

IOOG Operative Note Template for Tympanomastoid Surgery

for use in Epic Electronic Medical Record

User Guide

Installation into Epic:

- Go to <<My SmartPhrases>>
- Click on <<New>>
- Copy and paste the contents of “IOOG Standardized Operative Note EPIC.docx” into the window.
- Upload the mastoidectomy and ossiculoplasty image files and move them into the relevant places as shown in the template below
- Enter a Name for the SmartPhrase, such as CHOLESTEATOMAOPNOTE
- Save
- Accept

Creation of Operation Note

- In the Operation Note field, type the dot phrase that opens the template, eg if using the name suggested above:
.CHOLESTEATOMAOPNOTE

Thanks to Drs Kozin and Wu from Massachusetts Eye & Ear Infirmary for preparation of this template.

We believe it should work on different versions of Epic but please contact IOOG if difficulties are encountered.

The text below shows the appearance of the template when image files have been added. Rather than copying and pasting this directly into Epic, we recommend copying the text without images (from “IOOG Standardized Operative Note EPIC.docx”) and adding the image files to the SmartPhrase separately afterwards to avoid errors with installation into Epic

Patient Name: @NAME@

MRN: @MRN@

Date of Surgery: @ORDATE@

Procedure: ***

Pre operative Diagnosis: @ORDXCPRE@

Post operative Diagnosis: @ORDXCPRE@

@ORSURALL@

Anesthesia Type: @ANTYPEFROMLOG@

Procedure Findings: ***

I/O: IVF *** UO *** EBL ***

Condition: Stable

Specimens: @ORSPEC@

Trainee Participation: {BLANK SINGLE:19197::"yes","no"}

Resident Participation: {BLANK SINGLE:19197::"yes","no"}

Fellow Participation: {BLANK SINGLE:19197::"yes","no"}

Operative Indications

Reason(s) for doing surgery: {Blank multiple:19196::"Cholesteatoma","Retraction Pocket","Perforation"}

Stage of surgery: {BLANK SINGLE:19197::"S1 Primary (first surgery)","S2p Planned subsequent procedure","S2r Revision (i.e. unplanned) procedure"}

For revision surgery, this is the ***operation.

Comments: ***

Side: {BLANK SINGLE:19197::"right","left"}

Was there more than one episode for this ear on this day? (Please change if not first surgery today due to unusual circumstances (e.g. complications requiring revision surgery on the same day)) {BLANK SINGLE:19197::"no","yes, ***#"}

Surgical Approach and Use of Endoscope

Approach: {BLANK SINGLE:19197::"A1 Endoscopic transcanal (TEES)","A2 Microscopic transcanal","A3 Endaural","A4 Post-auricular"}

Cohen classification: {BLANK SINGLE:19197::"Class 0 "None" Microscope only case","Class 1 "Inspection only" Endoscope used to assess disease","Class 2 "Mixed Dissection" Microscope and endoscope used for dissection","Class 3 "Endoscope only" No use of microscope"}

Size of endoscope: {Blank multiple:19196::"2.7 mm","3 mm","4 mm","N/A"}

Angle of endoscope: {Blank multiple:19196::"0 deg","30 deg","45 deg","N/A"}

Length of endoscope: {BLANK SINGLE:19197::"14 cm","18 cm","N/A"}

Middle Ear Findings

Classification of Middle Ear Cholesteatoma: {BLANK SINGLE:19197::"Congenital","Pars tensa","Pars flaccida","Combination of pars flaccida and pars tensa","Secondary to TM perforation","Following trauma or iatrogenic","Unclassifiable"}

Recidivism of Cholesteatoma: {BLANK multiple:19196::"Recurrent","Residual","Uncertain","None"}

Extent of cholesteatoma (STAM System): {Blank multiple:19196::"S1 Protympanum","S2 Sinus Tympani","T Meso/Hypo-Tympanum","A Epitympanum","Ma Antrum","Mc Mastoid cells"}

Stage 3 (extracranial complications or pathologic conditions): {Blank multiple:19196::"facial palsy","canal wall destruction","destruction of the tegmen","adhesive otitis","neck abscess"}, labyrinthine fistula at {Blank multiple:19196::"Semi-circular canal","Oval window","Round window or cochlea","N/A"}.

Stage 4 (intracranial complications): {Blank multiple:19196::"purulent meningitis","epidural abscess","subdural abscess","brain abscess","sinus thrombosis","brain herniation into mastoid cavity","N/A"}

EAONO/JOS Cholesteatoma stage: {BLANK SINGLE:19197::"Stage 0","Stage 1: cholesteatoma is localized to the primary site","Stage 2: cholesteatoma involves 2 or more sites","Stage 3","Stage 4"}

Retraction pocket location: {BLANK SINGLE:19197::"Posterior pars tensa","Pars flaccida","Adhesive otitis media","N/A"}

Perforation location: {Blank multiple:19196::"Anterior","Posterior","Subtotal","Total","None"}

Perforation size: {BLANK SINGLE:19197::"< 10%","< 20%","< 30%","< 40%","< 50%","< 60%","< 70%","< 80%","< 90%","< 100%","N/A"}

Comments: ***

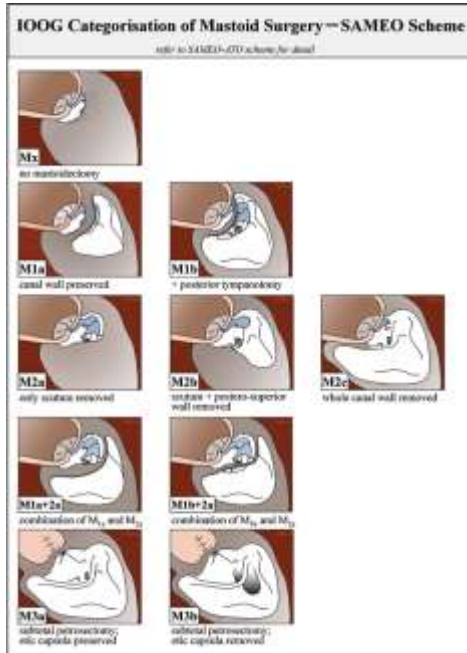
Ossicular and Other Findings

Complete ossicle erosion: {Blank multiple:19196::"Not checked","Malleus","Incus","Stapes","Footplate","Intact Chain"}

Ossicle fixed: {Blank multiple:19196::"Not checked","Malleus head","I-S joint","Footplate","Not fixed"}

Middle ear mucosa: {Blank multiple:19196::"Not checked", "Oedematous", "Granulation", "Fibroadhesive", "Tympanosclerosis", "Normal"}
 Active discharging peri-operative within last 3 months: {Blank multiple:19196::"Yes", "Unknown", "No"}
 Presence of Middle Ear Effusion: {Blank multiple:19196::"Yes", "Unknown", "No"}
 Comments: ***

Mastoid Approach and Findings



Mastoid surgery: {BLANK SINGLE:19197::"Mu Previous mastoid surgery undisturbed", "M1a Canal wall preserved (aka cortical mastoidectomy)", "M1b As M1a + posterior tympanotomy", "M2a Only scutum removed (aka atticotomy)", "M2b Scutum + posterosuperior wall removed (aka atticoantrostomy)", "M2c Whole canal wall removed (eg modified radical mastoidectomy)", "M1a + M2a Scutum removal + cortical mastoidectomy", "M1b + M2a As above with posterior tympanotomy", "M3a Subtotal petrosectomy, otic capsule preserved", "M3b Subtotal petrosectomy + removal otic capsule", "Mx No mastoid surgery"}
 Ear canal reconstruction: {BLANK SINGLE:19197::"Eu Previous reconstruction undisturbed", "E1 Reconstruction with soft materials", "E2 Reconstruction with hard materials (+/- soft materials)", "other***", "Ex No reconstruction"}
 Obliteration of mastoid: {BLANK SINGLE:19197::"Ou Previous obliteration undisturbed", "O1 Partial obliteration", "O2 Total obliteration", "Ox No obliteration"}
 Obliteration Flap: {Blank multiple:19196::"Palva", "Muscle", "Fascial-periosteal", "Mid-temporal flap", "Temporo-parietal fascial flap", "N/A"}
 Obliteration material: {Blank multiple:19196::"Bone paste", "Bone chips", "Cartilage slices", "Hydroxyapatite/HA granules", "Bioglass", "Fat", "Other***", "N/A"}
 Middle ear surgery

Access to middle ear: {BLANK SINGLE:19197::"A1 Widening of canal at annulus or scutum", "A2 Partial or circumferential widening of bony canal (aka canalplasty)", "A3 Total canalplasty with soft tissue grafting of exposed bone", "Ax No bone removed from ear canal"}
 Tympanic Membrane Reconstruction

Tympanic membrane: {BLANK SINGLE:19197::"Tu Previous tympanic membrane surgery undisturbed", "Tn Original tympanic membrane preserved", "T1 Supplement to intact tympanic membrane

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(eg cartilage reinforcement)", "T2 Partial tympanic membrane grafting", "T3 Subtotal / total tympanic membrane grafting", "Tx No repair of tympanic membrane defect"}

Tympanic membrane graft material: {Blank multiple:19196::"Fascia", "Perichondrium", "Cartilage", "Homograft TM/Drum", "Periosteum", "Bio-engineered graft", "Fat", "Split thickness skin graft", "Other ****", "N/A"}

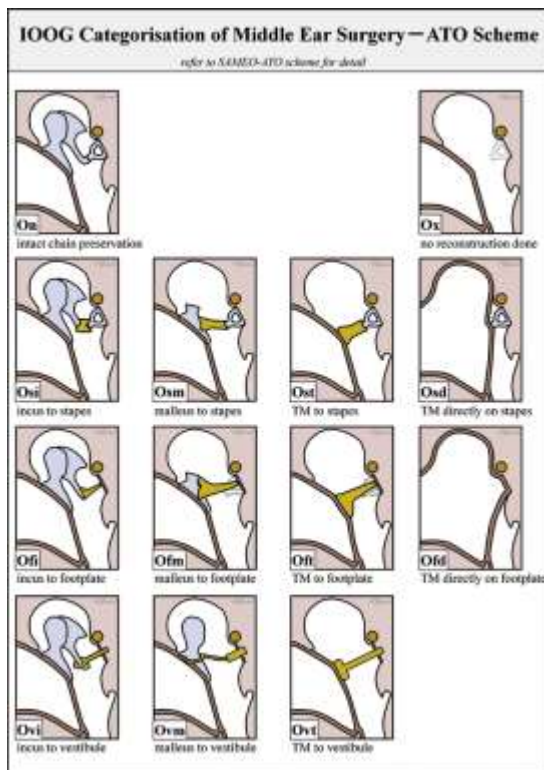
Tympanic membrane graft position:{BLANK SINGLE:19197::"Underlay", "Under drum over malleus handle", "Interlay (ie between layers of ear drum)", "Within perforation (eg butterfly graft of fat plug)", "Lateral graft (ie underlay but extends lateral to entire annulus)", "Overlay", "Other ****", "N/A"}

Ossicular Reconstruction

Ossicular chain: {BLANK SINGLE:19197::"Ox Abnormal chain", "No reconstruction", "Ou Previous ossicular surgery undisturbed", "Osi Incus to stapes superstructure", "Osm Malleus to stapes superstructure", "Ost TM to stapes superstructure", "Osd TM directly on stapes superstructure (eg myringostapediopexy)", "Ofi Incus to footplate", "Ofm Malleus to footplate", "Ofs TM to footplate", "Ofd TM directly on footplate", "Ovi Incus to vestibule (eg stapedotomy)", "Malleus to vestibule", "Ovt TM to vestibule", "On Intact chain preservation"}

Ossiculoplasty material: {BLANK SINGLE:19197::"Cartilage", "Whole malleus", "Malleus head", "Incus", "Bone chip", "Hydroxyapatite", "Titanium", "Other****", "N/A"}

Ossiculoplasty prosthesis: {BLANK SINGLE:19197::"PORP", "TORP", "Other****", "N/A"}



Integrity of Other Structures

Chorda tympani: {BLANK SINGLE:19197::"Not found", "Displaced", "Not displaced", "Lacerated", "Cut"}

Tensor tympani tendon cut: {BLANK SINGLE:19197::"Yes", "No"}

Middle ear mucosa preserved: {BLANK SINGLE:19197::"Yes", "No"}

Jacobson nerve preserved: {BLANK SINGLE:19197::"Yes", "No"}