# Canon

Intelligent NR
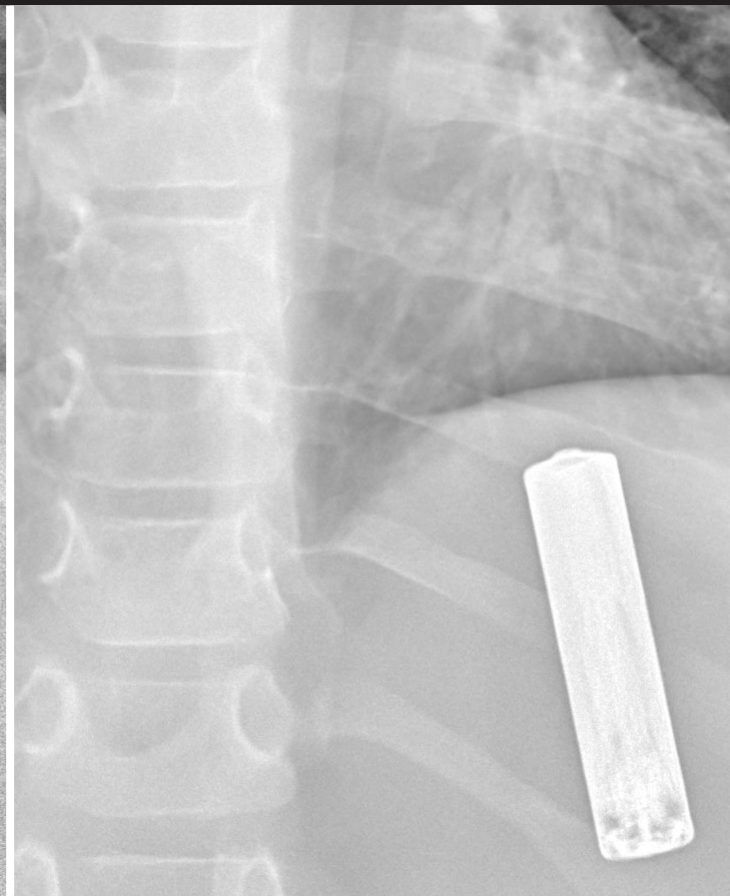### DEEP LEARNING

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

Intelligent NR
DEEP LEARNING

STANDARD NR
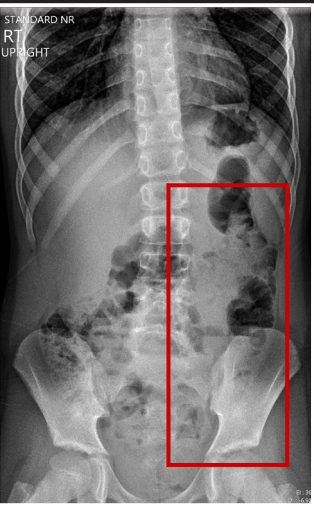AP SUPINE
LT
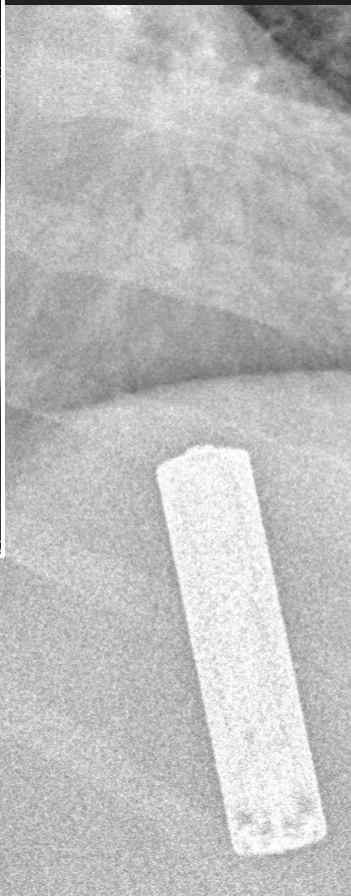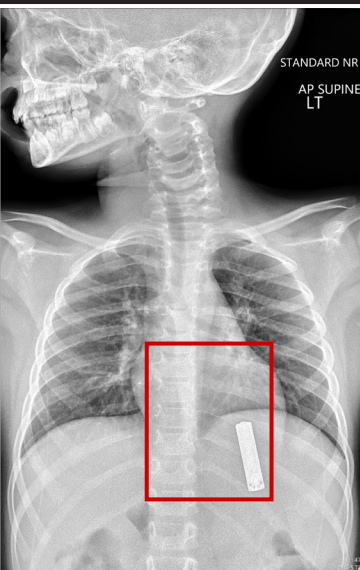
85 KVP, 1 mAs, 500 mA, 2 msec

EI : 47, DI : -5.73

Clinical Images from Dayton Children's Hospital.

Conventional NR

Intelligent **NR**
DEEP LEARNING
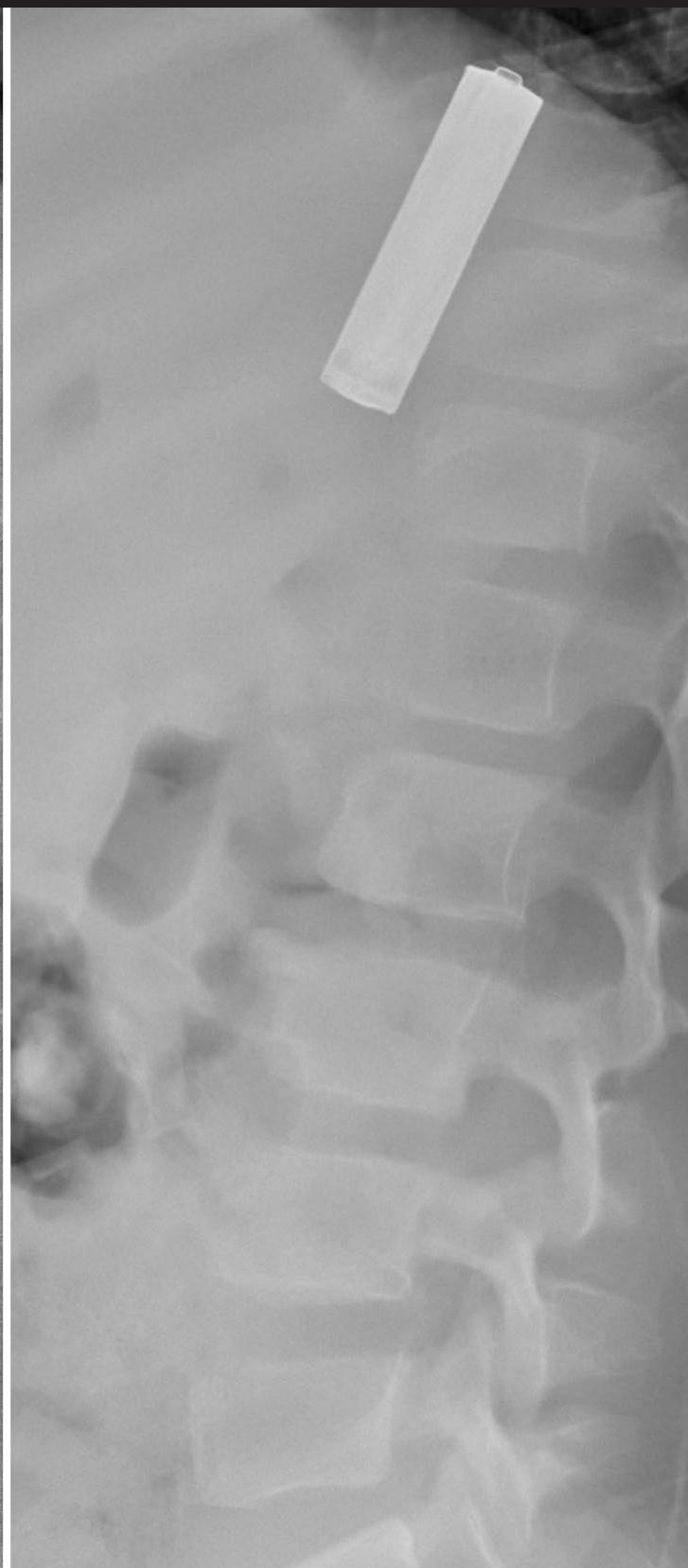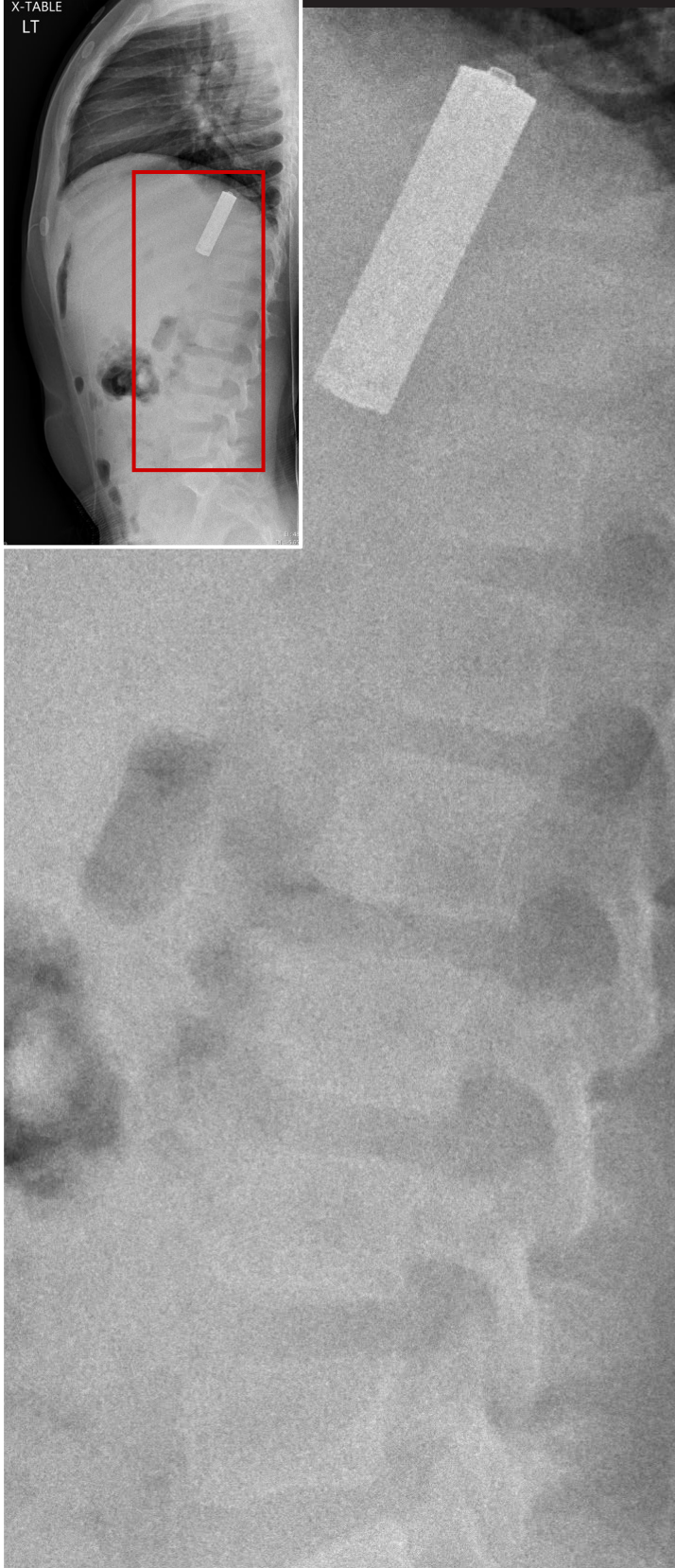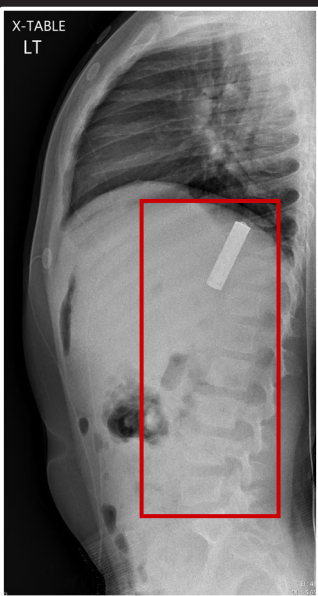
STANDARD NR
RT
UPRIGHT

80 KVP, 2 mAs, 500 mA, 4 msec

EI : 36, DI : -6.91

Conventional NR

Intelligent **NR**
DEEP LEARNING

X-TABLE
LT

70 KVP, 2 mAs, 200 mA, 10 msec

EI : 48, DI : -5.65

Conventional NR

STANDARD NR

LT

Intelligent **NR**
DEEP LEARNING
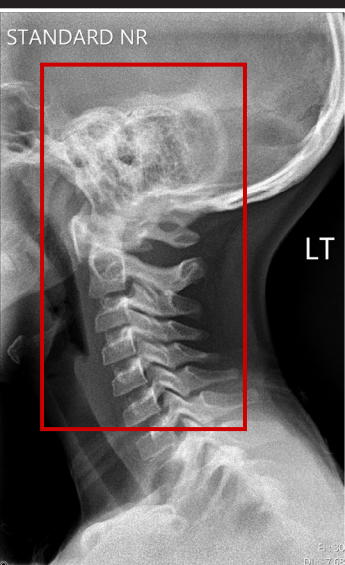
80 KVP, 2 mAs, 500 mA, 4 msec

EI : 30, DI : -7.63

- 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.

https://mcu.canon

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Canon

Canon Medical Components U.S.A., Inc.
Irvine, California, 92614
Telephone (U.S.A. only) : (800)970-7227
Email : drsales@mcu.canon