




















# PHACON TEMPORAL BONE PATIENTS - OVERVIEW

Patient	Ref. No.	L	R					
				Auditory canal plastic surgery	Cochlea implantation	Bone conduction implants	Mastoidectomy	Tympanoscopy
SCHMIDT	TF-bc		✓			✓	✓	
	TF-bo	✓				✓	✓	
	TF-bx		✓			✓	✓	
	TF-bz	✓				✓	✓	
	TF-bq		✓			✓	✓	
	TF-bs	✓				✓	✓	
	TF-by		✓			✓	✓	
	TF-baa	✓				✓	✓	
	TF-br		✓			✓	✓	
	TF-bt	✓				✓	✓	
	TF-bah		✓			✓	✓	
	TF-bar	✓				✓	✓	
	TF-bae		✓			✓	✓	
	TF-bad	✓				✓	✓	
	TF-bab		✓			✓	✓	✓
	TF-bac	✓				✓	✓	✓
	TF-bap		✓		✓	✓	✓	✓
	TF-bax	✓			✓	✓	✓	✓
	TF-bav		✓		✓	✓	✓	✓
	TF-bay	✓			✓	✓	✓	✓
	TF-bca		✓		✓	✓	✓	✓
	TF-bcb	✓			✓	✓	✓	✓
	TF-bam		✓			✓		
	TF-ban	✓				✓		
	TF-bas		✓			✓		
	TF-bat		✓			✓		
	TF-baw	✓				✓		
	TF-bau		✓			✓	✓	
	TF-bbb		✓				✓	
	TF-bbf	✓					✓	
TF-bbc		✓			✓	✓		
TF-bbe	✓				✓	✓		
TF-baq		✓						
WAGNER	TF-dg		✓		✓	✓	✓	
	TF-dc	✓			✓	✓	✓	
	TF-do		✓		✓	✓	✓	
	TF-dp	✓			✓	✓	✓	
	TF-dh		✓		✓	✓	✓	
	TF-dd	✓			✓	✓	✓	
	TF-dk		✓		✓	✓	✓	







								
Middle ear surgery	Detailed middle ear	Sensors for trainers	Periosteum and skin	Round window membrane	Skin in auditory canal	Predrilled	Transparent cochlea	3 skin layers
			✓					
			✓					
	✓							
	✓							
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		✓				✓	✓	
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	✓		✓	✓				✓
			✓					✓
	✓							










# PHACON TEMPORAL BONE PATIENTS - OVERVIEW

Patient	Ref. No.	L	R	 Auditory canal plastic surgery	 Cochlea implantation	 Bone conduction implants	 Mastoidectomy	 Tympanoscopy
WAGNER	TF-di	✓			✓	✓	✓	
	TF-dl		✓		✓	✓	✓	
	TF-dj	✓			✓	✓	✓	
	TF-dn		✓		✓	✓	✓	
	TF-dm	✓			✓	✓	✓	
WINKLER	TF-gc		✓		✓	✓	✓	
	TF-gd	✓			✓	✓	✓	
	TF-ge		✓		✓	✓	✓	
	TF-gf	✓			✓	✓	✓	
KOHL	TF-ic		✓		✓	✓	✓	
	TF-id	✓			✓	✓	✓	
	TF-ie		✓		✓	✓	✓	
	TF-if	✓			✓	✓	✓	
SCHNEIDER	TF-eb		✓		✓	✓	✓	
	TF-ec	✓			✓	✓	✓	
	TF-ef		✓		✓	✓	✓	
	TF-eg	✓			✓	✓	✓	
	TF-ed		✓		✓	✓	✓	
	TF-ee	✓			✓	✓	✓	
KLEIN	TF-kc		✓		✓	✓	✓	
	TF-ka	✓			✓	✓	✓	
	TF-kf		✓		✓	✓	✓	
	TF-ke	✓			✓	✓	✓	
	TF-kd		✓		✓	✓	✓	
	TF-kb	✓			✓	✓	✓	
	TF-kg		✓		✓	✓	✓	
	TF-kh		✓		✓	✓	✓	









## ICON LEGEND

### APPLICATIONS

-  **Tympanoscopy:** These PHACON Temporal Bone Patient are covered with a skin in the auditory canal, which is directly connected to the flexible eardrum. Thus the eardrum can be released and the middle ear can be opened. After the procedure the eardrum can be folded back into its original position.
-  **Cochlear Implantation:** These PHACON Temporal Bone Patients have a detailed inner ear. Therefore these petrous bones are perfectly suited for training and demonstration of cochlear implantation. The electrode can be fully inserted into the Scala Tympani.
-  **Auditory canal plastic surgery:** The realistic reproduction of the external auditory canal and the middle ear make these PHACON Temporal Bone Patients suitable for an auditory canal plastic surgery.
-  **Mastoidectomy:** In these PHACON Temporal Bone Patients you can perform a mastoidectomy, where the mastoid process (mastoid) is removed and a common cavity is created from the dome of the middle ear (epitympanum), the mastoid and the auditory canal with removal of the posterior wall of the auditory canal.
-  **Implantation of bone conduction implants:** These PHACON Temporal Bone Patient are perfect for training and demonstration of a bone conduction implantation. For example, a screw can be screwed into the cranial bone with the appropriate force, or an implant bed can be milled out.
-  **Middle ear surgery:** These PHACON Temporal Bone Patients are equipped with an extra realistic middle ear by separate ossicles, connected by flexible tendons, and are therefore perfectly suited for middle ear surgery, e.g. stapesplasty.

 Middle ear surgery	 Detailed middle ear	 Sensors for trainers	 Periosteum and skin	 Round window membrane	 Skin in auditory canal	 Predrilled	 Transparent cochlea	 3 skin layers
✓	✓							
✓	✓	✓						
✓	✓	✓						
✓	✓			✓				
✓	✓			✓				
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	✓					✓	✓	
	✓							✓

### FEATURES

-  **Detailed middle ear:** The middle ear contains the tiny ossicles that connect the outer ear with the inner ear. In these models, the ossicles have a high resolution and are therefore particularly close to reality.
-  **Sensor for Trainers:** These models have detectable structures and can be used with PHACON trainers.
-  **Periosteum and skin:** These PHACON Temporal Bone Patients have a bone structure and a skin reconstruction.
-  **Transparent cochlea:** These PHACON Temporal Bone Patients have a transparent inner ear structures: cochlea and ductus semicircularis
-  **3 skin layers:** These PHACON Temporal Bone Patients are significant bigger and therefore not suitable with PHACON Temporal Bone Trainers/Assistents. Besides a special hardened bone they have a filigrane sewable skin over realistic layers of periosteum and fat.
-  **Skin in the auditory ear canal:** This PHACON Temporal Bone Patient is provided with skin in the ear canal (tympanomeatal flap).
-  **Predrilled:** These PHACON Temporal Bone Patients have predrilled mastoidectomy with grooves for electrode placement.
-  **Round window membrane:** In these PHACON Temporal Bone Patients the round window membrane is reproduced true to detail.