



Think “DSCT STAT”!

For general trauma and orthopedic imaging

Answers for life.

SIEMENS



Thinking “CT STAT” for
general trauma and orthopedic emergencies?

Think “DSCT STAT”!

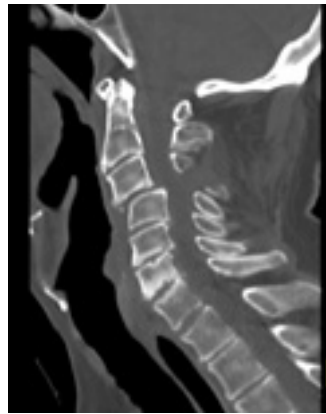
Today, CT scans have become a rapid, accurate, and common clinical diagnostic tool for emergency situations. “CT STAT” is a first-line diagnostic order in many cases of general trauma emergencies and orthopedic cases where time to diagnosis and treatment is critical.

Dual Source CT (DSCT) offers a paradigm shift in imaging diagnostics, from simply making trauma emergency CT scans “faster” to offering improved image quality and clinical capabilities – **easier**, **faster**, and **better** diagnoses.

From emergency to non-emergency cases and from bariatric to pediatric patients, the Dual Source CT scanner can handle them

with as low as reasonably achievable X-ray and contrast dose. With a single scanning procedure that takes merely seconds, physicians can accurately assess simple and complex cases. Freeze-frame capture of less than cooperative patients that reduces repeat scans (thereby reducing dose as well) frees up resources and brings about operational improvements. There is now the ability to scan with time-resolved imaging (e.g., for kinematic joint studies) as well the ability to move beyond function to physiologic data with Dual Energy, a first for diagnostic CT. It even enables both the reading and referring physicians to review results before the patient has left the table, so they can provide immediate feedback to the patient and quickly determine their next steps.

Common indicators	CT STAT	“DSCT STAT”
Musculo-skeletal imaging	Imaging of fractures	High resolution imaging of fractures including hairline fractures by utilizing z-UHR; evaluation of tendons and ligaments by utilizing Dual Energy
Polytraumatic obese patients	Diagnostic image quality at patients up to 220 lbs	No compromise in image quality and acquisition speed at patients up to 660 lbs
Traumatic vessel injury	Identification of larger to mid-size traumatic vessel injuries	Identification of even smallest bleedings by utilizing Dual Energy; dynamic evaluation of hemodynamic relevance by utilizing Adaptive 4D Spiral



DSCT offers improved image quality and clinical capabilities – **easier, faster, and better** diagnoses.

Differentiators	Your advantage
Twice the resolution – 0.33 mm with z-Sharp and 0.24 mm z-UHR resolution	▶ Visualize and better differentiate very small anatomy like tiny hairline fractures and clear delineation of bone from soft tissue; Elimination of windmill artefacts and reduction of metal artefacts
Twice the speed – 83 ms temporal resolution (shutter speed) @ 180 RPM	▶ Determination of the complete patient status with less artifact issues at lowest possible radiation dose
Twice the power – 2 generators @ 80 kW delivering 160 kW total power	▶ Scan obese and morbidly obese patients with high diagnostic quality with same scan speed as normal patients while maintaining radiation dose as low as reasonably possible
Twice the capabilities – Dual Energy	▶ Separate bone from vessels to visualize artifact-free vascular structures and have the additional capability to have peak contrast enhanced images available at all times for confident diagnosis

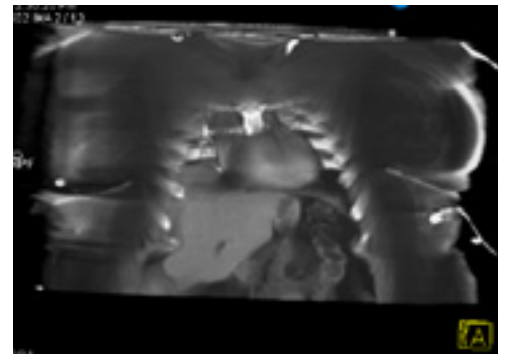
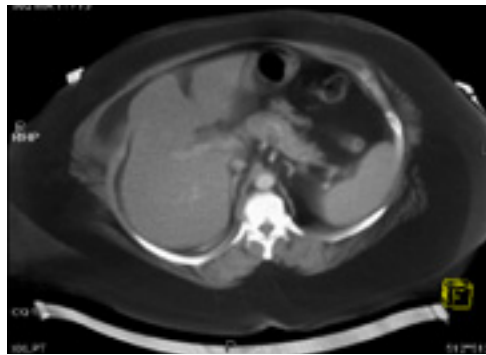
DSCT is the first CT scanner that addresses the need for better patient care and improved operational efficiencies. It provides the ability to address both clinical compromises as well as the tremendous financial burdens faced by the healthcare industry today.

Differentiators	Your advantage
Faster time to diagnosis reduces length of stay (LOS) and cost of care	▶ Improve ED workflow – reduce costs
200-bed hospital can open up 4 ‘effective’ beds per 8 hrs.* LOS reduction	▶ Free up capacity – improve resource utilization
Reduce 30-day adverse events and repeat visits	▶ Improve clinical and operational outcomes and quality metrics
Sub-millimeter visualization at 0.33 mm of isotropic resolution throughout entire scan plus Ultra High Resolution imaging for extremities in trauma scenario	▶ Reduce clinical and financial risk
Cutting-edge competitive advantage solution that provides easier, faster, and better diagnosis	▶ Differentiate your healthcare services and improve care satisfaction, helping build patient/referring physician affinity

* Results may vary. Data on file

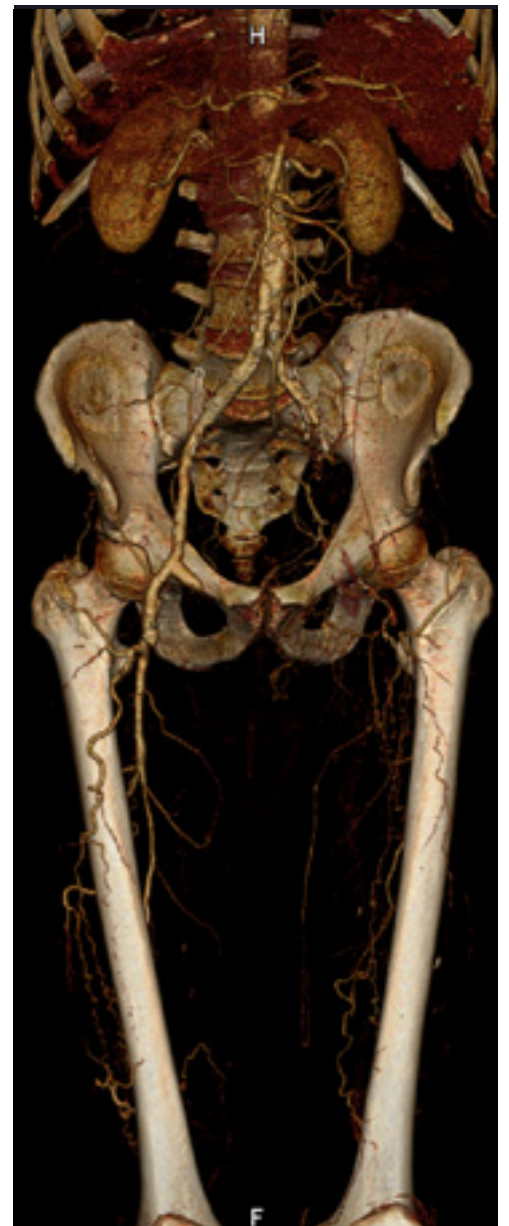
Imaging of obese patients up to 660 lbs using 78 cm bore opening

Visualize otherwise unreadable scans that would have not been done at all or referred possibly to a veterinarian scanner that had open bore CT for horses.

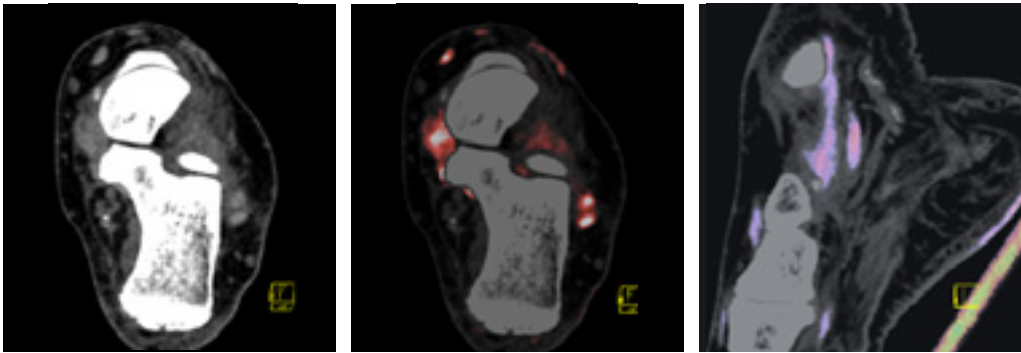


Full body vascular run-off exams

Excellent visualization of vascular anatomy showing smallest complete peripheral artery tree indicating an occlusion of the left iliac artery with best possible resolution, providing confident diagnosis with superior diagnostic quality images.



Torn tendon/ligament injury



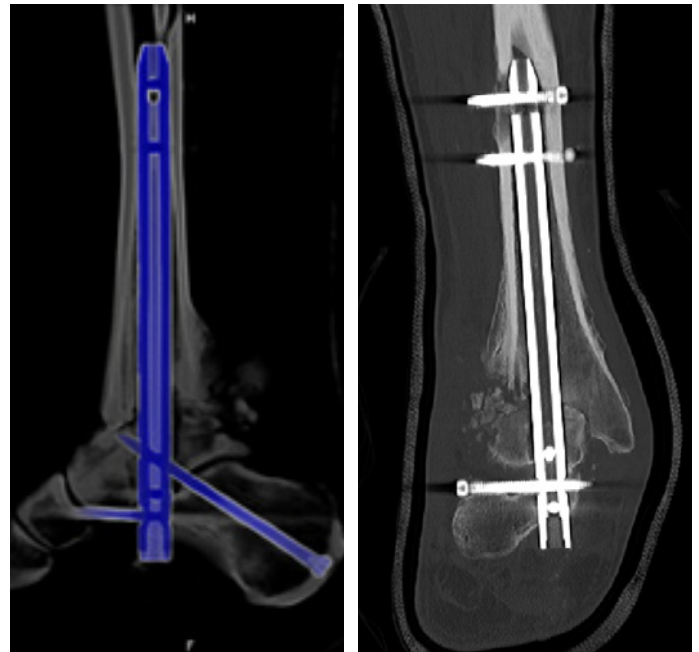
Using Dual Energy, the Tibialis posterior tendon rupture is easily seen.

Orthopedic trauma evaluation



Post-trauma imaging of metal fixation and femoral rods without metal artifacts using Siemens z-Sharp™ Technology.

Extremity fracture



Excellent visualization and planning of fixating screws and rods.

Trauma imaging – comprehensive evaluation

- Imaging the entire body without motion artifact is half the story and now, with the technology from Siemens, doctors can see the whole story for all trauma emergencies.
- The Acute Care Engine from Siemens allows for excellent resolution, fast workflow, short breath hold time, combined with the lowest possible dose.

Easy vascular analysis, evaluation, and quantification along with the ability to scan, when needed, with time-resolved imaging for cine movies in 4D for flow analysis within arterial venous malformations, along with measurement tools for surgical planning are all available with the customized viewing.

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