

HD•Chest: Full HD Lesion Detection. Every patient. Every day.

Inhale, exhale. More data, less noise, no breathing artifacts. At last, it's possible.

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HD•Chest, new technology from Siemens Molecular Imaging, eliminates the blur created by respiration during PET•CT studies. HD•Chest provides full high definition lesion detection and accurate SUV (Standard Uptake Value) quantification for every PET•CT study, every day. Variable breathing patterns no longer matter. HD•Chest gets it right, consistently enabling artifact-free, high-resolution molecular imaging of the chest for the best diagnosis. More than 90 percent of today's PET•CT

studies are whole-body scans often involving delineation of small lesions in the chest or upper abdomen. By providing an amplitude-based, high-definition PET image of the chest, all while the patient breathes freely during the exam, fundamental problems typically encountered with phase-based gating are now eliminated with HD•Chest. HD•Chest, uniquely from Siemens, is an innovative combination of hardware and software, that provides an accurate, sharp image as respiratory motion is frozen. It also

encourages an easy workflow for the routine evaluation of chest and upper abdomen lesions, providing additional clinical value with every patient study. This technology eliminates the trade-off between diagnostic confidence and patient scheduling. Because breathing motion is chaotic, the direction of motion and its magnitude vary from patient to patient. They also vary from session to session for a given patient, and even from moment to moment within a procedure. HD•Chest optimizes each patient's respiratory curve to automatically produce the highest quality PET image. It intelligently adapts to every patient's breathing and automatically selects the optimal data range with the least amount of motion and the highest count statistics.

