MRI IACs (Internal Auditory Canals)

Updated 03/22/25
Reviewed 05/14/25

Use IACs field-of-view (FOV) and angulations as in the images below.
The matrix for the axial CISS sequence must be squared in order to create coronal CISS reconstructions.
Notify a Radiologist if there is a brain abnormality to see if additional sequences are needed.
Go to MRIMaster.com for a guide of proper positioning.

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	gap (mm)	first slice	Field of View
T1	T1 SAG	sag	no	5	2	left	whole brain
FLAIR	FLAIR AX	ax	no	5	1.5	base	
T1	T1 AX	ax	no	3	0	base	IACs
T1	T1 COR	cor	no	3	0	back	
CISS	CISS AX	ax	no	1	0.2	base	

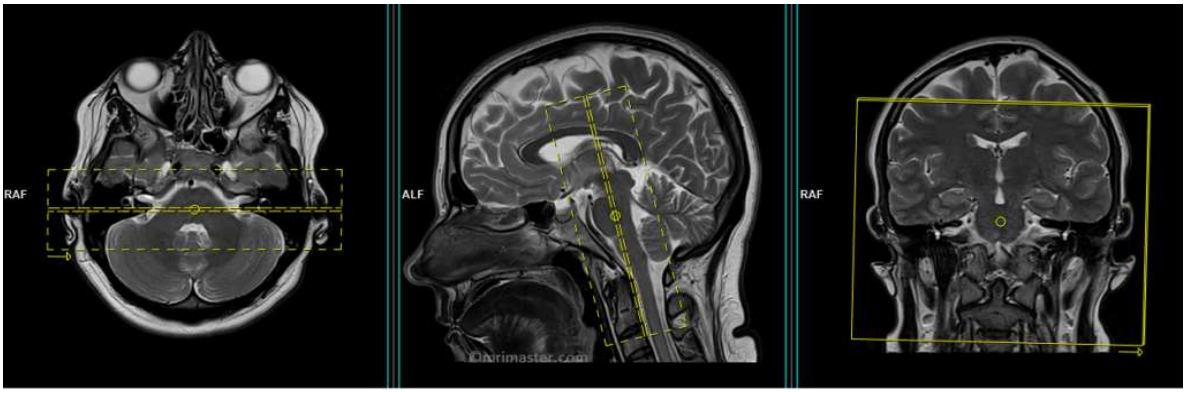
CONTRAST - 2 mL/sec standard dose gadolinium (0.2 mL/kg Clariscan or 0.1 mL/kg Gadavist) followed by 20 mL saline flush.

T1	T1 FS POST AX	ax	yes	3	0	base	IACs
T1	T1 FS POST COR	cor	yes	3	0	back	
T1	T1 POST AX	ax	no	5	1.5	base	whole brain

RECONS:

sagittal MPR reconstructions of the axial CISS sequence (1.0 mm thick by 0.2 mm spacing)

axial FOV and angulation (parallel to the line along the right and left IACs in the coronal plane)



coronal FOV and angulation (parallel to the line along the right and left IACs in the axial plane)