

## Supplementary tables

**Table S1 — Otologic Surgeries and Fitness to Dive**

<b>Surgery</b>	<b>Evidence references</b>	<b>Risks</b>	<b>Depth</b>	<b>Recommendation</b>
Tympanoplasty I	[8, 9, 13, 15, 36]	Comparable to healthy ear	Not specified	Fit after full healing (typically ≥3 months post-surgery)
PORP	[8, 9, 15]	Same as Type I	Not specified	Fit after complete healing
TORP	[8, 9, 15, 16]	Higher vulnerability to pressure stress	Individualized	Conditionally fit after functional assessment Avoid forceful equalization
Stapes surgery (stapedotomy/stapedectomy)	[8, 15, 16, 17, 22]	Theoretical Perilymphatic Fistula risk	Individualized	Conditionally fit after functional assessment Avoid forceful equalization
Mastoidectomy CWU	[8, 9, 15]	Similar to Type I	Not specified	Fit after complete healing
Mastoidectomy CWD	[8, 9, 15]	Ventilation / water exposure concerns	Generally considered contraindicated	Not fit in most cases
Canalplasty/Exostosis	[9, 36]	Equalization issues	Not specified	Fit if canal stable

**Table S2 — Cochlear Implants and Diving Safety**

<b>Source references</b>	<b>Implant</b>	<b>Pressure Evidence</b>	<b>Depth</b>	<b>Conclusion</b>
[30]	Various CI models	Repeated exposure; complications reported in some cases	Not specified	Device-related issues reported in a subset of cases
[23]	Clarion / MED-EL / Nucleus	Integrity up to ~6 ATA	~50 m (msw)	No structural failure reported
[26]	Combi40	68–89 dives	43 m	No device failure reported
[24]	Not specified	20 dives	28 m	Stable hearing reported
[25]	Various CI models	Stable impedances	Not specified	No pressure-related device issues reported
[27]	Digisonic SP/EVO	3 bar	~30 m (msw)	Manufacturer-stated limit
[8]	General CI guidance	Clinical recommendations	Not specified	Conditional clearance with precautions
[28]	All models	Manufacturer-stated limit	50 m (msw)	Manufacturer-stated limit

**Table S3 — Diving Guidance and Supporting Evidence**

Source references	Recommendation	Evidence
[14]	Tympanoplasty: fit if TM stable; Mastoidectomy: typically 8-12 weeks before return	DAN FAQs
[24]	Cochlear implant: pressure tolerance up to ~3.8 ATA under experimental conditions	Experimental study
[5]	Overview of barotrauma mechanisms and clinical management	HNO review
[4]	Overview of barotrauma physiology	Clinical reference

Notes: Depths are reported as stated in the source; when not specified, 'Not specified' is shown. Approximate depth equivalents are expressed in meters of sea water (msw) when applicable. Manufacturer-stated limits refer to device integrity and do not substitute for individualized medical fitness-to-dive assessment.

Abbreviations: CI, cochlear implant; CWU/CWD, canal wall up/down mastoidectomy; PORP/TORP, partial/total ossicular replacement prosthesis; TM, tympanic membrane; ATA, atmospheres absolute; DAN, Divers Alert Network.

Tables S1–S3 summarize representative procedure-specific evidence included in the review. Key representative sources are included in these tables, while additional eligible sources informed the overall interpretation of the evidence.