

INTRODUCTION TO MEDICAL IMAGING

- Introduction
- Image quality
- Imaging modalities
- Processing & analysis of medical images
- The future of Medical Imaging

By the end of this subject student should be able to:

1. Explain the basic principles of the major medical imaging techniques;
2. Explain the mode of operation and medical applications of the major medical imaging techniques;
3. Understand the advantages and disadvantages of the major imaging techniques, including potential hazards for patients;

Introduction

Medical Imaging is the technique and process of creating visual representations (images) of the interior of a body, i.e., of internal structures that are hidden by the skin and bones.

It is used for sake of clinical analysis (e.g., to diagnose a disease) and medical intervention (e.g., to treat a disease).

It is used to establish a database of normal anatomy and physiology to facilitate the identification of abnormalities.

Introduction To Medical Imaging Solutions

Richard L. Van Metter, Jacob Beutel



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