Reducing Dose and Increasing Iodine Signal: Gastrointestinal Applications for Dual Source CT

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Introduction to Dual Source CT

Reducing dose and increasing iodine signal can improve both intrinsic image quality and patient throughput in CT examinations. The introduction of dual source CT (DS CT) at Mayo Clinic (Rochester, USA) utilizes two 100 kV tubes and a single 120 kV tube to simultaneously acquire images. This allows for lower tube voltage and higher rotation speeds compared to single source CT (SS CT), thereby decreasing radiation dose and acquiring images faster.

Low kV Imaging to Increase Iodine Signal and Conspicuity

Increased Conspicuity of Disease

Low kV Imaging to Decrease Radiation Dose

Patient Selection

Recommendations

Conclusions

Disclosures