PHILIPS

SWIp

MR software

Imagine your **neuro exams with a fast SWIp scan**

Susceptibility weighted imaging on both 1.5T and 3.0T systems

Key benefits

- Exquisite susceptibility contrast and high resolution in short scan times
- Multi-echo acquisition for high SNR and high image quality
- Susceptibility contrast using phase information
- High sensitivity to venous blood products
- Phase maps for advanced diagnostic capabilities
- 1.5T and 3.0T compatible

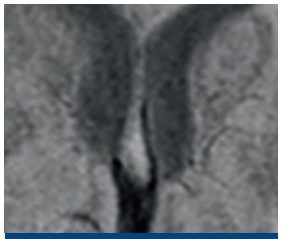
Philips SWIp (susceptibility weighted imaging with phase enhancement) offers the speed and image quality you need to support your mainstream clinical MR examinations. SWIp has high sensitivity to venous blood products and delivers high resolution 3D images with susceptibility contrast. All in surprisingly short scan times. This is achieved through a unique combination of multi-echo acquisitions and image processing that uses phase information. SWIp also allows you to produce detailed phase maps to support advanced diagnosis.

Thanks to its short scan times you can easily integrate SWIp into your mainstream practice to enhance neuro exams.

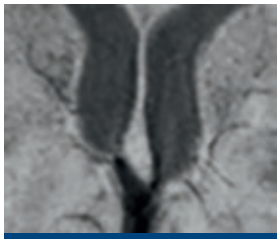
SWIp

	Technical characteristics	Additional information
Main applications	Brain	
Acquisition	3D gradient echo	High resolution
Number of echoes	Up to 4 echoes	Provides increased SNR compared to a single echo approach (depending on field strength*)
Image types	SWIp Magnitude SWIp Phase	Freely selectable
Postprocessing	Online minimum Intensity Projection (mIP)	mIP is used to increase susceptibility contrast and may be easily integrated inline to your ExamCard
Field strength	1.5T and 3.0T	
Parallel imaging	Compatible with dS SENSE	Leverages the efficient, high SNR, dS SENSE parallel imaging technology to further reduce scan time

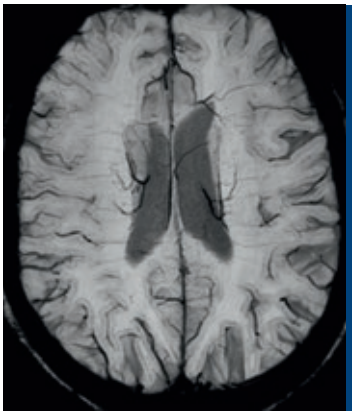
*Internal testing, data on file



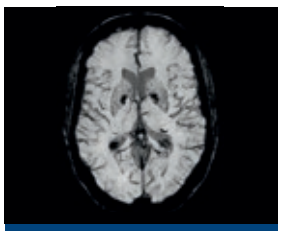
SWI - Single-echo acquisition
Resolution: 0.6 x 0.6 x 1.0 mm
Scan time: 4:30 min
Ingenia 3.0T



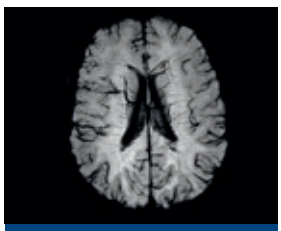
SWIp - 4-echo acquisition Increased SNR.
Resolution: 0.6 x 0.6 x 1.0 mm
Scan time: 4:30 min
Ingenia 3.0T



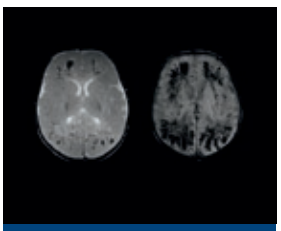
Fast, very high resolution SWIp.
Resolution:
0.6 x 0.6 x 1.0 mm
Scan time: 2:30 min
dS SENSE 4.5
mIP image,
dS Head 32 ch coil,
Ingenia 3.0T



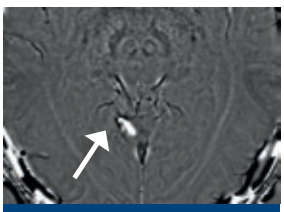
High resolution, high SNR SWIp.
Resolution: 0.5 x 1.0 x 2.0 mm
Scan time: 4:19 min
dS SENSE 2.6
mIP image, Ingenia 1.5T



Ultra-fast (under a minute), high resolution SWIp.
Resolution: 0.6 x 0.9 x 1.3 mm
Scan time: 0:58 min
dS SENSE 6.0
mIP image, dS Head 32 ch coil, Ingenia 3.0T



High susceptibility contrast.
Left: T2* FFE
Right: SWIp
Resolution: 0.6 x 0.6 x 1.0 mm
Scan time: 4:06 min
Courtesy: Phoenix Children's Hospital, USA, Ingenia 3.0T



Advanced diagnostic capabilities with SWIp phase map.
Example showing sensitivity of SWIp phase map to calcification

Contact Philips for a trial key[1]

[1] Only for systems with release 5 onwards

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How to reach us
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