

SWI : Imagerie de susceptibilité magnétique

Type : Technique IRM Imagerie : Flash 3D



SWI : Imagerie de susceptibilité magnétique

- Mode SWI : 3D FLASH axiale résolution submillimétrique dans le plan
- Pondération T_2^* → TE : 30 ms à 1.5 T TE : 20 ms à 3 T
- Signal de susceptibilité : réhaussé avec image de phase post-traitée

Principe de l'imagerie SWI

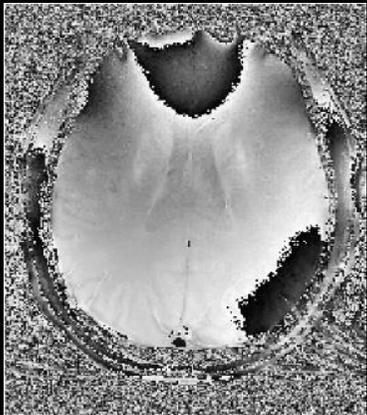


Image de phase brute



Image de phase post-traitée

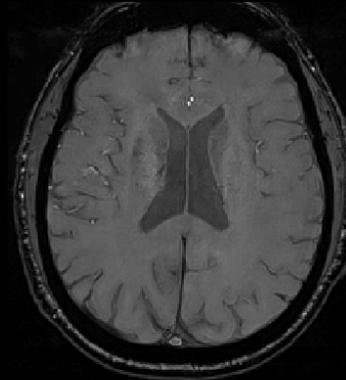


Image de magnitude brute

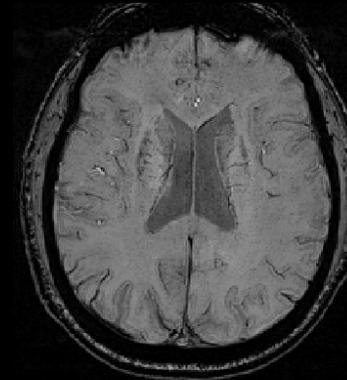


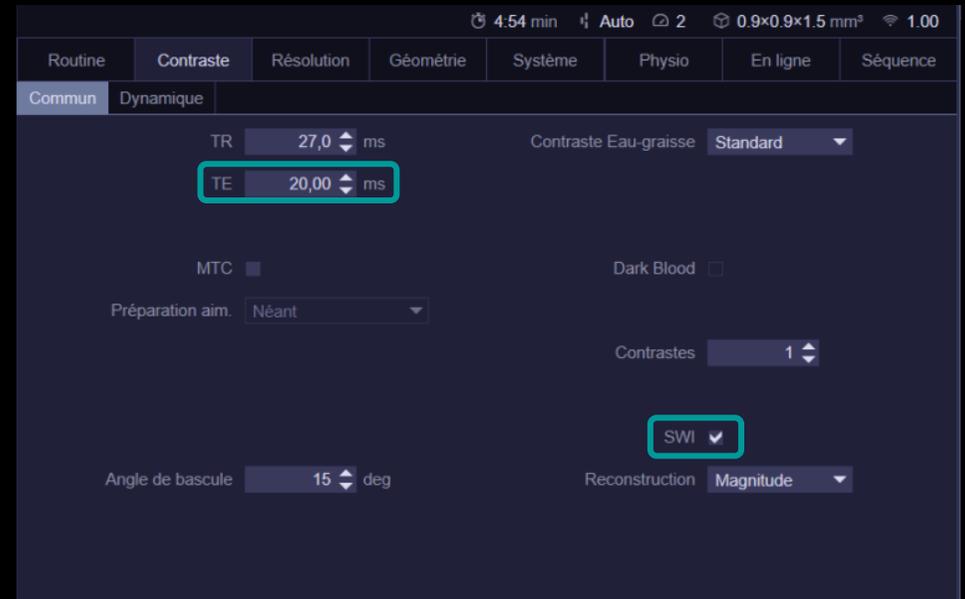
Image SWI

Applications :

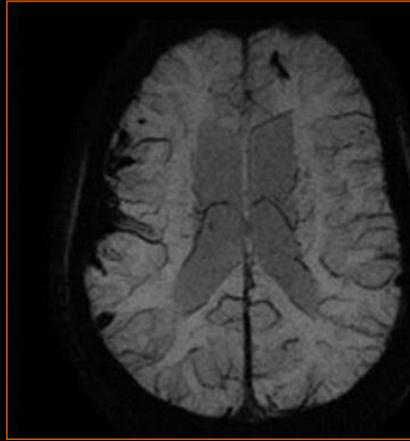
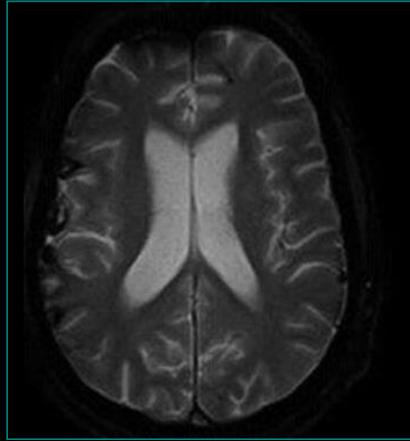
- Imagerie des micro-saignements, des calcifications, des vaisseaux...
- AVC, sclérose en plaques, Parkinson...



Image de 'Projection à intensité minimum' (mIP) obtenue avec une IRM 7 Tesla

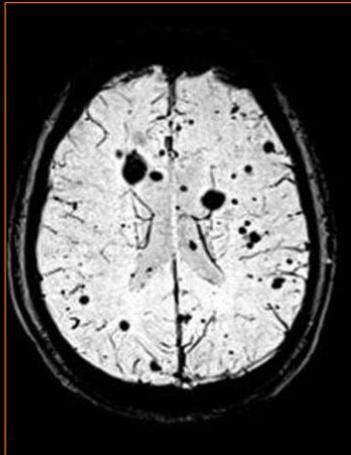
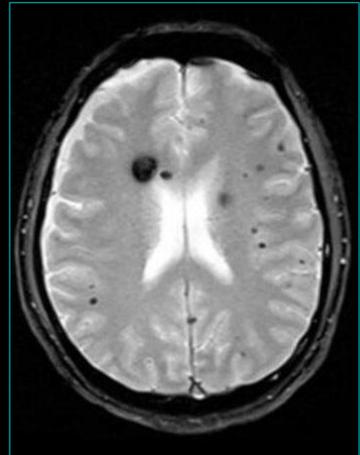
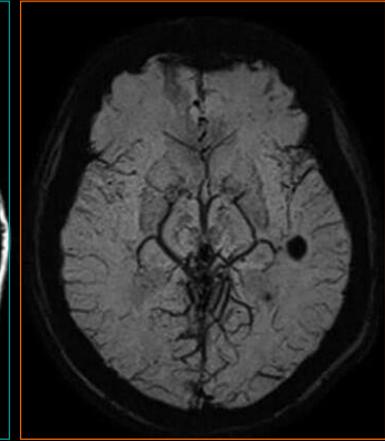
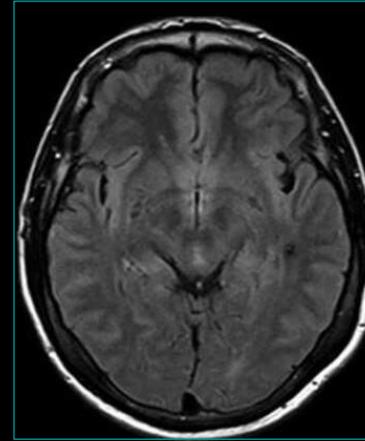


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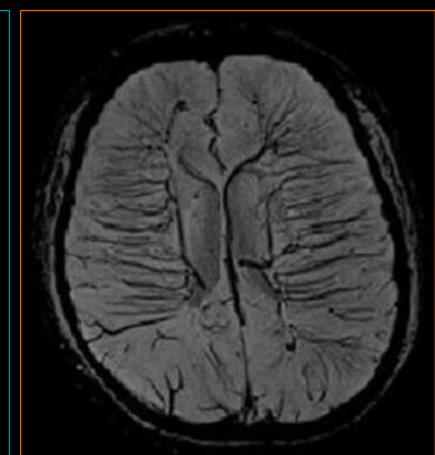
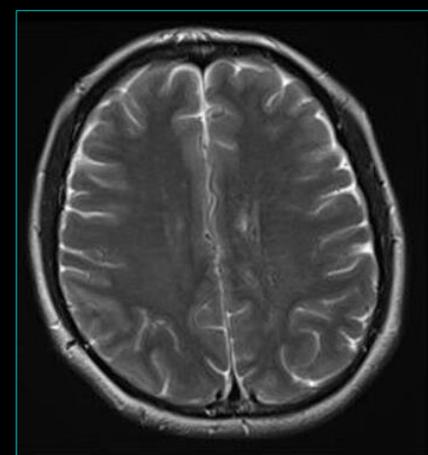
Trauma
FLASH
SWI

Angiome
2D FLAIR
SWI



Cavernomes
T₂ TSE
SWI

Malformations
veineuses
T₂ TSE
SWI



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