

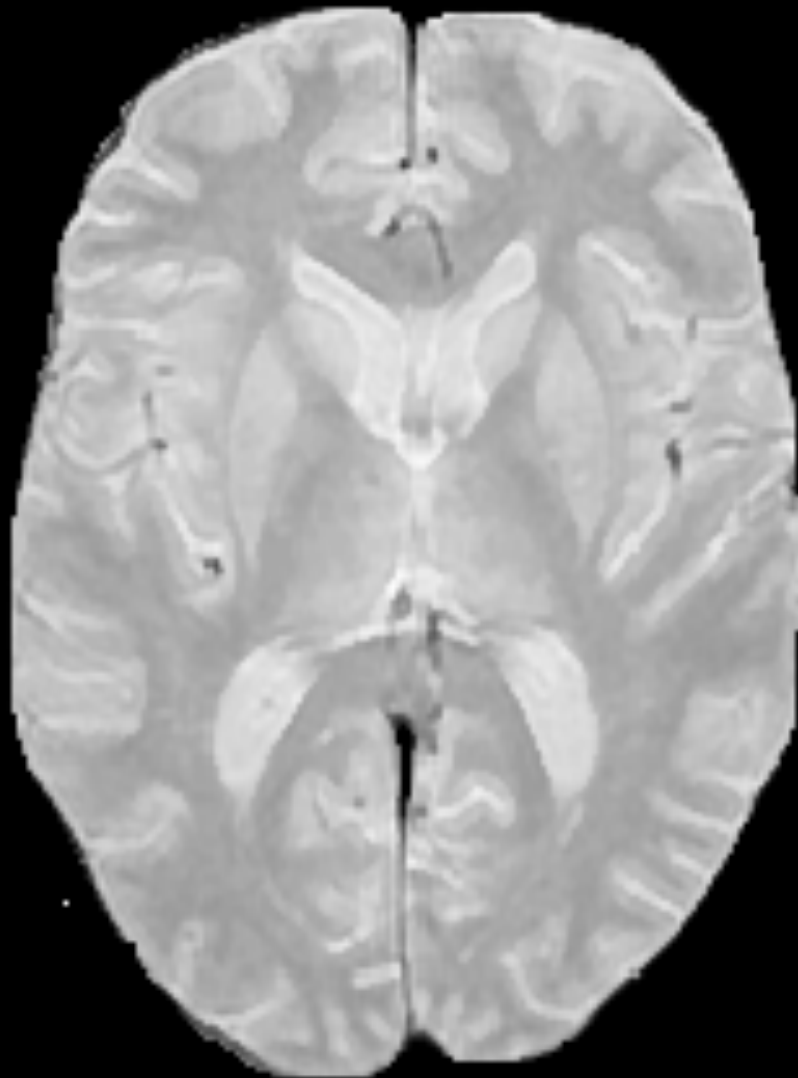
Traitement d'Images pour le Médical

Quelques exemples applicatifs

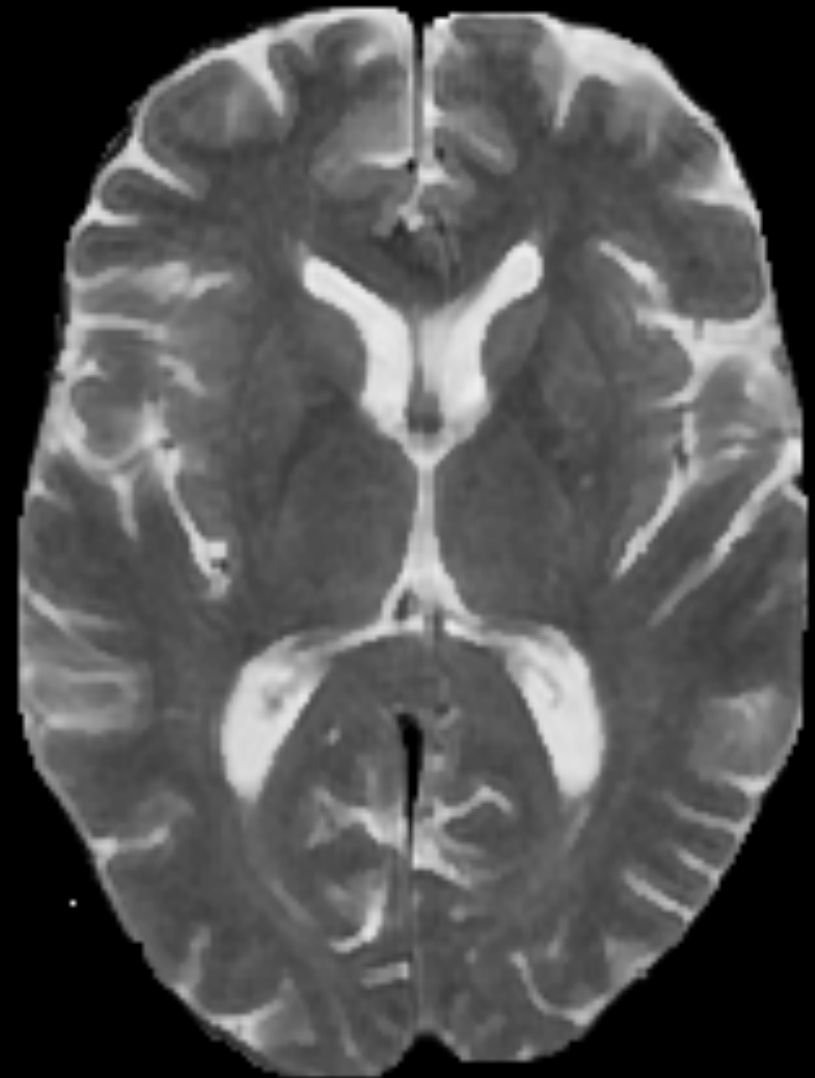
Introduction



Segmentation

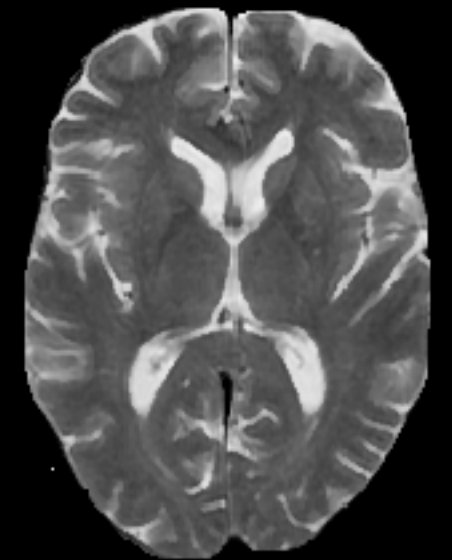
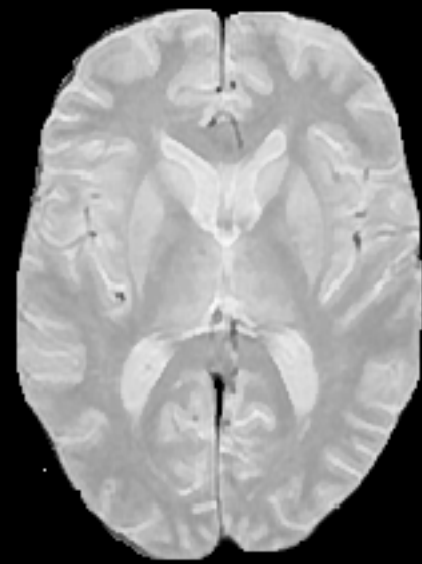


IRM en mode T1



IRM en mode T2

Segmentation

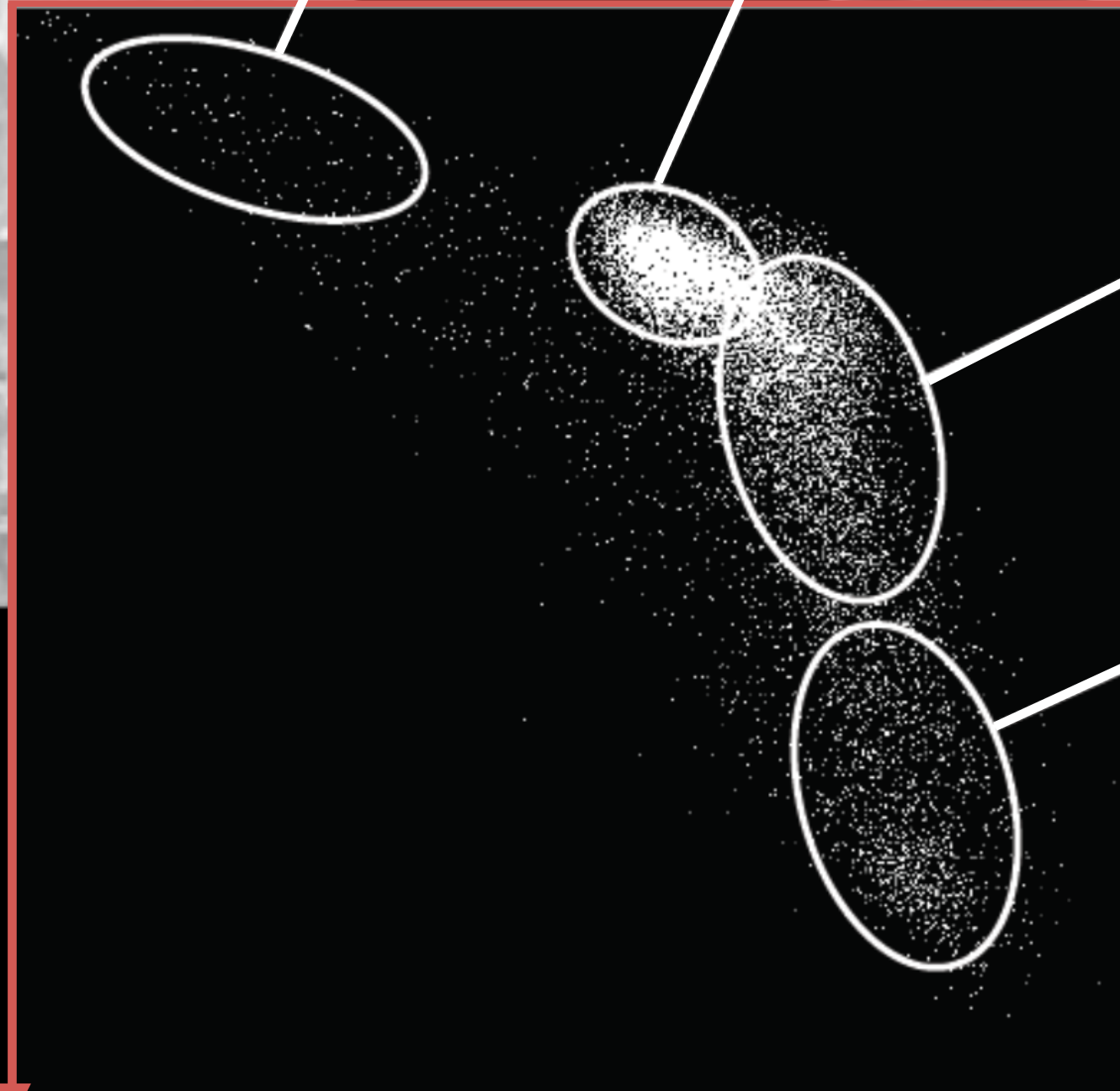
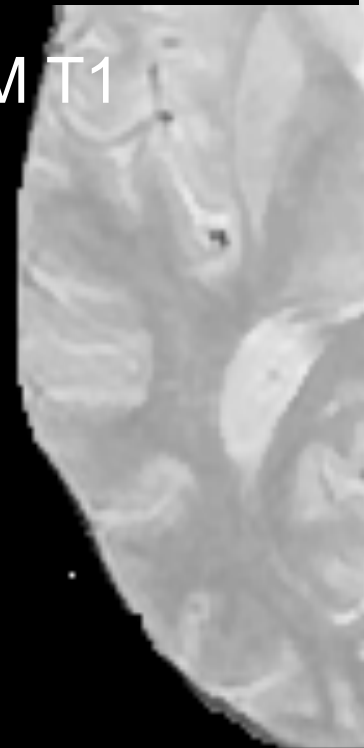


Méninges

Matière Blanche

IRM T1

IRM T1



IRM T2

Matière Grise

Liquide
Céphalo-Rachidien

mode T2

IRM en

IRM T2

Segmentation



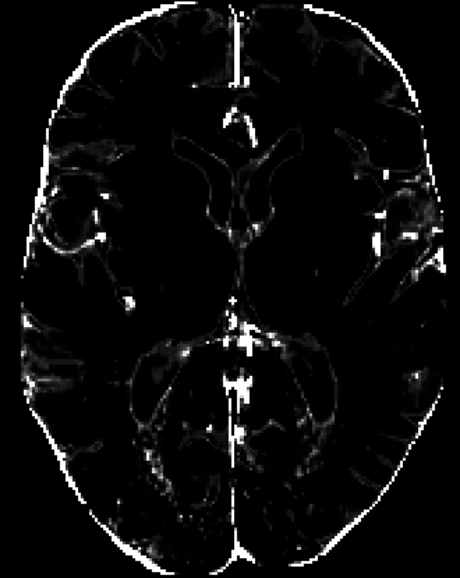
P(Matière grise)



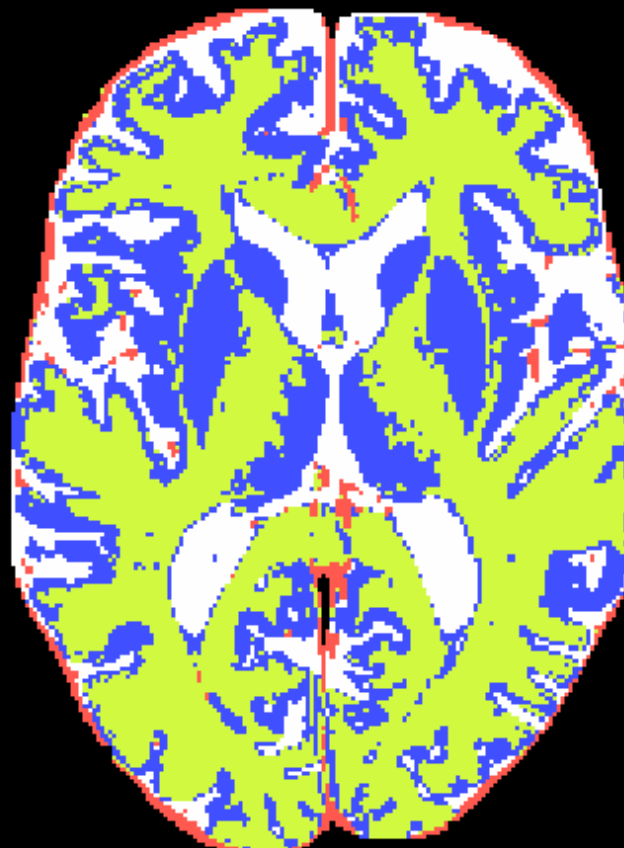
P(Matière blanche)



P(Liquide CR)



P(Méninges)



Carte de décision

Segmentation ... en 3D



Recalage

Problème : plusieurs images acquises dans des géométries différentes

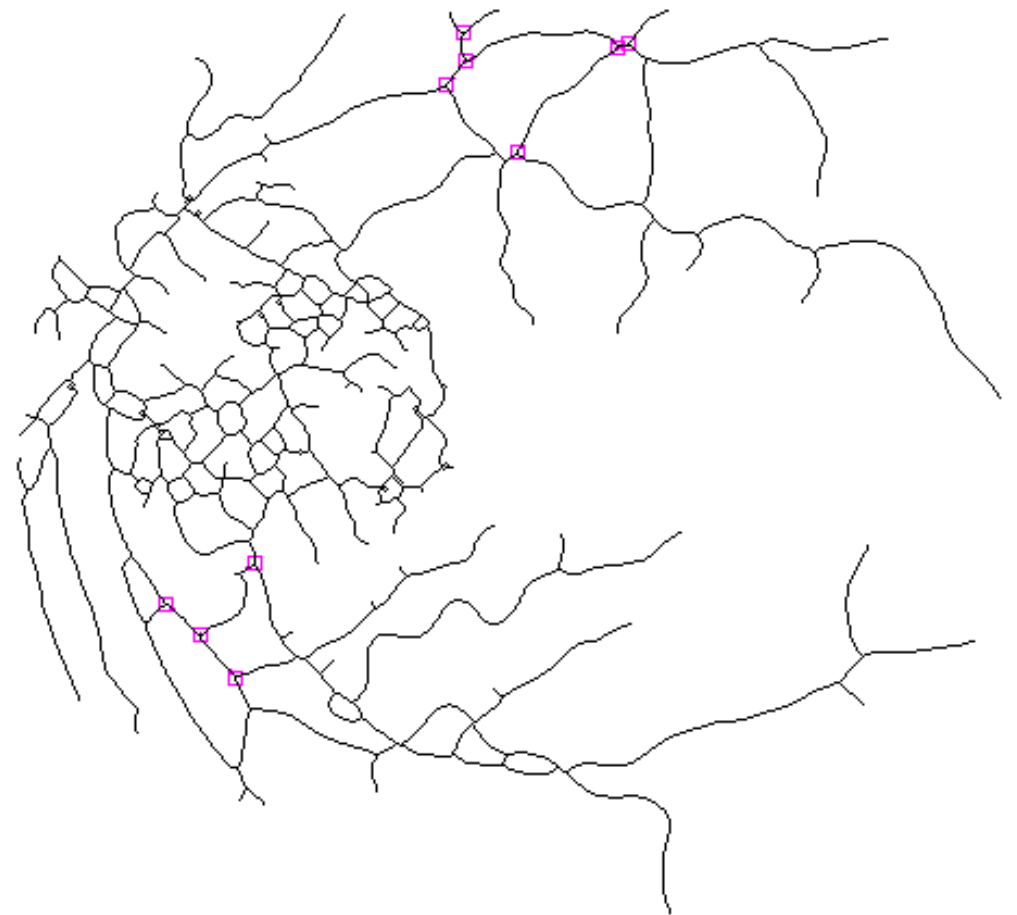
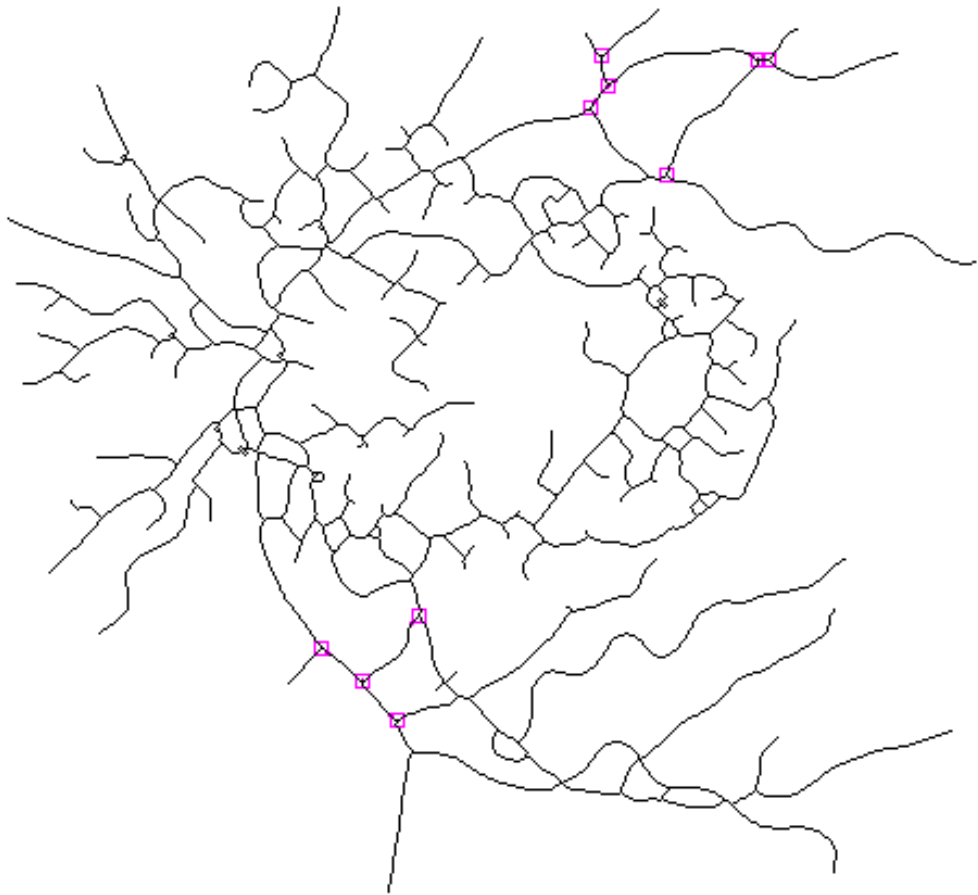
Objectif : fusionner ces images pour enrichir l'information qu'elles contiennent



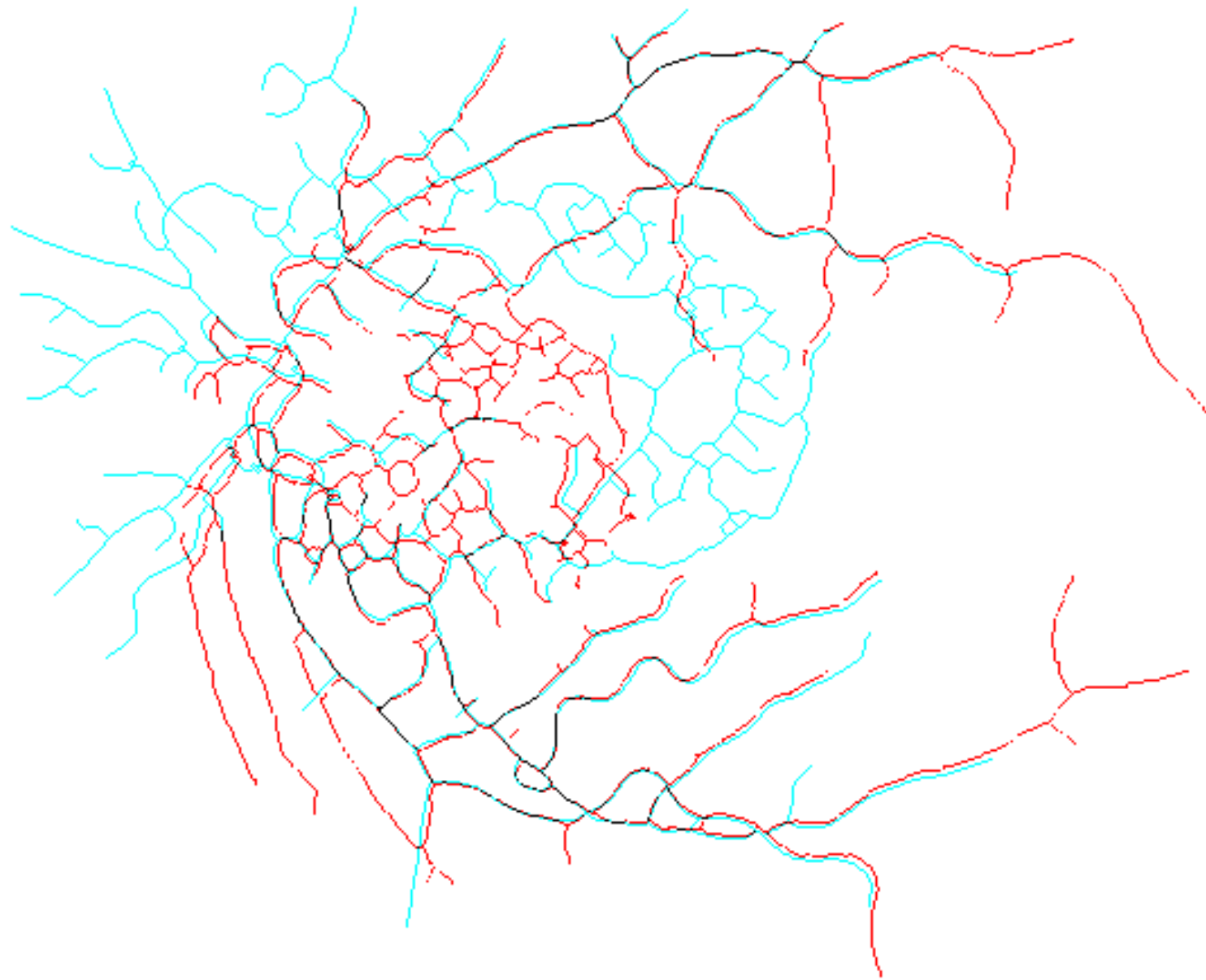
Exemple en ophtalmologie :
angiographie / fond de l'oeil



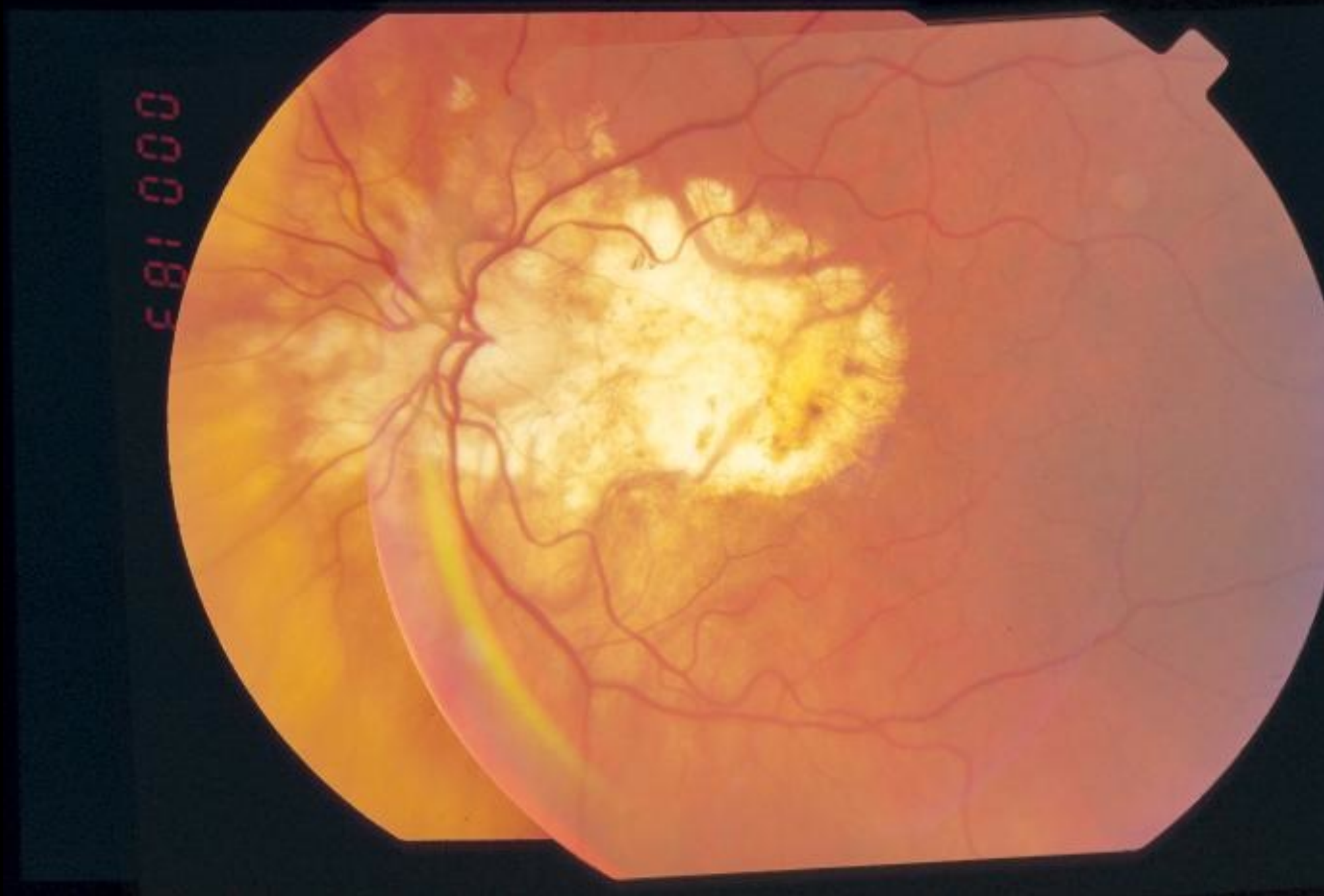
Recalage

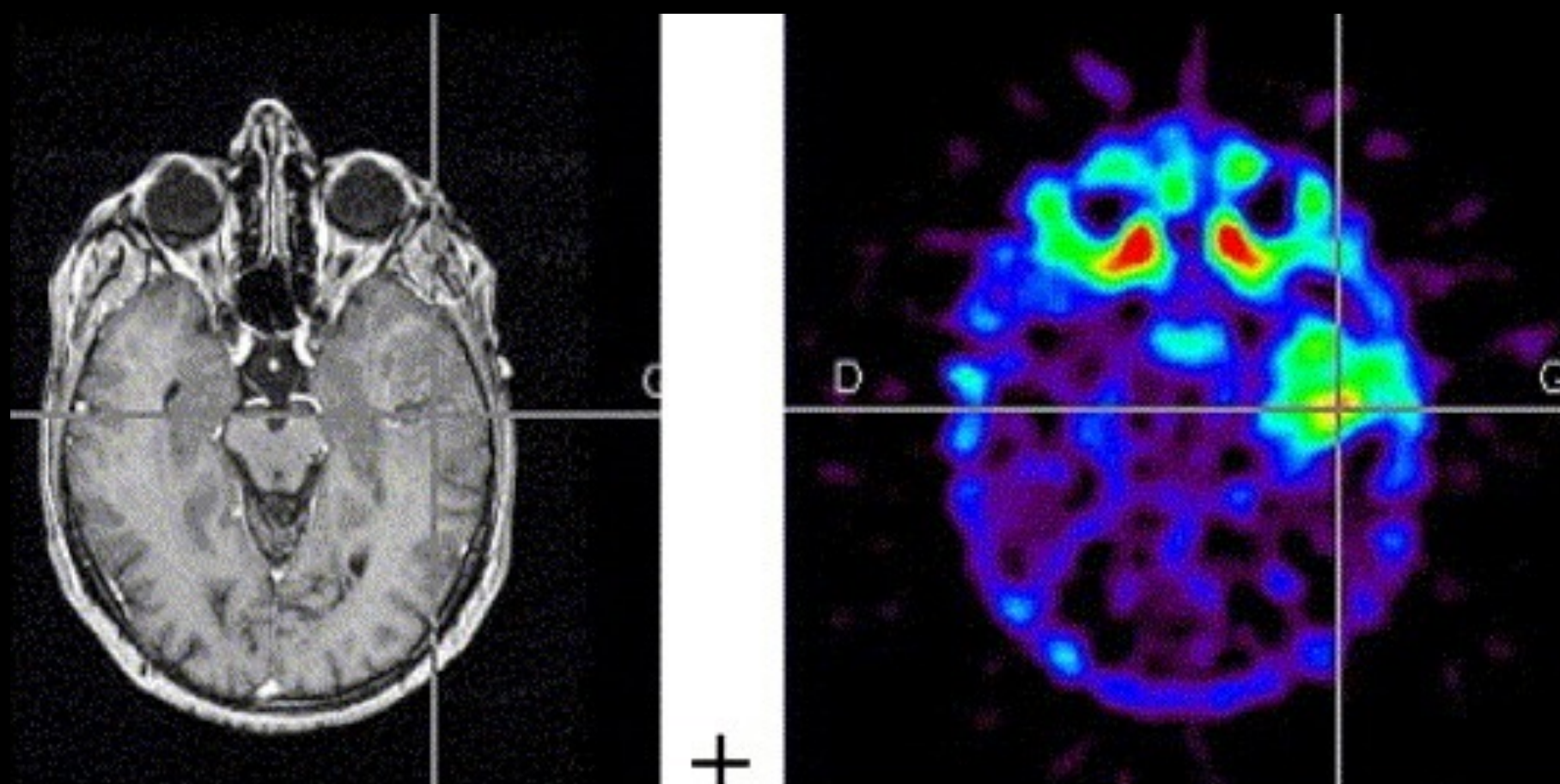


Recalage



Recalage





IRM

image SPECT recalée

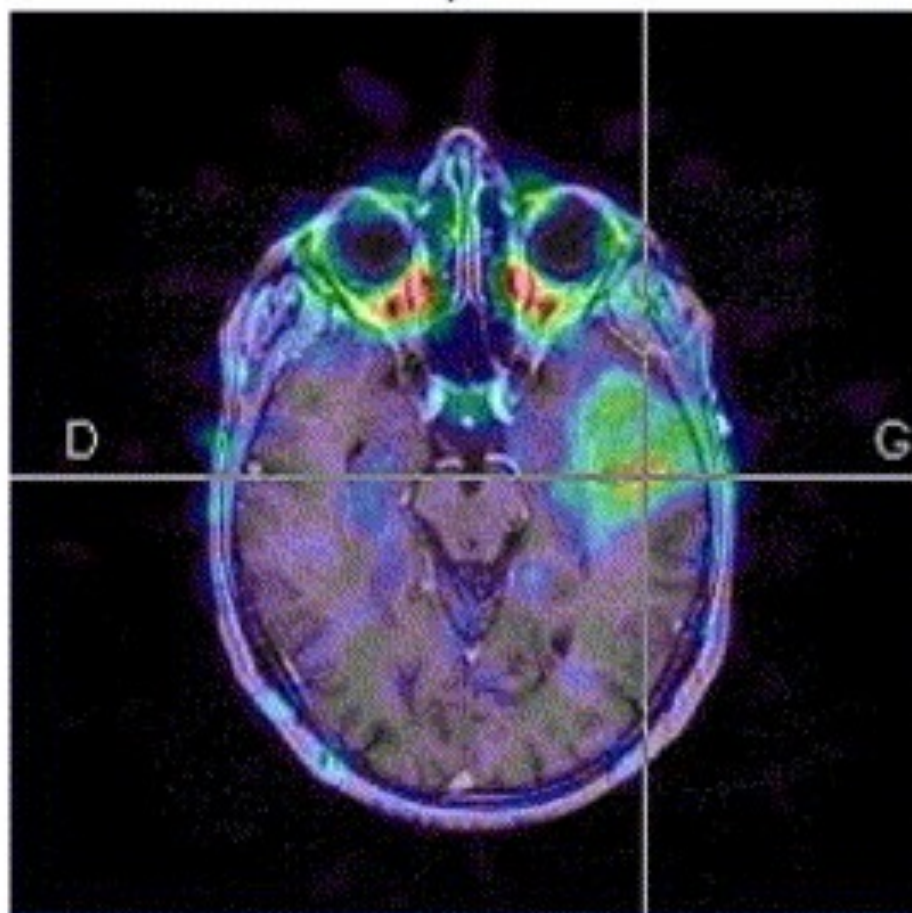
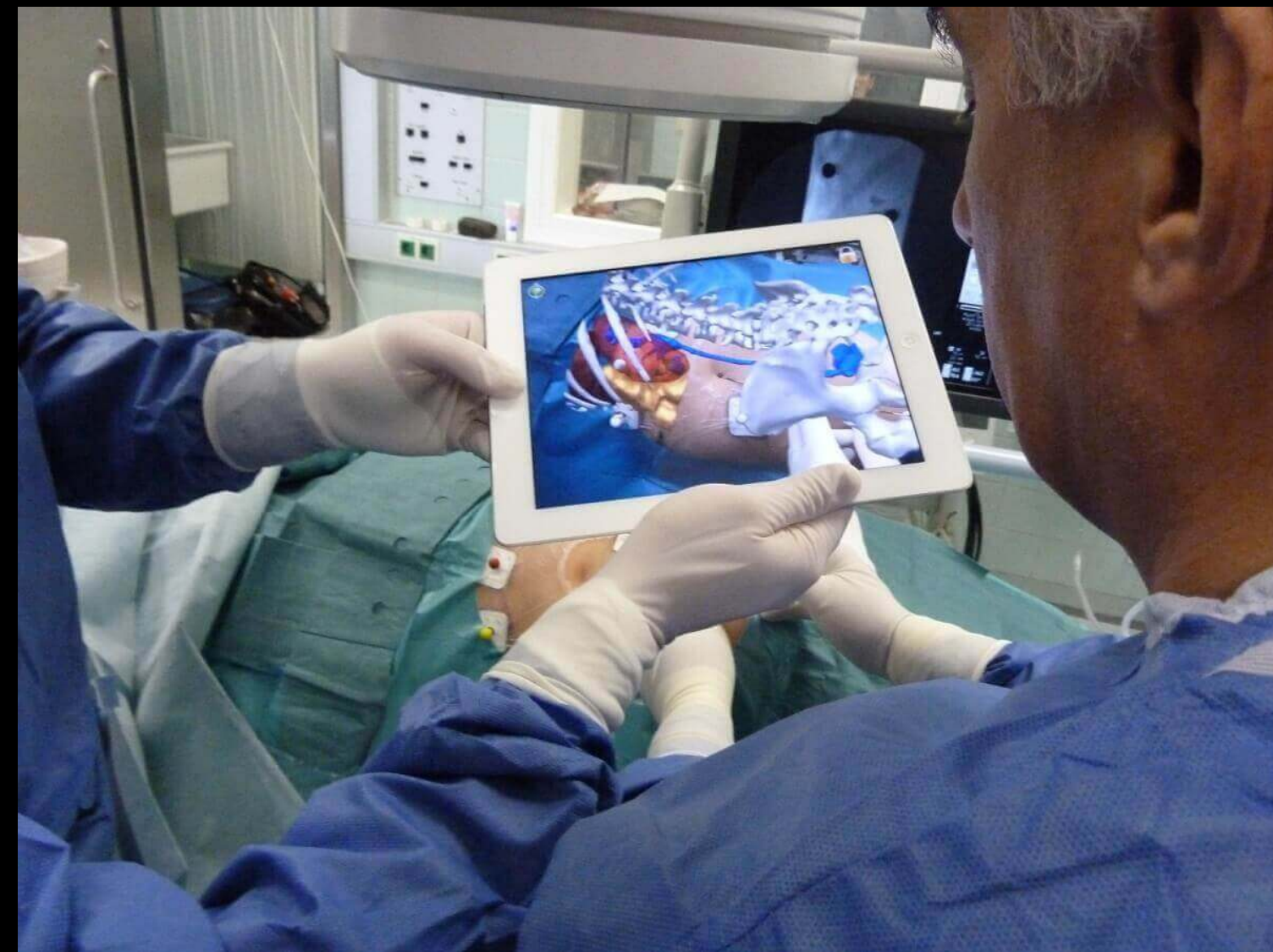


Image fusionnée

Recalage :
IRM + SPECT



Réalité augmentée



Réalité virtuelle

