CT Scanner Dose Reduction GE Medical Systems

Clinical Diagnostic Confidence (Image Quality)

38

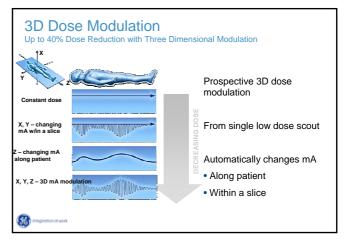


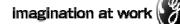
Population Dose Risk

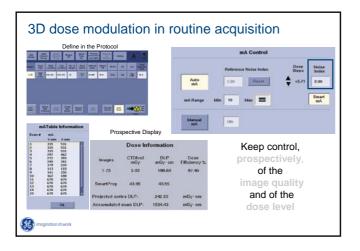
> Norberto Villajos CT Sales Specialist GE Málaga 2/10/06

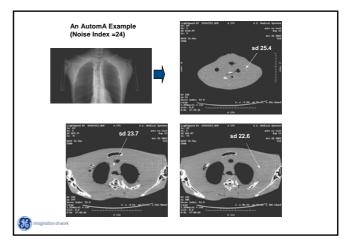
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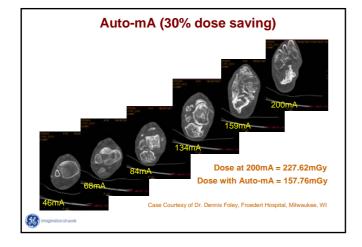


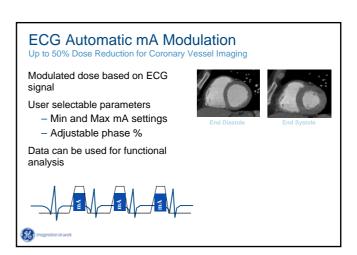


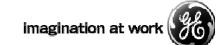


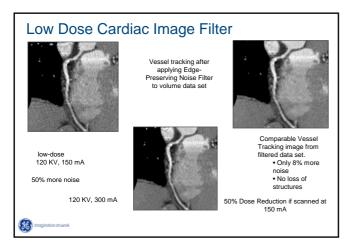


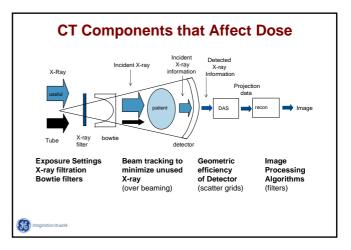


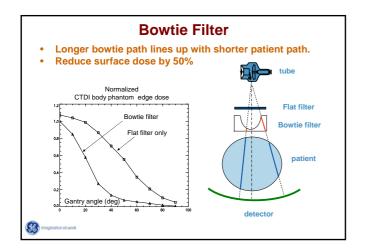


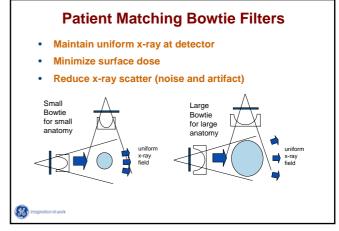


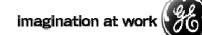


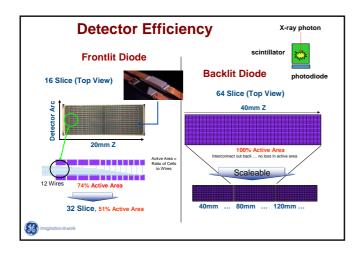


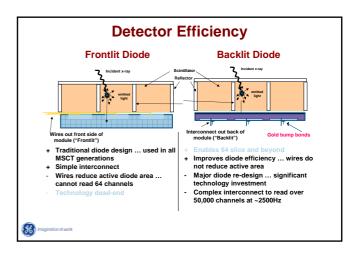


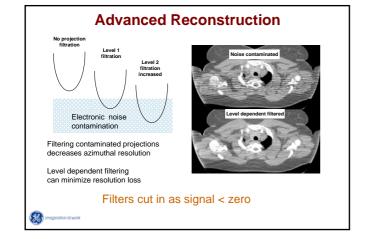


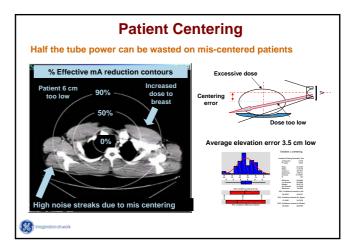


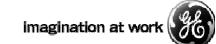






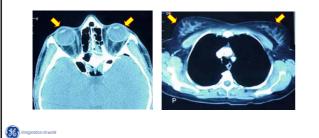






Unintended Dose to Organs

- Eye lens dose in brain CT receive high doses.
- Modification of acquisition (tilt gantry, avoid regions)



What Can Operators Do...?

- Limit the scanned volume
- Reduce mAs values
- Use automatic exposure control
- Use of helical/spiral CT with pitch factor > 1
- Shielding of superficial organs
- Separate techniques for children

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