

CT Scan Principles

Tomographic reconstruction

Multiple X-ray projections create 3D volume

Hounsfield units

Standardized tissue density scale

Spiral/helical CT

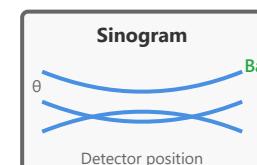
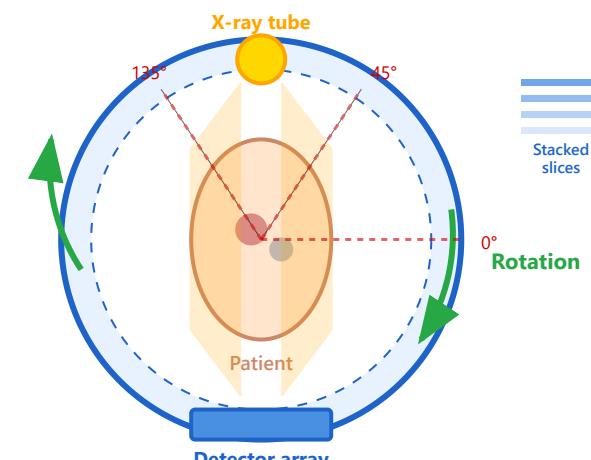
Continuous rotation and table movement

Dose reduction strategies

Iterative reconstruction, tube modulation

Contrast protocols

IV contrast timing for specific applications



Hounsfield Units	
Air:	-1000
Fat:	-100
Water:	0
Bone:	+1000