Delivering Better Images Using Lower Dose

“The Canon DR system with the Intelligent Noise Reduction has produced images with lower noise content at a lower dose with no visible loss in image quality. This has allowed us to use doses that are 50% less than what we had been using in that room.”

Dr. Elizabeth Ey, Chief Radiologist and Radiation Safety Officer at Dayton Children’s Hospital
Conventional NR

80 KVP, 2 mAs, 500 mA, 4 msec

El : 36, Di : -6.91
Conventional NR

70 KVP, 2 mAs, 200 mA, 10 msec

EI : 48, DI : -5.65
80 KVP, 2 mAs, 500 mA, 4 msec

• Exposures on pages 1, 2 and 4 used AEC set at -4 density, which is about 50% dose reduction after Intelligent NR installation.
• These images are actual hospital examples.
• The choice of exposure factors should be a clinical decision depending on situational conditions.

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