection, ischemia, perforation, inflammation, either
  upper or lower gastrointestinal tract. Excludes severe pancreatitis
  603- Severe pancreatitis
604-Liver failure: hepatic failure inducing metabolic disturbances and/or encephalopathy.
605-Other
- **700 Metabolic:**
  701-Acid-base and/or electrolyte disturbance
  702-Hypo and hyperthermia
  703-Hypo and hyperglycemia (includes diabetic comas)
  704-Other
- **800 Ob/gyn**
- **900 Trauma**
  901-Severe trauma
  902-Other
MICROORGANISMS

- **Gram positive**
  101 Staphylococcus aureus sensitive to methicillin
  102 Staphylococcus aureus resistant to methicillin
  103 Staphylococcus coagulase negative (epidermidis, haemolyticus, hominis, …) sensitive to methicillin
  104 Staphylococcus coagulase negative (epidermidis, haemolyticus, hominis, …) resistant to methicillin
  105 Streptococcus D group (Entrococcus faecalis, faecium)
  106 Streptococcus, A, B, C, G group
  107 Streptococcus pneumoniae
  108 Streptococcus, others
  109 Cocci Gram +ve, others
  110 Neisseria meningitidis
  111 Moraxella (Moraxella catarrhalis, Moraxella spp)
  112 Listeria monocytogenes
  113 Neisseria gonorrhoeae
  114 Bacillus Gram +ve, others (Bacillus cereus, Bacillus spp, Corynebacterium spp, Lactobacillus, Rhodococcus equi, Nocardia spp, other)

- **Gram negative**
  201 Escherichia coli
  202 Enterobacter (aerogenes, cloacae, agglomerans, ..)
  203 Klebsiella (Klebsiella pneumoniae or other)
  204 Proteus (Proteus morganii, Morganella morganii, Proteus indole+, Proteus mirabilis, Providencia stuartii, Providencia spp)
  205 Salmonella
  206 Serratia (Serratia marcescens, Serratia spp)
  207 Citrobacter (Citrobacter freundii, Citrobacter spp)
  208 Pseudomonas aeruginosa
  209 Pseudomonas, other
  210 Stenotrophomonas maltophilia
  211 Acinetobacter (baumannii or other)
  212 Campylobacter (Helicobacter, Campylobacter spp, Brucella spp)
  213 Haemophilus (influenzae or other)
  214 Enterobacteria, other (Yersinia spp, Shigella spp, other)
  215 Bacillus Gram -ve, other

- **Anaerobes**
  301 Clostridium (Clostridium difficile, Clostridium perfringens, Clostridium spp, Actinomyces, Propionibacterium)
  302 Anaerobe cocci (Peptococcus, Peptostreptococcus, Veillonella)
  303 Bacteroides (Bacteroides fragilis, Bacteroides melaninogenicus, Capnocytophaga, Fusobacterium spp, …)
  304 Anaerobe, other

- **Other organisms**
  401 Mycobacteria (tuberculosis or others)
  402 Chlamydia
  403 Rickettsia
  404 Mycoplasma (Mycoplasma pneumoniae or hominis, Rochalimeae spp, Bartonella spp)
  405 Legionella pneumoniae

- **Fungi**
  501 Candida albicans
  502 Candida non-albicans
  503 Aspergillus
  504 Fungi, other (Cryptococcus neoformans, Histoplasma spp, …)

- **Viruses**
  601 HSV I, HSV II, CMV, HCV, VZV…
- Parasites
  701 Plasmodium falciparum, Pneumocystis carinii, Toxoplasma gondii...
ANTIBIOTICS

- **1 Cephalosporins**
  11 cefazolin
  12 cefuroxime
  13 ceftazidime
  14 cefepime/cefprome
  15 other cephalosporin

- **2 Penicillins**
  21 benzyl penicillin
  22 ampicillin
  23 amoxy + clavulanate
  24 pipera + tazo
  25 oxa/cloxa/flucloxacillin
  26 other penicillin

- **3 Other beta-lactams**
  31 temocillin
  32 (imi/mero) penem
  33 aztreonam
  34 other

- **4 Aminoglycoside**
  41 amikacin
  42 tobramycin
  43 other

- **5 Quinolone**
  51 ciprofloxacin
  52 other

- **6 Glycopeptides**
  61 vancomycin
  62 other

- **7 Macrolides**
  71 erythromycin
  72 other (clarithromycin, etc)

- **8 Other antibiotics**
  81 metronidazole
  82 cotrimoxazole
  83 oxazolidinone (Linezolid)
  84 lipopeptide (Daptomycin)
  85 tigecycline
  86 other

- **9 Antifungal**
  91 fluconazole
  92 amphotericin B
  93 amphi lipid formulation
  94 caspofungin
  95 voriconazone
  96 other

- **10 Antiviral**