



# **Diagnostic Imaging**

# Diagnostic Imaging

## Radiography

Equipment emits x-rays  
Better for Anatomy  
Especially bones

## Nuclear Medicine

Equipment detects  
Gamma or x-rays  
Better for function

## Ultrasound

Uses sound waves  
Good for fluid  
surrounded organs  
& blood flow

## Computerized Tomography

CT

Takes slices at different depths  
Using x-ray  
Equipment

## Single Photon Emission Computed Tomography

SPECT

Takes slices at different depth  
Using gamma camera

## Magnetic Resonance Imaging MRI

Uses magnetic field  
Comparable to CT

## Positron Emission Tomography (PET)

Uses special positron  
Scanner  
Metabolic/ function

# THERAPY

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graph TD; THERAPY --> Radiation_Therapy; THERAPY --> Nuclear_Medicine; THERAPY --> Chemotherapy;
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## Radiation Therapy

Uses radiation to treat  
Brachytherapy  
Teletherapy

## Nuclear Medicine

Radiopharmaceutical  
Treatment  
Thyroid, Bone Pain  
Polycythemia  
Non-Hodgkins  
Lymphoma

## Chemotherapy

Uses drugs  
No radiation