Summary of IOOG SAMEO-ATO framework

### Stage of surgery
- **S1**: Primary (first surgery)
- **S_{2p}**: Planned (2nd look or staged procedure)
- **S_{2r}**: Revision (unplanned)

### Approach
- **A1**: Endoscopic transcanal
- **A2**: Microscopic transcanal
- **A3**: Endaural
- **A4**: Retroauricular

### Mastoidectomy
- **Mx**: No mastoidectomy
- **M1a**: Canal wall preserved + posterior tympanotomy
- **M1b**: Scutum + posterosuperior wall removed
- **M1a+2a**: Combination of M1a and M2a
- **M1b+2a**: Combination of M1b and M2a
- **M2a**: Only scutum removed
- **M2b**: Scutum + posterosuperior wall removed
- **M2c**: Whole canal wall removed
- **M3a**: Subtotal petrosectomy; otic capsule preserved
- **M3b**: Subtotal petrosectomy; otic capsule removed

### Access to 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 portion of tympanic sulcus (including canal curtailage or drilling to visualise the ossicular chain or hypotympanum)
- **A2**: Partial or circumferential widening of the bony canal (canalplasty)
- **A3**: Total canalplasty with soft tissue grafting of exposed bone

### 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

### Ossicular chain
- **M1a+2a**: Incus to stapes
- **M1b+2a**: Incus to footplate
- **M2a**: Malleus to stapes
- **M3a**: Malleus to footplate
- **M3b**: TM to vestibule

### External ear canal reconstruction
- **Ex**: No external ear canal reconstruction
- **E1**: Reconstruction with soft materials†
- **E2**: Reconstruction with rigid materials†
  † space behind graft not obliterated

### Obliteration of mastoid cavity
- **Ox**: No obliteration
- **O1**: Partial obliteration
- **O2**: Total obliteration

† space behind graft not obliterated

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