



NUTRIZIONE E PATOLOGIE GASTROENTERICHE ONCOLOGICHE E CHIRURGICHE

13 CFU - 2° Semester

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LEARNING OBJECTIVES

▪ Radiodiagnostic

The student should know main methods and machines used in diagnostic imaging; to understand the diagnostic process of main diseases; to learn how to prepare patients before radiodiagnostic procedures, namely when contrast administration is required

DETAILED COURSE CONTENT

▪ Radiodiagnostic

- Radiodiagnostic (radiobiology, radioprotection, principles of justification and optimization)
- Imaging procedures
- X-rays production (definition and application of X-ray tube); properties of ionizing radiations (photoelectric effect, Compton effect, ionizations mechanism);
- Computed Tomography (CT) scanner; (background, evolution, models, components of CT room scanner);
- Contrast media (classification: radiographic, sonographic, MRI); use of contrast media; adverse reactions;
- Principles and machines used in Ultrasonography (clinical applications in maternal-fetal contest, etc); clinilcal applications of ultrasonography in adults (liver, spleen, abdominal, thyroid US, etc);
- Principles of MRI (Magnetic Resonance Imaging); MRI scanner; absolute and relative controindications for patients before MRI;
- Diagnostic process for respiratory disease (pneumothorax, trauma, hemoptysis, pneumonitis, neoplasia, enphysema, pulmonary nodule, pleural effusion); anatomy of chest radiography;
- Diagnostic process for main gastrointestinal diseases (jaundice, cholecystitis, appendicitis, Crohn);
- Abdominal X-ray in Emergency Room; imaging of gastrointestinal diseases;
- Imaging of main uro-genital diseases (renal lithiasis; non-neoplastic and neoplastic bladder diseases; prostate disease; ovarian diseases, scrotal diseases);
- Imaigng of SNC disease;
- Radiotherapt and Nuclear Medicine: principles and applications

TEXTBOOK INFORMATION

- **Radiodiagnostic**

1) Compendio di Radiologia” di Roberto Passariello e Giovanni Simonetti Editore Idelson – Gnocchi.

2) Fernando Mazzuccato – Anatomia Radiologica Tecniche e Metodologie in Radiodiagnostica (Piccin)
