

Tissue Equalization

For digital radiographic systems

GE Healthcare's flat-panel detector technology provides a wide dynamic range, enabling the Tissue Equalization algorithm to display both low-density and high-density tissues in a single view. This results in excellent, single-exposure image quality in dense regions, without any compromise in the primary regions of interest. With this capability, for example, the radiologist can simultaneously view the lung fields, the mediastinum and the region behind the heart. Similarly, in a lateral cervical spine exam, one can improve the visualization of the C7-T1 area without using the swimmers view.

Improved imaging at lower dose

- Image quality in once difficult-to-visualize regions is excellent.
- Visualization of the entire bone field is quickly and easily achieved.
- Applications such as C-spine imaging require only a single, medium-dose exposure.
- The Revolution detector's high DQE and wide dynamic range eliminate compromises between image quality and dose.

Increased throughput

- Tissue Equalization delivers more diagnostic information without the need for window/leveling, improving radiologists' productivity.
- Repeat exposures once required because of improper technique selection or inadequate penetration can be reduced.
- The algorithm is automatically applied to desired exam types with processed images appearing on the acquisition workstation in just seconds.
- The images can be automatically printed and transmitted to remote locations.

Without Tissue Equalization, it can be difficult to visualize structures in the mediastinum and in the region behind the heart while maintaining the desired look in the lung field.



Standard chest with Tissue Equalization



Standard chest without Tissue Equalization



Image Gallery – Comparison



Standard C-spine

C-spine with Tissue Equalization



Standard chest

Standard chest with
Tissue Equalization



Standard foot



Standard foot with
Tissue Equalization

Image Gallery – with Tissue Equalization



Foot with Tissue Equalization

Hand with Tissue Equalization



Knee with Tissue Equalization

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