***Supplementary Material 3***

**A multimodal database for the collection of interdisciplinary audiological research data**

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This supplementary material includes tables with all the variables implemented in the database, their type and their possible values or categories.

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| **Epidemiological and demographic data** |
| Variable name | Type | Value |
| Age | Numerical |  |
| ID (NUHSA) | Numerical |  |
| Gender | Categorical | ManWoman |
| Passive patient | Categorical | ActivePassive |
| Postal code | Numerical |  |
| Habitat | Categorical | UrbanRural |
| Spanish nationality | Categorical | NoYes  |
| Other nationality | Categorical |  |
| Spanish ancestry | Categorical | NoYes |
| Other ancestry | Categorical |  |
| Assitance / family support | Categorical | NoYes |
| Lifestyle | Categorical | He/She lives aloneHe/She lives with his/her partnerHe/She lives with their sons/daughtersFamily unit |
| Laterality | Categorical | Left-handedRight-handedAmbidextrous |
| Language | Categorical | MonolingualMultilingual |
| Language knowledge | Categorical | SpanishCatalanBasqueGalicianValencianAraneseGermanArabicFrenchEnglishPortugueseOther |
| Regular work activity between 45 – 65 years | Categorical | NoYes |
| Housework | Categorical | NoYes |
| Number of years worked between 45 – 65 years | Numerical |  |
| Work activity | Categorical | Directors and managersScientific and intellectual technicians and professionalsTechnicians; support professionalsAccounting, clerical, administrative and other clerical workersCatering, personal, protective and sales service workersSkilled agricultural, livestock, forestry and fishery sector workersCraft and skilled workers in manufacturing and construction (except plant and machinery operators) Plant and machinery operators and assemblers Elementary occupations |
| **Educational level** |
| Variable name | Type | Values |
| Total years of education | Numerical | Sum of all years invested in education |

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| **Family medical history** |
| Variable name | Type | Values |
| Family hearing disorders | Categorical | NoYes |
| Family degree of hearing impairment | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |
| Family history of dementia | Categorical | NoMild cognitive impairmentEarly onset dementia [before 60-65 years]Dementia [Alzheimer's] |
| Family degree of dementia | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |
| Parkinsonism or other movement disorders | Categorical | NoYes |
| Family degree of movement pathology | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |
| Down's syndrome or other developmental disorders | Categorical | NoYes |
| Family degree of developmental disorder | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |
| Psychiatric Disease | Categorical | NoYes |
| Family degree of psychiatric disease | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |
| Huntington's disease | Categorical | NoYes |
| Family degree of Huntington’s disease | Categorical | First degree (father, mother, siblings)Second degree (uncle/aunts, grandparents...) |

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| **Personal medical history** |
| Variable name | Type | Values |
| Diabetes mellitus (DM) | Categorical | NoYes |
| Glucose | Numerical | X (mg/dL) |
| DM treatment | Categorical | DietOral anti-diabetics Insulin |
| DM control - Glycosylated haemoglobin (HbA1c) [<5.7% normal; 5.7 - 6.4% pre-diabetes; diabetes ≥6.5%]. | Numerical | X (%) |
| Hypertension (HBP) | Categorical | NoYes |
| HBP degrees | Categorical | Grade 1 (SBP 140 - 160mmHg and/or DBP 90 - 99mmHg)Grade 2 (SBP 160 - 180mmHg and/or DBP100 - 109mmHg)Grade 3 (SBP >180mmHg and/or DBP >110mmHg) |
| HBP treatment | Categorical | NoYes |
| HBP Control: Do you check your blood pressure at least every 2 years? | Categorical | Non-existentIrregularRegular |
| Dyslipidemia (Hypercholesterolemia) | Categorical | NoYes |
| Dyslipidemia (Hypertriglyceridemia) | Categorical | NoYes |
| Dyslipidemia control | Categorical | Non-existentIrregularRegular |
| Dyslipidemia treatment | Categorical | NoYes |
| Cancer | Categorical | NoYes |
| Cancer type | Categorical | NeuroblastomaLung cancerLymphomaSkin cancerMelanoma breast cancer Uterine cancer Neck cancerLeukemia Prostate cancer Colon cancerTesticular cancer |
| Start of cancer | Date | yyyy.mm.dd |
| End of cancer | Date  | yyyy.mm.dd |
| Cancer therapy | Categorical | NoYes |
| Type of cancer therapy | Categorical | RadiotherapyChemotherapyImmunotherapyProton therapyGene therapySurgery |
| Sleep disorder | Categorical | InsomniaExcessive daytime sleepinessSleep apneaCircadian alterationsSinusitis that interferes with sleep |
| Heart diseases | Categorical | Heart failureArrhythmiasStructural heart diseases [valvulopathies, cardiomyopathies, congenital heart diseases...]Arterial disease [aneurysms, arterial occlusion]Venous and lymphatic disease |
| Respiratory diseases | Categorical | AsthmaChronic bronchitisPneumoniaChronic obstructive pulmonary disease-COPDInterstitial diseasesLung neoplasms |
| Psychiatric disorders | Categorical | Anxious disorderSchizophreniaBipolar disorderDepressionMood disorder [depressive syndrome, bipolar disorder...]Psychotic disorderSubstance abuse disorderOther psychiatric disordersOther psychiatric illnesses |
| Treatment of psychiatric disorders (Antidepressants) | Categorical | NoYes |
| Treatment of psychiatric disorders (current or past treatment or occasional use of anxiolytics) | Categorical | NoYes |
| Neurological diseases | Categorical | IctusStrokeAneurysmEpilepsyDementiaBenign brain tumorMeningitisNeurodegenerative diseaseAutism or Asperger'sCerebrovascular diseaseAutoimmune diseaseHeadacheEpilepsySpinal diseases [hernias, spinal compressions, fractures...]Movement disorders [Parkinson's, multiple system atrophy, progressive supranuclear palsy, diffuse Lewy body disease, tremor, dystonia, tics, chorea, hemiballismus...]Motor plate diseases [myasthenia gravis, Eaton-Lambert syndrome, botulism] or Neuropathies [Guillain-Barré/ acute polyradiculoneuritis, chronic demyelinating polyneuropathy, diabetic neuropathy, hereditary neuropathies]Other neurological diseases (ataxias, myopathies, motor neuron diseases) |
| Metabolic diseases | Categorical | HypothyroidismVitamin B12 deficiencyOther vitamin deficiencieschronic liver diseaseOther metabolic disorders [uremia, amyloidosis..., others] |
| Coagulopathies | Categorical | Hemophilia A and BVon Willebrand diseaseInherited deficiencies of coagulation factorsDeficiency of vitamin K dependent factorsHereditary fibrinogen disorderDisseminated intravascular coagulationVitamin K deficiencyChronic liver disease |
| Thrombophilias | Categorical | Factor V Leiden mutationG2210A variant of the prothrombin geneProtein C deficiencyProtein S deficiencyAntithrombin deficiencyAntiphospholipid syndromeHyperhomocysteinemiaPlasminogen deficiency |
| Other diseases | Categorical | Sphincter controlArthritis or rheumatismOsteoporosisFibromyalgiaProstatePsoriasisLupusintestinal diseasesGraves' disease |
| Long-term COVID-19 sequelae | Categorical | Asthenia/general fatigueRespiratory sequelaeCardiological sequelaeNeurological sequelaePsychiatric sequelae |
| Tinnitus | Categorical | NoYes |
| Vertigo | Categorical | NoYes |
| Degree of physical disability (%) | Numerical | 0-100 |

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| **Physical exploration** |
| Variable name | Type | Values |
| Weight  | Numerical | X (Kg) |
| Height | Numerical | X (m) |
| Body mass index | Numerical | X (Kg/m2) |
| Waist | Numerical | X (cm) |
| Hip | Numerical | X (cm) |
| Waist-hip ratio (WHR) | Numerical | X (cm/cm)\*Normal if ≤0.80 for women and ≤0.95 for men |
| Resting heart rate | Numerical | X (beats per minute – bpm)\*Normal in adults if <100 bpm |
| Systolic blood pressure | Numerical | X (millimeters of mercury – mmHg)\*Normal in adults if < 140mmHg |
| Diastolic blood pressure | Numerical | X (millimeters of mercury – mmHg)\*Normal in adults if < 90mmHg |

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| **Pharmacological treatment** |
| Variable name | Type | Values |
| Drug name | Categorical |  |
| Dose | Numerical | Amount administered (g, mg and/or ml). |

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| **Lifestyle** |
| Variable name | Type | Values |
| Active smoking | Categorical | Non-smoker (if ≥ 1 year without smoking)Active smokerFormer smoker |
| Number of cigarettes per day | Numerical |  |
| Total years of smoking | Numerical |  |
| Tobacco index | Numerical | $$\frac{Daily tobacco consumption x years of smokiing}{20}$$Less than 10 none, 10-20 moderate, 21-40 intense, more than 41 high |
| Active alcoholism | Categorical | NoYesEx-drinker |
| Total number of years you have been drinking/drank | Numerical |  |
| Number of glasses of beer per week (1 glass is 200 ml and 10 g of alcohol) | Numerical |  |
| Number of glasses of wine per week (1 glass is 100 ml and 10 g of alcohol) | Numerical |  |
| Number of shots of liquor (whiskey, gin, anise,...) per week (1 shot is 25 ml and 10 g of alcohol) | Numerical |  |
| Number of glasses of liquor (whiskey, gin, anise,...) per week (1 glass is 50 ml and 20 g of alcohol) | Numerical |  |
| Partial amount of beer alcohol  | Numerical | Number of beer glasses x 10 |
| Partial amount of wine alcohol | Numerical | Number of wine glasses x 10 |
| Partial amount of alcohol liqueurs (shot) | Numerical | Number of shots x 10 |
| Partial amount of alcohol liqueurs (glasses) | Numerical | Number of glasses x 20 |
| Grams of alcohol per week | Numerical | Sum of partial amounts of alcohol consumed (grams) |
| Substance abuse | Categorical | NoYes |
| Sleep quality | Categorical | GoodRegularBad |

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| **Genetics** |
| Variable name | Type | Values |
| Presence of genetic alteration related to hearing loss | Categorical | NoYes |
| Genetic alteration related to hearing loss (type) | Categorical | Connexin 26 – GJB2Connexin 30 – GJB6Connexin 31 – GJB313q12 mutationX-linked non-syndromic deafness - POU3F4Wolframine – WFS1Another alteration |

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| **Speech therapy- Categories of Auditory Performance**  |
| Variable name | Type | Values |
| Detects ambient sounds | Categorical | NoYes |
| Responds to speech sounds (e.g., “come”) | Categorical | NoYes |
| Identifies environmental sounds | Categorical | NoYes |
| Discriminates some speech sounds without lip reading | Categorical | NoYes |
| Understands common phrases without lip reading | Categorical | NoYes |
| Understands a conversation without lip reading | Categorical | NoYes |
| Uses the phone with a known interlocutor | Categorical | NoYes |
| Total on the scale | Numerical |  |

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| **Audiology** |
| Variable name | Type | Values |
| Hearing loss | Type of hearing loss | Categorical | ConductiveNeurosensoryMixed |
| Hearing deprivation time (years) | Numerical | 0 -100 |
| Degree of hearing loss | Categorical | MildModerateSevereDeepCophosis |
| Etiology | Categorical | AutoimmuneAging (presbycusis)Non-syndromic geneticsSyndromic geneticsHyperbilirubinemia with exchange transfusionHypothyroidismNeonatal hypoxia/asphyxiaIatrogenicIdiopathicinfectiousNeurodegenerative Otological pathologyPrematurityacoustic traumaOtotoxicityHead traumaTumorVascularAssisted ventilation |
| Onset of deafness | Categorical | PrelocutivePostlocutivePerillocutive |
| Type of hearing aid device | Categorical | NoneHearing aidBone implantCochlear implant |
| Cochlear Implant brand | Categorical | CochlearMEDELAdvanced BionicsOticon Medical |
| Establishment: hereditary | Categorical | YesNo |
| Establishment | Categorical | Sudden Progressive |
| Audiometry | Hearing aid device | Categorical | NoneHearing aidBone implantCochlear implant |
| Contralateral masking | Categorical | NoYes |
| Masking intensity (dB HL) | Numerical | 0-120 |
| Type of stimulus | Categorical | Pure ToneWarble ToneNBWN |
| Transducer | Categorical | Insertion HeadphonesHeadsetBone headbandFree field |
| Pulsation | Categorical | UniquePulsatileContinuous |
| Hearing threshold at 250 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 500 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 1000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 2000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 3000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 4000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 6000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 8000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 10.000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 11.200 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 12.500 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 14.000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 16.000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 18.000 Hz (dB HL) | Numerical | 0:5:120 |
| Hearing threshold at 20.000 Hz (dB HL) | Numerical | 0:5:120 |
| Word test | Hearing aid type | Categorical | NoneHearing aidBone implantCochlear implant |
| Contralateral masking | Categorical | NoYes |
| Masking intensity (dB HL) | Numerical | 0-120  |
| Intensity (dB HL) | Numerical | 0-120  |
| Score | Numerical | 0-100 % |
| List | Categorical | MonosyllabicDisyllabicTrisyllabic |
| S/R ratio | Numerical |  |
| Hearing aid type | Categorical | NoneHearing aidBone implantCochlear implant |
| Rate score S/R 0 dB | Numerical | 0-100 % |
| Rate score S/R 5 dB | Numerical | 0-100 % |
| Rate score S/R 10 dB | Numerical | 0-100 % |
| Rate score S/R 15 dB | Numerical | 0-100 % |
| Rate score S/R 20 dB | Numerical | 0-100 % |
| SMRT test | Ripples per octave | Numerical |  |
| Hearing aid | Hearing aid type | Categorical | NoneHearing aidBone implantCochlear implant |
| Brand | Categorical | CochlearMEDELAdvanced Bionics (AB)Oticon Medical |
| Implant model (Cochlear) | Categorical | CI22MCI24M SeriesCI24RE SeriesCI500/Profile SeriesCI600/Profile Plus Series |
| Processor model (Cochlear) | Categorical | Nucleus 5 (CP810)Nucleus 6 (CP910)Nucleus 6 (CP920)Kanso (CP950)Nucleus 7 (CP1000)Nucleus 8 (CP1100)Kanso 2 (CP1150) |
| Electrode model (Cochlear) | Categorical | Profile Plus CI632Profile Plus CI622Profile Plus CI612Profile CI532Profile CI522Profile CI512Profile ABI541CI422CI25RE (CA)CI24RE (ST) |
| Coding strategy (Cochlear) | Categorical | ACE MP3000 SPEAK CIS  |
| Implant type (MED-EL) | Categorical | Synchrony ST Sonata Sonata 2Concerto Synchrony 2 Pulsar Combi 40+  |
| Processor type (MED-EL) | Categorical | Rondo Sonnet Opus 2 Rondo 2 Rondo 3 Sonnet 2  |
| Electrode type (MED-EL) | Categorical | Standard Flex28 Flexsoft Flex 26 Flex 24 Flex 20 Medium Compress Form 19 Form 24  |
| Coding strategy (MED-EL) | Categorical | FS4-pFS4FSPHDCIS |
| Implant type (AB) | Categorical | C1 CII HiRes 90K HiRes 90K Advantage HiRes UltraHiRes Ultra 3D  |
| Processor type (AB) | Categorical | Harmony Neptune Naida CI Q30 Naida CI Q70 Naida CI Q90 Chorus Marvel M90 Sky Marvel  |
| Electrode type (AB) | Categorical | Standard Radial Bipolar Enhanced Bipolar HiFocus HiFocus II HiFocus 1J HiFocus Hélix HiFocus MidScala HiFocus Slim J  |
| Coding strategy (AB) | Categorical | CIS MPS SAS HiRes P HiRes S HiRes P with Fidelity 120 HiRes S with Fidelity 120 Optima P Optima S  |
| Implant type (Oticon) | Categorical | Neuro ZTI  |
| Processor type (Oticon) | Categorical | Neuro 1 Neuro 2 Neuro 3  |
| Electrode type (Oticon) | Categorical | EVO Classic  |
| Coding strategy (Oticon) | Categorical | Crystallis Crystallis +  |
| CI fitting | Use (hours per day) | Numericalal | 0 -24 |
| Telemetry | Categorical  | FailCorrect |
| Electrodes disabled/not inserted | Categorical | From 1 to 12 Med-ElFrom 22 to 1 CochlearFrom 1 to 16 ABFrom 20 to 1 Oticon |
| Reason for deactivating the electrode | Categorical | Failed impedance telemetryExtracochlearNo sound sensationAbsence of neural responseNoiseDizzinessFacial stimulationOthers |

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| **Otology** |
| Variable name | Type | Values |
| Otological diagnosis | Diagnostic | Categorical | Normal Cholesteatoma Intrapetrous cholesteatoma Preauricular fistula Tympanomastoid paraganglioma Jugulotympanic paraganglioma Middle/outer ear malformation Malignant Neoplasia Temporal Bone External ear neoplasia Simple chronic otitis media Otosclerosis Chronic adhesive process Other |
| Otoscopy | Tympanic membrane | Categorical | Complete Subtotal drilling Post Drilling Previous perforation |
| Myringosclerosis | Categorical | No Yes  |
| Otorrhea | Categorical | No Yes  |
| Mucous membrane | Categorical | Normal Edematous inflammatory polyps |
| Effusion | Categorical | No Yes  |
| Attic pocket | Categorical | No Yes, Controllable Yes, Not Controllable |
| Tensile pars pocket | Categorical | No Yes, Controllable Yes, Not Controllable |
| Intact scutum | Categorical | No Yes  |
| Medialized malleus | Categorical | No Yes  |
| Myringostapedopexy | Categorical | No Yes  |
| Myringoincudopexy | Categorical | No Yes |
| Blunting | Categorical | No Yes  |
| Membrane lateralization | Categorical | NoYes  |
| Pearl/Epithelial Cyst | Categorical | NoYes |
| Cholesteatoma | Categorical | No Yes  |
| Surgical intervention | Date | Numerical | dd.mm.yyyy |
| Ear | Categorical | RightLeft  |
| Type of surgery | Categorical | Apex petrosal approach Infratemporal Fossa Approach Stapedectomy Preauricular fistula excision Removal of ear tumor lesion BAHA implementation Cochlear implantation Labyrinthectomy Modified radical mastoidectomy Myringoplasty Subtotal Petrosectomy Resection of tympano-mastoid neoplasia Lateral resection of the H.T. (TBLR) Stapes surgery reviewTympanoplasty revision Tympanoplasty with CWD mastoidectomy Tympanoplasty with mastoidectomy CWU/ 1st stage Tympanoplasty with mastoidectomy CWU/ 2nd stage Tympanoplasty without mastoidectomy Voiding/Radical Mastoidectomy Explantation |
| SAMEO-ATO Classification |  | It is a categorization system for mastoid and middle ear surgery. Each letter refers to an aspect of the surgery. The M refers to the action on the mastoid and the O to the action on the ossicular chain. |
| Findings | Mastoid | Categorical | Properly pneumatizedEburnea |
| Lateral sinus | Categorical | No Yes  |
| Lateral semicircular canal | Categorical | Full Type I erosion Type II erosion Type III erosion Ossifying labyrinthitis Absent Not identified |
| Superior semicircular canal | Categorical | Full Type I erosion Type II erosion Type III erosion Ossifying labyrinthitis Absent Not identified |
| Posterior semicircular canal | Categorical | Full Type I erosion Type II erosion Type III erosion Ossifying labyrinthitis Absent Not identified |
| Fallopian | Categorical | Full Dehiscent Hernia of the facial nerve Not identified |
| Malleus | Categorical | Normal Handle erosion head erosion Absent Medialized Malformed |
| Incus | Categorical | Normal Absent body erosion Long branch erosion Malformed |
| Stapes | Categorical | Normal Absence of suprastructurePermanent lying down Malformed |
| Middle ear mucosa | Categorical | Normal Pathological |
| Cholesteatoma (STAM System) | Categorical | NormalClarification: The STAM system is a system to mark which location is affected by cholesteatoma (five regions S1, S2, A, M and T are identified). |
| Technique | Graft | Categorical | None Temporal fascia Cartilage Perichondrium Conjunctive tissue Fat |
| Ossicular prosthesis | Categorical | None Cartilage on stapes Incus-stapes cartilage interposition Fluoroplastic Piston 4 x 0.6 Fluoroplastic Piston 4.5 x 0.6 PORP policel/plastipore TORP polycel/plastipore PORP titanium TORP titanium |
| Myringoplasty | Categorical | None Medial/Underlay Side / Overlay Transperforation/Inlay |
| Canaloplastylasty | Categorical | NoYes  |
| Section of the N. Chorda tympani | Categorical | No Yes  |
| Action on the footplate | Categorical | None Platinotomy (microbur) Platinotomy (manual microdrill) Platinotomy (laser) Posterior hemiplatinectomy Total platinectomy |
| Plastic in middle ear | Categorical | No Yes  |

Table 1. Description of the SAMEO-ATO system for categorization of mastoid and middle ear surgery

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| SAMEO (Mastoid Surgery) |
| S | Stage of the surgery (Stage) |
| S1 | Primary (First surgery) |
| S2p | Second or subsequent planned surgeries (review times) |
| S2b | Second or subsequent unplanned surgeries |
| A | Approach |
| A1 | Endoscopic transcanal |
| A2 | Microscopic transcanal |
| A3 | Endoaural 1\* |
| A4 | Betroauricular |
| 1\* A1 and A2 become A3 if widening or unloading incisions are made in the meatus. |
| M | Mastoidectomy |
| Mx | No mastoidectomy |
| M1a | Masoidectomy with canal wall preserved (cortical mastoidectomy) |
| M1b | Masoidectomy with canal wall preserved (cortical mastoidectomy) + posterior tympanotomy |
| M2a | Mastoidectomy with superior scutum removed only (atticotomy) |
| M2b | Mastoidectomy with superior scutum and postero-superior canal wall removed (attico-antrostomy) |
| M2c | Mastoidectomy with whole canal wall removed (modified radical or radical mastoidectomy) |
| M1a+2a | Mastoidectomy with canal wall preserved + atticotomy |
| M1b+2a | Mastoidectomy with canal wall preserved + posterior tympanotomy + atticotomy |
| M3a | Subtotal Petrosectomy with removal of the otic capsula – exenteration of all mastoid and middle ear pneumatized cells |
| M3b | Subtotal Petrosectomy with removal of the otic capsula – includes labyrinthectomy |
| E | External ear canal reconstruction |
| Ex | No external ear canal reconstruction |
| E1 | Reconstruction with soft materials 2\* |
| E2 | Reconstruction with rigid materials 2\* |
| 2\* The space under the graft has not been obliterated |
| O | Obliteration of the mastoid cavity |
| Ox | No obliteration is performed |
| O1 | Partial obliteration |
| O2 | Total obliteration |
| ATO (Middle Ear Surgery) |
| A | Access to the middle ear |
| Ax | No bone removal from the external ear canal wall (flattening of suture line alone is still considered as Ax) |
| A1 | Widening of the posterior tympanic framework (Including curettage or reaming tovisualize the ossicular chain or hypotympanum) |
| A2 | Partial or circumferential widening of the bony canal (canaloplasty) |
| A3 | Total canalplasty with soft tissue grafting of exposed bone 3\* |
| 3\* A3 differs from A2 in the absence of the original skin of the canal. |
| T | Tympanic membrane |
| Tx | No tympanic membrane grafting performed |
| Tn | Original tympanic membrane preserved |
| T1 | Supplement to intact tympanic membrane (reinforcement) |
| T2 | Partial tympanic membrane grafting |
| T3 | Subtotal / total tympanic membrane grafting 4\* |
| 4\* A total perforation is one in which the entire tympanic membrane and the anulus are absent. ASubtotal perforation is one in which the membrane is absent, although the anulus is preserved. |
| O | Ossicular chain |
| On | Intact chain preservation |
| Ox | No reconstruction performed |
| Osi | Reconstruction between incus and stapes head (IS joint repair, bone cement, prosthesis or cartilage) |
| Osm | Reconstruction between malleus and stapes head |
| Ost | Reconstruction between tympanic membrane and stapes head |
| Osd | Tympanic membrane directly repositioned onto stapes head |
| Ofi | Reconstruction between incus and stapes footplate |
| Ofm | Reconstruction between malleus and stapes footplate |
| Oft | Reconstruction between tympanic membrane and stapes footplate |
| Ofd | Tympanic membrane directly repositioned onto stapes footplate |
| Ovi | Reconstruction between incus and vestibule (including stapedotomy) |
| Ovm | Reconstruction between malleus and vestibule (malleo-stapedotomy) |
| Ovt | Reconstruction between tympanic membrane and vestibule |

Fields that are read in the platform directly **from the XML files** returned by the available devices:

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| **Audiometry**  |
| Variable name | Type | Values |
| Ear | Categorical | Left Right Both |
| Frequency (Hz) | Numerical |  |
| Unmasked audiological thresholds (dB HL) | Numerical |  |
| Masked audiological thresholds (dB HL) | Numerical |  |
| Signal type | Categorical | Warble NB Tone  |
| Conduction | Categorical | AirBoneFree field |
| Masking intensity (dB HL) | Numerical |  |

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| **Speech test/Logoaudiometry** |
| Variable name | Type | Values |
| Conduction | Categorical | AirBoneFree field |
| Masking intensity (dB HL) | Numerical |  |
| Ear | Categorical | Left Right Both |
| Speech intensity (dB HL) | Numerical |  |
| Total number of words repeated correctly | Numerical |  |
| Word list | Numerical |  |
| Words | String |  |
| Individual word score | Categorical | IncorrectCorrect |

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| **Auditory evoked potentials** |
| Variable name | Type | Values |
| IPSI A RAW | Numerical (vector) |  |
| IPSI B RAW | Numerical (vector) |  |
| CONTRA A RAW | Numerical (vector) |  |
| CONTRA B RAW | Numerical (vector) |  |
| Stimulation frequency (Hz) | Numerical |  |
| Gain (dB) | Numerical |  |
| High-pass filter (Hz y dB/oct) | Numerical |  |
| Low-pass filter (Hz y dB/oct) | Numerical |  |
| Number of samples | Numerical |  |
| Number of rejections | Numerical |  |
| Number of measurements | Numerical |  |
| Stimulus polarity | Categorical | CondensationRarefactionAlternate |
| Stimulus type | Categorical | Tone burstTraditional clickGa 30 kHzDa 30 kHzBa 30 kHz |
| Stimulus ratio | Numerical |  |
| Ear | Categorical | Left Right |
| Intensity (dB HL) | Numerical |  |
| Hearing device used by the patient during the course of the test in the left ear | Categorical | NoneHearing aidBone implantCochlear implant |
| Hearing device used by the patient during the course of the test in the right ear | Categorical | NoneHearing aidBone implantCochlear implant |
| Contralateral masking in left ear | Categorical | No Yes  |
| Contralateral masking in the right ear | Categorical | No Yes  |
| Masking intensity (dB HL) in left ear | Numerical |  |
| Masking intensity (dB HL) in right ear | Numerical |  |
| Impedance (kΩ) | Numerical |  |