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| **Introduction!** |
| | Surgery: 2 | Community: 4 |Informatics: 3 |Research:4 |Radiology:2 |
| WEEK1 : 9Ls |
|  |  |  | Emergency in urology | 2 |
|  |  |  | Introduction to community and preventive medicine | 3 |
|  |  |  | Terminology in public health | 4 |
|  |  |  | Course Orientation & Introduction to Medical Informatics | 5 |
|  |  |  | Introduction to Medical Informatics | 6 |
|  |  |  | Introduction to Research methods: Why do we need research? | 7 |
|  |  |  | How to develop a research protocol | 8 |
|  |  |  | Introduction to radiology | 9 |
| WEEK2 : 7Ls |
|  |  |  | Atherosclerosis, (PAD+carotid stenosis)Acute Limb Schemia | 1 |
|  |  |  | Epidemiological triad | 2 |
|  |  |  | Natural history of disease | 3 |
|  |  |  | Clinical Data, Databases and Big Data | 4 |
|  |  |  | Research question , objectives and hypothesis | 5 |
|  |  |  | Ethics in Health Research | 6 |
|  |  |  | Contrast media and safety in radiology | 7 |
| **CardioRespiratory!** |
| Medicine: 14 | Surgery: 9 | Community: 9 |Informatics: 4 |Research:13 |Radiology:5 |
| WEEK3 : 9Ls |
|  |  |  | Arrhythmias | 1 |
|  |  |  | Adult urinary tract disorders | 2 |
|  |  |  | Presentation & management of common thoracic diseases | 3 |
|  |  |  | Health indicators | 4 |
|  |  |  | Electronic Health Record | 5 |
|  |  |  | Measures of Disease Frequency, Effect and Impact | 6 |
|  |  |  | Cross sectional study design | 7 |
|  |  |  | Introduction to Study Designs | 8 |
|  |  |  | Radiological anatomy of the cardiorespiratory | 9 |
| WEEK4 : 9Ls |
|  |  |  | Valvular Heart Diseases | 1 |
|  |  |  | Heart Failure | 2 |
|  |  |  | Acute coronary syndrome | 3 |
|  |  |  | Sterilization & operating room setup | 4 |
|  |  |  | Introduction of Communicable disease Epidemiology | 5 |
|  |  |  | Concepts of prevention & control of communicable disease | 6 |
|  |  |  | CPOE | 7 |
|  |  |  | Case Control Study Design | 8 |
|  |  |  | Radiological anatomy of the cardio-respiratory | 9 |
| WEEK5 : 14Ls |
|  |  |  | Rheumatic Heart Disease | 1 |
|  |  |  | Heart Failure –Prognosis & Management |  2 |
|  |  |  | Infective Endocarditis |  3 |
|  |  |  | Shock and metabolic response to surgery |  4 |
|  |  |  | Cardiac surgical disease |  5 |
|  |  |  | Epidemiology of Influenza |  6 |
|  |  |  | Principles of immunization |  7 |
|  |  |  | Compulsory vaccination in KSA |  8 |
|  |  |  | CDSS |  9 |
|  |  |  | Cohort study design |  10 |
|  |  |  | Experimental Study Design |  11 |
|  |  |  | What is Plagiarism and How to avoid it? |  12 |
|  |  |  | Writing an Introduction of a research protocol |  13 |
|  |  |  | Radiology of the respiratory diseases |  14 |
| WEEK6 : 11Ls |
|  |  |  | Bronchial asthma | 1 |
|  |  |  | Cough | 2 |
|  |  |  | Pulmonary Embolism | 3 |
|   |  |  | Chronic Obstructive lung Disease and bronchiectasis |  4 |
|  |  |  | Surgical infections & antibiotics |  5 |
|  |  |  | Common urogenital tumors incl. Adrenals |  6 |
|  |  |  | Epidemiology of HIV/AIDS |  7 |
|  |  |  | Ethics and Confidentiality | 8 |
|  |  |  | Qualitative study designs | 9 |
|  |  |  | Tools for data collection: Using Questionnaire & other tools | 10 |
|  |  |  | Radiology of the cardiac diseases |  11 |
| WEEK7 : 11Ls |
|  |  |  | Investigation of Lung Diseases | 1 |
|  |  |  | Community Acquired Pneumonia | 2 |
|  |  |  | Pleural effusion | 3 |
|  |  |  | Vascular Investigations | 4 |
|  |  |  | Atherosclerotic disease | 5 |
|  |  |  | Epidemiology of Hepatitis | 6 |
|  |  |  | Hajj and Health | 7 |
|  |  |  | Sampling Techniques |  8 |
|  |  |  | Sample Size Estimation |  9 |
|  |  |  | How to write materials & Methods Section of a Research Protocol |  10 |
|  |  |  | Radiology of the cardiorespiratory diseases. (interactive lecture) |  11 |
| **Nephrology!** |
| Medicine: 8 | Surgery: 5 | Community: 3 |Informatics: 3 |Research:6 |Radiology:3 |
| WEEK8 : 9Ls |
|  |  |  | Diabetic nephropathy | 1 |
|  |  |  | Hypertension | 2 |
|  |  |  | Wound healing and wound infection/injuries due to burn | 3 |
|  |  |  | IV fluids and acid base disorder | 4 |
|  |  |  | Consumer Health Informatics | 5 |
|  |  |  | Reducing Medical Error | 6 |
|  |  |  | (IRB) application for Ethical Approval | 7 |
|  |  |  | Basic concepts and terminology in biostatistics | 8 |
|  |  |  | Radiological anatomy and investigations of urinary system | 9 |
| WEEK9 : 10Ls |
|  |  |  | Electrolyte Imbalance (Potassium & Calcium ) | 1 |
|  |  |  | Acid base disorders | 2 |
|  |  |  | Electrolyte Imbalance 1 (Sodium & Water ) Part 1 | 3 |
|  |  |  | Acute kidney ingury (AKI) | 4 |
|  |  |  | Paediatric inguinal & scrotal conditions | 5 |
|  |  |  | Blood products and transfusion | 6 |
|  |  |  | Epidemiology of tuberculosis | 7 |
|  |  |  | Description Data I (Summary measures/central tendency) | 8 |
|  |  |  | Description of Data II (Measures of Variability/Normal distribution) | 9 |
|  |  |  | Radiology of urinary system diseases | 10 |
|  WEEK10 : 9Ls  |
|  |  |  | Glomerular Diseases | 1 |
|  |  |  | Electrolyte Imbalance 1(Potassium & Calcium ) Part 2 | 2 |
|  |  |  | Paediatric urinary disorders | 3 |
|  |  |  | Epidemiology of Ebola Virus | 4 |
|  |  |  | Epidemiology of Malaria | 5 |
|  |  |  | Imaging Informatics | 6 |
|  |  |  | Statistical Significance Date I (P value) | 7 |
|  |  |  | Statistical significance of Data II(95% CI) | 8 |
|  |  |  | Radiology of urinary system diseases(interactive lecture) | 9 |
| **Gastroenterology&Hepatobiliary!** |
| Medicine: 8 | Surgery: 11 | Community: 7 |Research:4 |Radiology:5 |
| WEEK11 : 7Ls |
|  |  |  | Abdominal Pain include IBS | 1 |
|  |  |  | Acute viral hepatitis | 2 |
|  |  |  | Acute Abdomen (perforated DU,SBO,mesenteric ischemia, appendicitis) | 3 |
|  |  |  | Esophageal diseases | 4 |
|  |  |  | Outbreak Investigation | 5 |
|  |  |  | Reporting & Surveillance | 6 |
|  |  |  | Radiological anatomy and investigation of the GIT | 7 |
|  WEEK12 : 8Ls |
|  |  |  | Gastrointestinal bleeding | 1 |
|  |  |  | Liver cirrhosis & complication | 2 |
|  |  |  | Esophageal diseases | 3 |
|  |  |  | Chronic Diarrhea | 4 |
|  |  |  | Approach to Surgical Abdominal Problem in Pediatric | 5 |
|  |  |  | Stomach & duodenum | 6 |
|  |  |  | Statistical tests for quantitative variables | 7 |
|  |  |  | Radiological and investigation of hepato-biliary system | 8 |
| WEEK13 : 7Ls |
|  |  |  | Abnormal liver enzymes with selected common liver diseases | 1 |
|  |  |  | Inflammatory bowel disease | 2 |
|  |  |  | Differential diagnosis of abdominal masses & abdominal hernias | 3 |
|  |  |  | Portal hypertension& common surgical diseases of the liver | 4 |
|  |  |  | Colorectal cancer | 5 |
|  |  |  | Screening | 6 |
|  |  |  | Radiology of diseases of the gastrointestinal tract | 7 |
| WEEK14 : 13Ls |
|  |  |  | Anorectal conditions | 1 |
|  |  |  | Inflammatory bowel disease (IBD) | 2 |
|  |  |  | Pancreatic problems | 3 |
|  |  |  | Biliary obstruction and Biliary stones | 4 |
|  |  |  | Demography concepts & Population Pyramid | 5 |
|  |  |  | Population Dynamics & Demographic Transition | 6 |
|  |  |  | Introduction to Non-communicable Disease (NCDs) | 7 |
|  |  |  | Tobacco Use | 8 |
|  |  |  | Data interpretation | 9 |
|  |  |  | How to write Results & Discussion? | 10 |
|  |  |  | Scientific writing and report writing | 11 |
|  |  |  | Radiology of diseases of the hepato-biliary system | 12 |
|  |  |  | Interactive lecture of the gastrointestinal and hepato-biliary system | 13 |