PHILIPS

pCASL

MR software

Non-contrast brain perfusion **for mainstream clinical work**

Philips pCASL for 1.5T and 3.0T systems

Key benefits

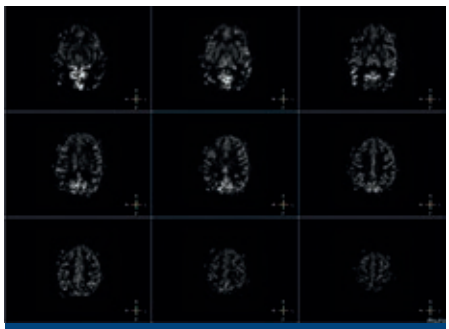
- Requires no contrast agent
- Whole brain coverage
- High signal-to-noise ratio
- Isotropic images
- Short scan times
- Color quant overlay maps

With pCASL (pseudo-continuous arterial spin labeling), Philips brings high quality, non contrast-enhanced brain perfusion into mainstream clinical practice, at 3.0T and 1.5T. Our efficient pseudo-continuous labeling technique provides up to 50% more SNR compared to pulsed ASL techniques (STAR). And thanks to dS SENSE, the whole brain can be acquired with isotropic resolution in short scan times and with low distortion.

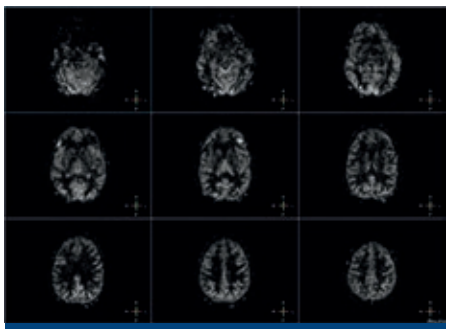
To further help you in your assessment, color overlay maps with a quantification bar can be added. Whether you prefer to work on 3.0T or 1.5T, with pCASL non-contrast brain perfusion is ready for clinical prime time.

pCASL

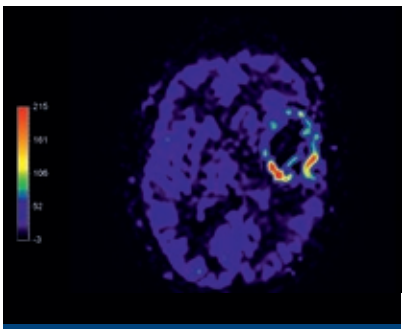
	Technical characteristics	Additional information
Main applications	Brain	
Acquisition	Pseudo-continuous arterial spin labeling with fast EPI read-out	Efficient, low SAR technology for blood labeling. Fast read-out for robust motion correction.
Postprocessing	Inline processing to produce color-coded ASL maps	Inline processing can be easily integrated into your ExamCard. Color-coded ASL maps with quantification bar can be produced on the MR console or on the IntelliSpace Portal workstation
Field strength	1.5T and 3.0T	
Parallel imaging	Compatible with dS SENSE	Leverages the efficient dS SENSE parallel imaging technology to provide fast scanning and low distortion levels



Ingenia 3.0T. Pulsed ASL technique (STAR)



Ingenia 3.0T. pCASL technique with improved SNR compared to pulsed ASL.



Color-coded ASL map with quantification bar

Ingenia 3.0T. pCASL with isotropic resolution. Source image (left) and reformats (middle and right). Resolution: 4.0 x 4.0 x 4.0 mm dS SENSE 3.0 Scan time: 4:30 min

Contact Philips for a trial key[1]

[1] Only for systems with release 5 onwards

pCASL is part of the ASL Neuro Specialist package.

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