PHILIPS

Black Blood imaging

MR Clinical application

Enhance your diagnostic **confidence for Brain imaging**

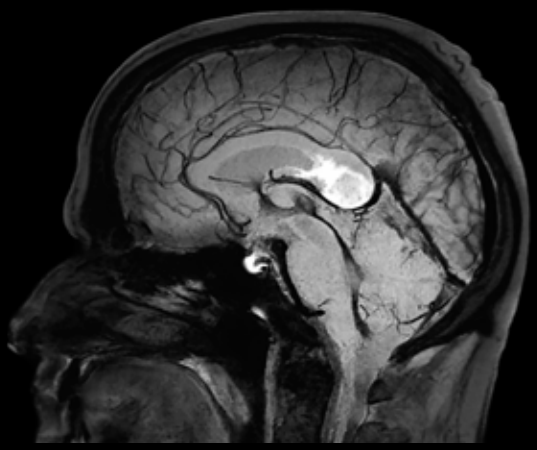
Black Blood imaging helps you better differentiate the vessel lumen from the intra lumen blood signal. This enhances your diagnostic confidence by performing your 3D brain imaging with higher and isotropic imaging resolution[1] with a reduction of the intra-lumen brain blood signal[2] over the complete imaging volume.

1 Compared to our 2D double inversion methods with same brain coverage and scan time
2 Compared to our 3D T1w scan without MSDE pre-pulse

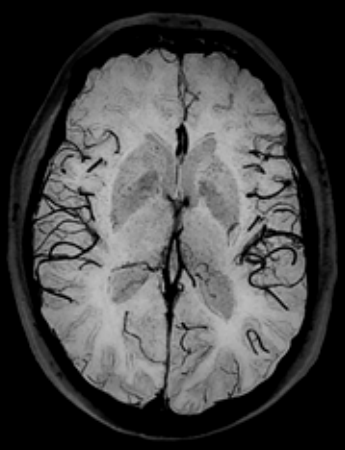
Black Blood imaging

Field strength	1.5T, 3.0T.
Main applications	Brain.
Sequence	3D TSE isotropic acquisition enabling reformats in any plane (including oblique) without loss of resolution.
Image contrast	T1w, including a black blood pre-pulse.
Speed	Leverages the efficient dS SENSE parallel imaging technology to provide superior speed performance.[1] Fast scan times of 5 minutes.[2]
Image quality	Optimal signal-to-noise due to dStream's digitization at the patient.

1 Compared to first generation SENSE.
2 Compared to our 2D double inversion recovery methods with same full brain coverage.



Sagittal 3D Black Blood imaging (MinIP)
0.8 x 0.8 x 0.8 mm, 5:20 min
Ingenia 3.0T
Courtesy: Hennepin County Medical Center, Minneapolis, USA



Axial 3D Black Blood imaging (MinIP)
0.8 x 0.8 x 0.8 mm, 4:20 min
Ingenia 3.0T

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