

Tygerberg Hospital – Stellenbosch Cochlear Implant Unit: Pre-operative Imaging Checklist

Date:

Surgeon:

Radiologist:

Audiologist:

CT SCAN: ANATOMY:

Skin Thickness:		External Auditory Canal		Mastoid air cell system			
RHS: _____ mm	RHS: Perpendic <input type="checkbox"/>	Sloping <input type="checkbox"/>	Aerated <input type="checkbox"/>	Diploic <input type="checkbox"/>	Sclerotic <input type="checkbox"/>	Opaque <input type="checkbox"/>	
LHS: _____ mm	LHS: Perpendic <input type="checkbox"/>	Sloping <input type="checkbox"/>	Aerated <input type="checkbox"/>	Diploic <input type="checkbox"/>	Sclerotic <input type="checkbox"/>	Opaque <input type="checkbox"/>	

Mastoid access			Sigmoid sinus position			
RHS: Aeration -> access:	Good <input type="checkbox"/>	Adequate <input type="checkbox"/>	Inadeqt <input type="checkbox"/>	Posterior <input type="checkbox"/>	Anterior <input type="checkbox"/>	V Ant <input type="checkbox"/>
LHS: Aeration -> access:	Good <input type="checkbox"/>	Adequate <input type="checkbox"/>	Inadeqt <input type="checkbox"/>	Posterior <input type="checkbox"/>	Anterior <input type="checkbox"/>	V Ant <input type="checkbox"/>

Tympanic Membrane		Reason:		Middle Ear		Reason:	
RHS: Normal <input type="checkbox"/>	AbN <input type="checkbox"/>	_____		RHS: Normal <input type="checkbox"/>	AbN <input type="checkbox"/>	_____	
LHS: Normal <input type="checkbox"/>	AbN <input type="checkbox"/>	_____		LHS: Normal <input type="checkbox"/>	AbN <input type="checkbox"/>	_____	

Posterior Tympanotomy		Dense:		Size: _____ mm		RW access: _____ % _____ ° angle	
RHS: Aerated: <input type="checkbox"/>	Dense: <input type="checkbox"/>	Size: _____ mm	RW access: _____ % _____ ° angle				
LHS: Aerated: <input type="checkbox"/>	Dense: <input type="checkbox"/>	Size: _____ mm	RW access: _____ % _____ ° angle				

Round Window		Angulation: Axial:		Post <input type="checkbox"/>		Ant <input type="checkbox"/>		Sagittal:		_____ ° Inf	
RHS: Overhang: _____ %	Angulation: Axial:		_____ °	Post <input type="checkbox"/>	Ant <input type="checkbox"/>	Sagittal:		_____ °	Inf		
LHS: Overhang: _____ %	Angulation: Axial:		_____ °	Post <input type="checkbox"/>	Ant <input type="checkbox"/>	Sagittal:		_____ °	Inf		

Cochlear rotation: line off 180° to basal turn			
RHS: _____ °	Rotated towards sagittal <input type="checkbox"/>	Rotated towards coronal <input type="checkbox"/>	
LHS: _____ °	Rotated towards sagittal <input type="checkbox"/>	Rotated towards coronal <input type="checkbox"/>	

Cochlear diameter:	
RHS: <input type="text"/> mm	LHS: <input type="text"/> mm

Cochleo-Vestibular form		Classification: _____	
RHS: Normal <input type="checkbox"/>	AbN: <input type="checkbox"/>	Classification: _____	
LHS: Normal <input type="checkbox"/>	AbN: <input type="checkbox"/>	Classification: _____	

Cochlear Patency		Ossification: Partial <input type="checkbox"/>		Site: _____		Total <input type="checkbox"/>	
RHS: ST Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				
RHS: SV Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				
LHS: ST Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				
LHS: SV Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				

Vestibular Patency		Ossification: Partial <input type="checkbox"/>		Site: _____		Total <input type="checkbox"/>	
RHS: Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				
LHS: Normal <input type="checkbox"/>	Ossification: Partial <input type="checkbox"/>	Site: _____	Total <input type="checkbox"/>				

Internal Auditory Canal Size / Form			
RHS: Normal (>3mm) <input type="checkbox"/>	Small(=/<3mm) <input type="checkbox"/>	Bulbous? <input type="checkbox"/>	Comment _____
LHS: Normal (>3mm) <input type="checkbox"/>	Small(=/<3mm) <input type="checkbox"/>	Bulbous? <input type="checkbox"/>	Comment _____

Cochlear Aqueducts		Vestibular Aqueducts	
RHS: Normal <input type="checkbox"/>	Large <input type="checkbox"/>	RHS: Normal <input type="checkbox"/>	Enlarged <input type="checkbox"/> _____ mm
LHS: Normal <input type="checkbox"/>	Large <input type="checkbox"/>	LHS: Normal <input type="checkbox"/>	Enlarged <input type="checkbox"/> _____ mm

Facial Nerves		Site & Reason: _____		CFD		N <input type="checkbox"/>		Y <input type="checkbox"/>	
RHS: N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Site & Reason: _____		CFD		N <input type="checkbox"/>		Y <input type="checkbox"/>	
LHS: N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Site & Reason: _____		CFD		N <input type="checkbox"/>		Y <input type="checkbox"/>	

Vascular Structures		Jug Bulbs N <input type="checkbox"/>		AbN: <input type="checkbox"/>		Emmissaries N <input type="checkbox"/>		AbN: <input type="checkbox"/>	
RHS: Carotids N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Jug Bulbs N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Emmissaries N <input type="checkbox"/>	AbN: <input type="checkbox"/>				
LHS: Carotids N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Jug Bulbs N <input type="checkbox"/>	AbN: <input type="checkbox"/>	Emmissaries N <input type="checkbox"/>	AbN: <input type="checkbox"/>				

MRI SCAN

Cochleo-Vestibular form Sennaroglu: Lab Apl/Rud Otocyst/Coch Apl a,b/Com Cav a,b/Coch Hypopl I,II,III,IV/Incomplete Partition I,II,III,IV

RHS: Normal AbN:
 LHS: Normal AbN:

Cochlear Fluid Signal

RHS:	ST Normal	<input type="checkbox"/>	↓ fluid signal:	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
	SV Normal	<input type="checkbox"/>	↓ fluid signal:	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
LHS:	ST Normal	<input type="checkbox"/>	↓ fluid signal:	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
	SV Normal	<input type="checkbox"/>	↓ fluid signal:	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>

Cochlear Contrast uptake

RHS:	ST Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
	SV Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
LHS:	ST Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
	SV Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>

Vestibular Fluid Signal

RHS:	Normal	<input type="checkbox"/>	↓ fluid signal	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
LHS:	Normal	<input type="checkbox"/>	↓ fluid signal	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>

Vestibular Contrast Uptake

RHS:	Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>
LHS:	Normal	<input type="checkbox"/>	↑ uptake	Partial	<input type="checkbox"/>	Site:	Total	<input type="checkbox"/>

INTERNAL AUDITORY CANAL CONTENTS:

Cochlear Nerve

RHS:	Normal	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Single CVN:	N size	<input type="checkbox"/>	Single CVN: Hypopl.	<input type="checkbox"/>	Absent CVN	<input type="checkbox"/>
LHS:	Normal	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Single CVN:	N size	<input type="checkbox"/>	Single CVN: Hypopl.	<input type="checkbox"/>	Absent CVN	<input type="checkbox"/>

Vestibular Nerve

RHS:	Sup V N	N	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Inf VN: N	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>
LHS:	Sup V N	N	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>	Inf VN: N	<input type="checkbox"/>	Hypopl.	<input type="checkbox"/>	Absent	<input type="checkbox"/>

Facial Nerve

RHS:	Normal	<input type="checkbox"/>	Hypoplastic	<input type="checkbox"/>	Absent	<input type="checkbox"/>
LHS:	Normal	<input type="checkbox"/>	Hypoplastic	<input type="checkbox"/>	Absent	<input type="checkbox"/>

BRAIN

Normal Abnormal Reason: _____

IMPLANT DECISION:

Pt. Candidacy? Yes No Reason: _____

Ear Candidacy:

RHS:	Otolo Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Radio Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Audic Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Vestil Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
LHS:	Otolo Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Radio Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Audic Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____
	Vestil Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Reason: _____

Ear chosen: RHS LHS Reason: _____

Is hearing / balance preservation a special aim?: Yes No
 Reason: _____

Implant Recommendation:

Make: _____

Model: _____

Reason: _____