

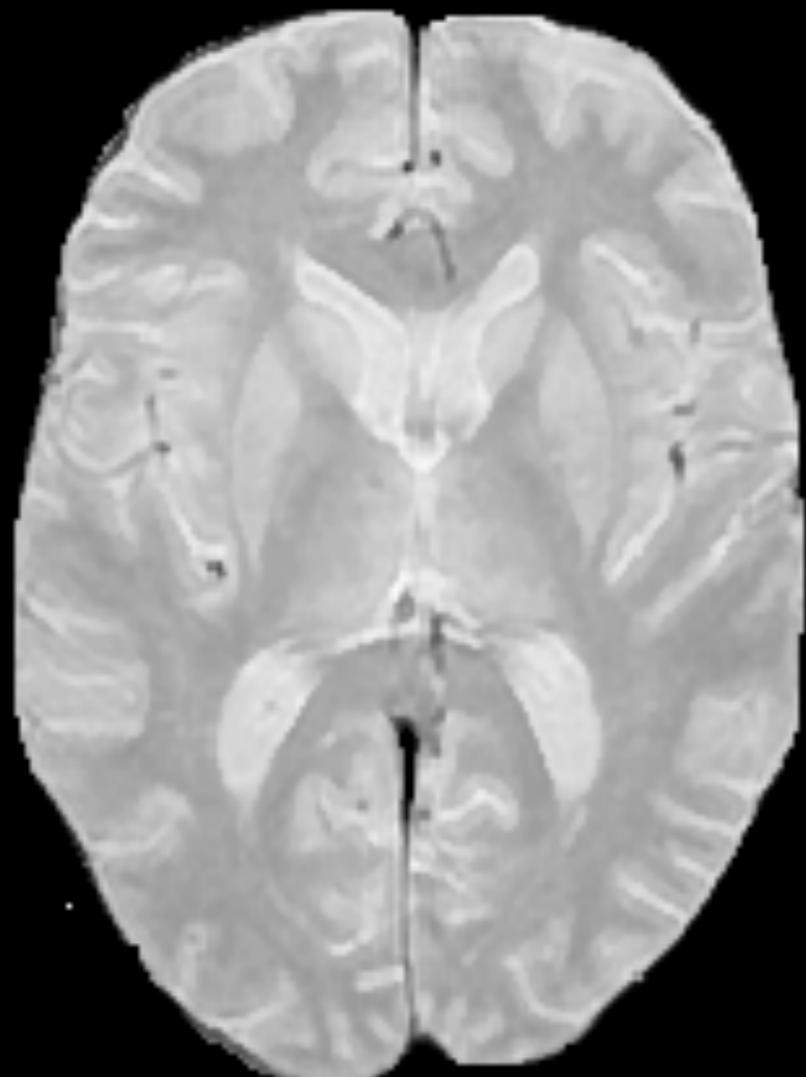
Traitement d'Images pour le Médical

Quelques exemples applicatifs

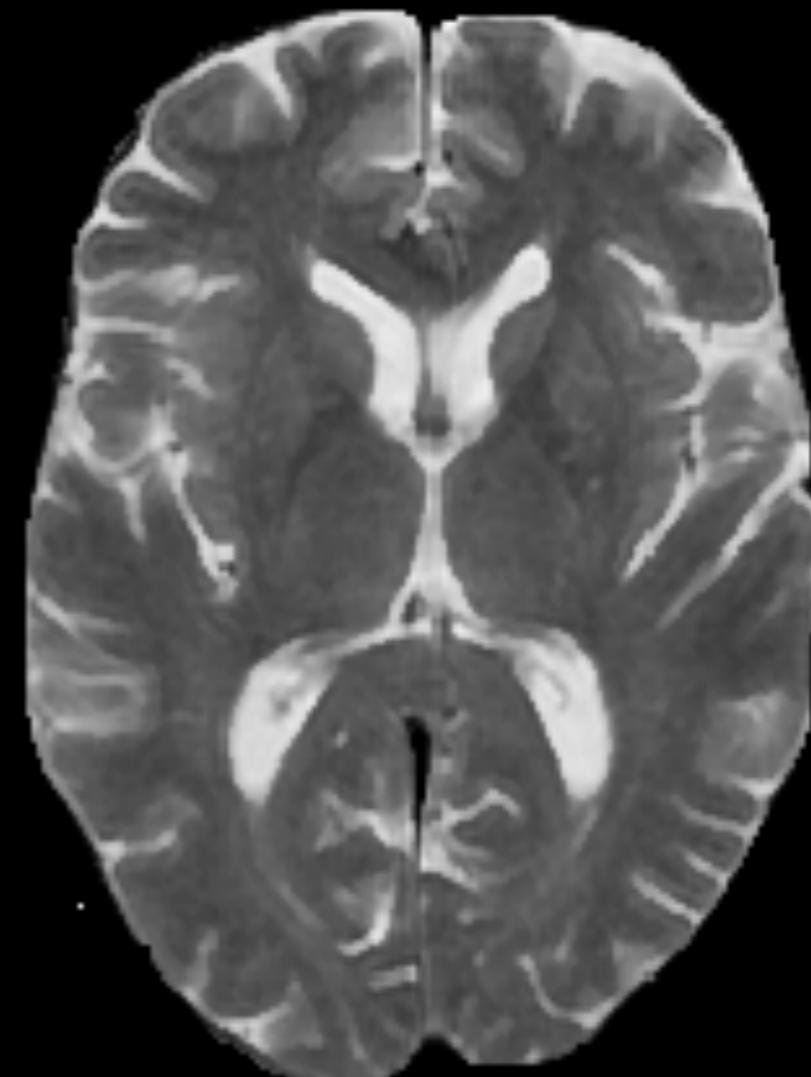
Introduction



Segmentation

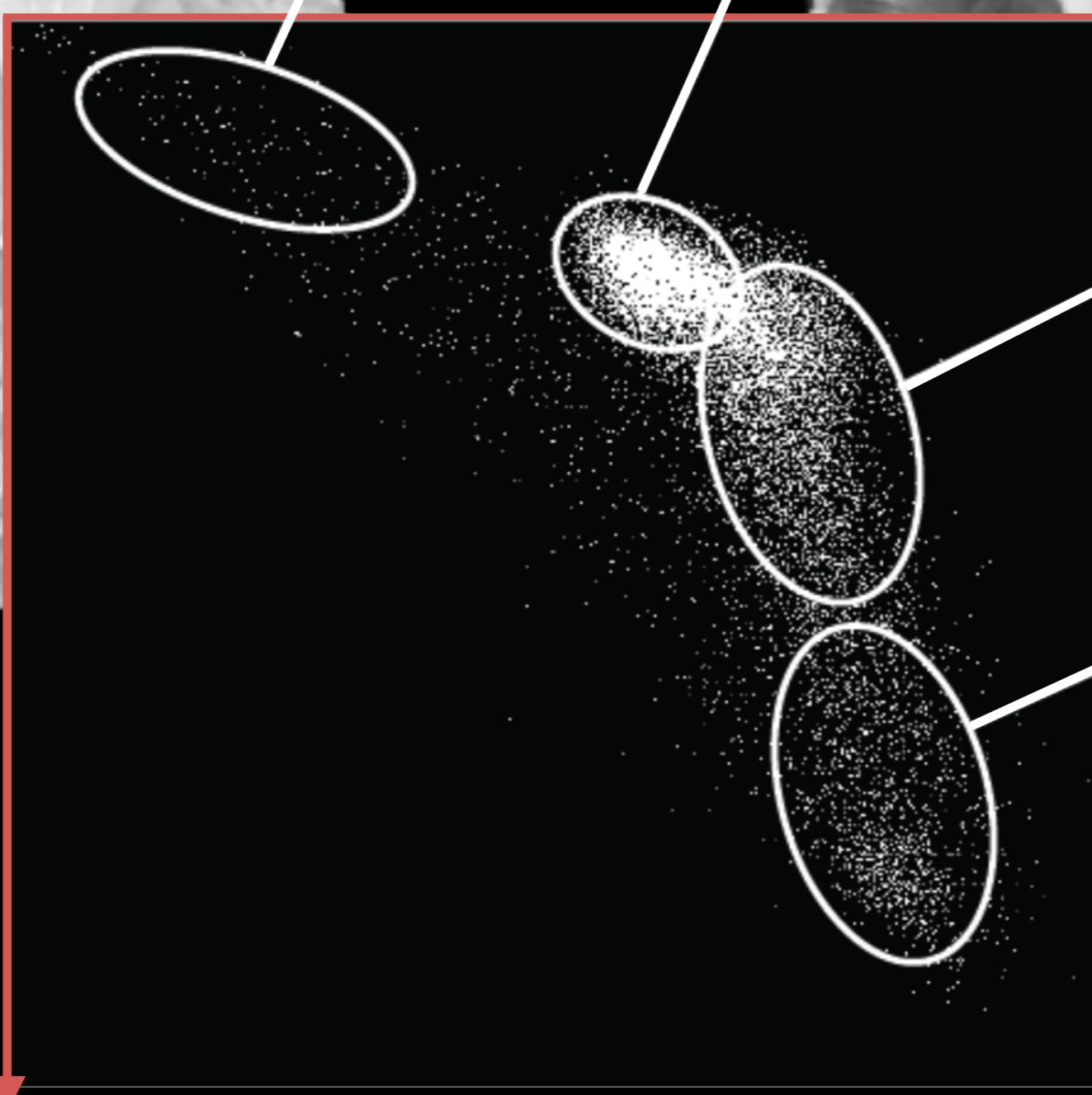
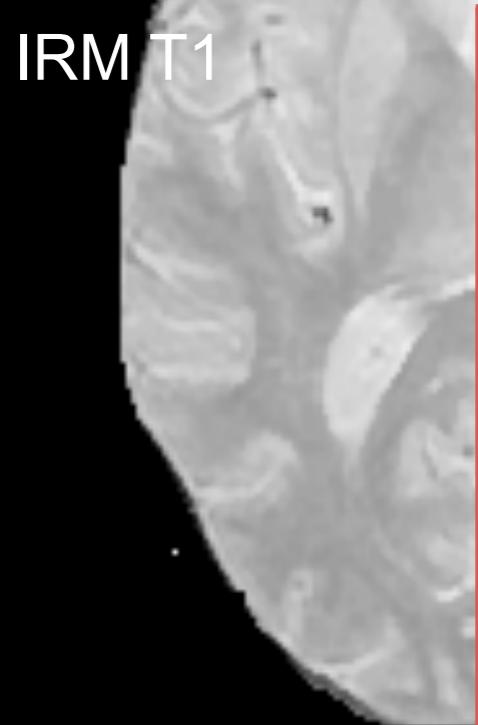
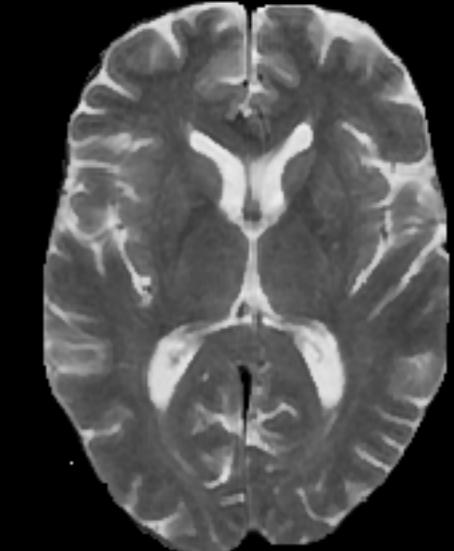
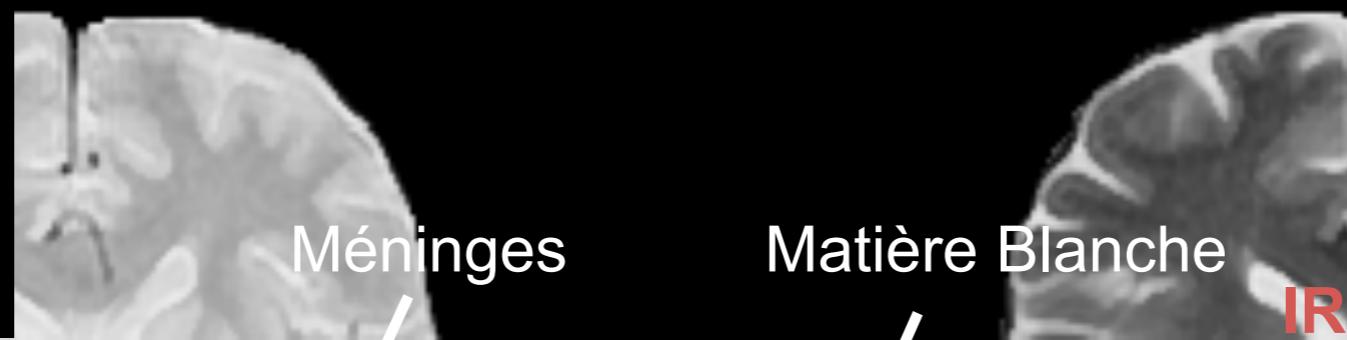
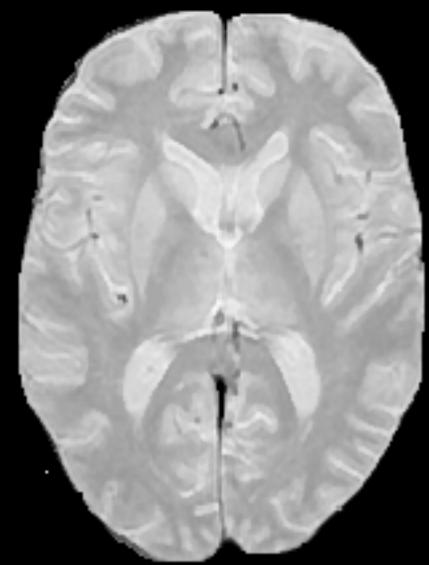


IRM en mode T1



IRM en mode T2

Segmentation



Liquide
Céphalo-Rachidien

IRM T2

IRM en

IRM T2

Segmentation



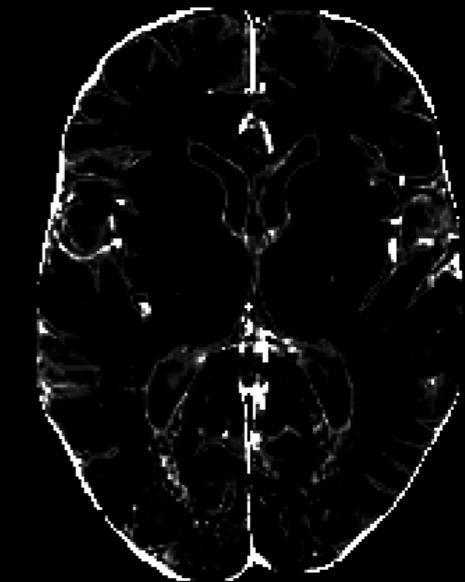
P(Matière grise)



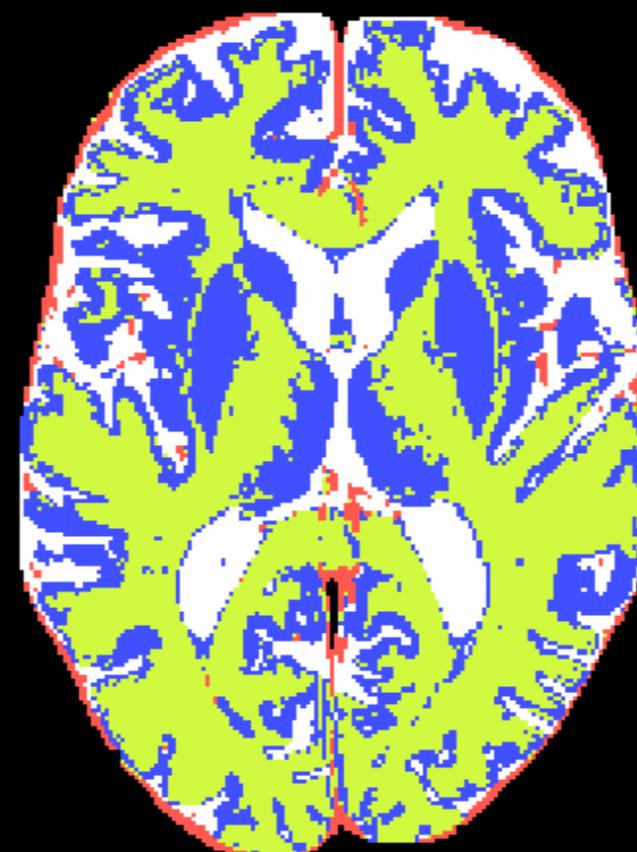
P(Matière blanche)



P(Liquide CR)



P(Méninges)



Carte de décision

Segmentation ... en 3D





Recalage

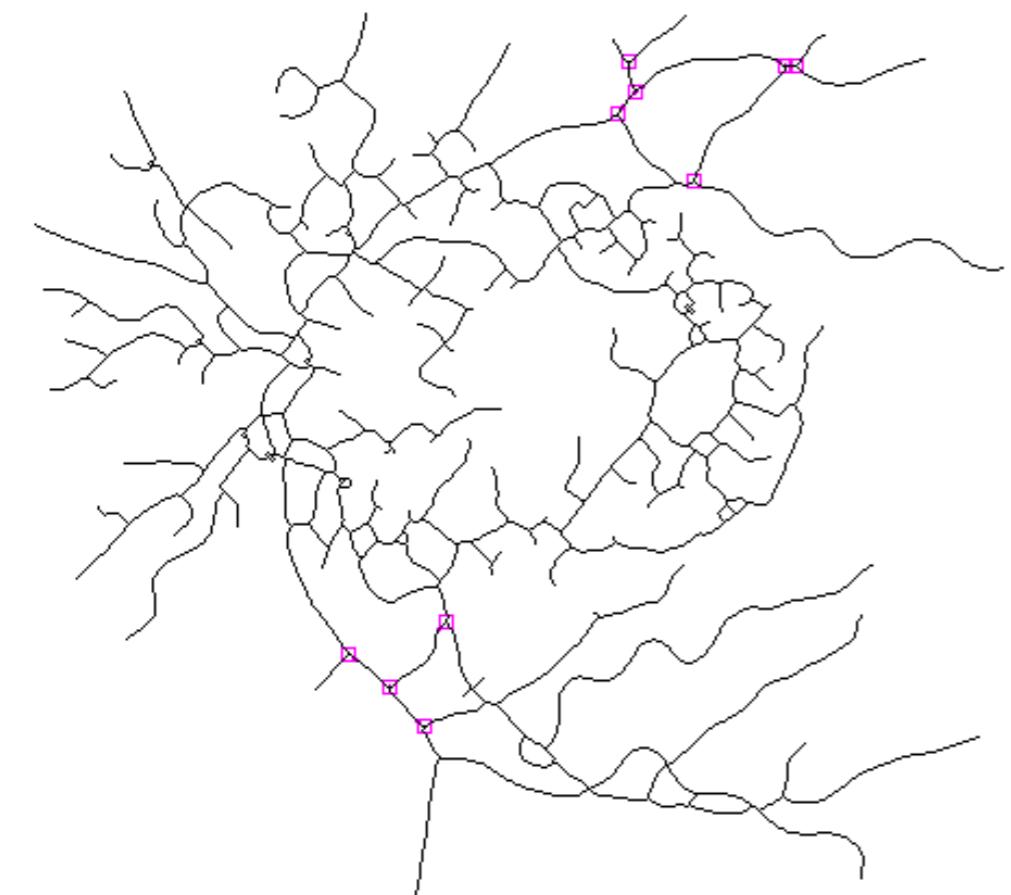
Problème : plusieurs images acquises dans des géométries différentes

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

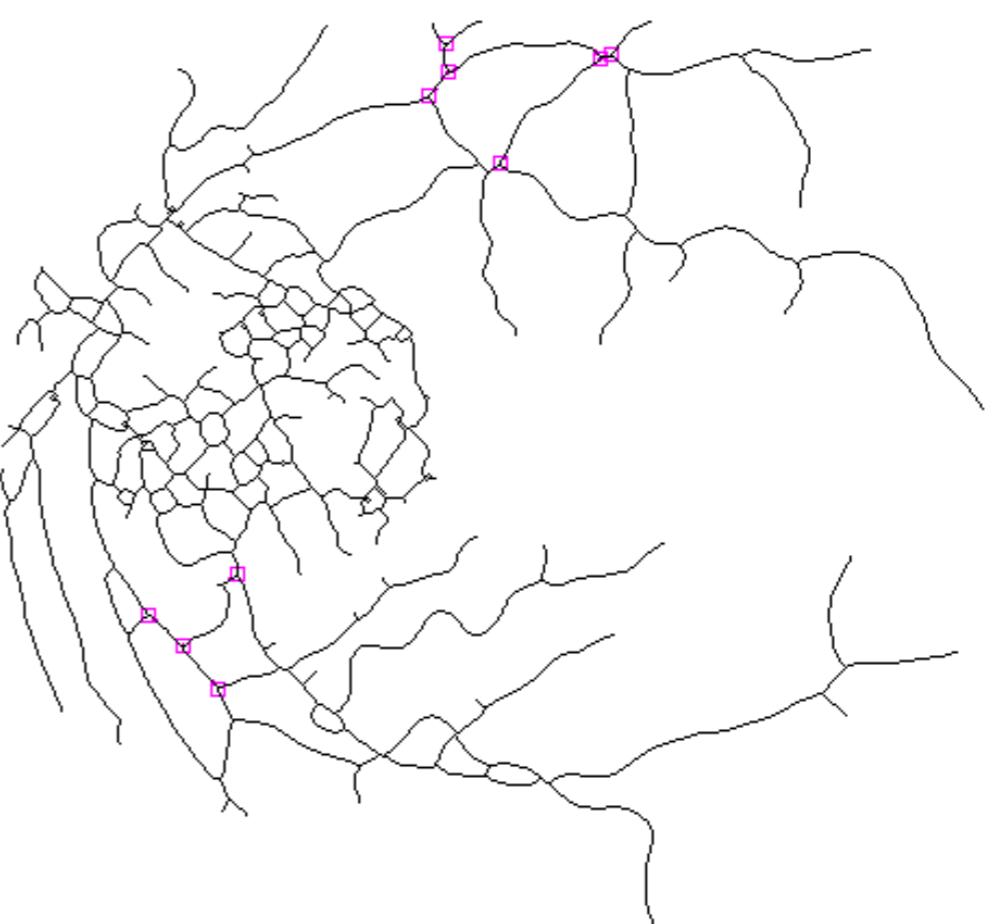
Exemple en ophtalmologie :

angiographie / fond de l'oeil

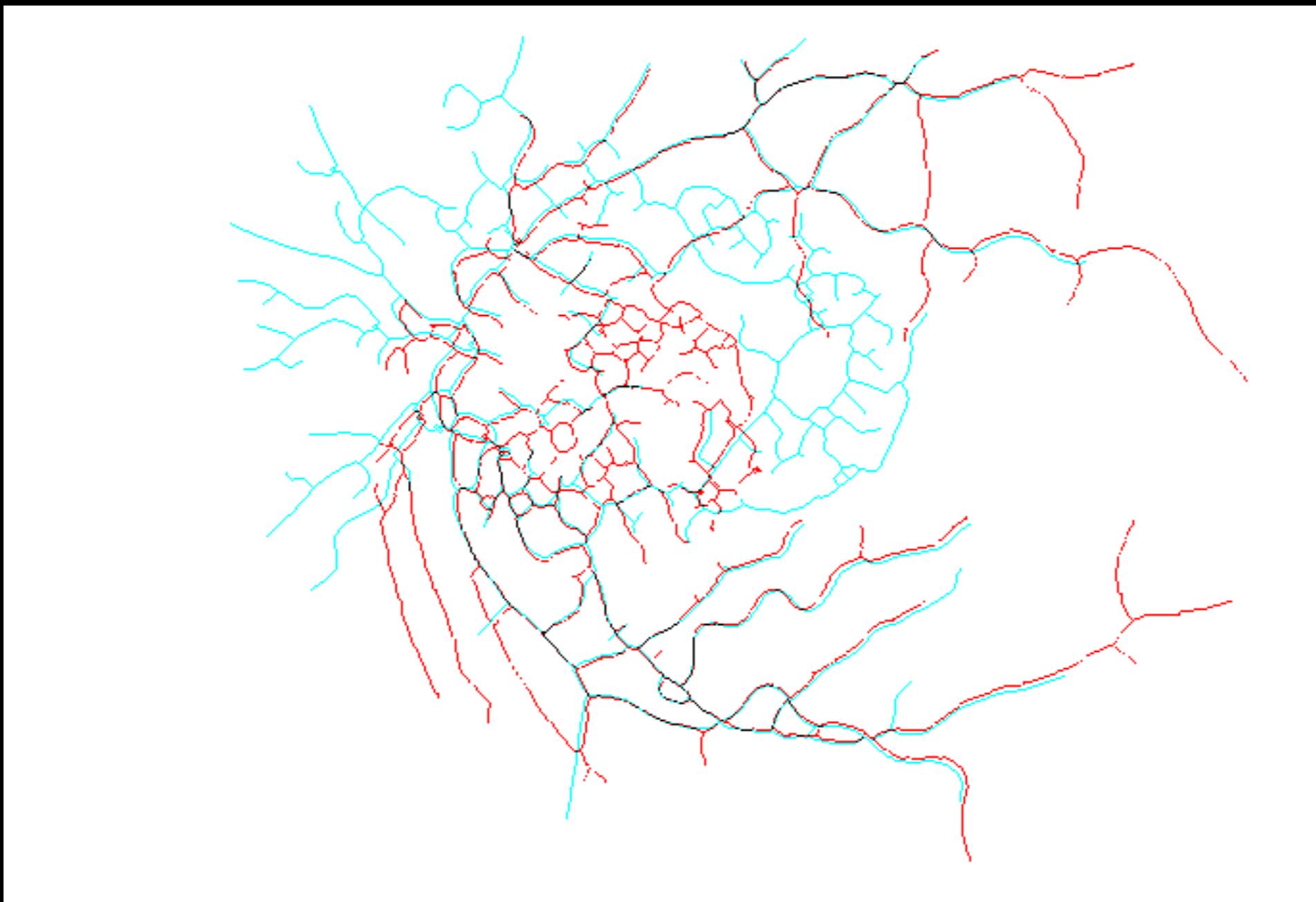




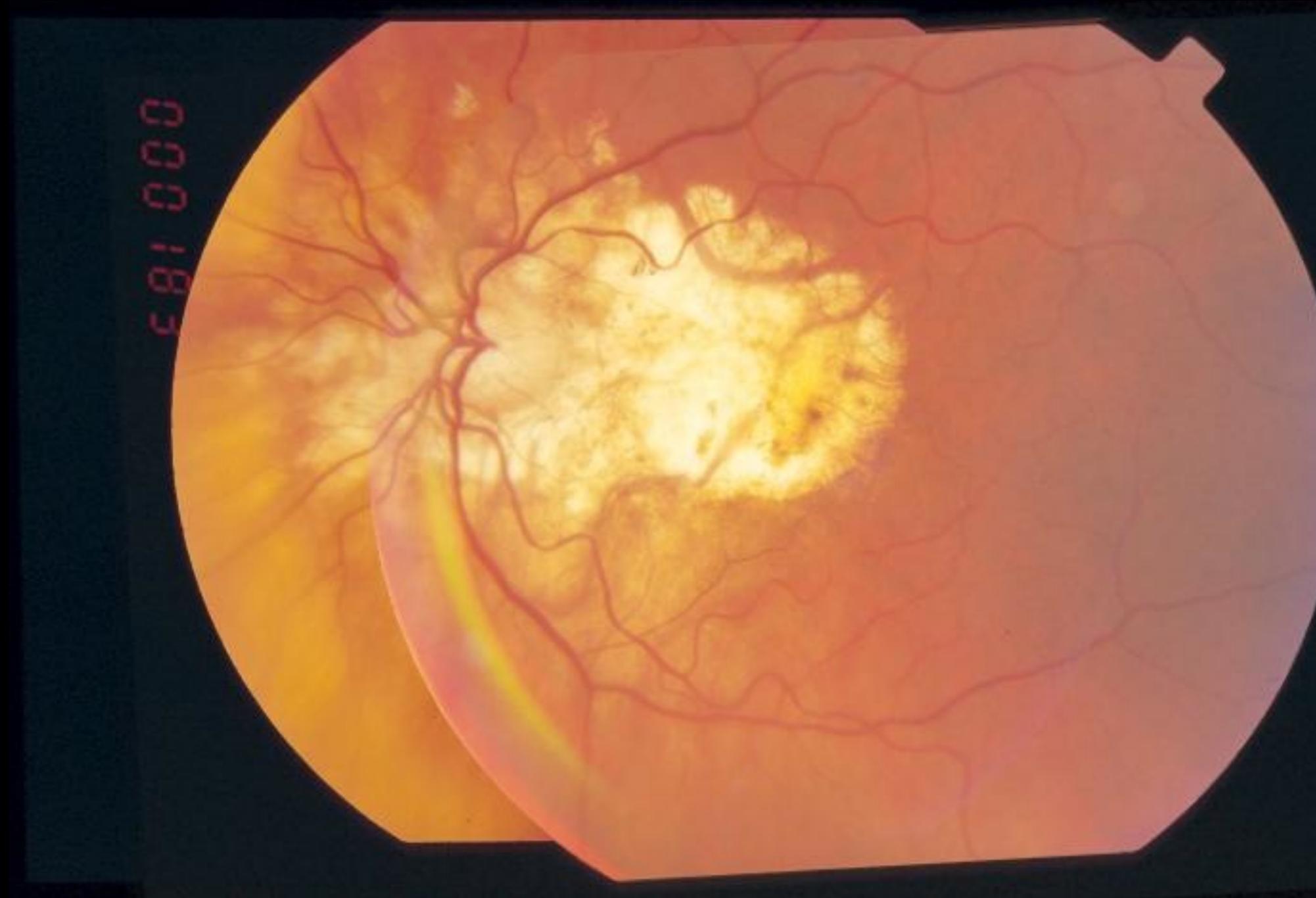
Recalage

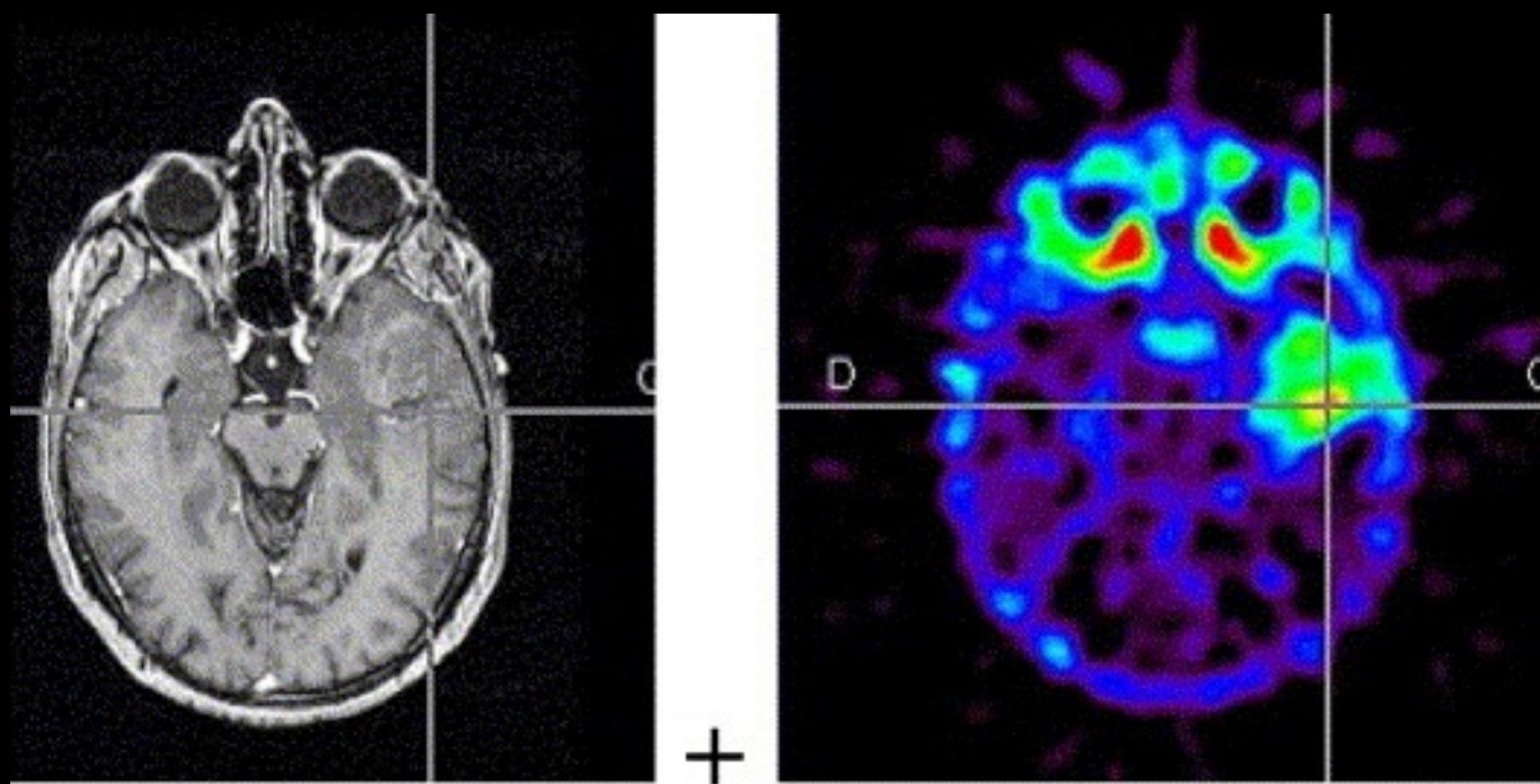


Recalage



Recalage





IRM

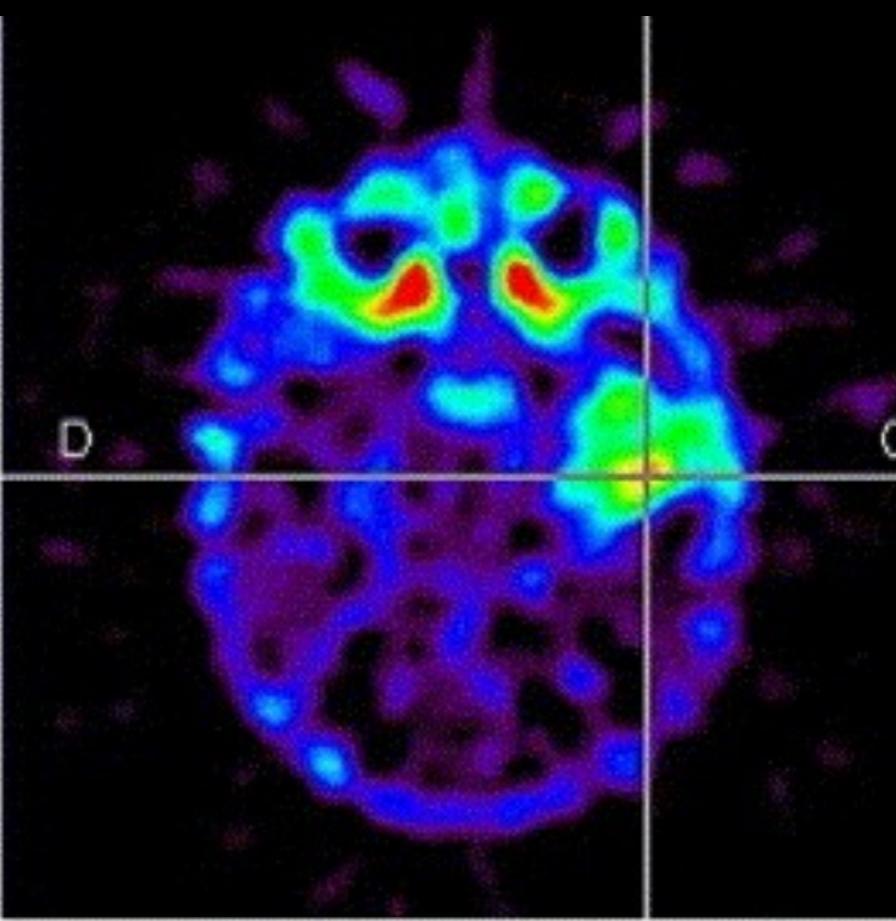


image SPECT recalée

Recalage :
IRM + SPECT

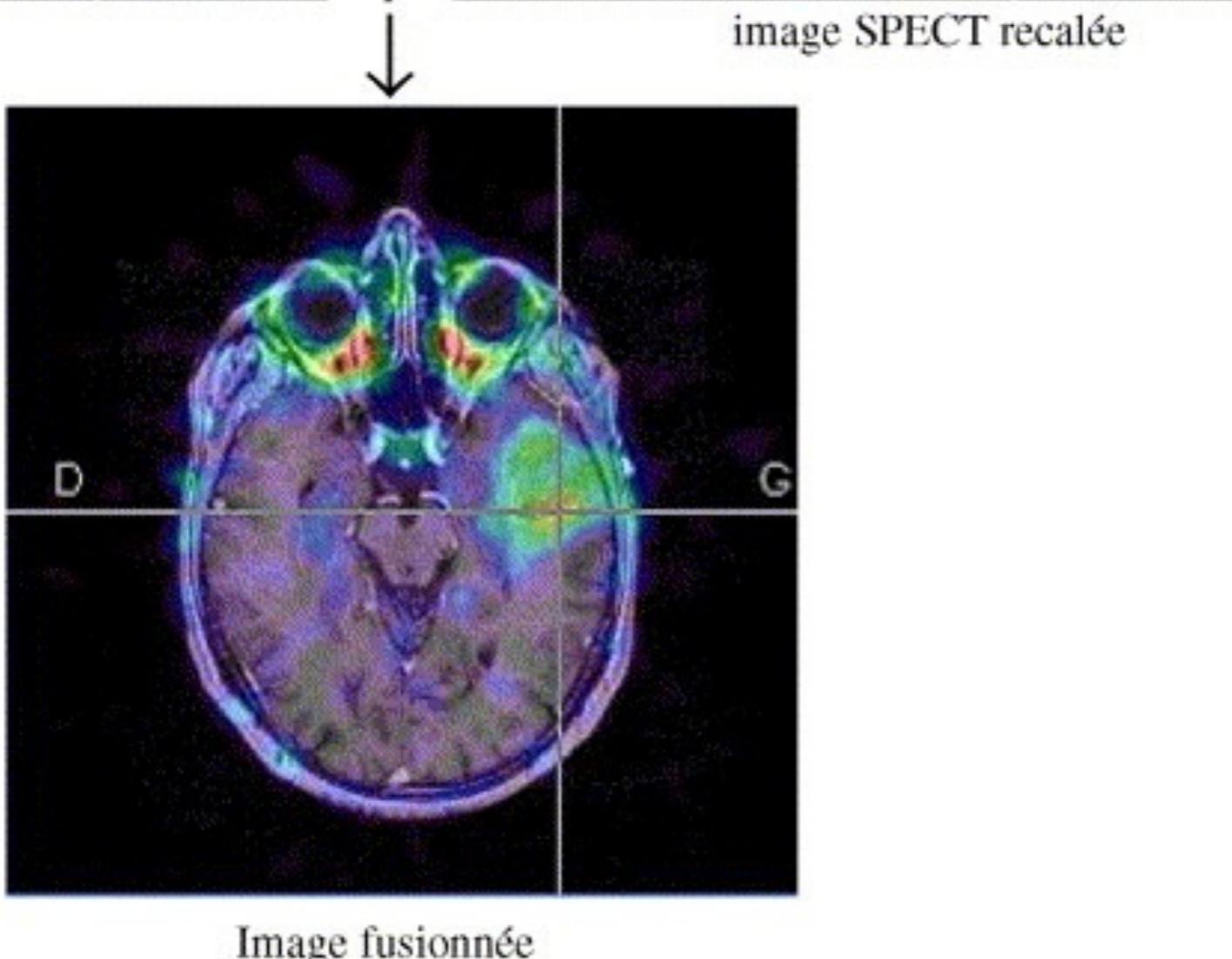
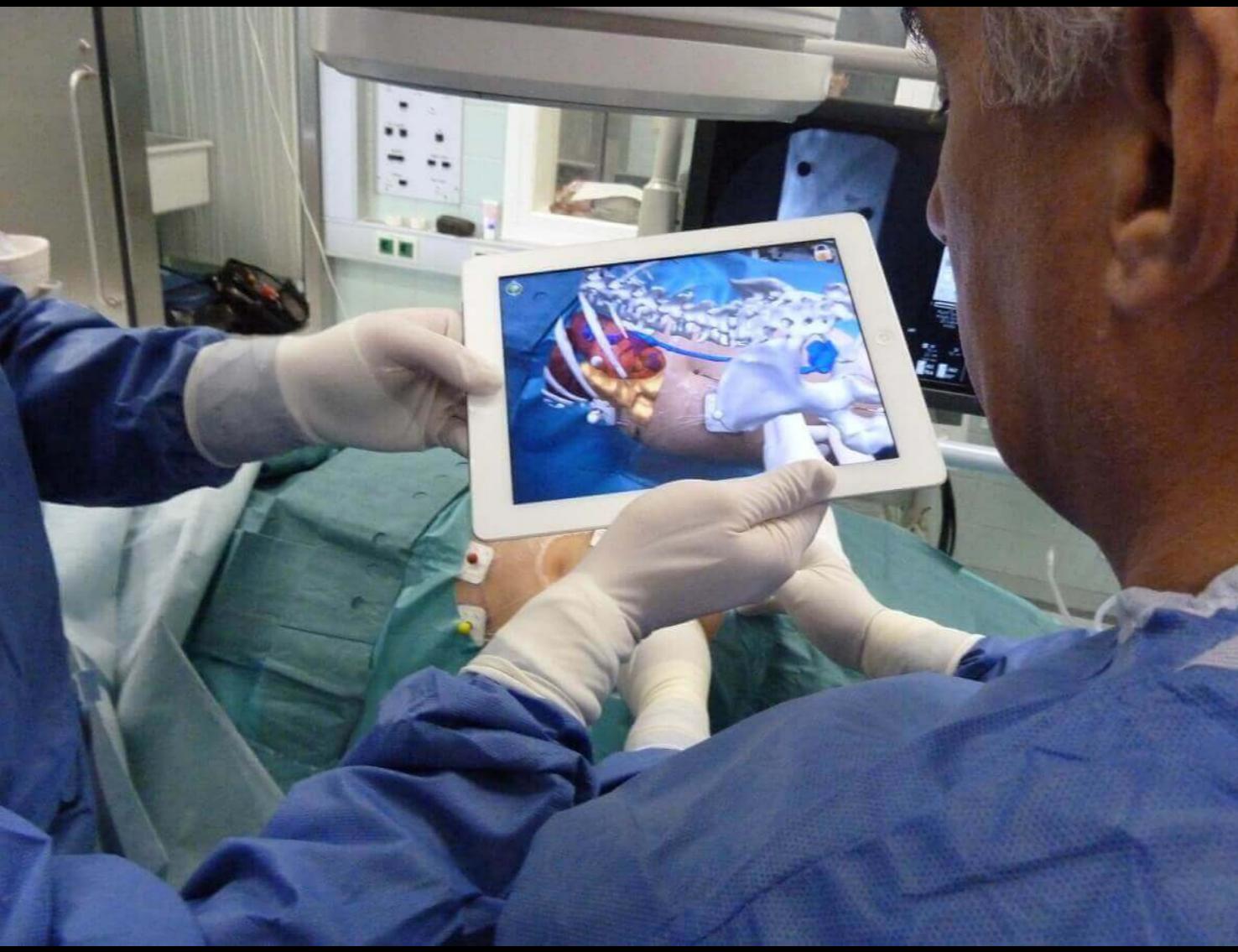


Image fusionnée



Réalité augmentée



ROwb0w

Réalité virtuelle

