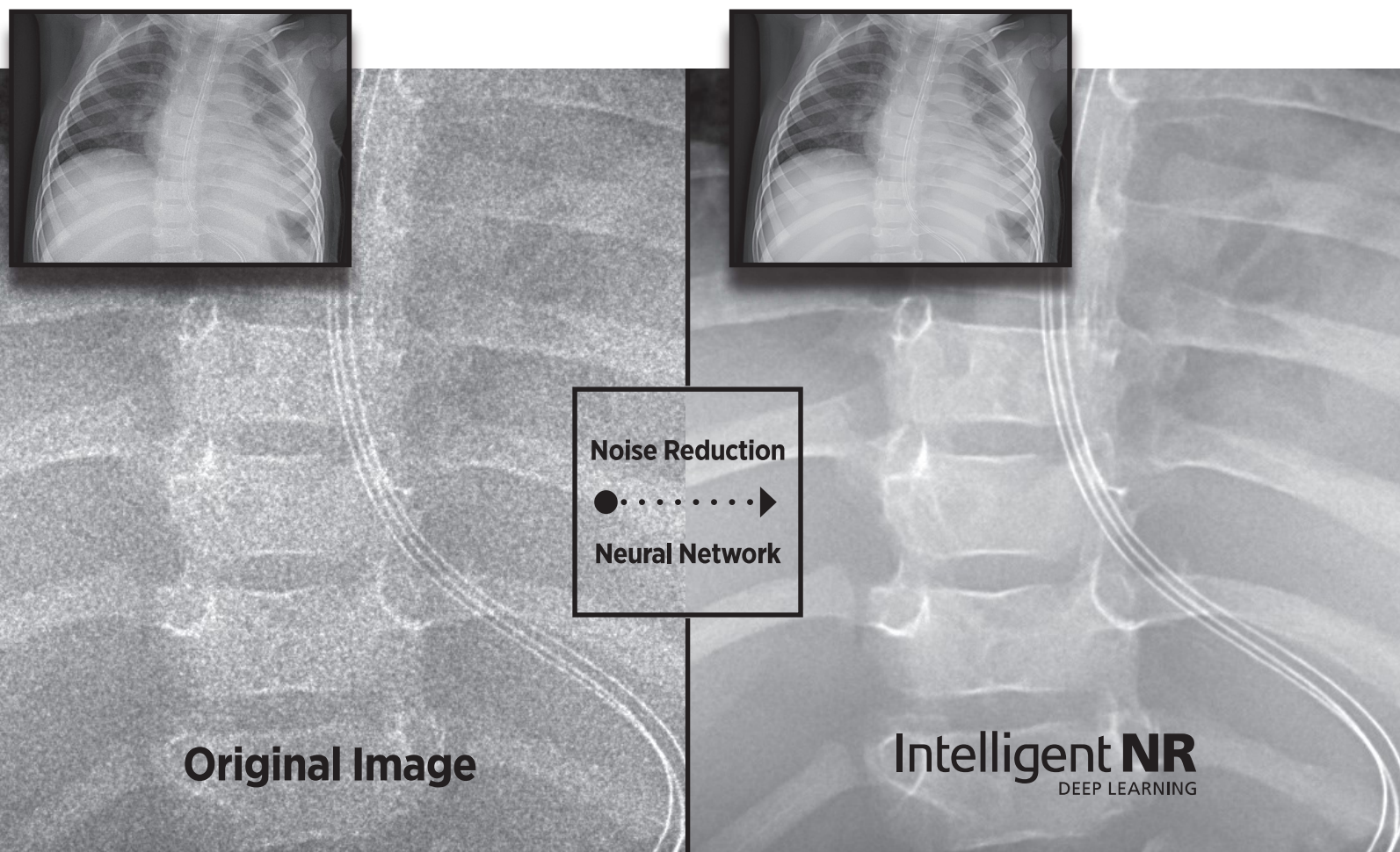


Intelligent Noise Reduction (Intelligent NR)

Canon's new AI image processing uses a pre-determined model which has been trained by deep learning on noise characteristics in X-ray images from a clinical image database.



Efficacy of Intelligent NR

Superior Diagnostic Image Quality

Intelligent NR is a substantial step up from conventional noise reduction. Intelligent NR will provide radiologists high-quality diagnostic images containing significantly less grainy noise with no noticeable loss of detail. This should make improved diagnosis possible for their patients.

Intelligent NR makes it possible to reduce the noise content without losing the fine details of the anatomy, even in low dose regions. For this reason, it is superior to conventional noise reduction. Intelligent NR results in an optimal diagnostic environment, especially for infants and pediatric patients where dose is a prevailing concern. But the image improvement will benefit all patients and exam types by providing superior images even in inherently noisy conditions such as the dense anatomy of the abdomen. With Intelligent NR, there is the potential for significant dose reduction while retaining equivalent image quality (noise content).