

canberra**imaging**
GROUP

Transforming CT

Lance Lennon
Product Specialist - CT
November 2016

**TOSHIBA
MEDICAL**

Made For life

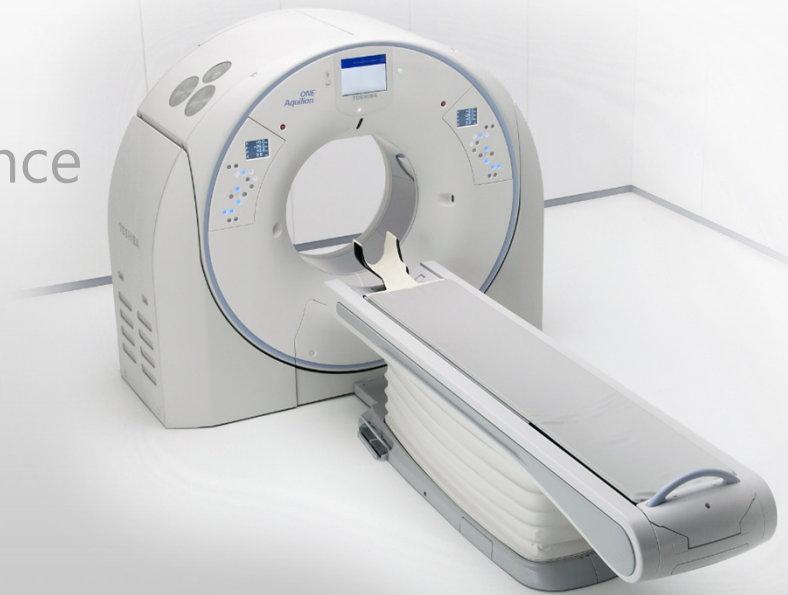
Transforming CT

1. What is the GENESIS Edition?
2. Transforming the Patient Experience
3. Transforming Clinical Confidence



Transforming CT

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2. Transforming the Patient Experience
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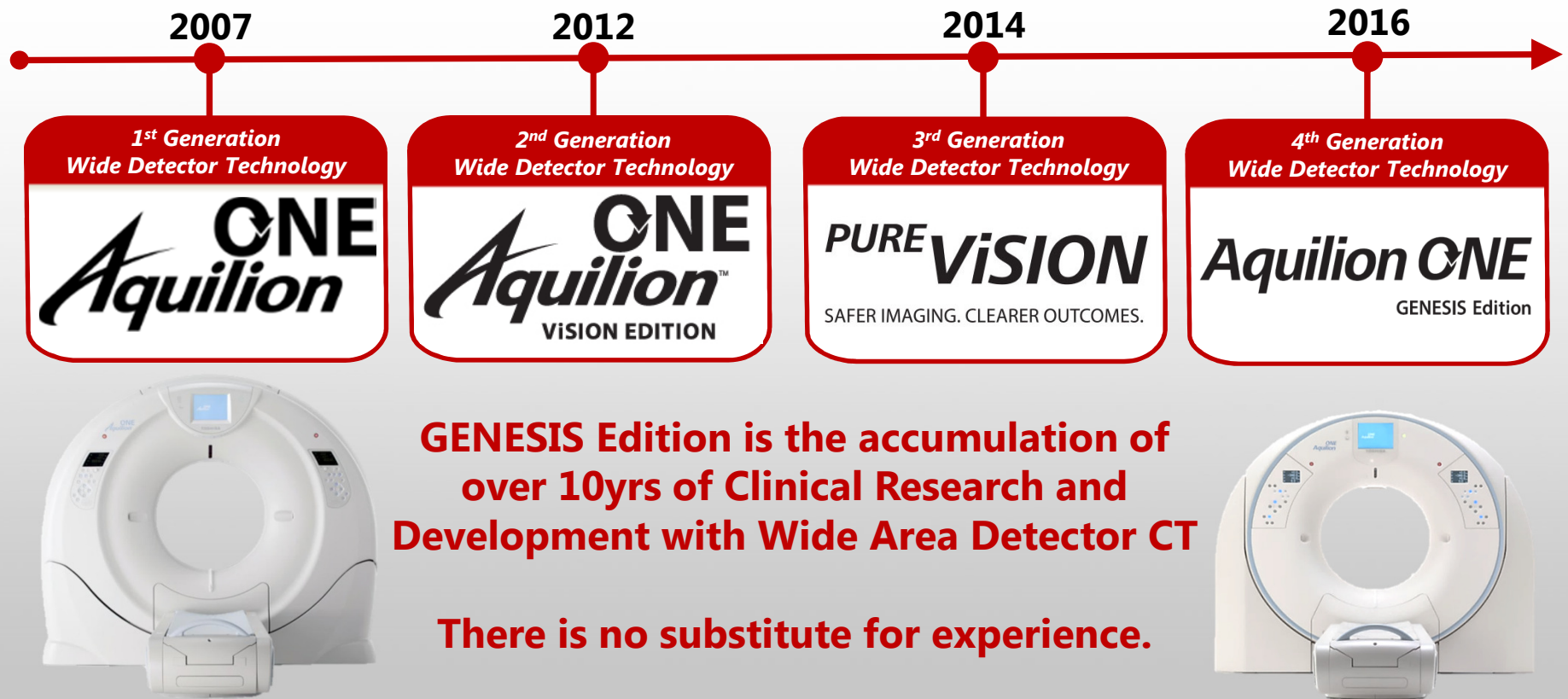


1. What is the GENESIS Edition?

System Specifications	
Number of Slices	640
Slice thickness	0.5mm
Gantry Bore	78cm
Rotation time	0.275s
Generator output	100kW
Tube heat capacity	7.5MHU
Recon Speed	80 ips
Metal Artefact	SEMAR
Dose reduction	AIDR3D Enhanced

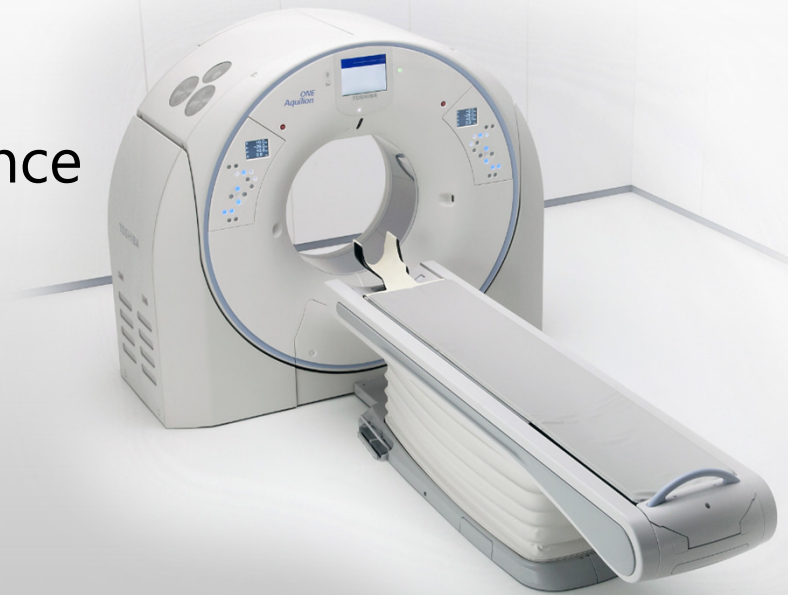


1. What is the GENESIS Edition?



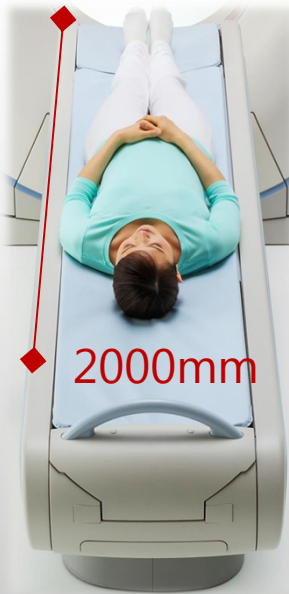
Transforming CT

1. What is the GENESIS Edition?
2. Transforming the Patient Experience
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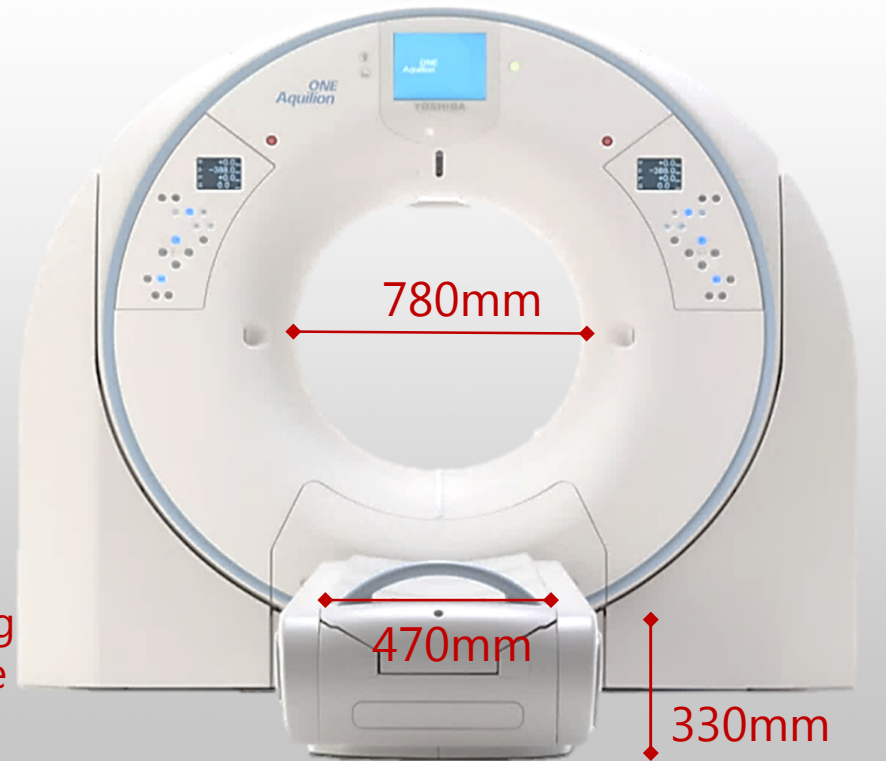


2. **Transforming** the Patient Experience

- Designed for our diverse expanding and aging population

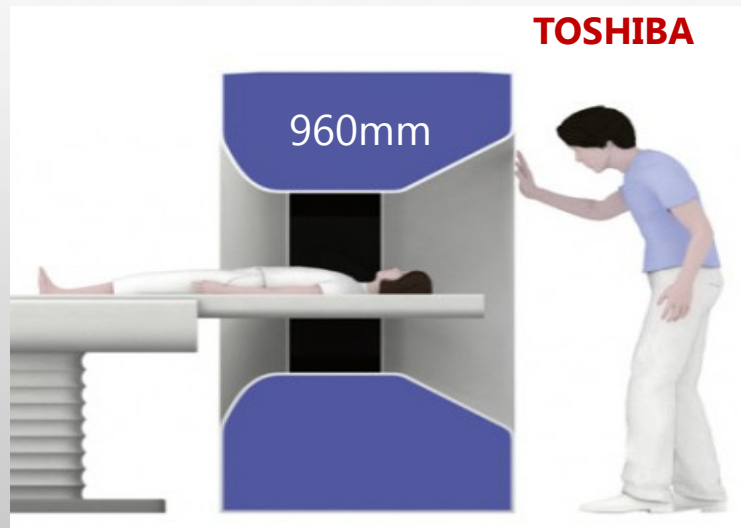


Feet First Brain scanning
Brain scanning on table
No problem

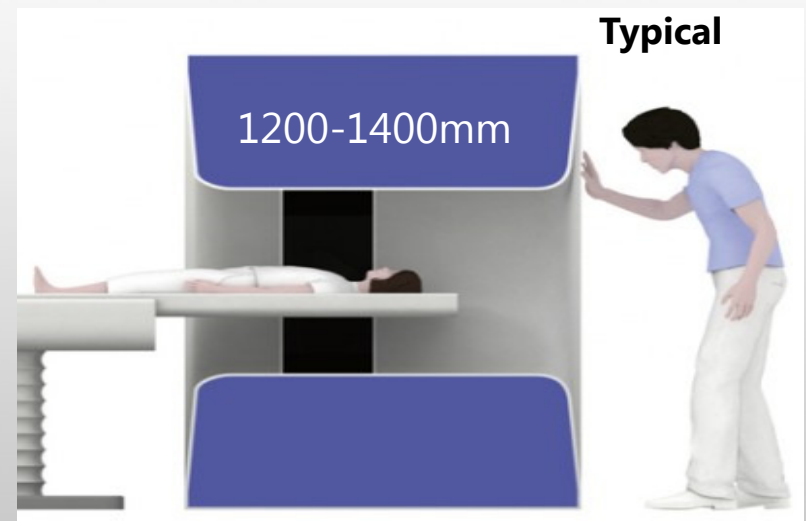


2. **Transforming** the Patient Experience

- Unique flared gantry design for easy access and patient comfort



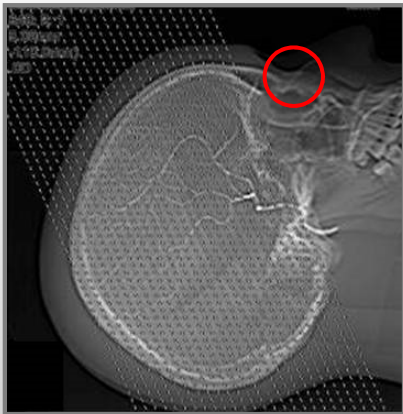
GENESIS open flare design



Claustrophobic tunnel design

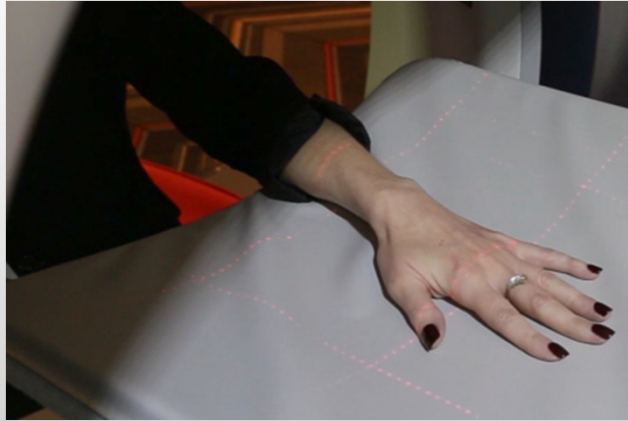
2. **Transforming** the Patient Experience

➤ Unique Gantry Tilt



2. **Transforming** the Patient Experience

➤ Unique Laser Collimator



2. **Transforming** the Patient Experience

➤ Unique Laser Collimator



CTDIvol	1.8 mGy
DLP	17.5 mGy.cm
Effective Dose	0.004 mSv

Purpose built putting patients first

Transforming CT

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3. Transforming Clinical Confidence

3. **Transforming** Clinical Confidence

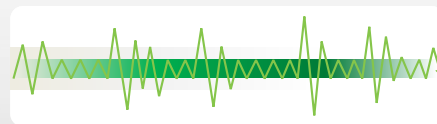
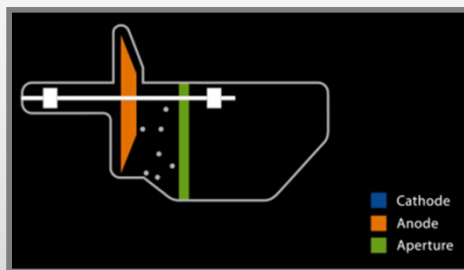
➤ Introducing ^{PURE}ViSION Optics

1. X-ray Generation

2. Beam Distribution

3. Scatter Correction

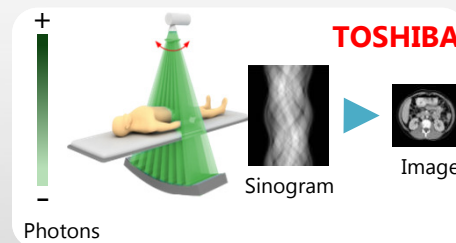
4. X-ray Detection



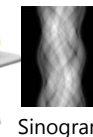
Old Beam Spectrum



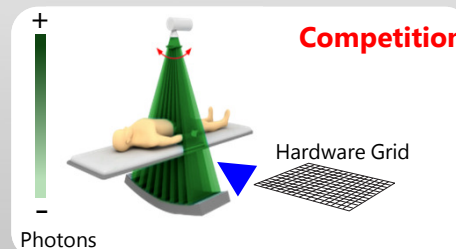
New Beam Spectrum



TOSHIBA

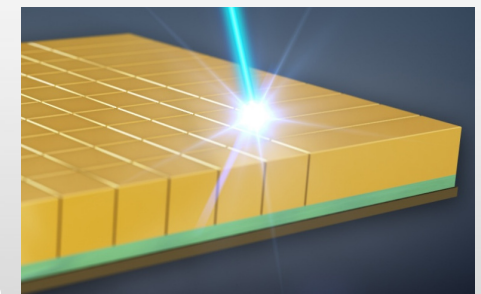


Image



Competition

Hardware Grid



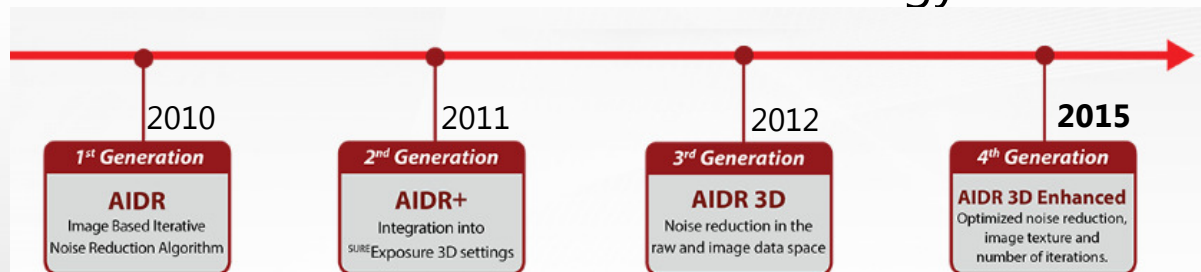
40% increase in light output

28% reduction in electronic noise

Up to 40% less dose

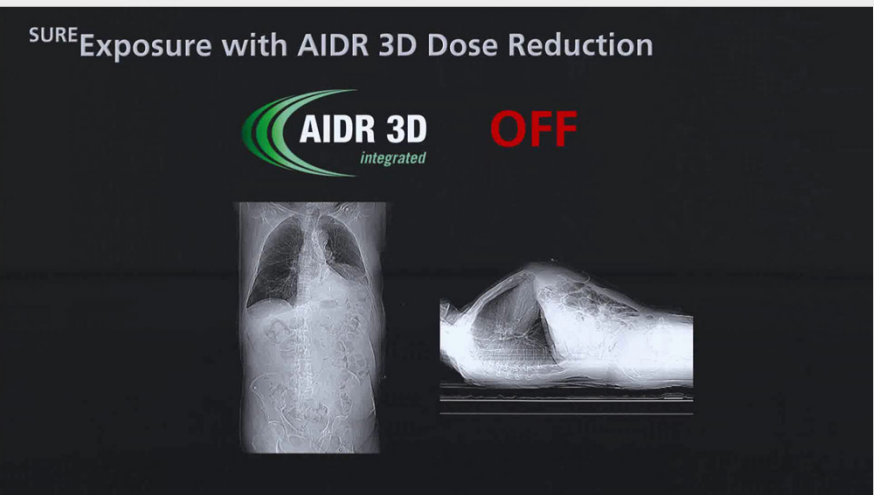
3. Transforming Clinical Confidence

➤ Premium dose reduction technology included



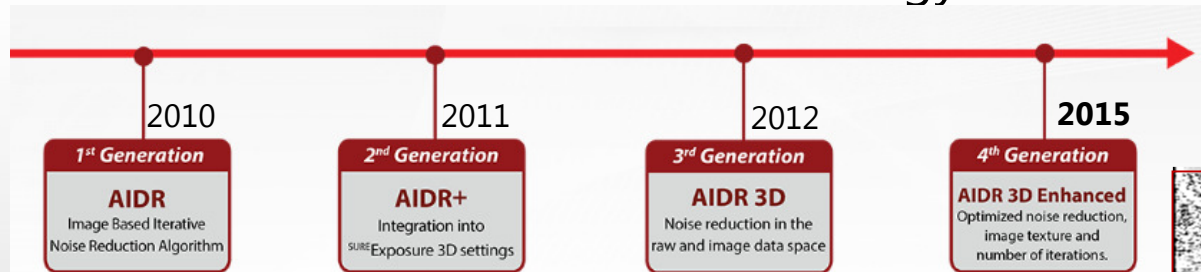

AIDR 3D
integrated
Adaptive Iterative Dose Reduction

- Fast image reconstruction
- Fully integrated with **SURE** Exposure3D



3. Transforming Clinical Confidence

➤ Premium dose reduction technology included



- Fast image reconstruction
- Fully integrated with **SURE** Exposure3D



Adaptive **I**terative **D**ose **R**eduction



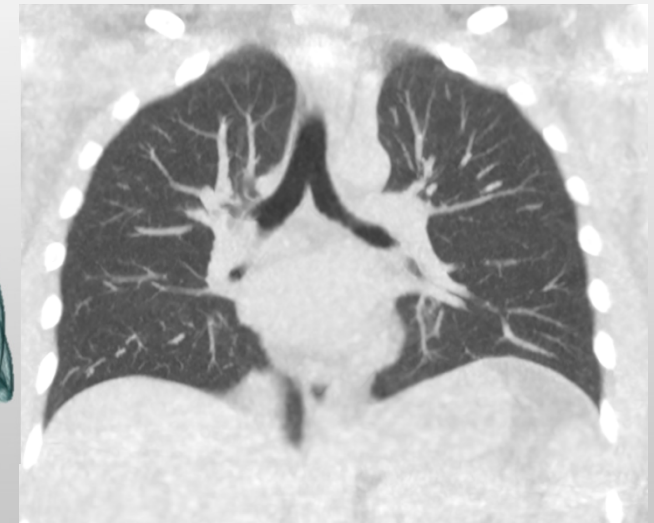
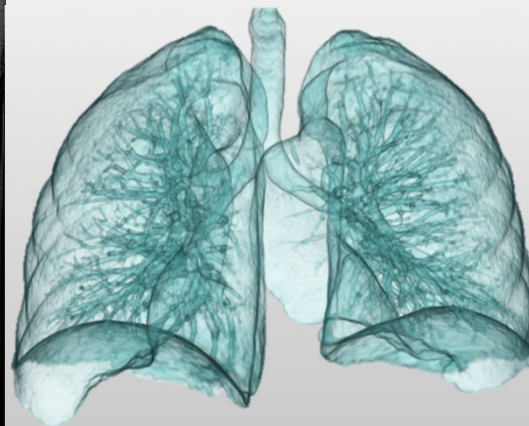
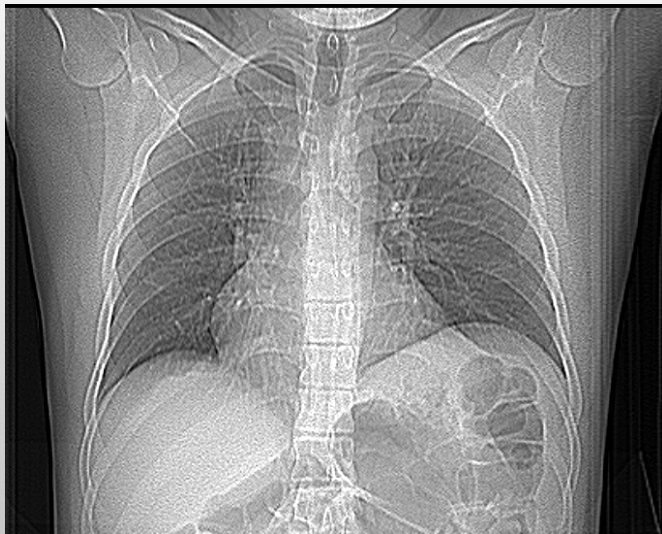
3. **Transforming** Clinical Confidence

- Premium dose reduction technology included
 - Ultra low dose Chest CT
 - DLP of 8mGy.cm (**0.1mSv**)

PUREVISION
0.5mm DETECTOR

AIDR 3D
integrated

Adaptive **I**terative **D**ose **R**eduction



5mm MIP

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MEDICAL**

3. Transforming Clinical Confidence

➤ See more with SEMAR

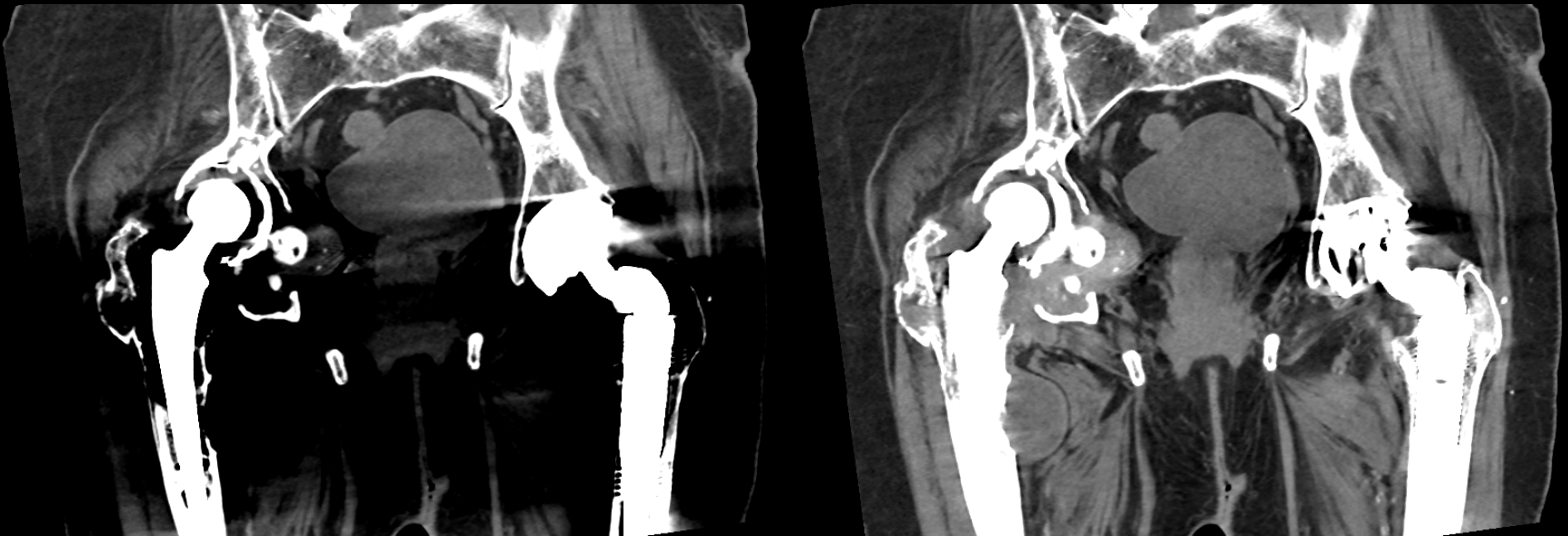
3. Transforming Clinical Confidence

- Apply SEMAR to any routine scan



3. **Transforming** Clinical Confidence

- Apply SEMAR to any routine scan



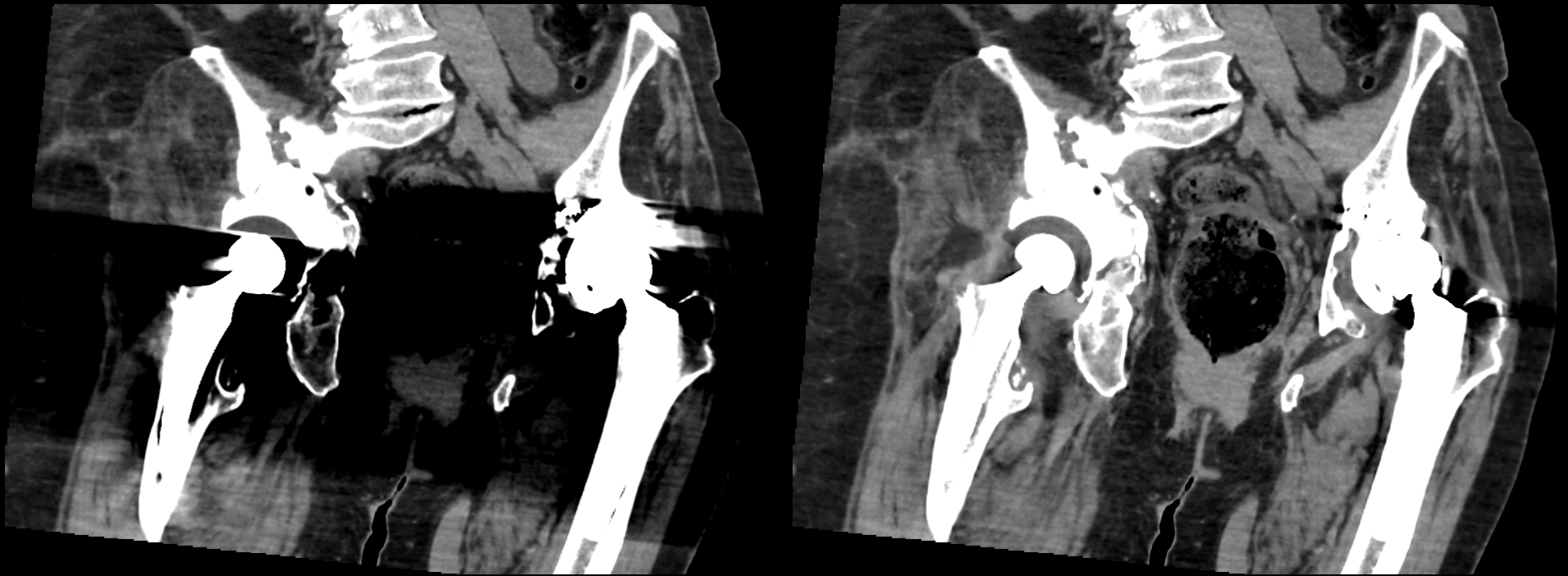
3. **Transforming** Clinical Confidence

- Apply SEMAR to any routine scan



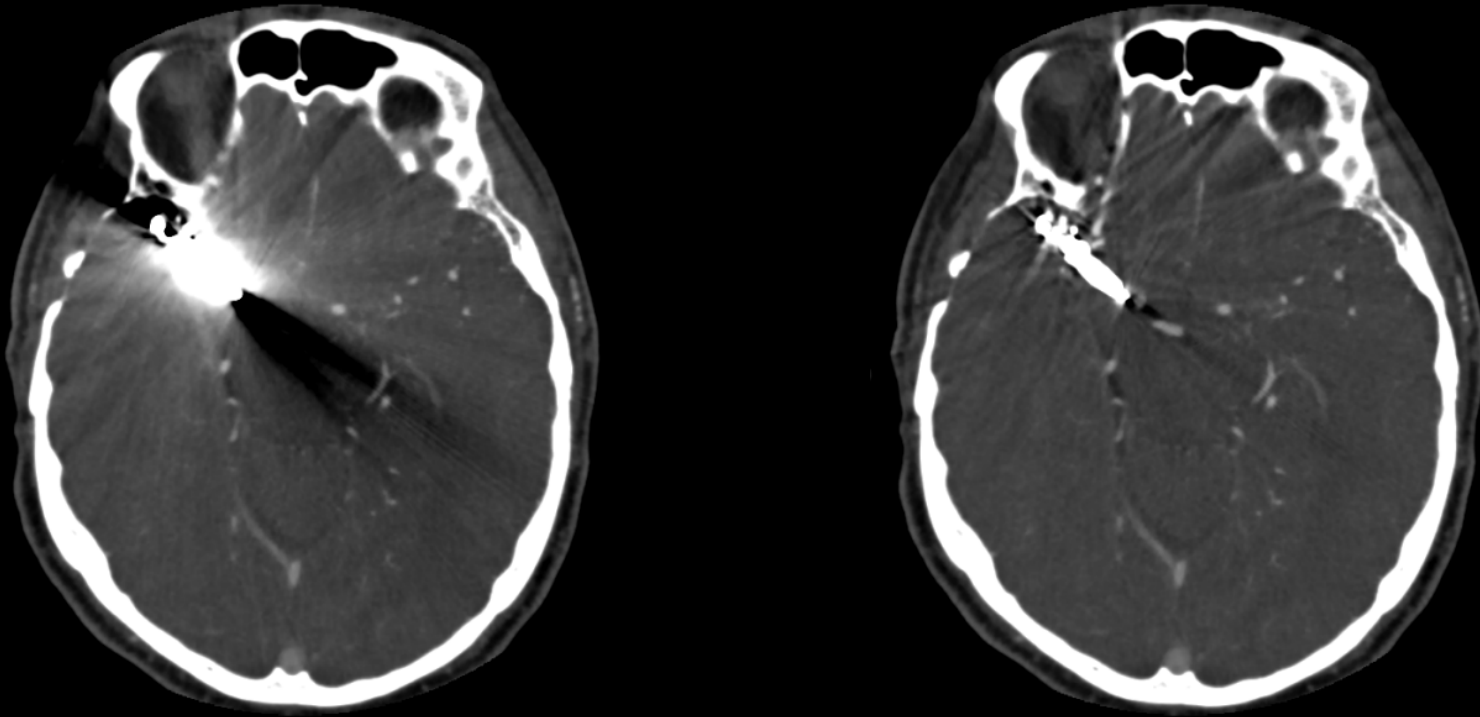
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- Apply SEMAR to any routine scan



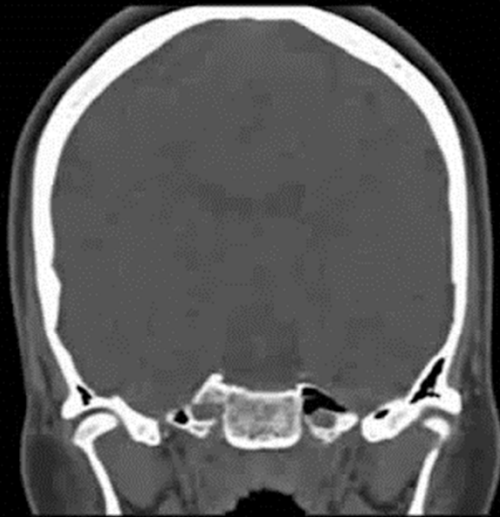
3. **Transforming** Clinical Confidence

- Even for ECG gated scans



3. Transforming Clinical Confidence

- Automated pixel perfect subtraction

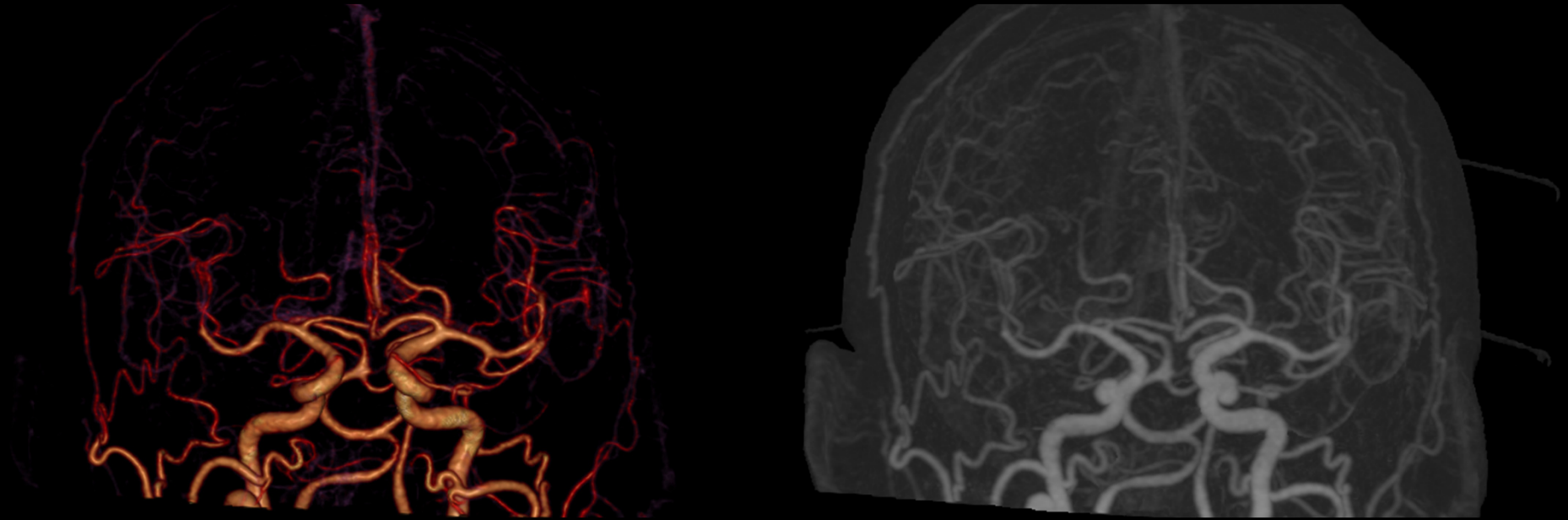


Pre Contrast Volume

Advanced Deformable Registration

3. Transforming Clinical Confidence

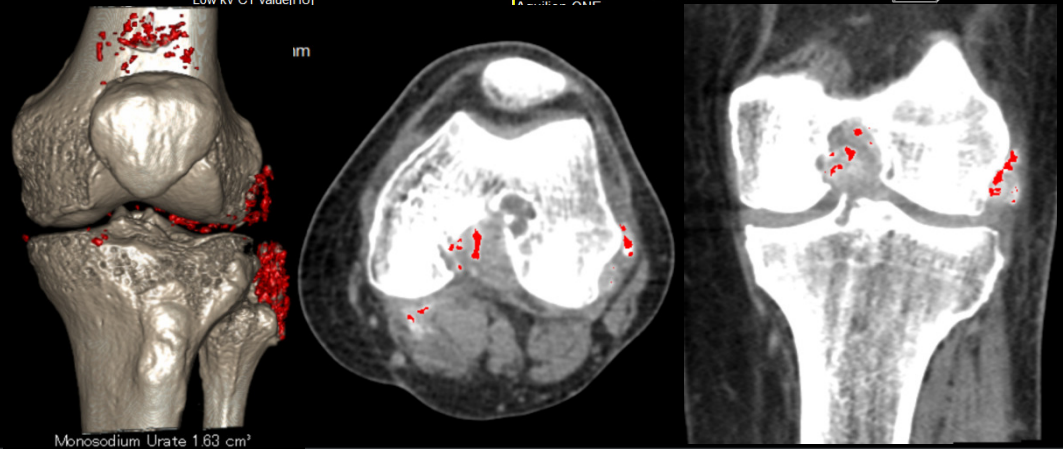
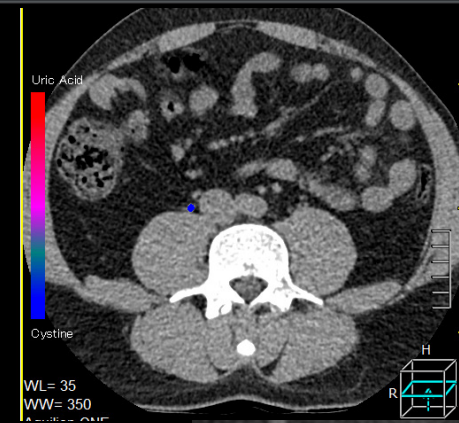
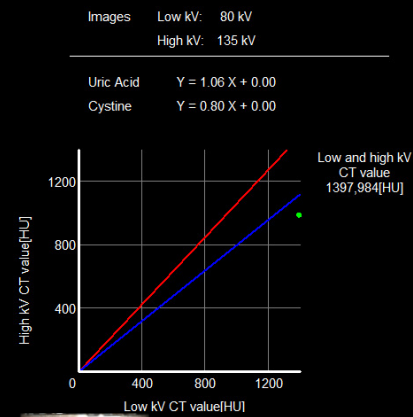
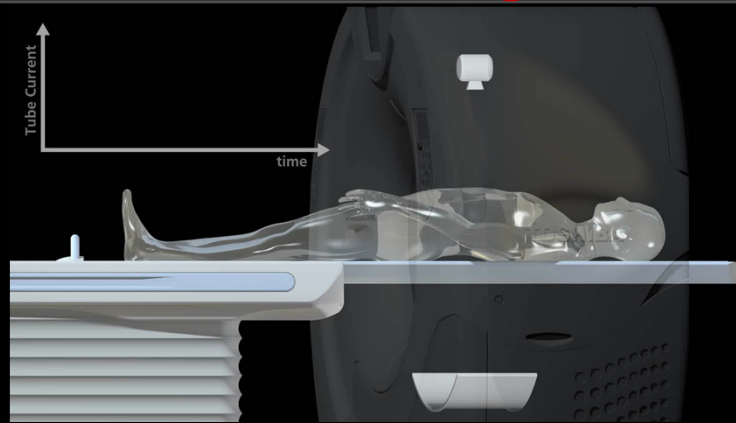
- Automated pixel perfect subtraction



3. Transforming Clinical Confidence

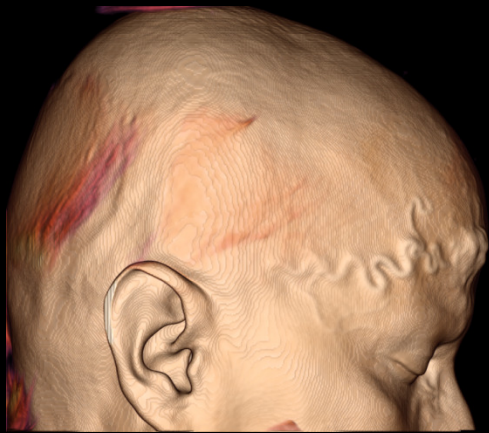
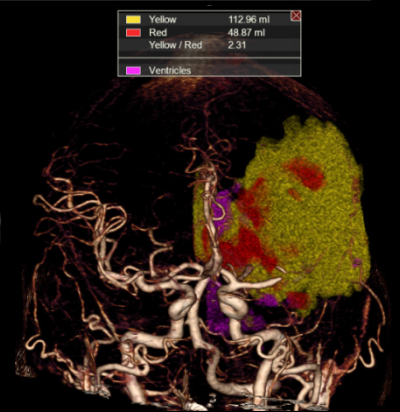
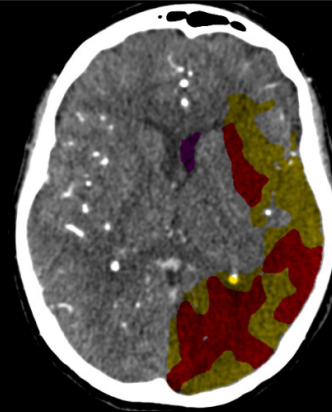
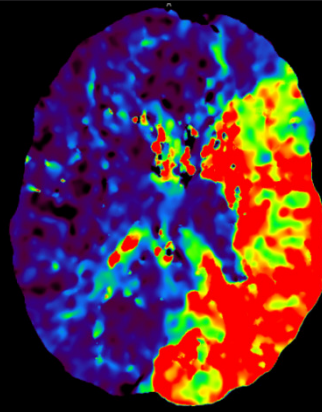
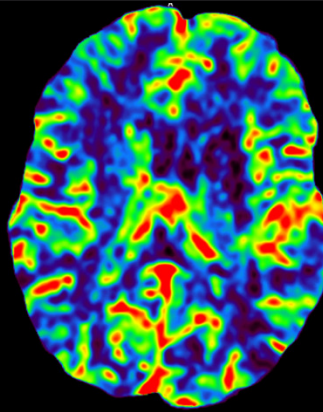


3. Transforming Clinical Confidence

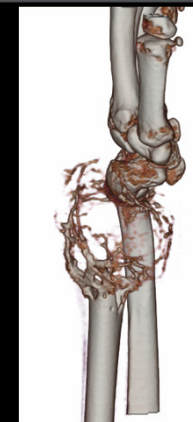
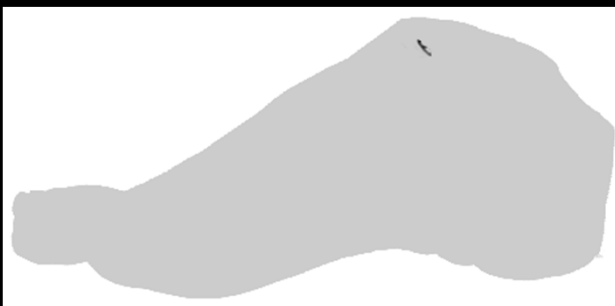
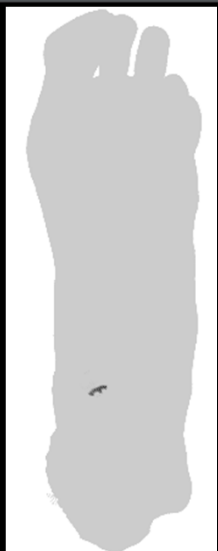


3. Transforming Clinical Confidence

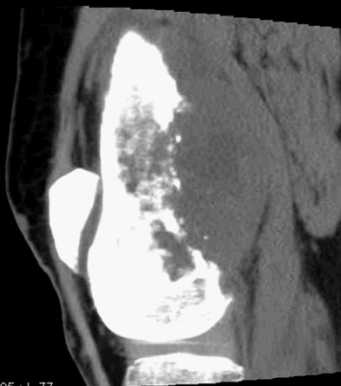
3. Transforming Clinical Confidence



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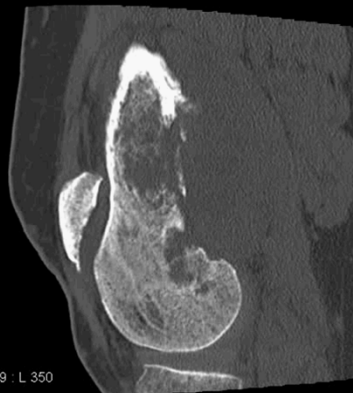


137



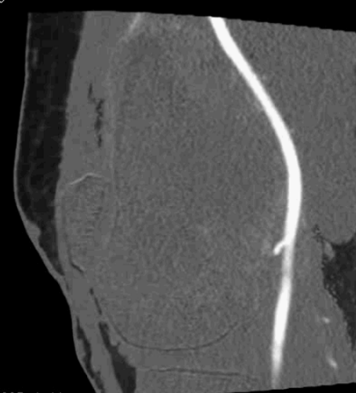
395 : L 77

122



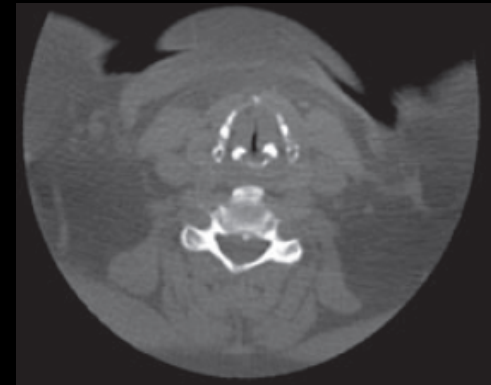
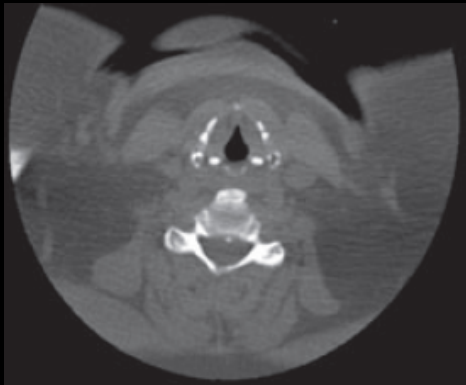
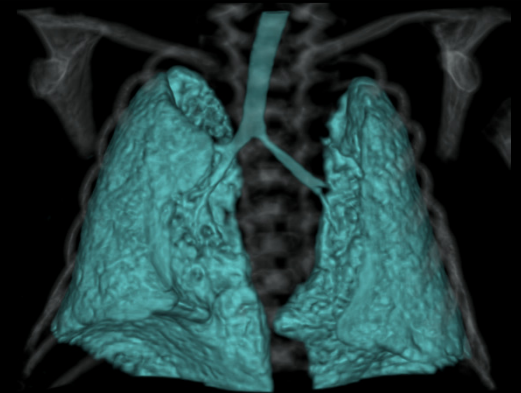
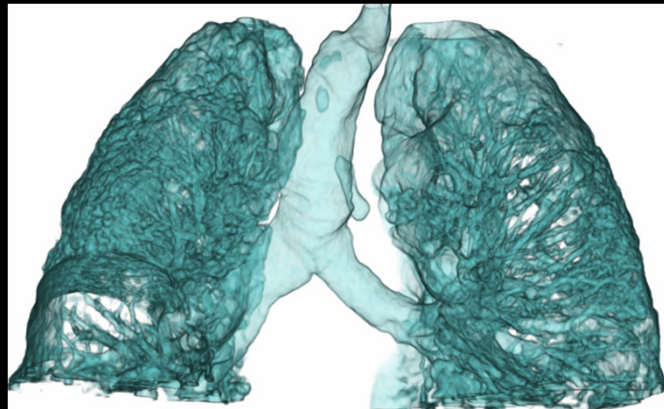
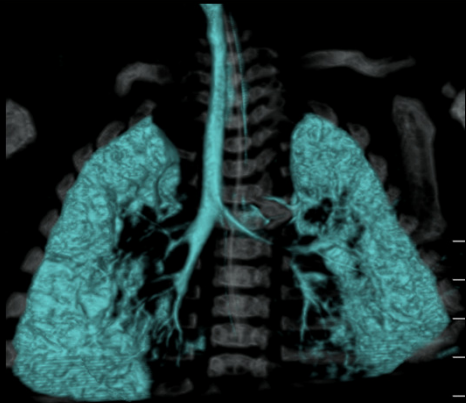
W 1569 : L 350

119



W 395 : L 44

3. Transforming Clinical Confidence



3. Transforming Clinical Confidence

Radiology Case Study

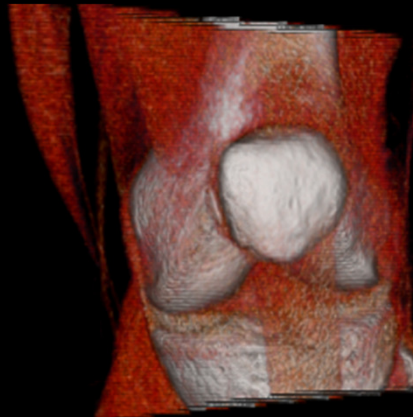
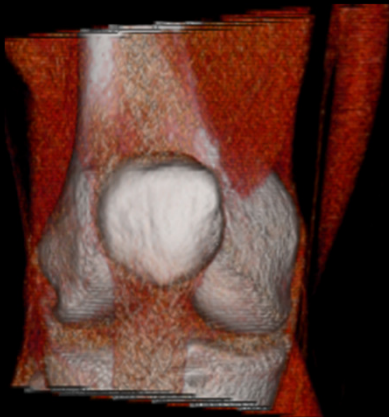
Case courtesy of Dr John Troupis
Video by Dr Andrew Dixon & Dr Matt Skalski

TOSHIBA
Leading Innovation >>>



ONE
Aquilion
VISION EDITION

3. Transforming Clinical Confidence



3. Transforming Clinical Confidence

GENESIS is the only scanner that can provide your patients with all the technology and applications to answer your clinical queries now and into the future.



Transforming CT

1. What is the GENESIS Edition?
Accumulation of over 10 years R & D
2. Transforming the Patient Experience
Purpose built putting patients first
3. Transforming Clinical Confidence
Only scanner that can answer all queries into the future



Transforming CT



**Home of the
Future of CT**



**TOSHIBA
MEDICAL**

Made For life