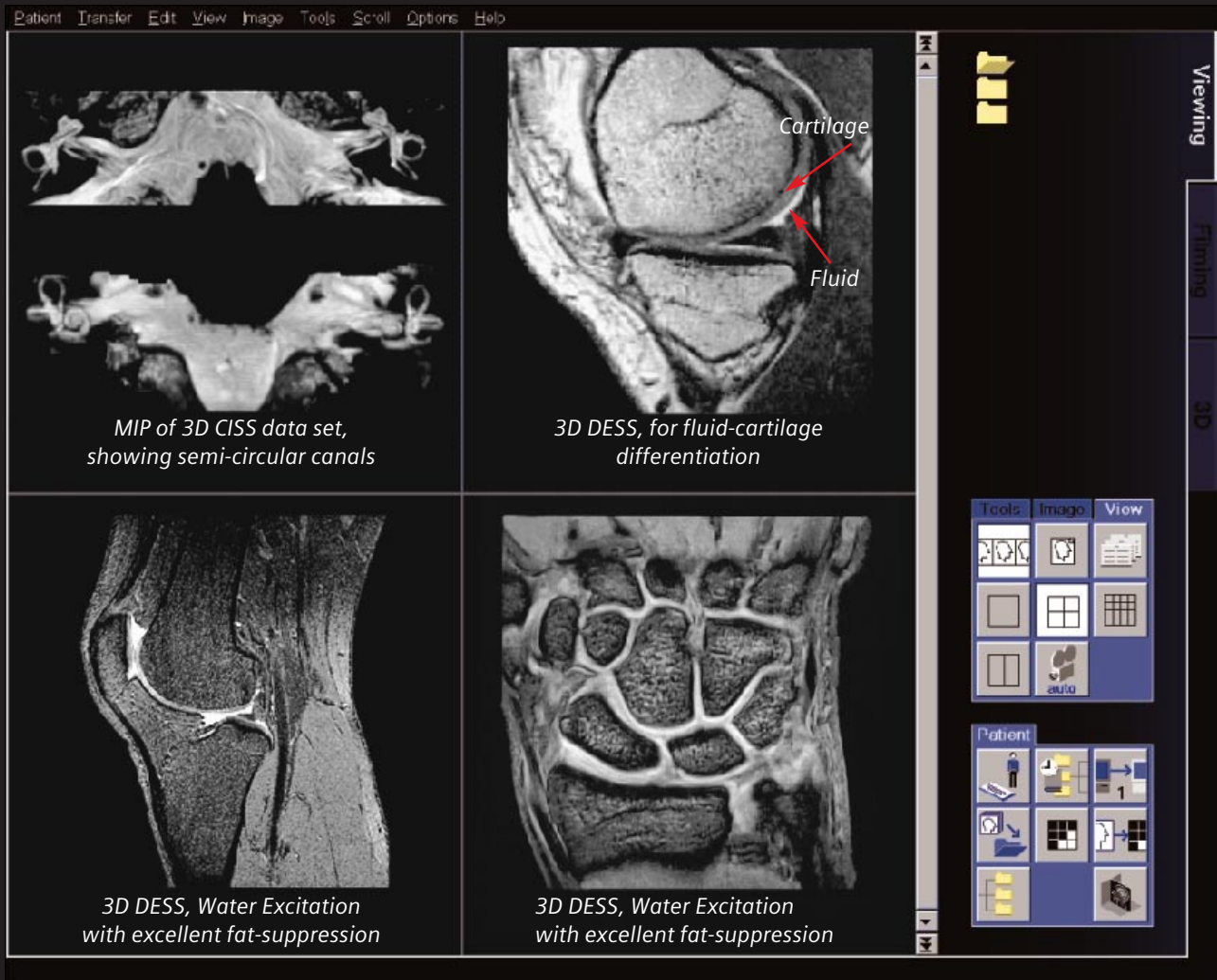


MAGNETOM Family



MAGNETOM Maestro Class
Advanced 3D package
3D CISS and DESS sequences

Advanced 3D package

Unique sequences

- 3D CISS for cranial nerve imaging and spine imaging
- 3D DESS for orthopedic imaging

Advantages of 3D imaging

- 3D techniques combine the good soft tissue contrast of MR with high S/N for continuous acquisition
- Maximum Intensity Projection (MIP) or Multiplanar Reconstruction (MPR) can be used on the acquired 3D data set for oblique or curved orientations

Content

Advanced 3D imaging sequences

- 3D CISS (Constructive Interference in Steady State)
- 3D DESS (Double Echo in Steady State)

Constructive Interference in Steady State (CISS)

Advantages

- Strong T1/T2 contrast
- High S/N for cerebro-spinal fluid
- Sub-millimeter resolution
- Motion insensitive steady state refocusing

Used in

- Cranial nerve imaging
- Inner ear imaging
- Spine imaging

Please contact in Japan:

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Double Echo in Steady State (DESS)

Advantages

- Strong T1/T2 contrast
- Good differentiation of bone, cartilage and synovial fluid
- High S/N due to simultaneous acquisition of FISP and PSIF images

Variants

- 3D DESS
- 3D DESS with water excitation

Used in

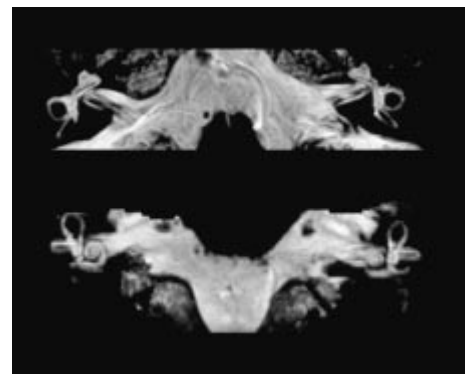
- Orthopedic imaging
- MR arthrograms

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MIP of a 3D CISS data set



3D DESS, 1.5 mm effective thickness showing fluid-cartilage differentiation



3D DESS with Water Excitation, 1.5 mm effective thickness with fat suppression

Siemens **Medical Solutions** that help