

Temporal Bone Image Library

Chapter: Anatomy

Otopathology Laboratory



Temporal Bone Right Lateral

Title: Temporal Bone Right Lateral

Chapter: Anatomy

Chapter Section: Osteology of Temporal Bone



Temporal Bone Right Medial

Title: Temporal Bone Right Medial

Chapter: Anatomy

Chapter Section: Osteology of Temporal Bone



Temporal Bone Right Posterior

Title: Temporal Bone Right Posterior

Chapter: Anatomy

Chapter Section: Osteology of Temporal Bone



EAC Glands, R-490

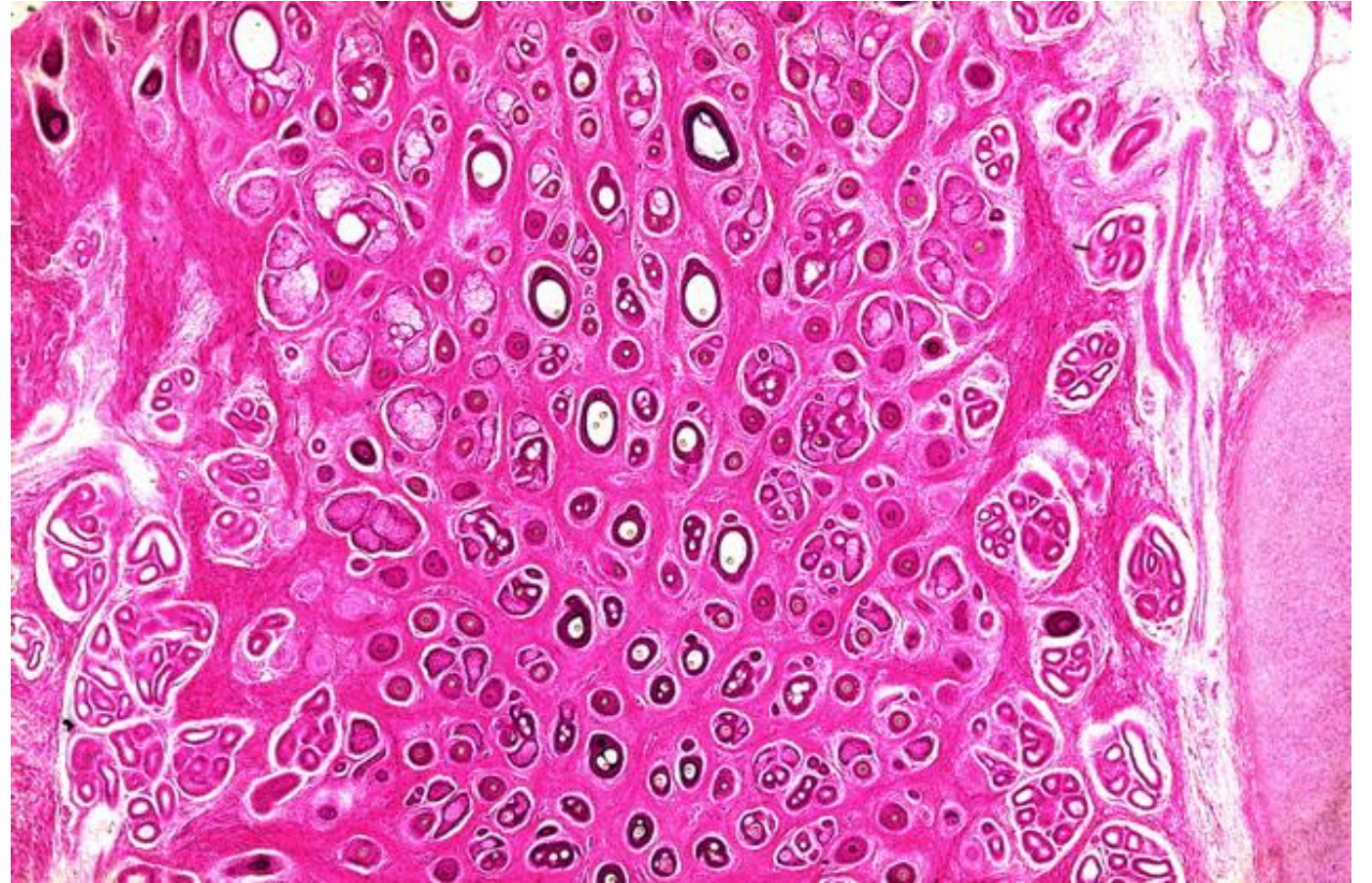
Title: EAC Glands, R-490

Chapter: Anatomy

Chapter Section: External Auditory Canal

TB Case Number: 72

Gender: Female



EAC Glands, R-490

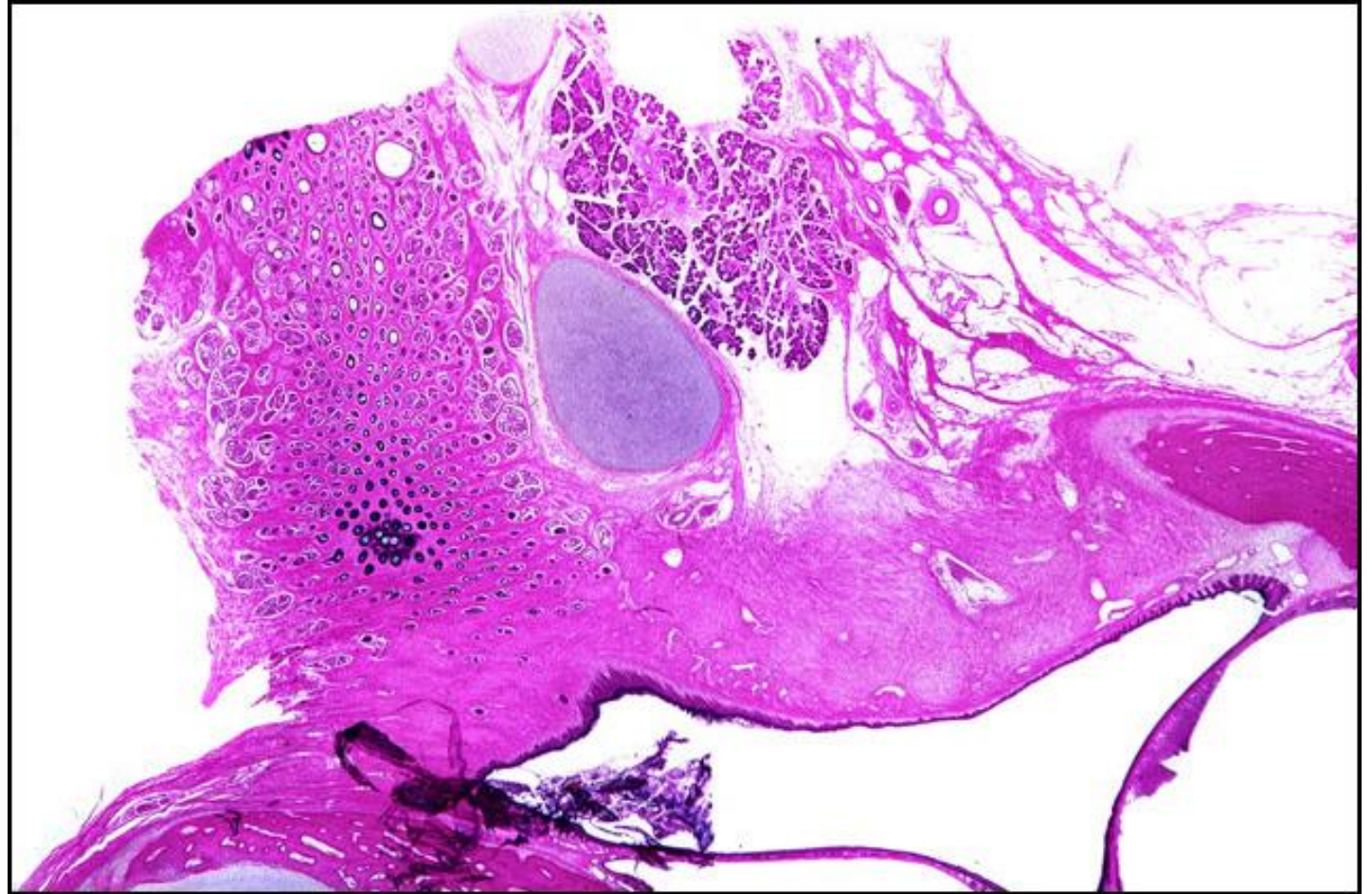
Title: EAC Glands, R-490

Chapter: Anatomy

Chapter Section: External Auditory Canal

TB Case Number: 72

Gender: Female



EAC Glands, R-143

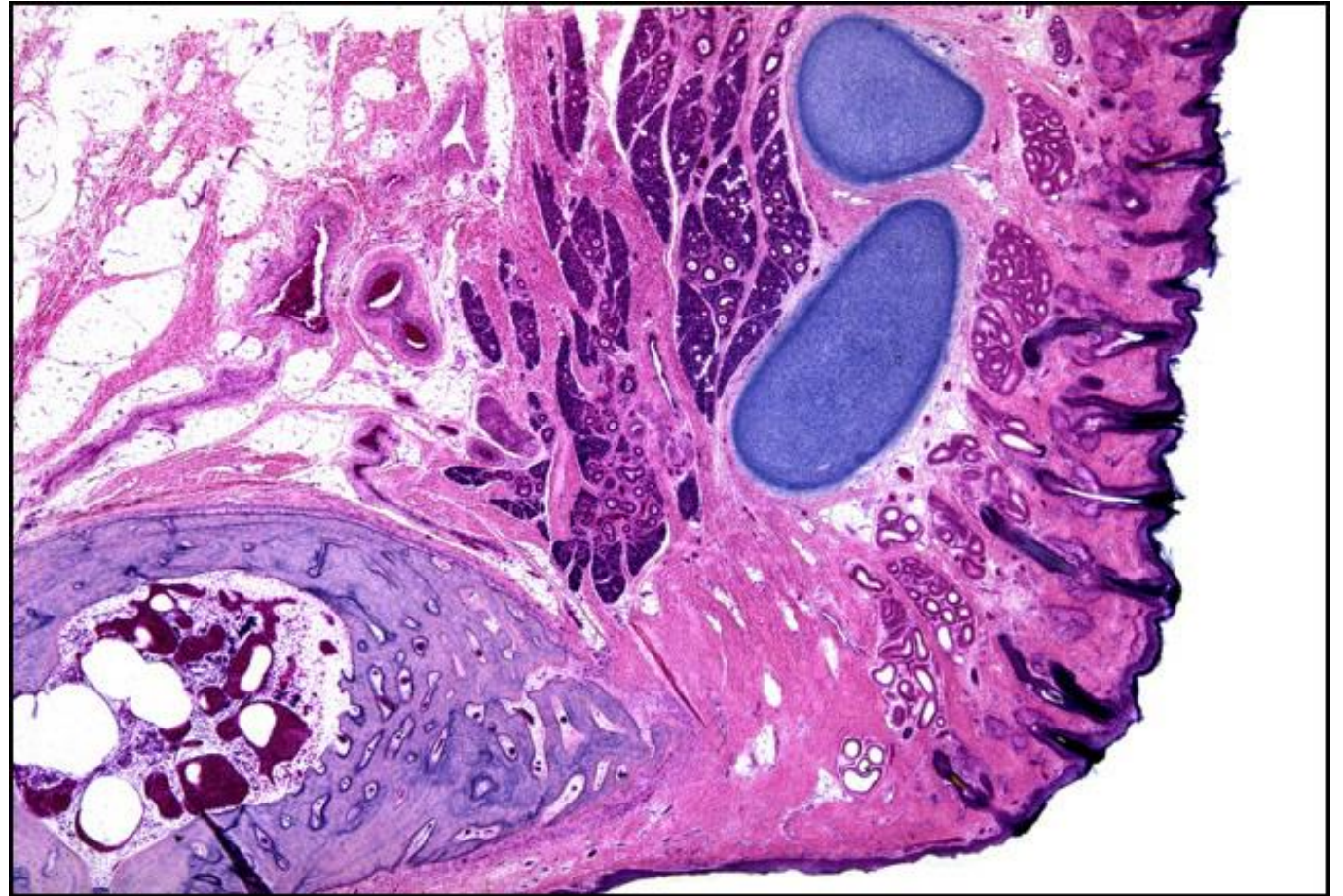
Title: EAC Glands, R-143

Chapter: Anatomy

Chapter Section: External Auditory Canal

TB Case Number: 791

Gender: Female



EAC Glands, R-143

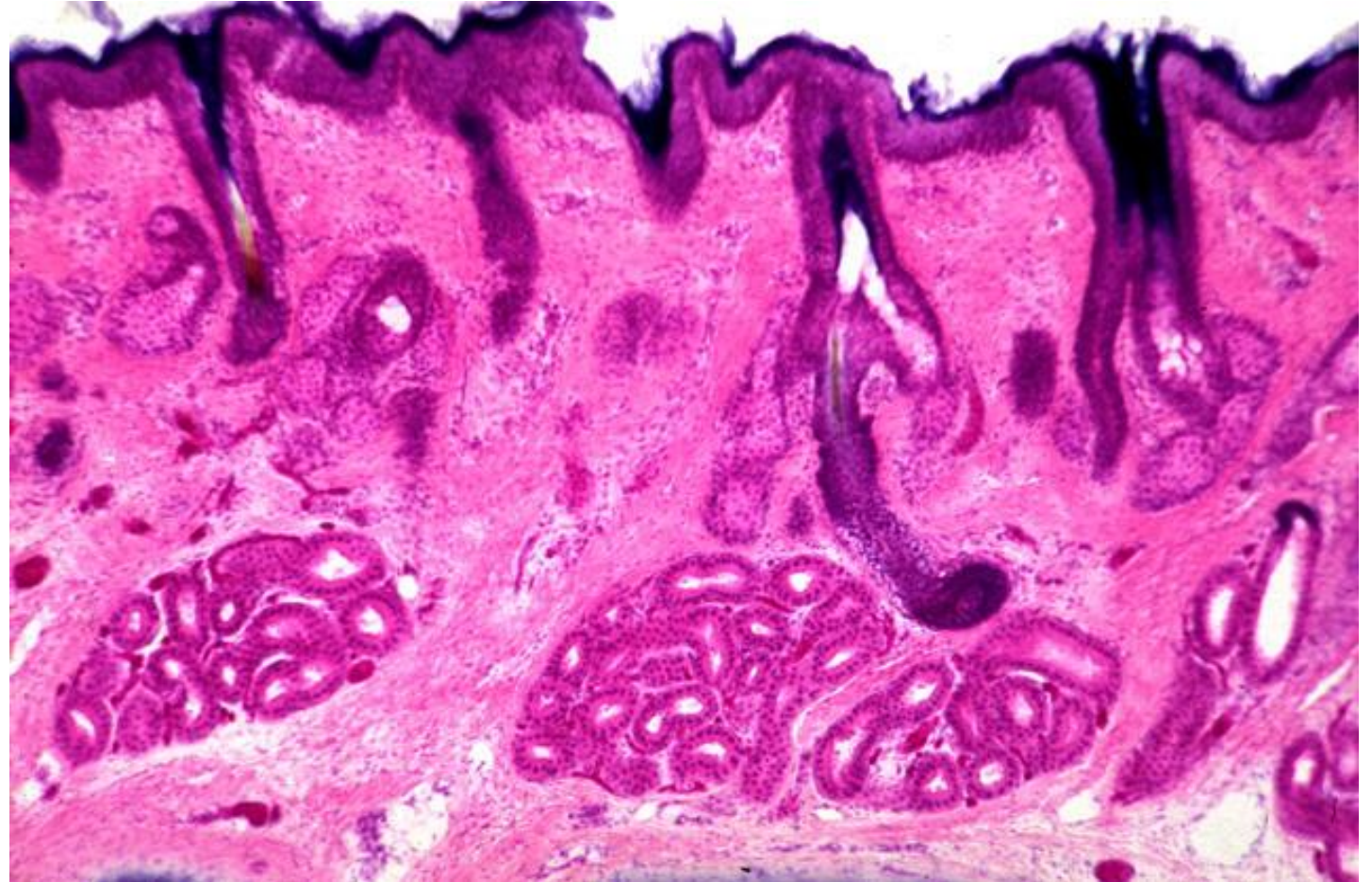
Title: EAC Glands, R-143

Chapter: Anatomy

Chapter Section: External Auditory Canal

TB Case Number: 791

Gender: Female



Ossicles on a Dime

Title: Ossicles on a Dime

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles



Ossicles, L-11

Title: Ossicles, L-11

Chapter: Anatomy

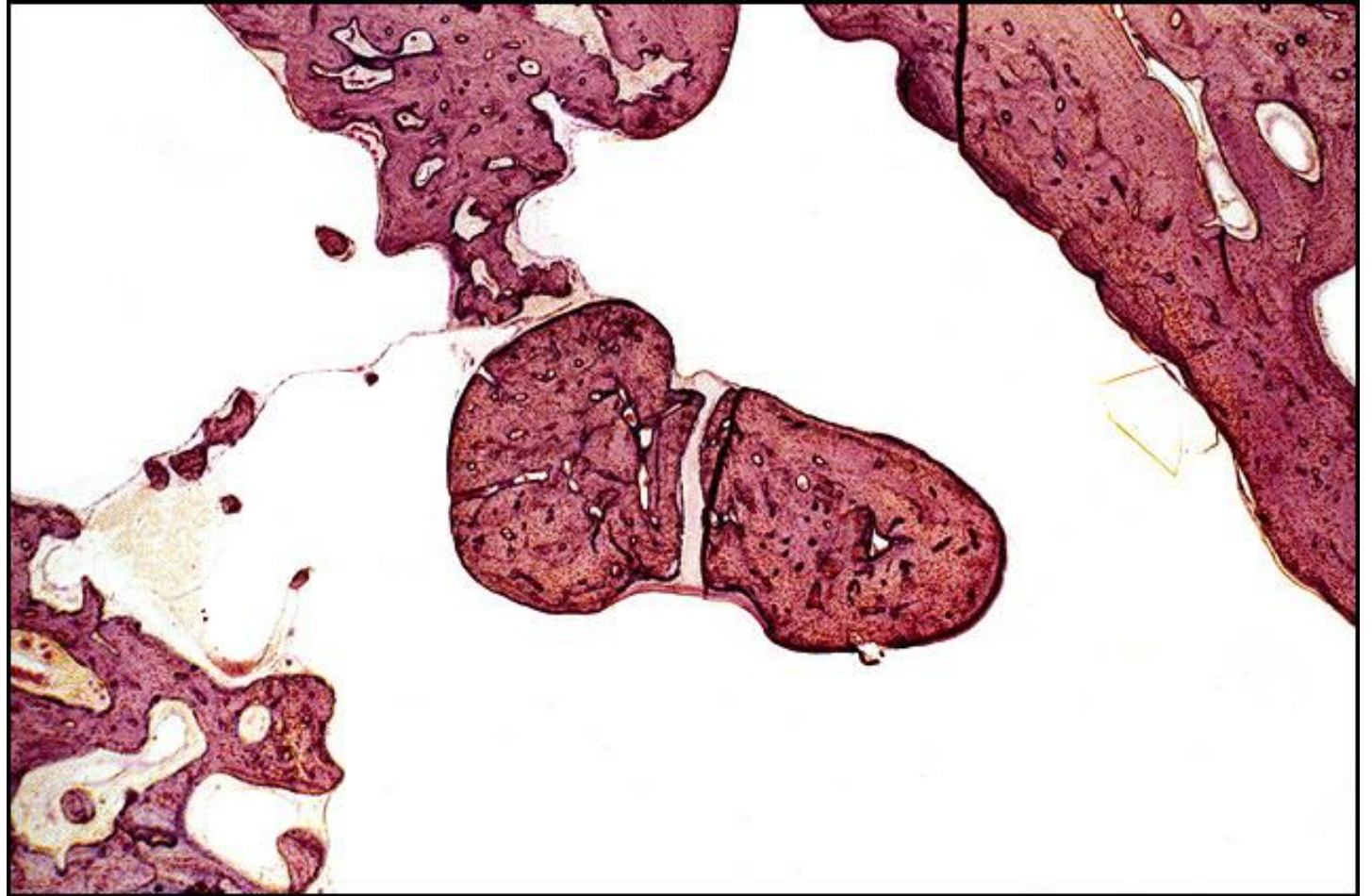
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 391

Comments: Malleus and Incus

Gender: Male

Age (yrs.): 36



Ossicles, R-131

Title: Ossicles, R-131

Chapter: Anatomy

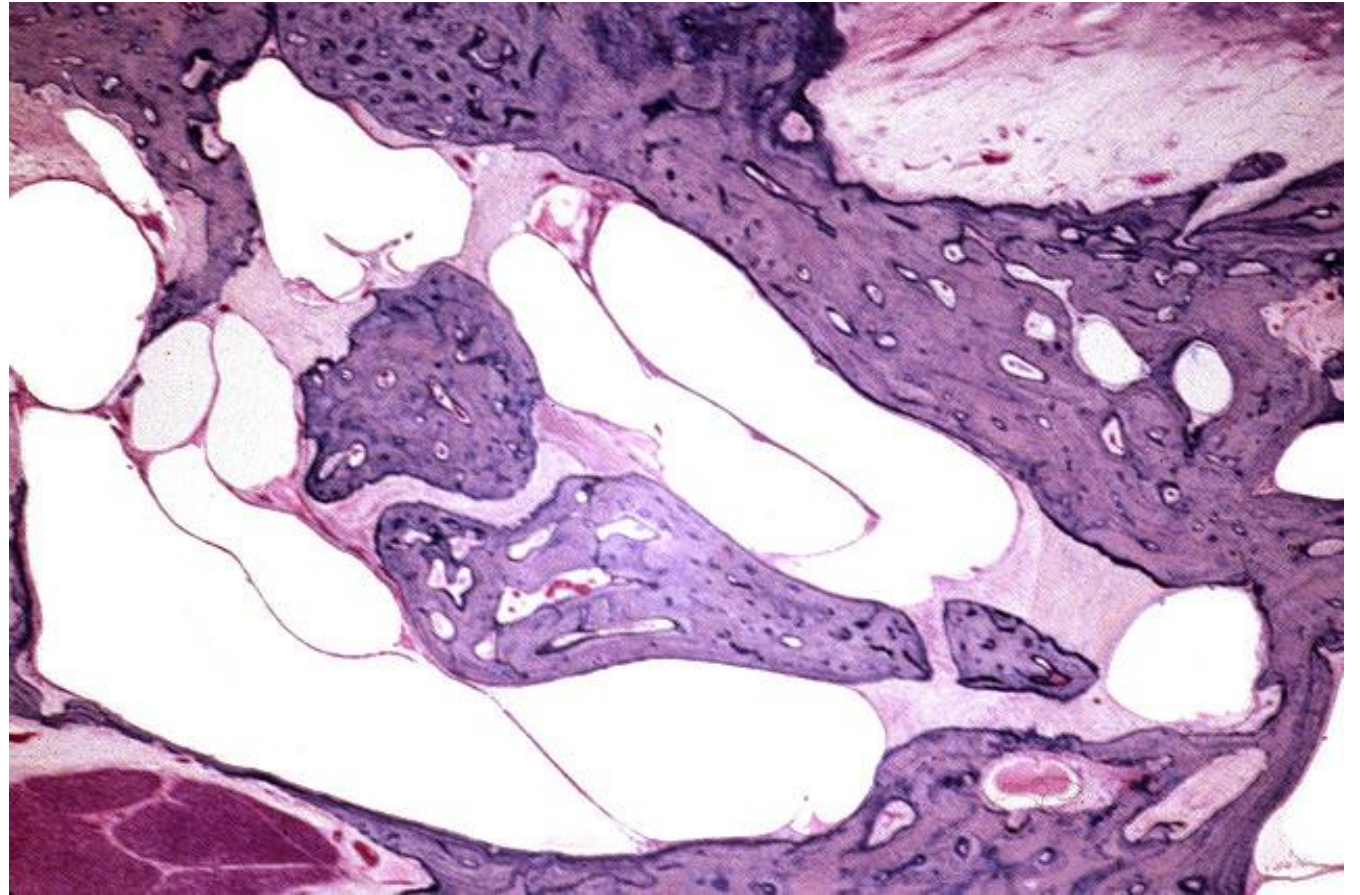
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 653

Comments: Malleus and Incus

Gender: Male

Age (yrs.): 78



Malleus, L -81

Title: Malleus, L -81

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 765

Gender: Male

Age (yrs.): 63



Pre-tympanic Spine, R-250

Title: Pre-tympanic Spine, R-250

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 184

Gender: Female

Age (yrs.): 73



Ossicles, R-216

Title: Ossicles, R-216

Chapter: Anatomy

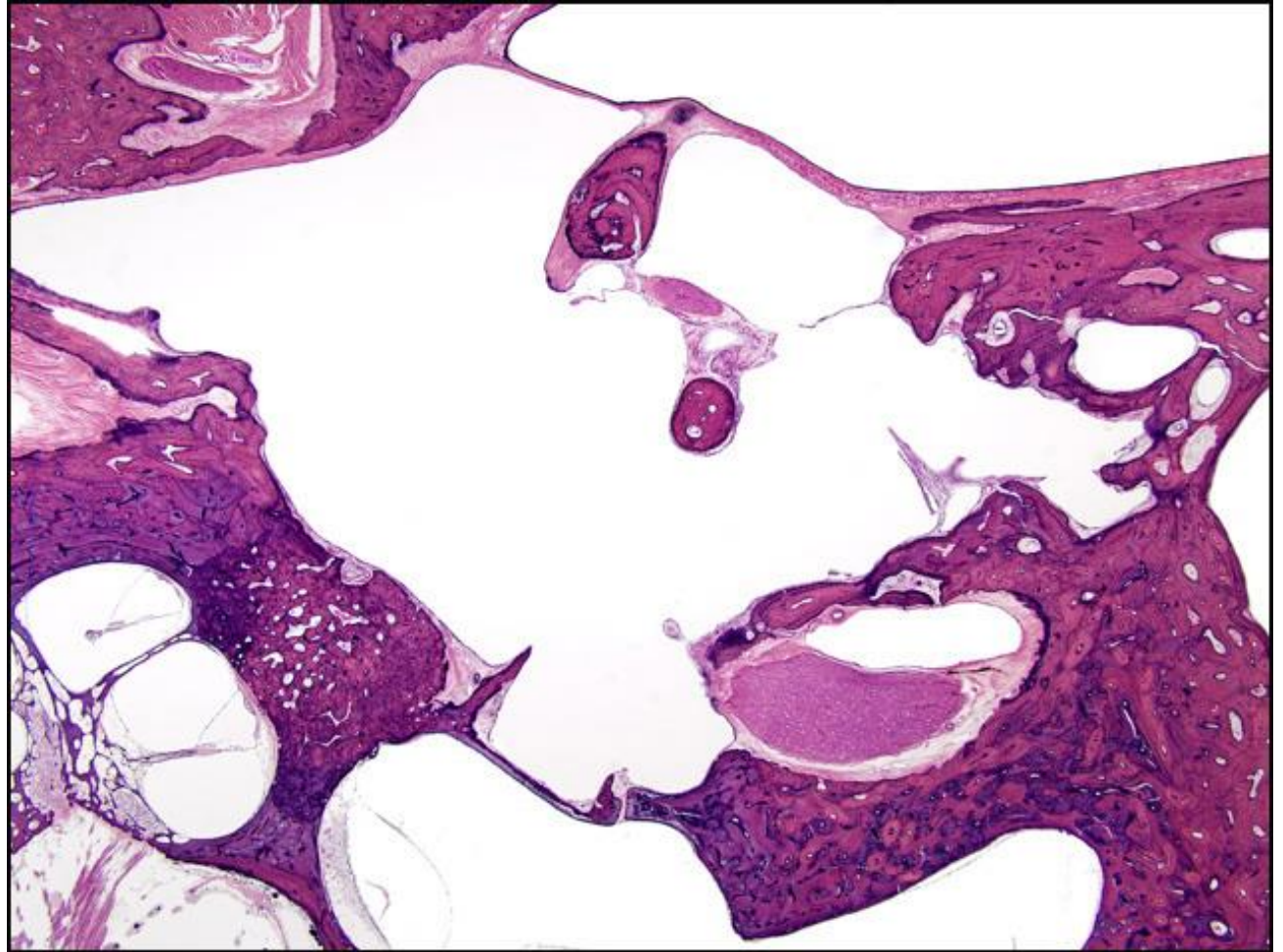
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 971

Comments: Facial dehiscence near OW

Gender: Male

Age (yrs.): 79



Ossicles, L-236

Title: Ossicles, L-236

Chapter: Anatomy

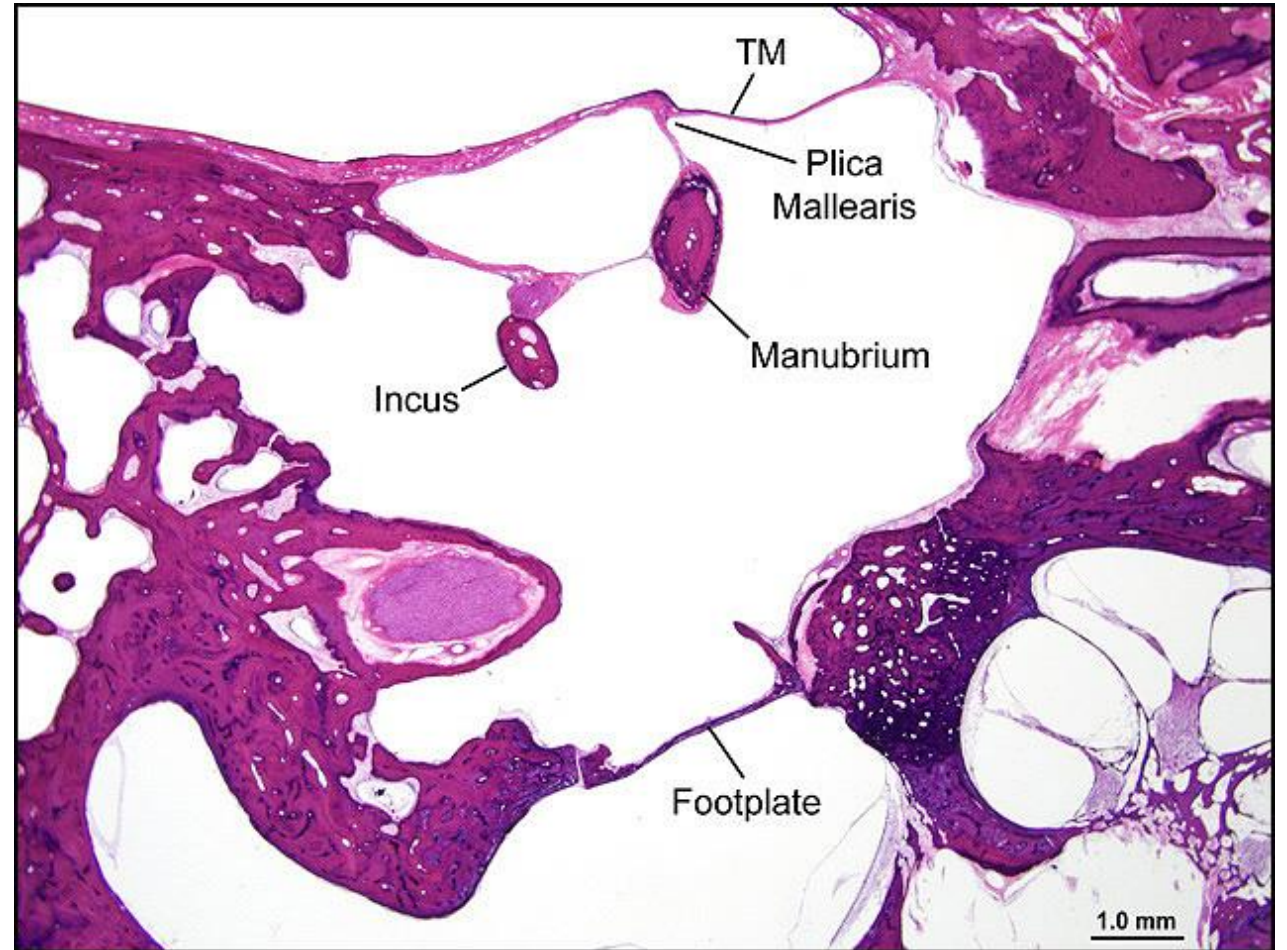
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 1012

Comments: 86 yr. old woman with otosclerosis. Anatomical relationships between manubrium, plica mallearis, incus and footplate are shown.

Gender: Female

Age (yrs.): 86



Incus Pneumatization, R-201

Title: Incus Pneumatization, R-201

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 207

Gender: Male

Age (yrs.): 60



Tensor Tympani, L-132

Title: Tensor Tympani, L-132

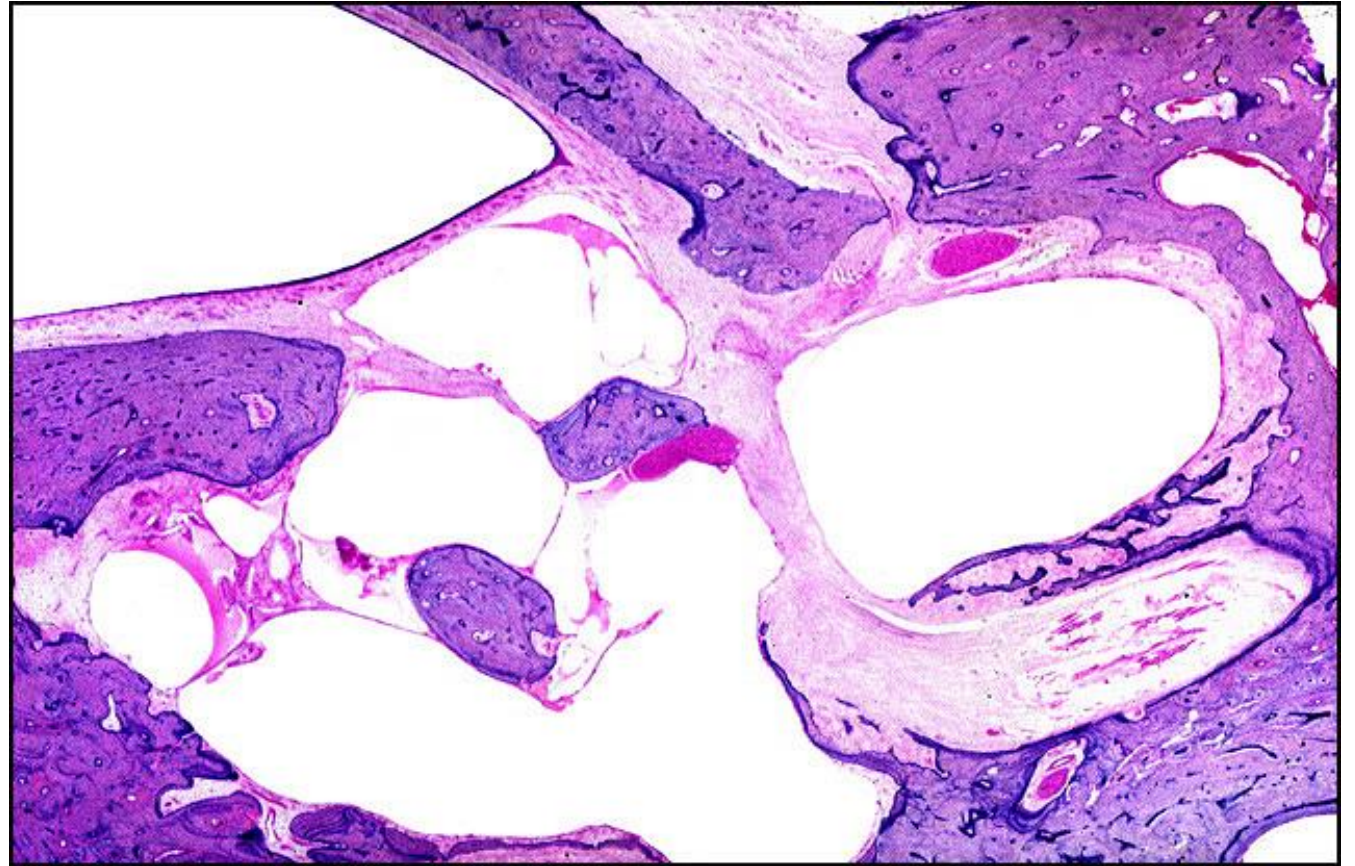
Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 516

Gender: Male

Age (yrs.): 82



Round Window, R-336

Title: Round window, R-336

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 61

Comments: RW mucosal fold

Gender: Male

Age (yrs.): 68



Round Window, R-341

Title: Round window, R-341

Chapter: Anatomy

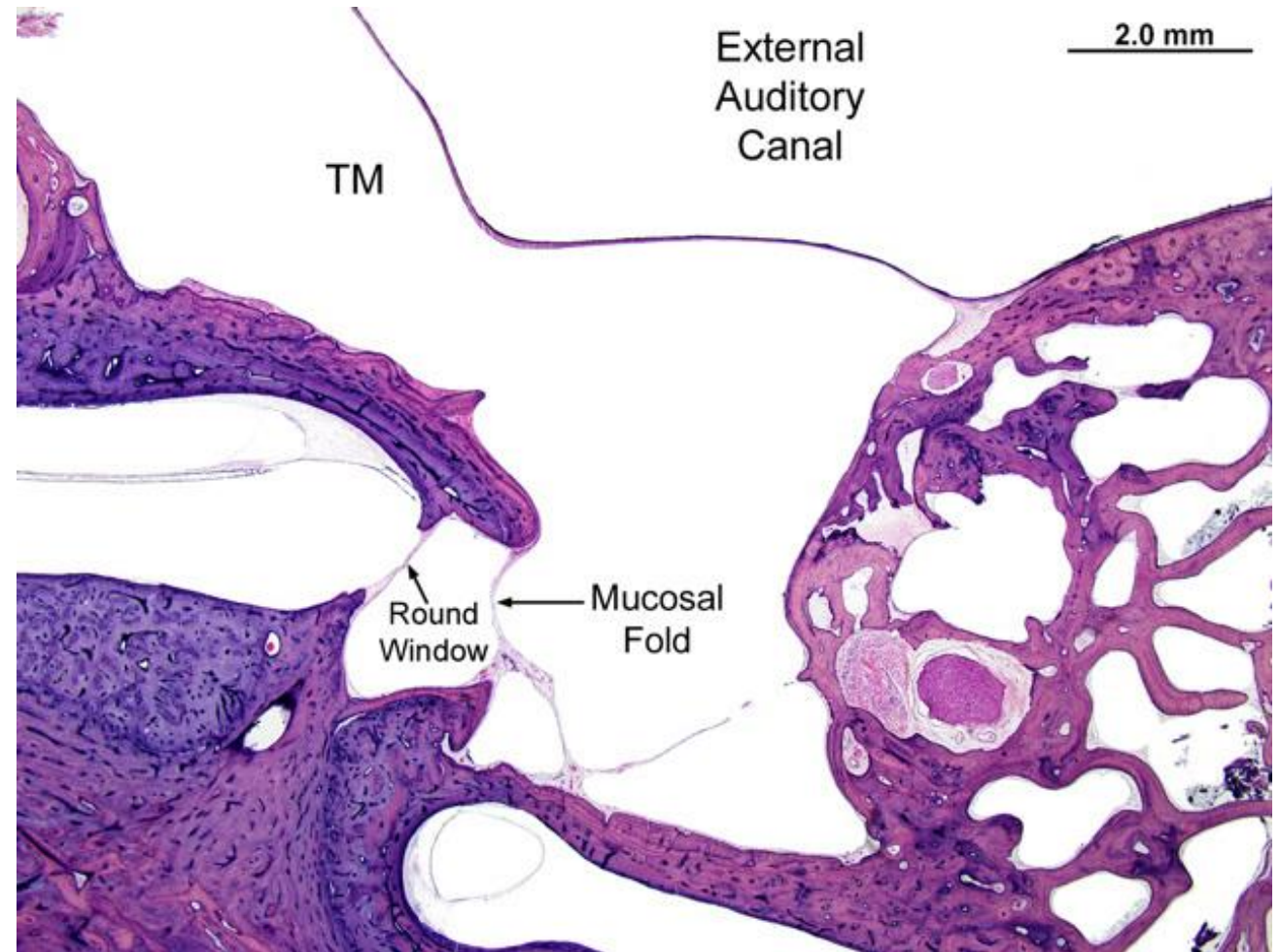
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 923

Comments: Mucosal fold in round window niche obscures RW membrane

Gender: Male

Age (yrs.): 72



Vertical Section with OW and RW, R-391

Title: Vertical Section with OW and RW, R-391

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 534

Gender: Female

Age (yrs.): 55

Otologic Diagnosis:

Temporal bone, normal, bilateral



Oval and Round Windows, R-652

Title: Oval and Round Windows, R-652

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 996

Comments: Normal vertical section with oval and round windows

Gender: Male

Age (yrs.): 42

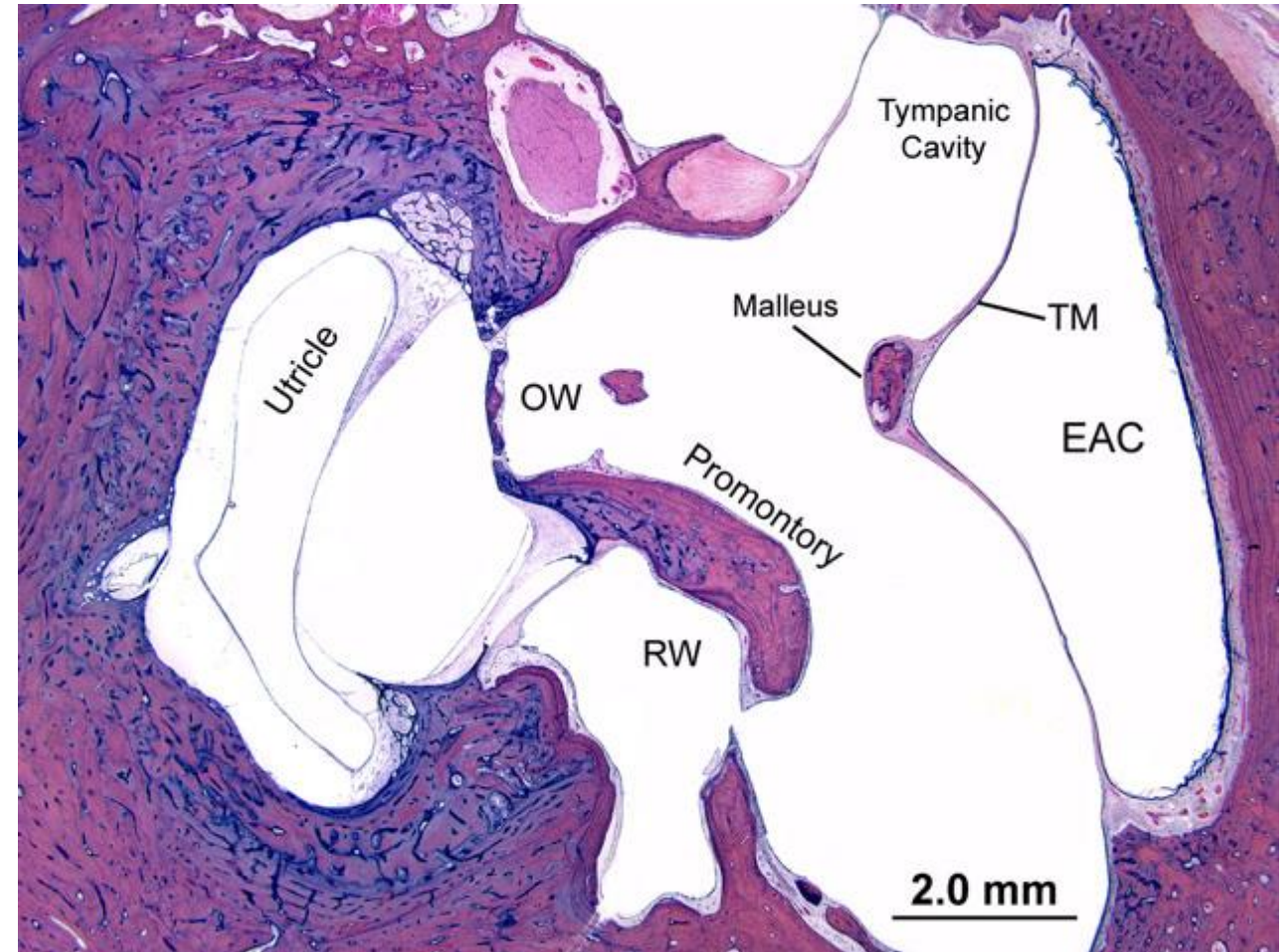
Otologic Diagnosis:

Clinical:

Sensorineural hearing loss, moderate, bilateral, sequel of pneumococcal meningitis

Histopathologic:

1. Loss of spiral ganglion cells, presumed secondary to cochlear neuritis from bacterial meningitis, bilateral.
2. Atrophy of organ of Corti



Incus, R-151

Title: Incus, R-151

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 992

Comments: resorption of incus without stapedectomy

Gender: Female

Age (yrs.): 95

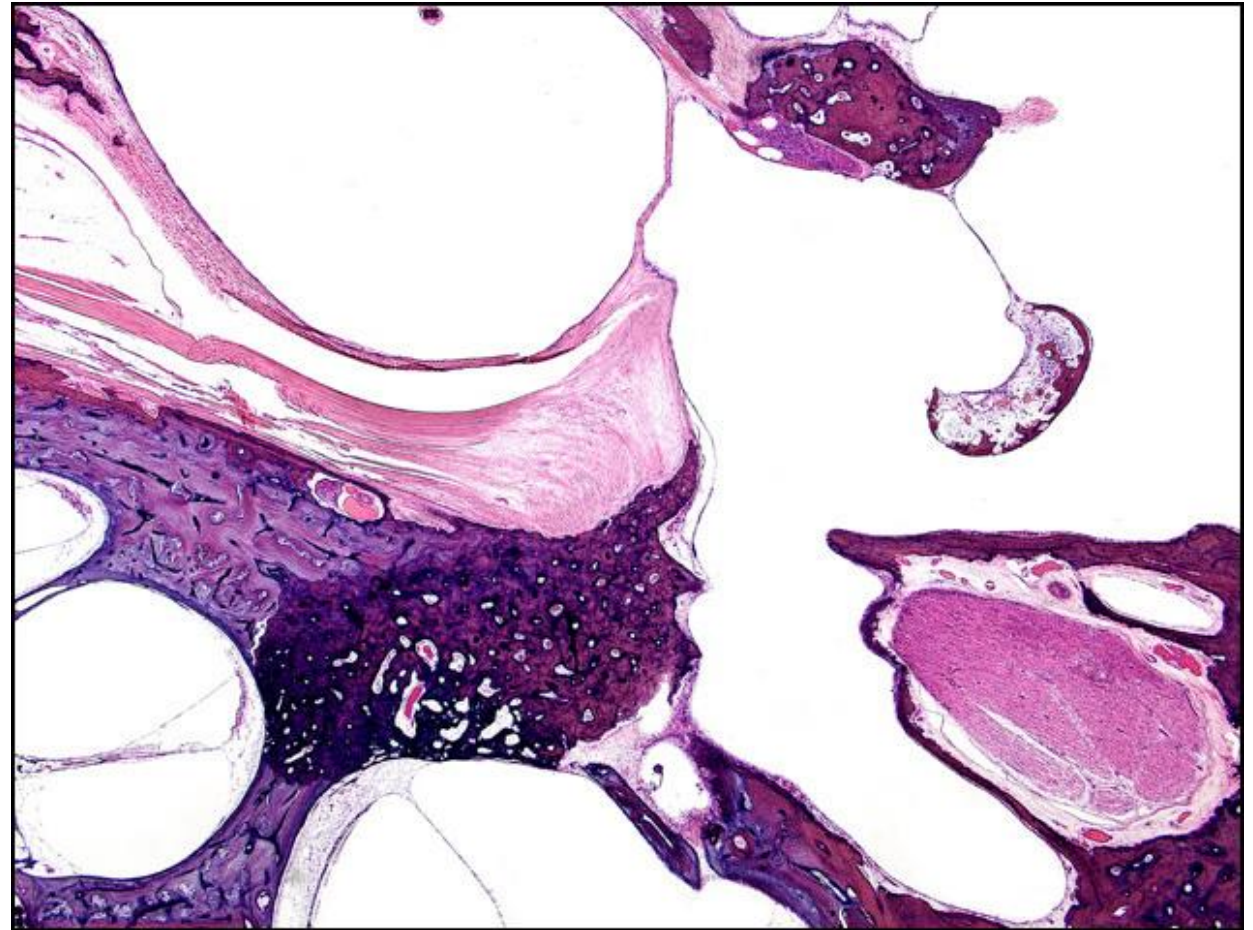
Otologic Diagnosis:

Clinical Diagnoses

1. Otosclerosis, bilateral
2. Profound hearing loss, left, status post total stapedectomy with polyethylene strut
3. Mixed hearing loss, right, associated with otosclerosis

Histologic Diagnoses

1. Otosclerosis, clinical, bilateral
2. Incus, resorptive osteitis, bilateral



Incus, R-151

Title: Incus,R-151

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 992

Comments: resorption of incus without stapedectomy

Gender: Female

Age (yrs.): 95

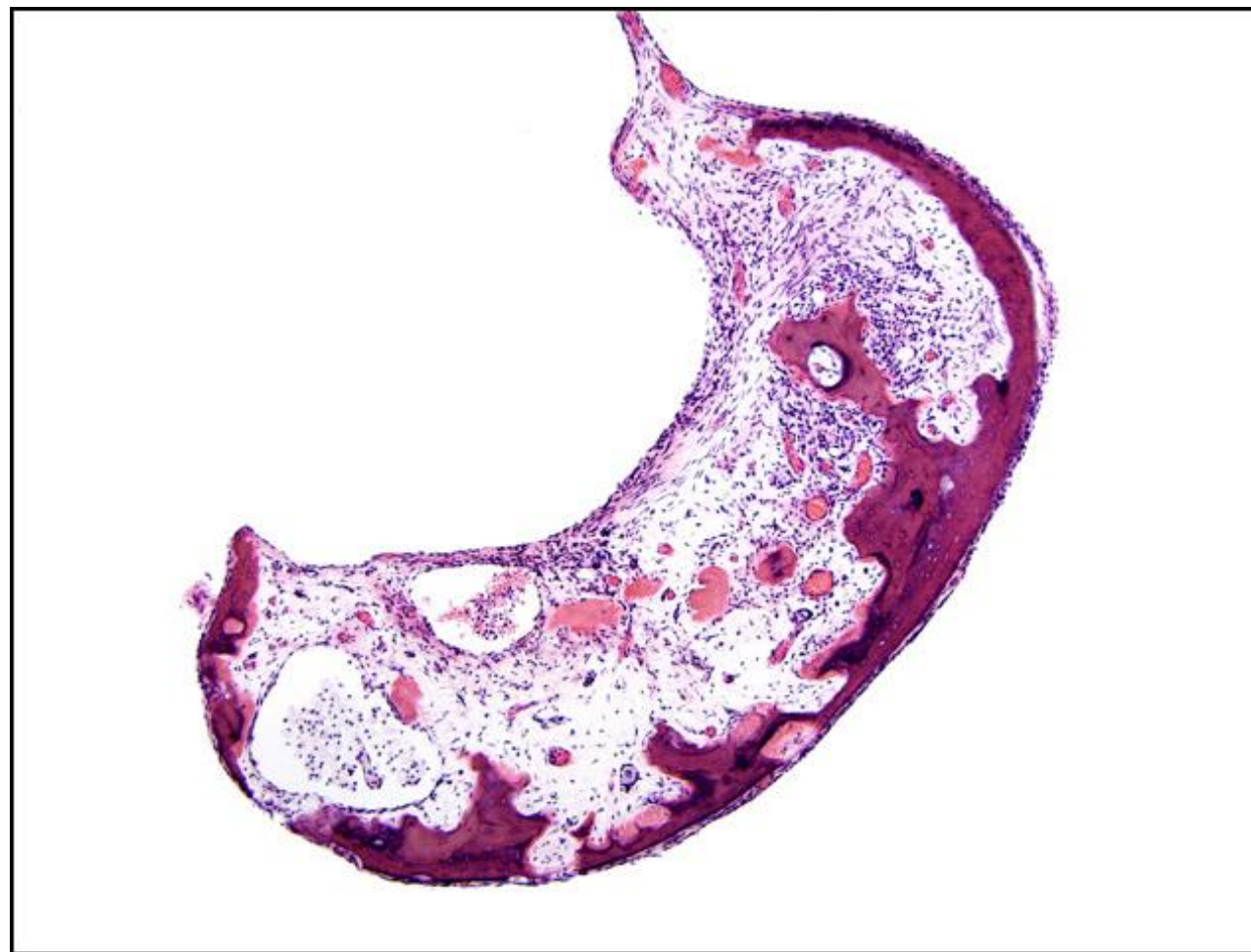
Otologic Diagnosis:

Clinical Diagnoses:

1. Otosclerosis, bilateral
2. Profound hearing loss, left, status post total stapedectomy with polyethylene strut
3. Mixed hearing loss, right, associated with otosclerosis

Histologic Diagnoses:

1. Otosclerosis, clinical, bilateral
2. Incus, resorptive osteitis, bilateral



Malleus and Incus, L-71

Title: Malleus and Incus, L-71

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 998

Comments: Idiopathic bone resorption of malleus head

Gender: Female

Age (yrs.): 91

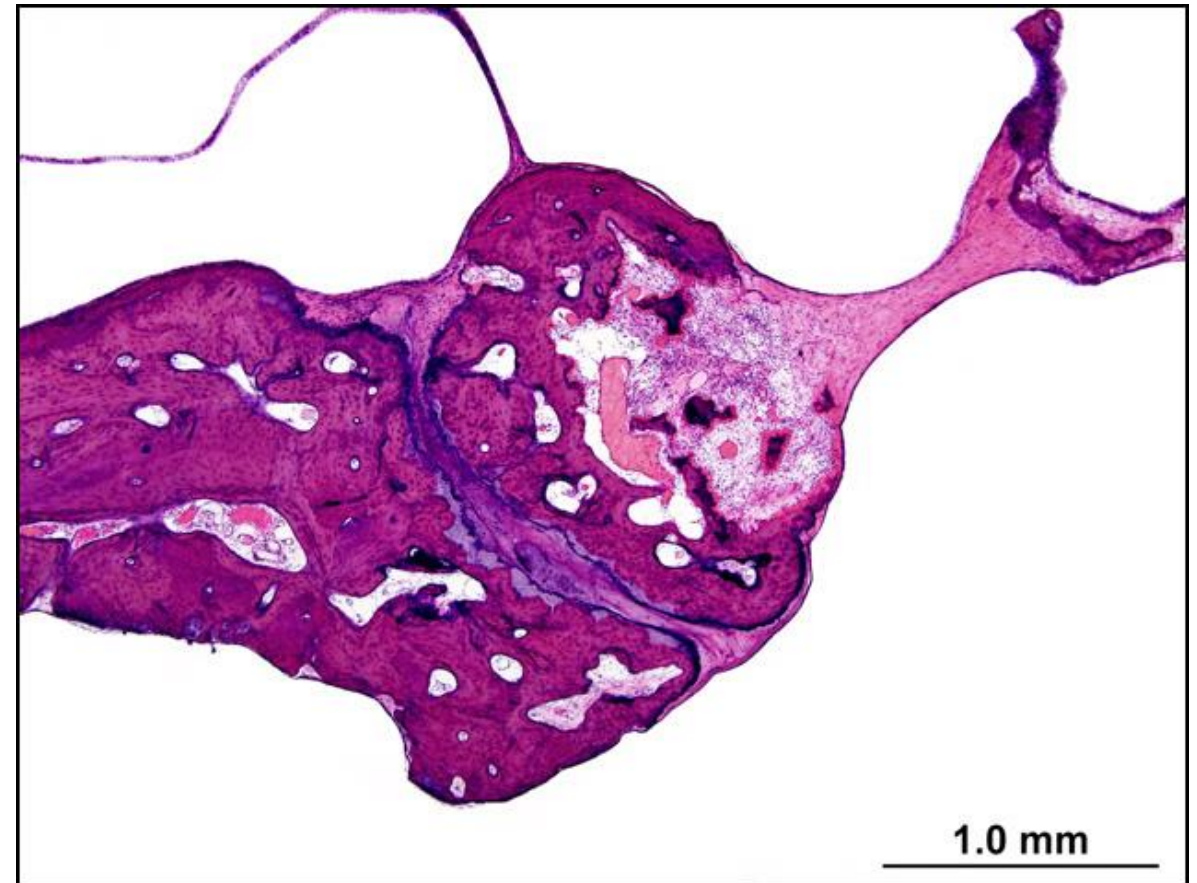
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology.

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss.



Malleus and Incus, L-71

Title: Malleus and Incus, L-71

Chapter: Anatomy

Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 998

Comments: Idiopathic bone resorption of malleus head

Gender: Female

Age (yrs.): 91

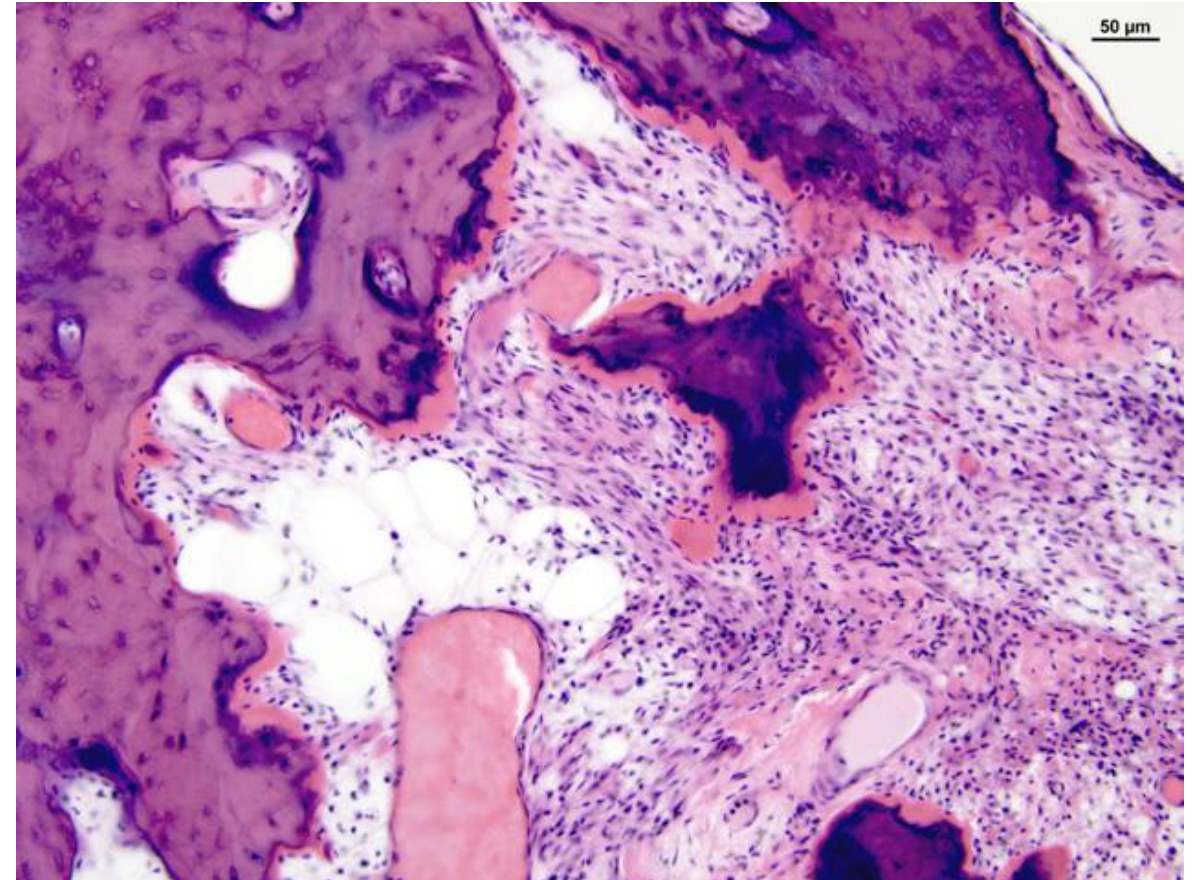
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology.

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss.



Sinus Tympani, R-291

Title: Sinus Tympani, R-291

Chapter: Anatomy

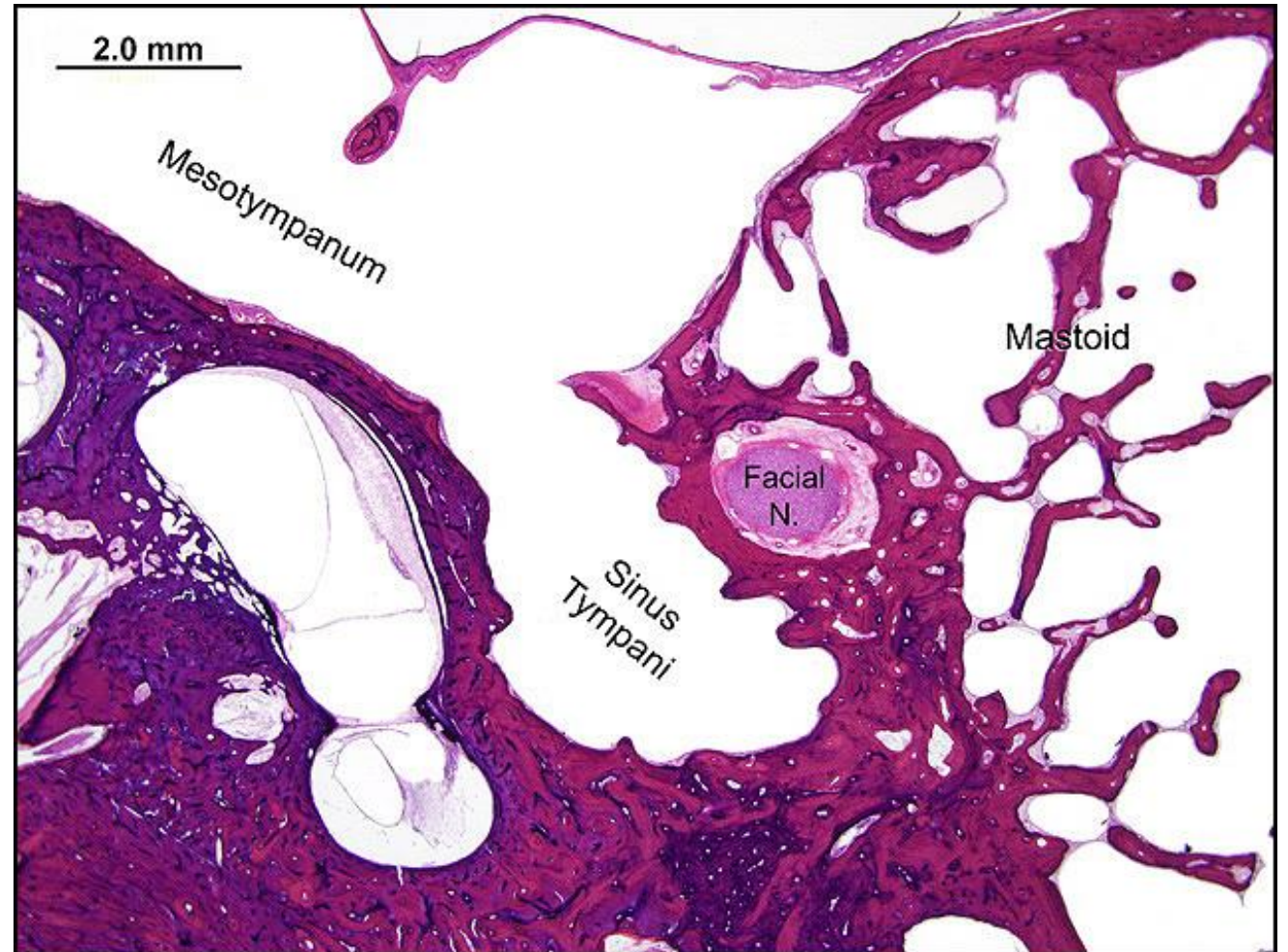
Chapter Section: Middle Ear - Tympanic Membrane, Muscles, Ossicles

TB Case Number: 1012

Comments: Deep sinus tympani

Gender: Female

Age (yrs.): 86



Tympanomastoid Septum, R-290

Title: Tympanomastoid Septum, R-290

Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

TB Case Number: 616

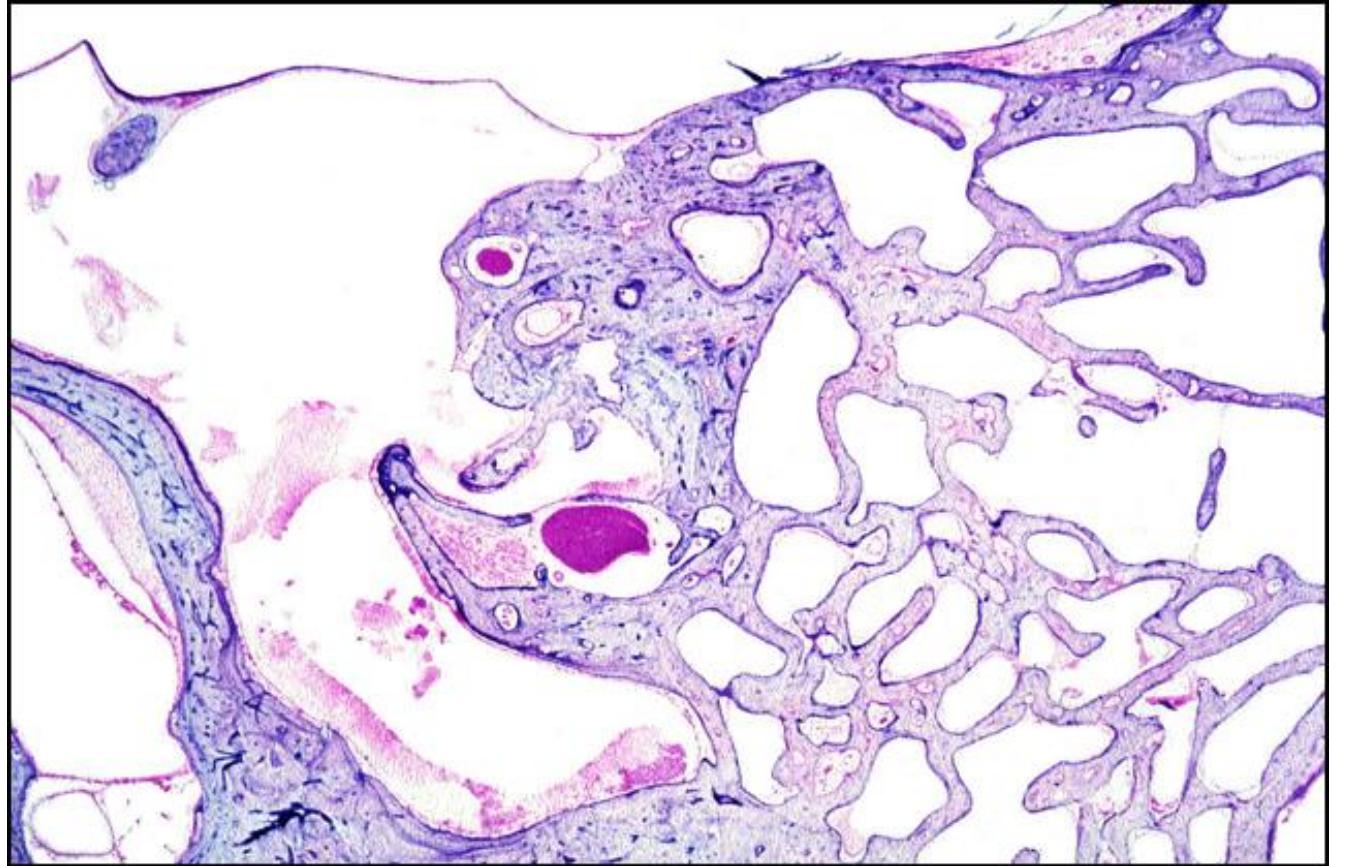
Comments: Tympanomastoid septum

Gender: Male

Age (yrs.): 66

Otologic Diagnosis:

1. Bilateral Meniere's disease
2. Malleus fixation
3. Wide internal auditory canal, left ear, probably anatomical variants



Anterior Epitympanic Recess, L-61

Title: Anterior Epitympanic Recess, L-61

Chapter: Anatomy

Chapter section: Mastoid and Pneumatization

TB Case Number: 772

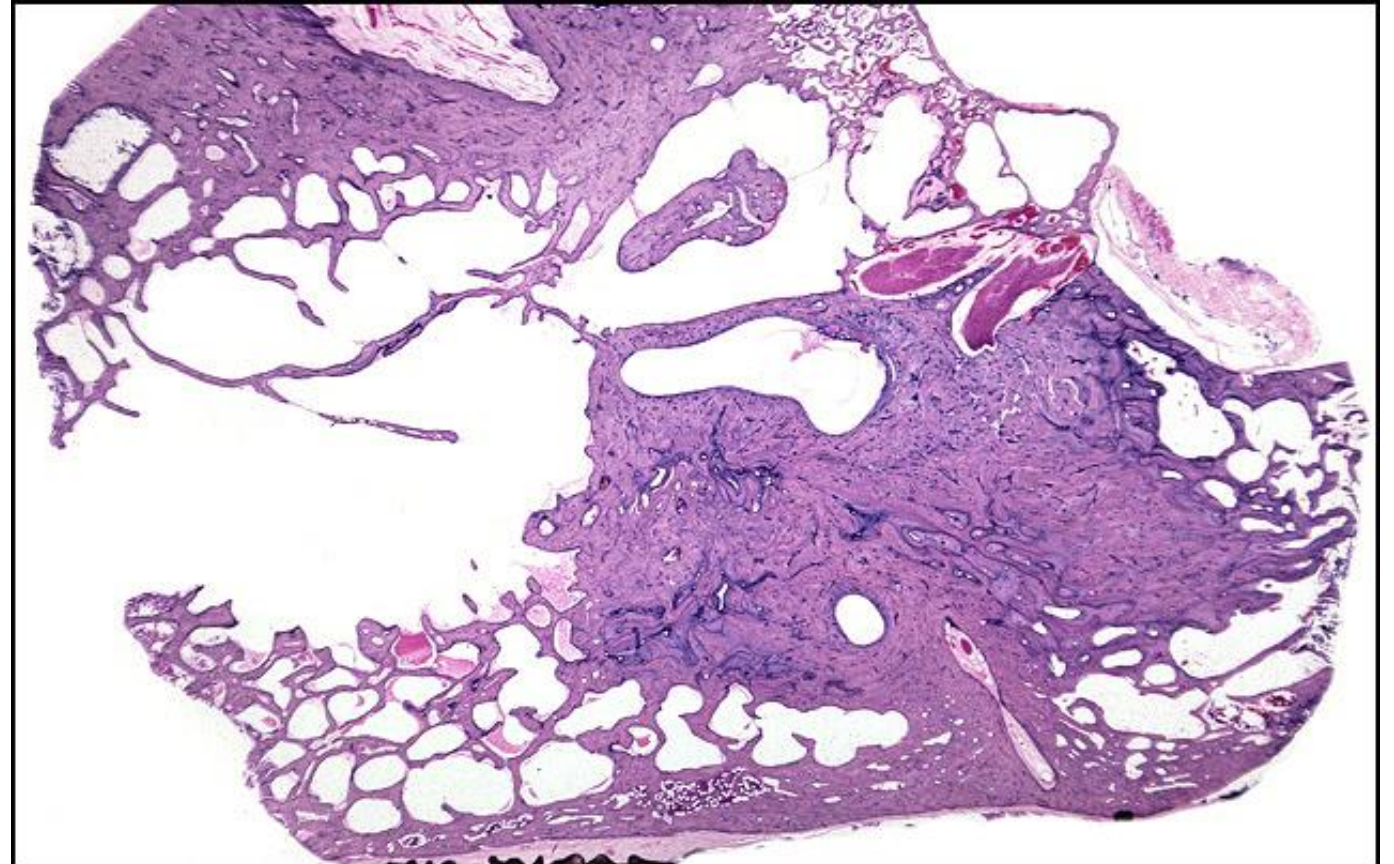
Comments: anterior epitympanic recess

Gender: Male

Age(yrs.): 75

Otologic Diagnosis:

1. Presbycusis, sensorineural and strial (mixed), severe, bilateral
2. Osseous obliteration, posterior semicircular canals, perilymphatic spaces, bilateral



Apical Pneumatization, L-31

Title: Apical Pneumatization, L-31

Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

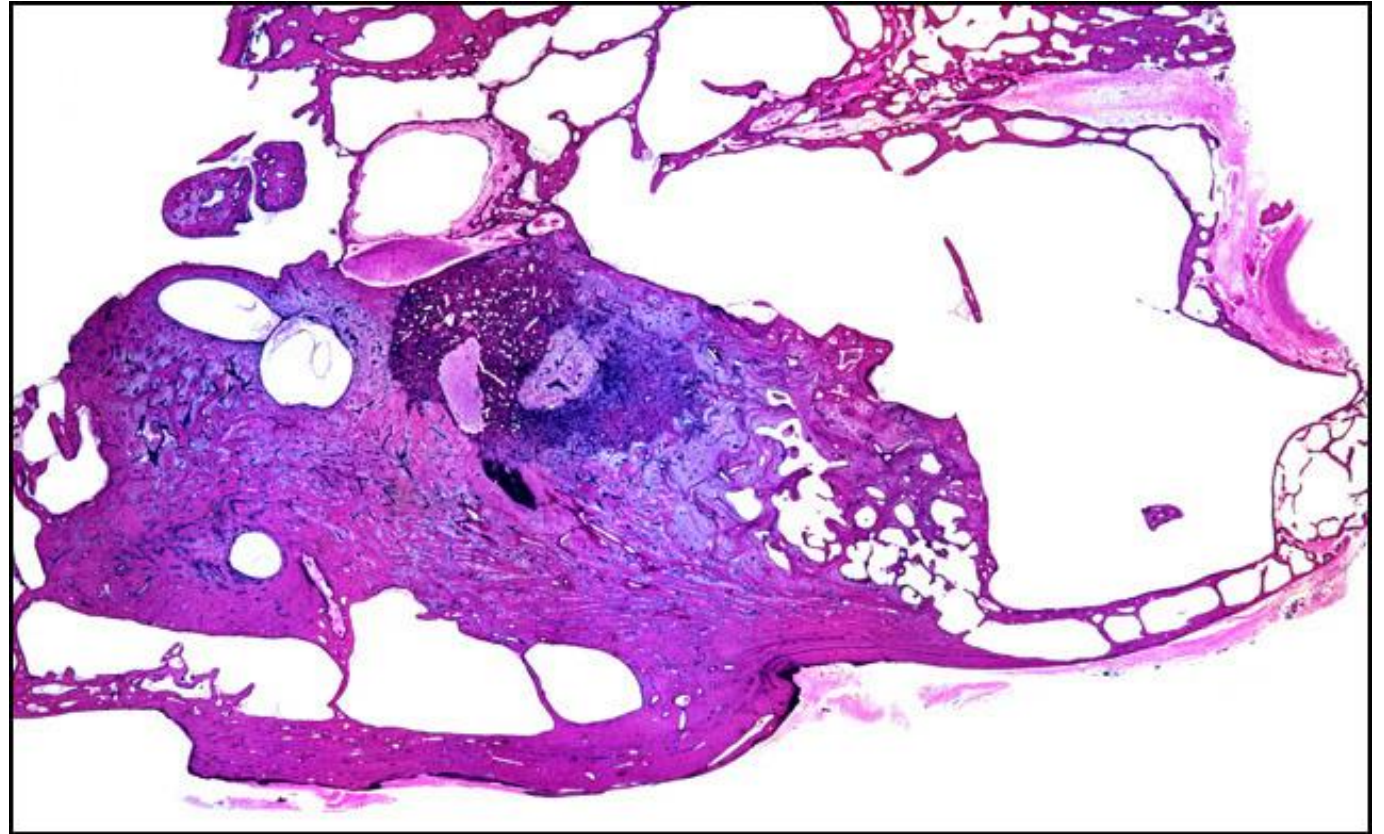
TB Case Number: 198

Gender: Female

Age (yrs.): 68

Otologic Diagnosis:

1. Otosclerosis, clinical, malignant, bilateral
2. Stapes fixation, otosclerosis, bilateral
3. Organ of Corti, atrophy, malignant otosclerosis, bilateral, more severe on left
4. Retrograde neuronal degeneration, bilateral, greatest in basal turns



Pneumatization of Petrous Apex, L-201

Title: Pneumatization of Petrous Apex, L-201

Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

TB Case Number: 998

Comments: Pneumatization of petrous apex

Gender: Female

Age (yrs.): 91

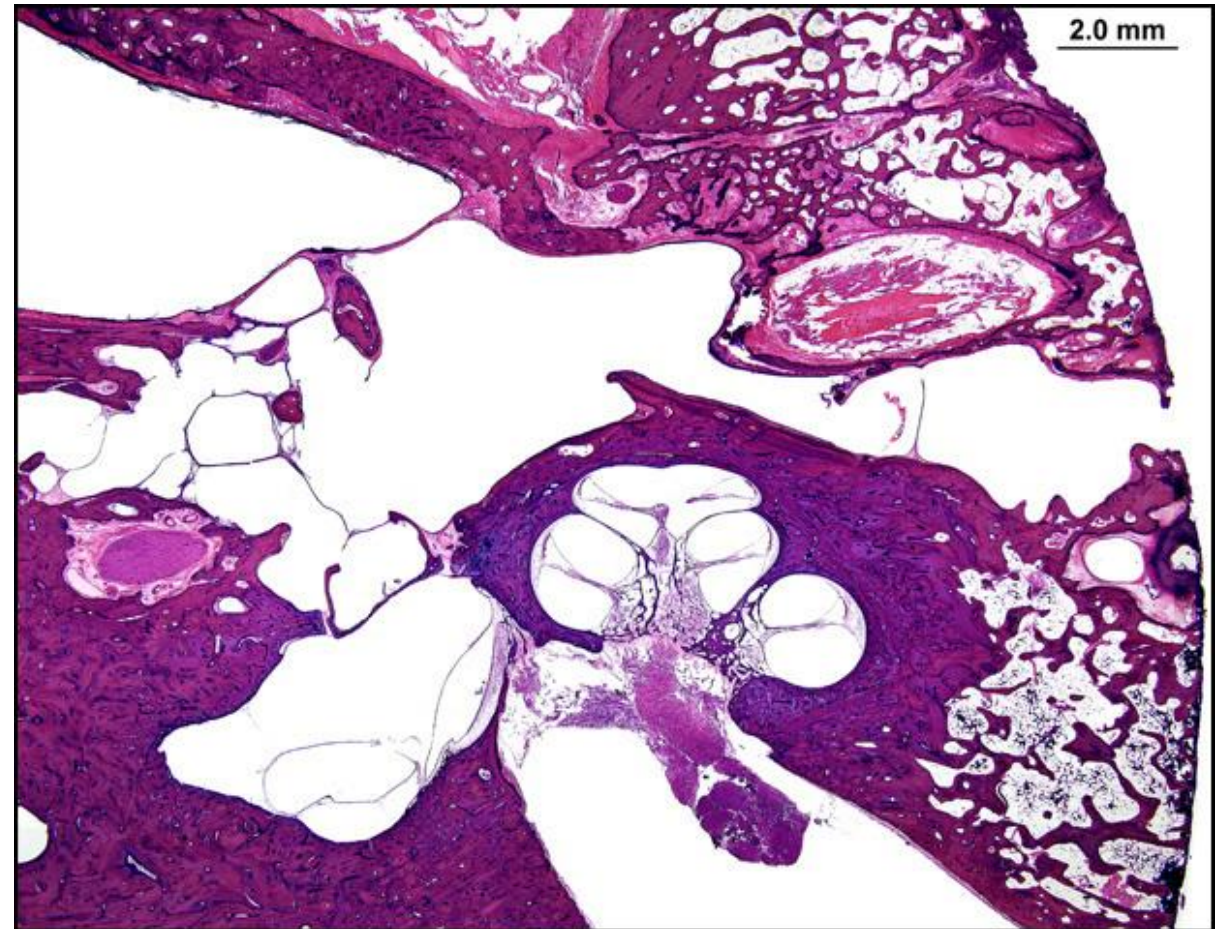
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss.



Bony Labyrinth, R-170

Title: Bony Labyrinth, R-170

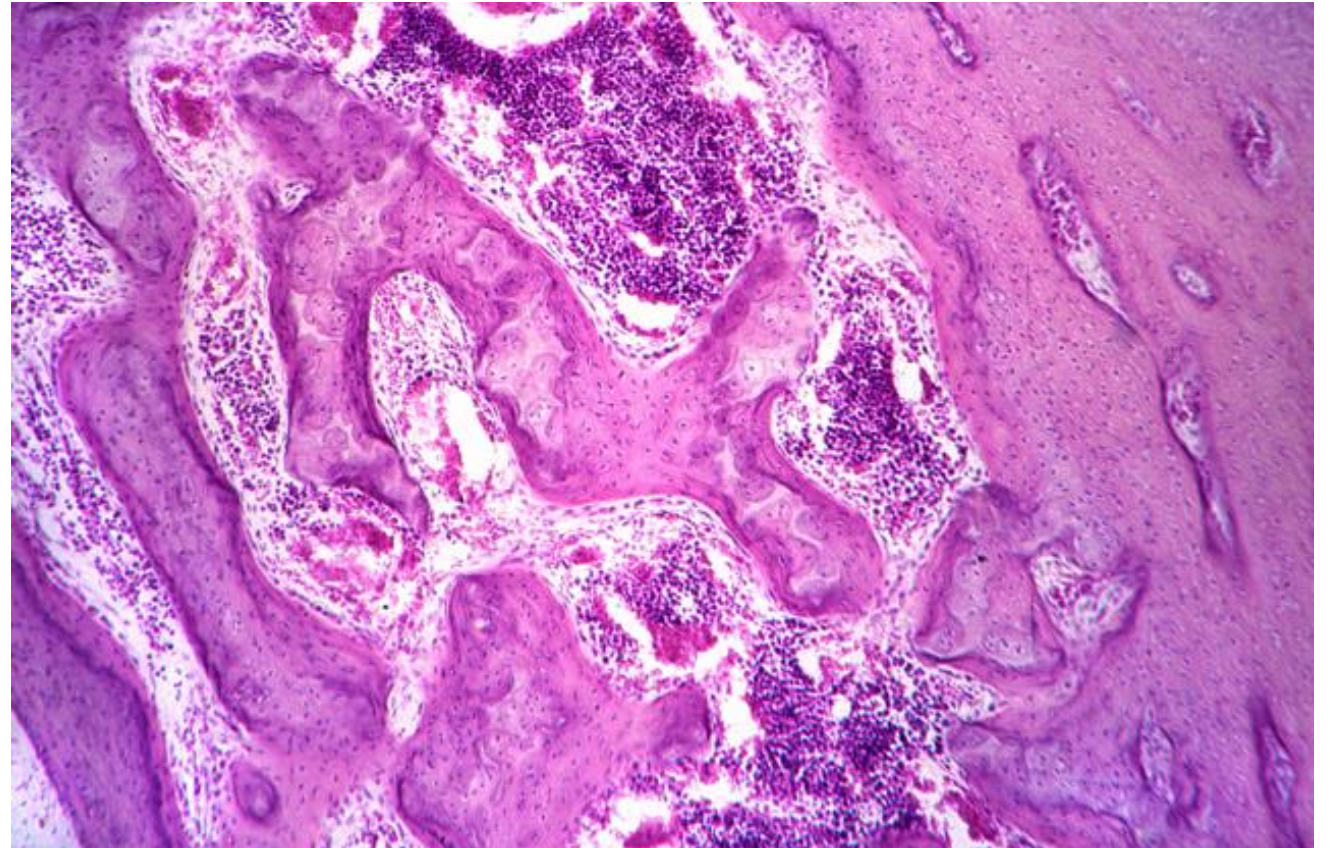
Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

TB Case Number: 185

Otologic Diagnosis:

1. Cyclops dysplasia, by history
2. Temporal bones, newborn, normal, bilateral
3. Bony labyrinths, normal, showing differentiation of the three layers, bilateral
4. Artifact, preparation, tears, external auditory canals and middle ears, bilateral



Arachnoid Granulation, R-186

Title: Arachnoid Granulation, R-186

Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

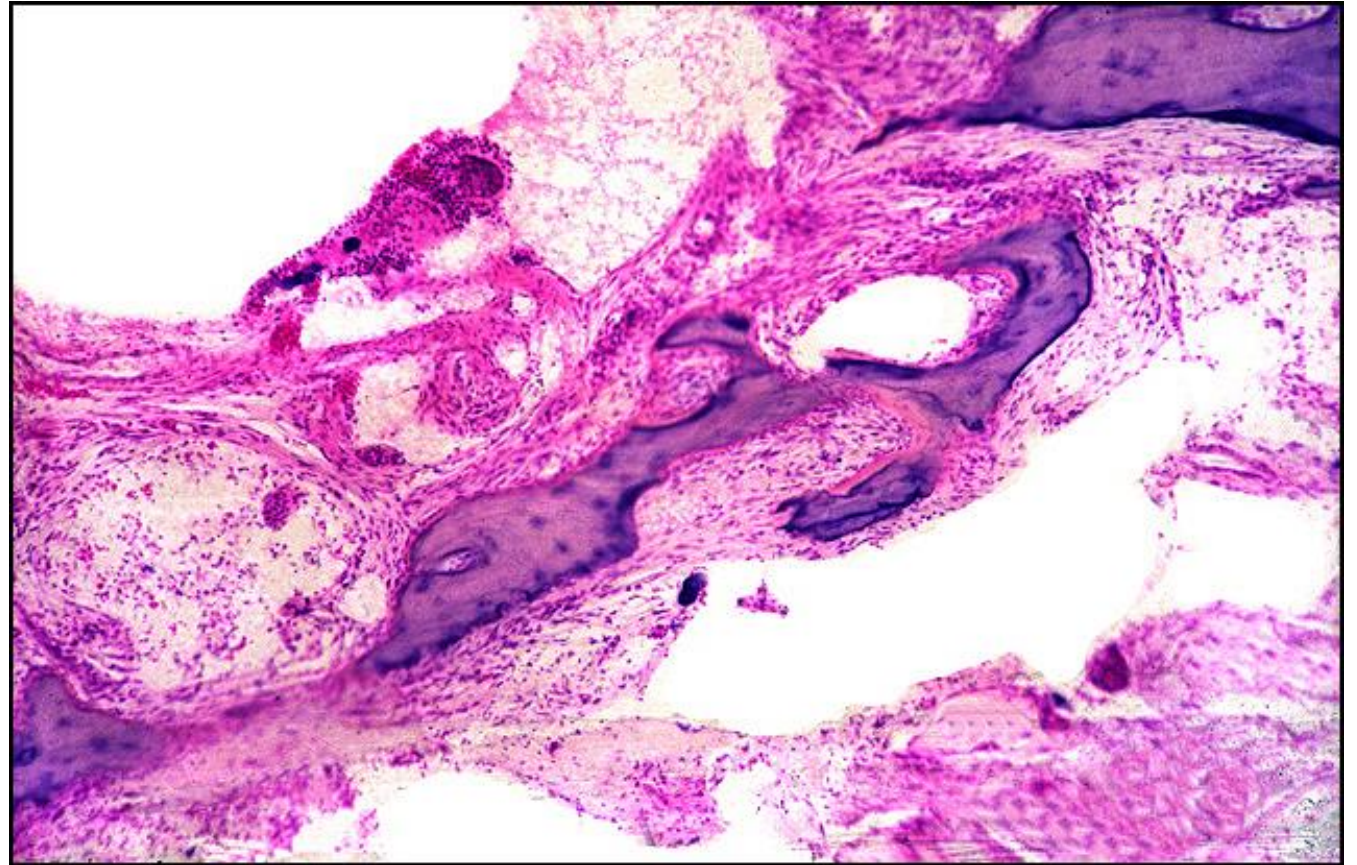
TB Case Number: 164

Gender: Female

Age (yrs.): 75

Otologic Diagnosis:

1. Presbycusis, cochlear conductive, presumptive
2. Membranous labyrinth, normal, bilateral
3. Bony labyrinth, normal, bilateral
4. Pacchionian bodies, mastoid, bilateral



Arachnoid Granulation, L-100

Title: Arachnoid Granulation, L-100

Chapter: Anatomy

Chapter Section: Mastoid and Pneumatization

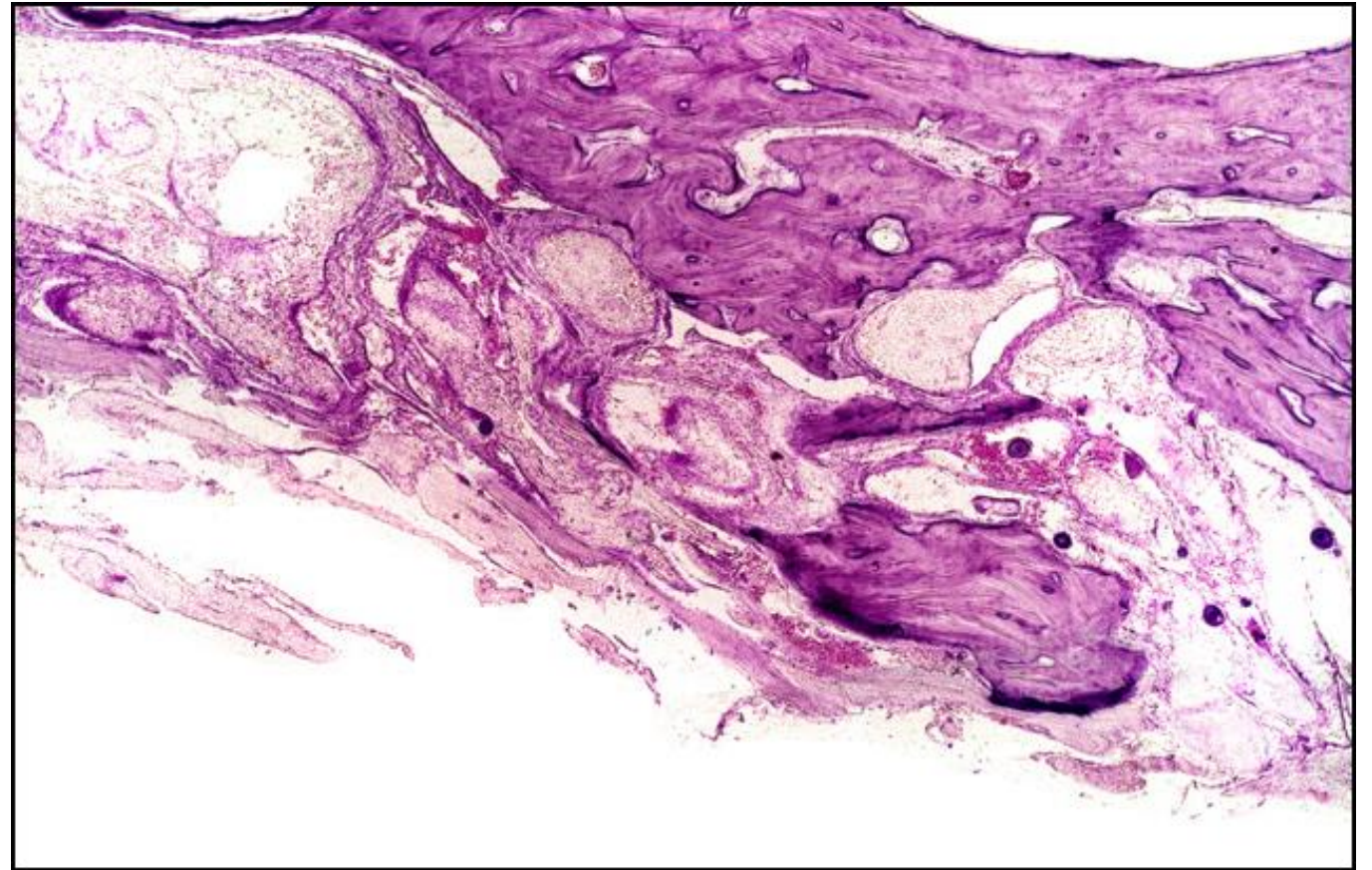
TB Case Number: 117

Gender: Female

Age (yrs.): 90

Otologic Diagnosis:

1. Paget's disease, osteoblastic and remodeled phase, mild, left
2. Internal auditory canal, narrowed, Paget's disease, without nerve compression, left
3. Pacchionian bodies, mastoid, left
4. Artifact, preparation, membranous labyrinth, moderately severe.



Microfissure, R-221

Title: Microfissure, R-221

Chapter: Anatomy

Chapter Section: Otic Capsule

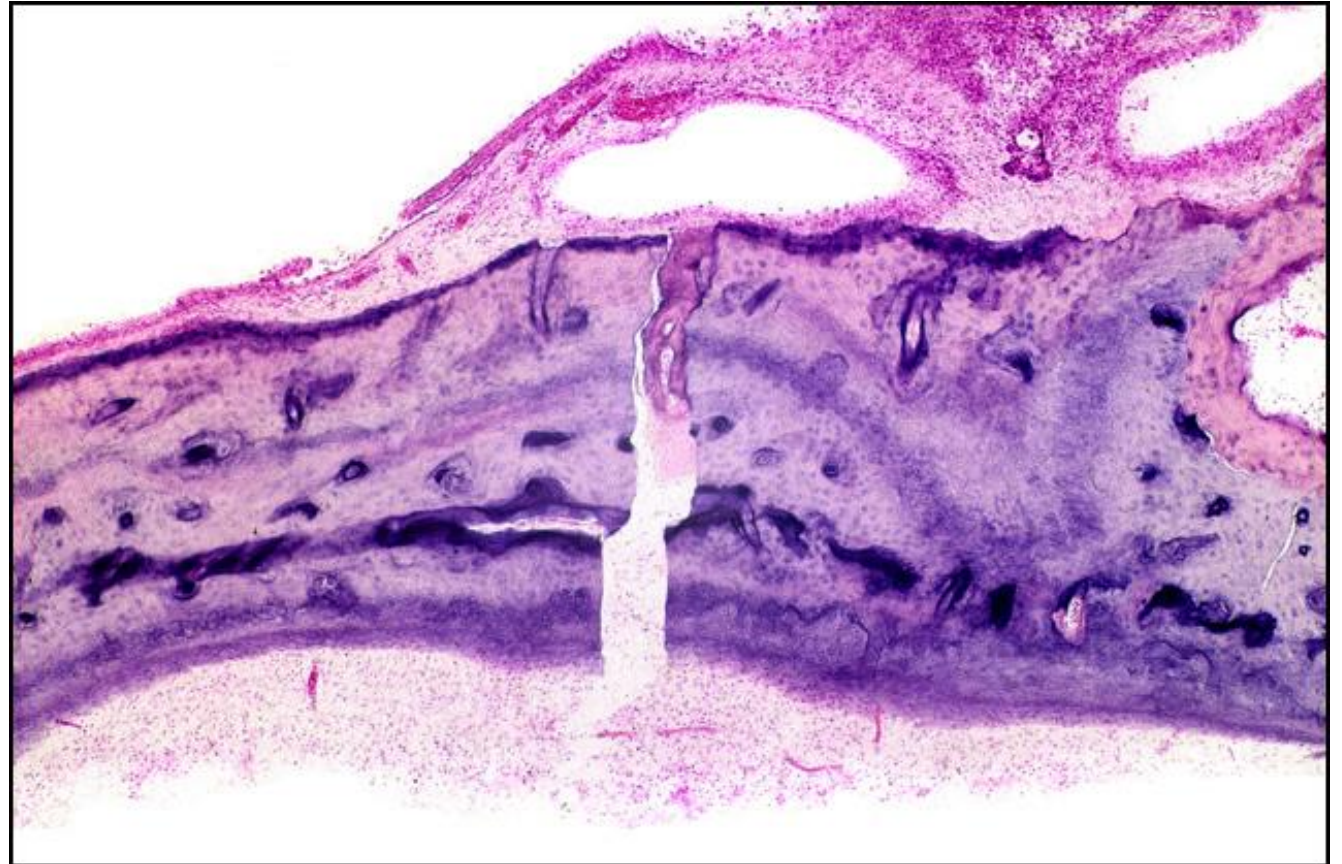
TB Case Number: 69

Gender: Male

Age (yrs.): 85

Otologic Diagnosis:

1. Paget's disease, temporal bone, severe, bilateral
2. Microneuroma, multiple, in association with Paget's disease, left
3. Microfracture, bony labyrinth, multiple, associated with Paget's disease, right
4. Internal auditory canal, elongated, in Paget's



Round Window Microfissure, R-341

Title: Round Window Microfissure, R-341

Chapter: Anatomy

Chapter Section: Otic Capsule

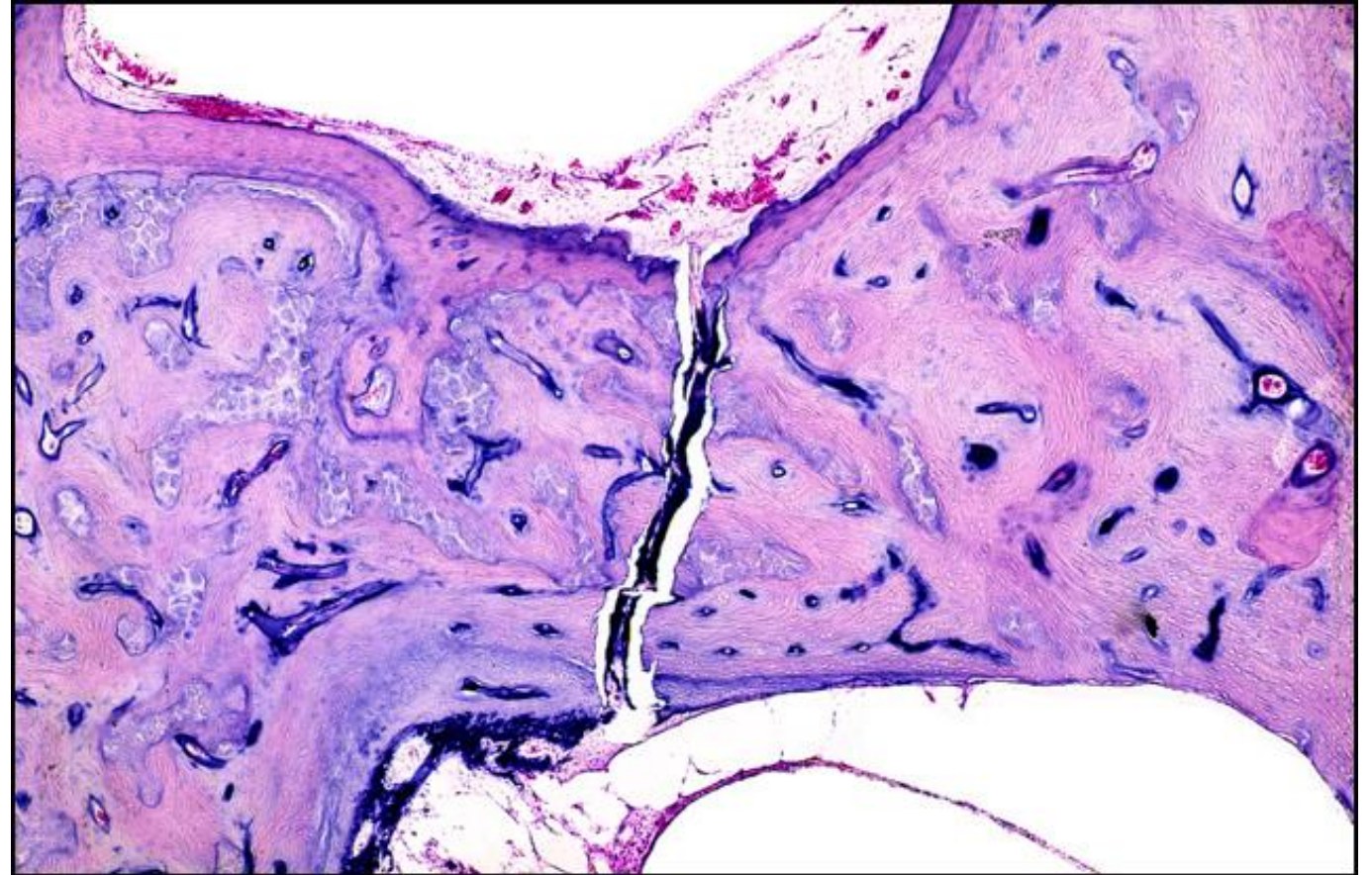
TB Case Number: 374

Gender: Male

Age (yrs.): 89

Otologic Diagnosis:

1. Vestibular neuritis, acute, severe, bilateral
2. Atrophy, vestibular sense organs
3. Presbycusis, neural, bilateral
4. Bone proliferation, lateral and posterior semicircular canals, right
5. Malleus, fixation, congenital, bilateral



Round Window Microfissure, R-341

Title: Round Window Microfissure, R-341

Chapter: Anatomy

Chapter Section: Otic Capsule

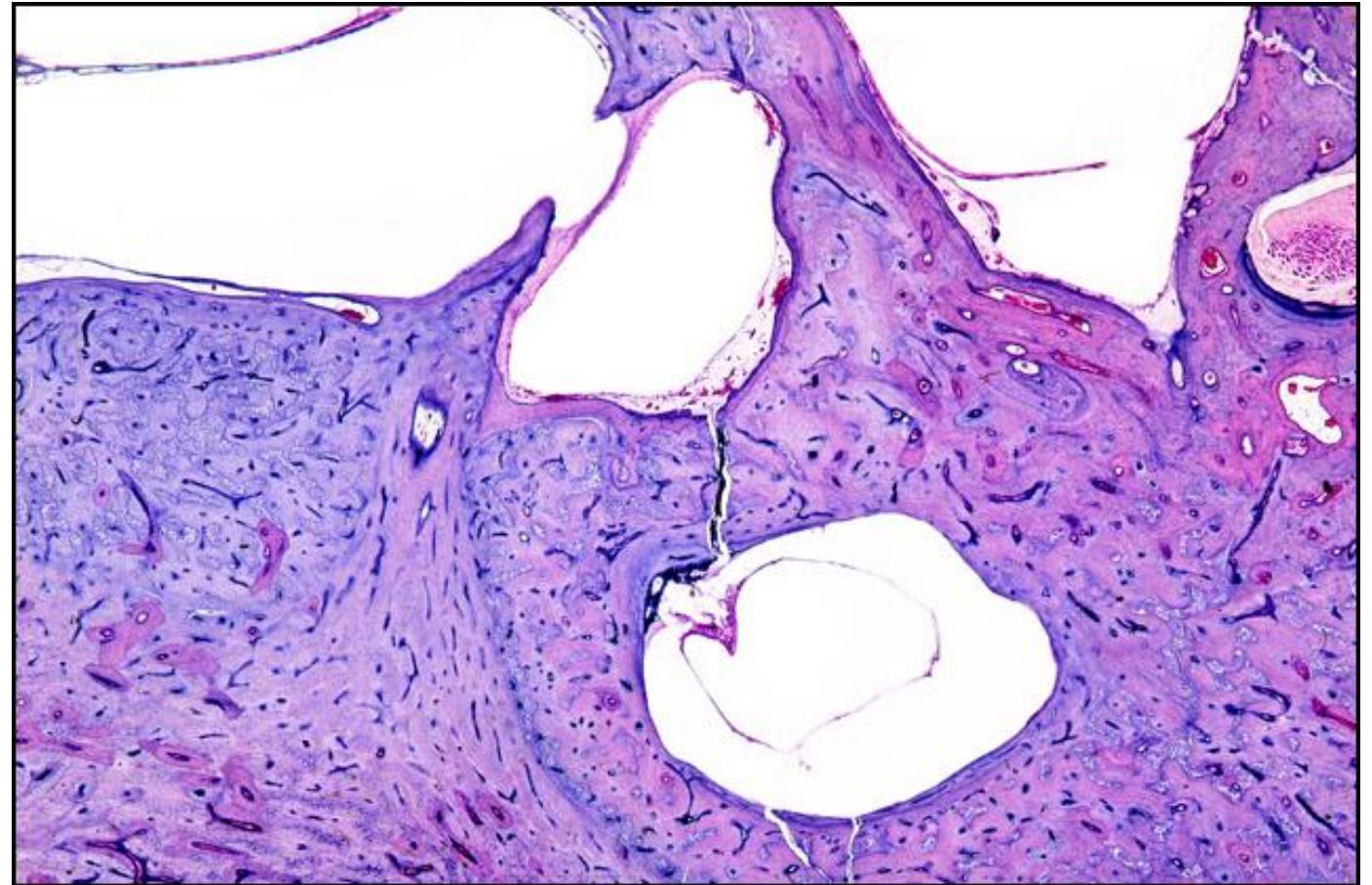
TB Case Number: 374

Gender: Male

Age (yrs.): 89

Otologic Diagnosis:

1. Vestibular neuritis, acute, severe, bilateral
2. Atrophy, vestibular sense organs
3. Presbycusis, neural, bilateral
4. Bone proliferation, lateral and posterior semicircular canals, right
5. Malleus, fixation, congenital, bilateral



Fissula Ante Fenestram, L-181

Title: Fissula Ante Fenestram, L-181

Chapter: Anatomy

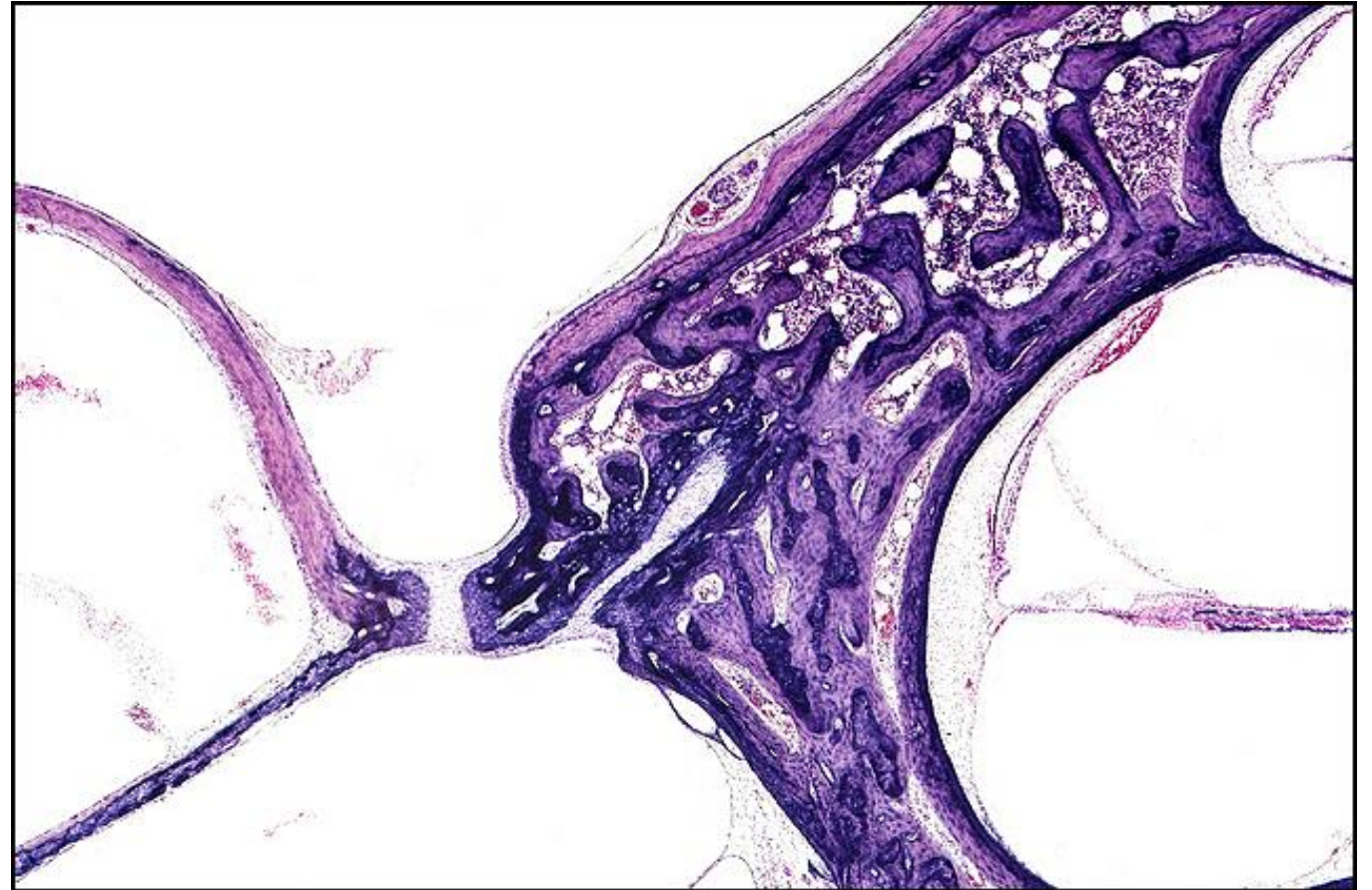
Chapter Section: Otic Capsule

TB Case Number: 145

Gender: Female

Otologic Diagnosis:

1. Temporal bone, newborn, normal, left
2. Membranous labyrinth, normal, left
3. Bony labyrinth, normal, left
4. Hemorrhage, recent, perilymphatic space, cochlear and vestibular labyrinths, left
5. Styloid eminence, normal, left



Cochlear Aqueduct, L-341

Title: Cochlear aqueduct, L-341

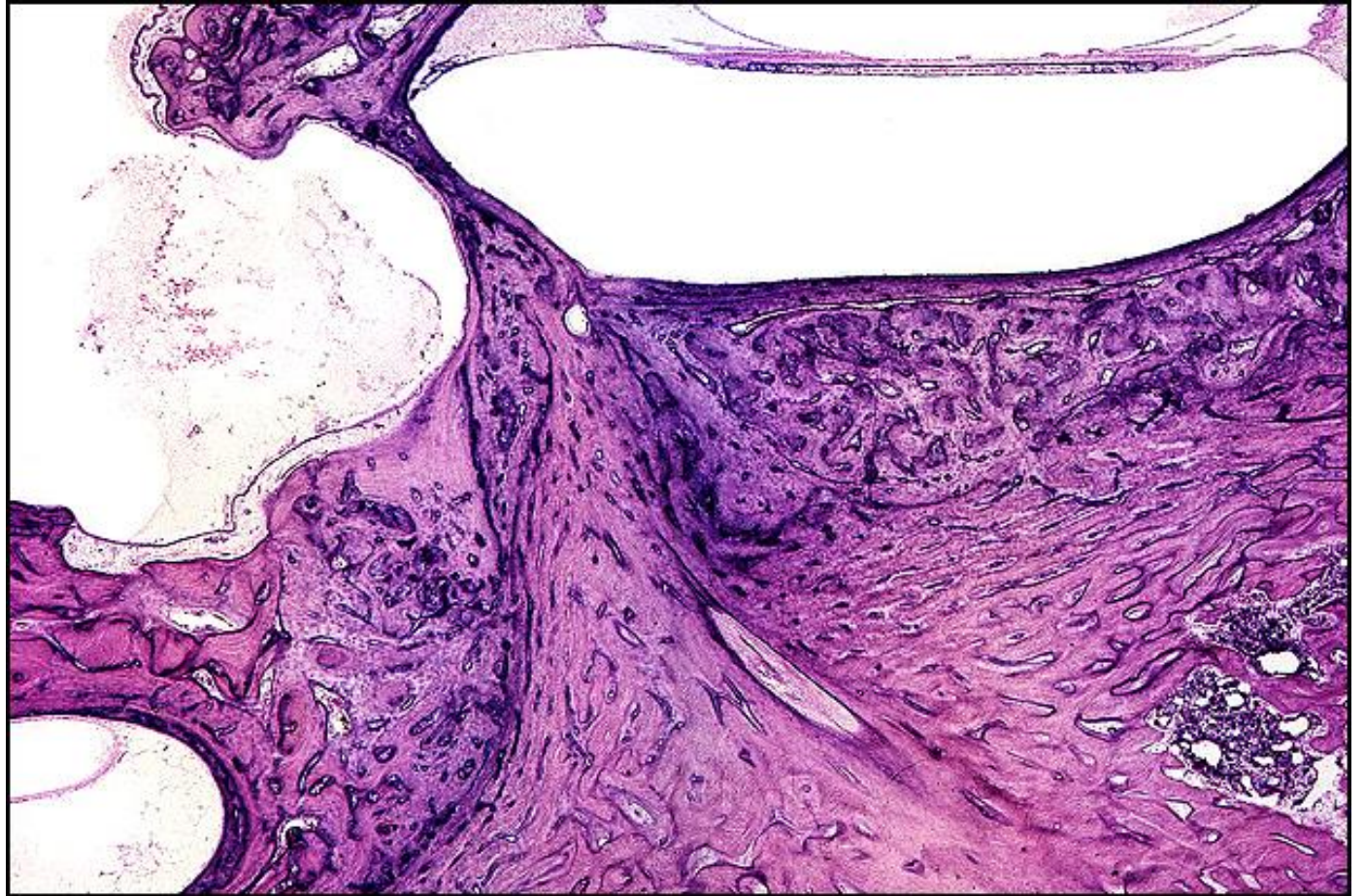
Chapter: Anatomy

Chapter Section: Otic Capsule

TB Case Number: 633

Gender: Male

Otologic Diagnosis: Normal temporal bones



Cochlear Aqueduct, R-332

Title: Cochlear Aqueduct, R-332

Chapter: Anatomy

Chapter Section: Otic Capsule

TB Case Number: 923

Comments: Wide and patent cochlear aqueduct in 72 yr. old man

Gender: Male

Age (yrs.): 72

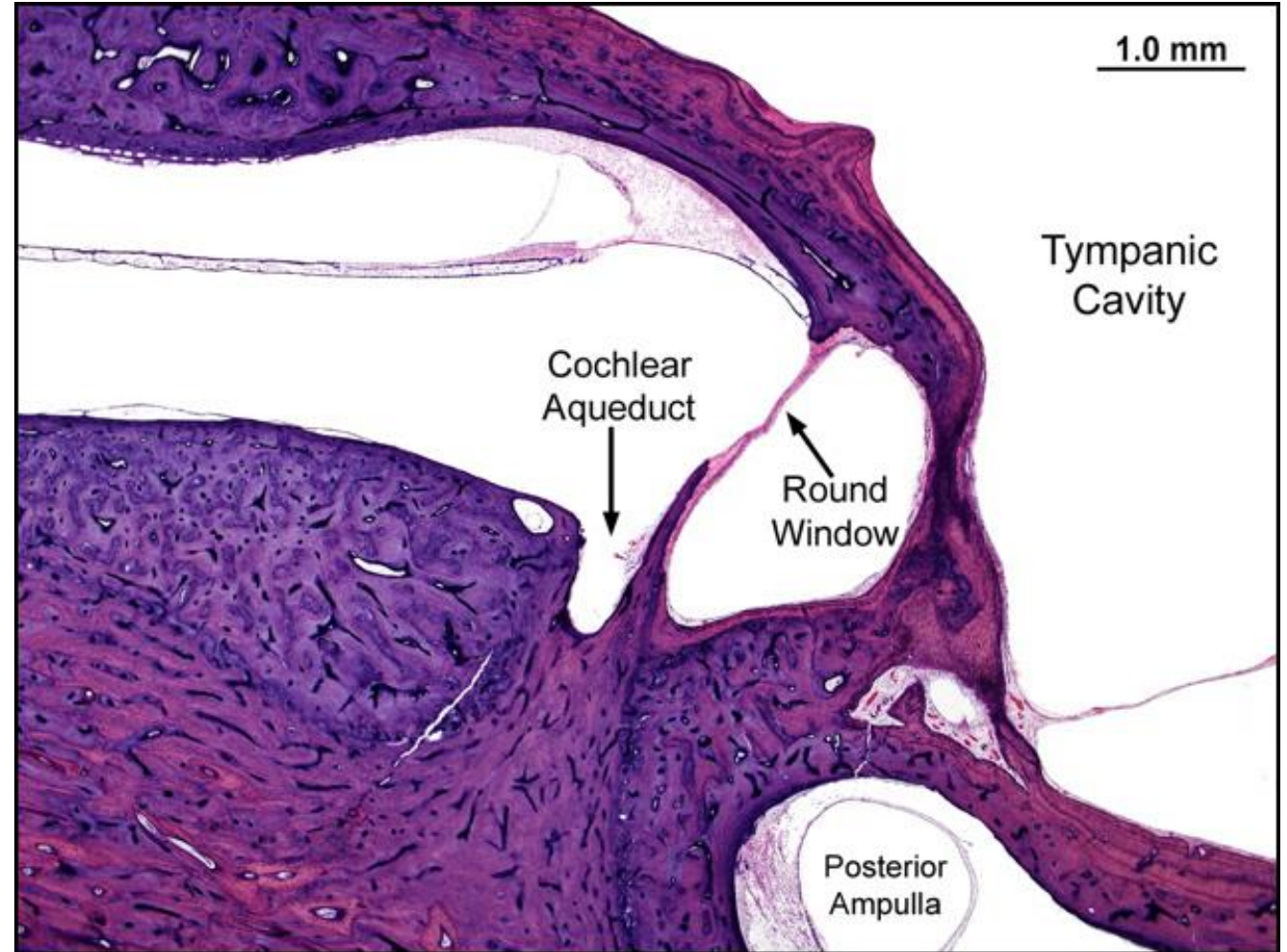
Otologic Diagnosis:

Clinical:

Sensorineural hearing loss, high frequency, bilateral, consistent with presbycusis.

Histopathological:

Loss of outer and inner hair cells, lower basal turn, ~ 0-10 mm region, right greater than left, consistent with sensory presbycusis.



Cochlear Aqueduct, L-381

Title: Cochlear Aqueduct, L-381

Chapter: Anatomy

Chapter Section: Otic Capsule

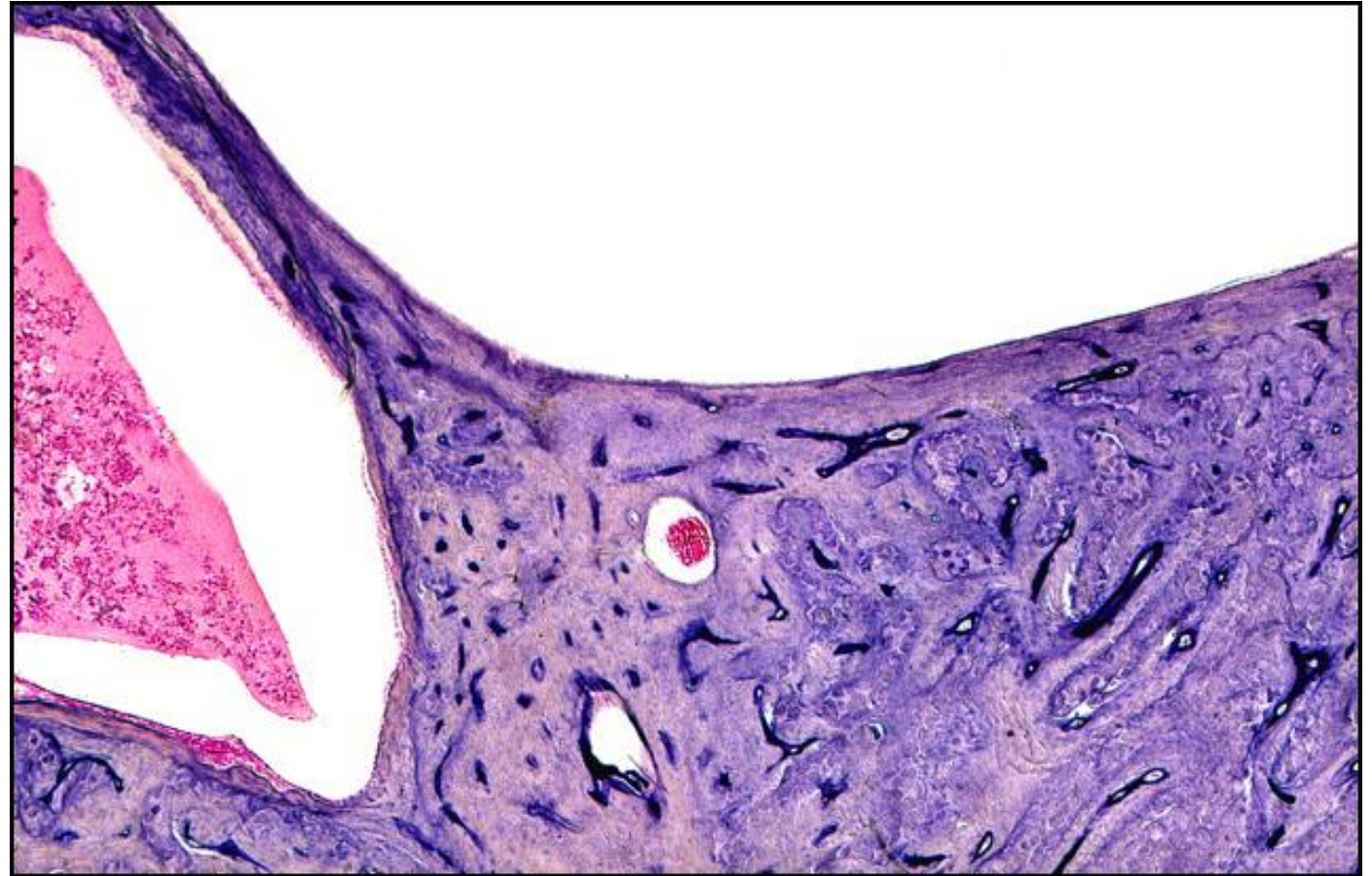
TB Case Number: 55

Gender: Male

Age (yrs.): 63

Otologic Diagnosis:

1. Otosclerosis, stapes fixation, unilateral, right
2. Artifact, preparation, compression, moderate, bilateral
3. Artifact, preparation, lateral ampulla and utricle, left
4. Facial nerve, dehiscence, mastoid segments, anatomic variant, bilateral



Long Internal Auditory Canal, R-211

Title: Long Internal Auditory Canal, R-211

Chapter: Anatomy

Chapter Section: Otic Capsule

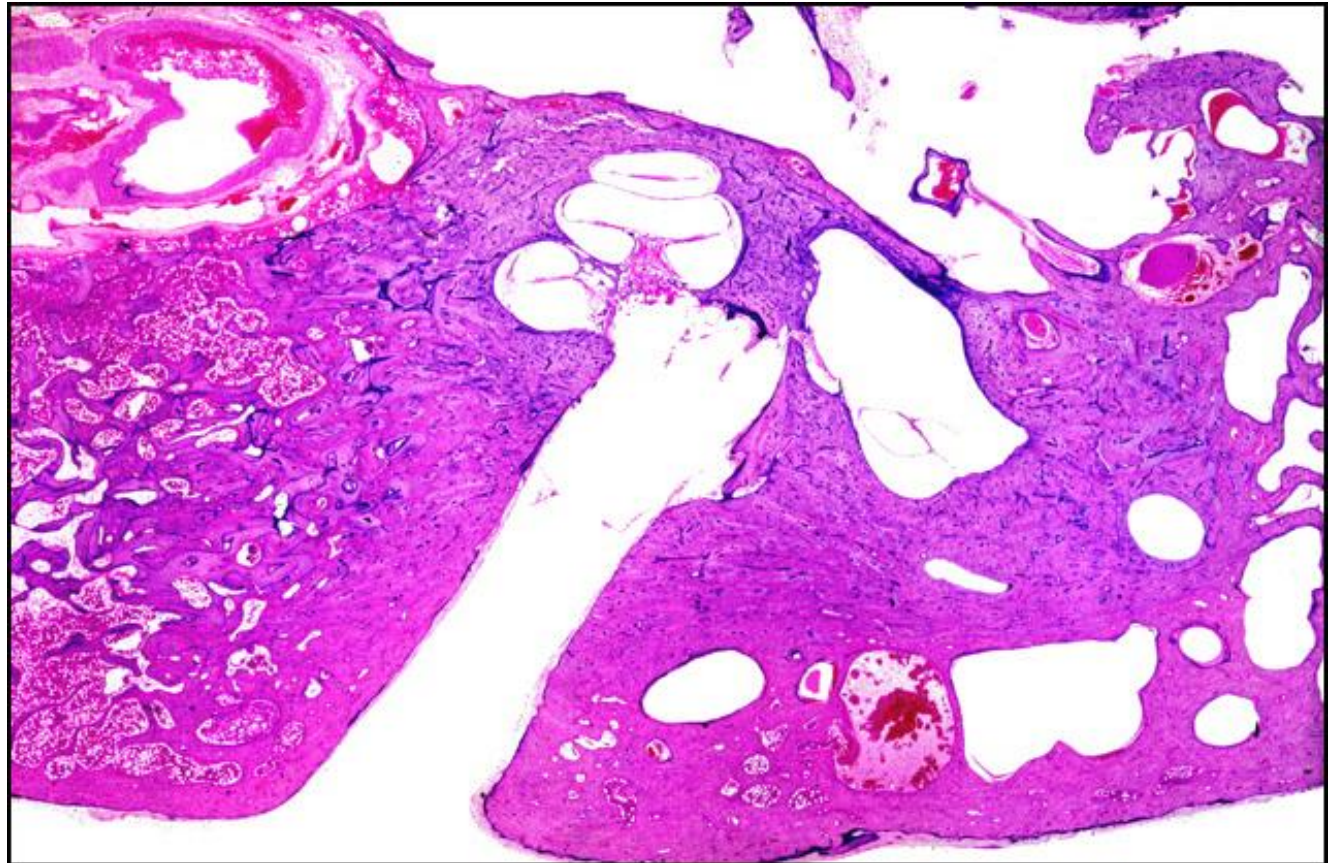
TB Case Number: 558

Gender: Female

Age (yrs.): 90

Otologic Diagnosis:

1. Sensorineural hearing loss, bilateral
2. Degeneration of the stria vascularis and spiral ligament, bilateral
3. Cochlear neuronal degeneration, partial, bilateral



Eustachian Tube, R-287

Title: Eustachian Tube, R-287

Chapter: Anatomy

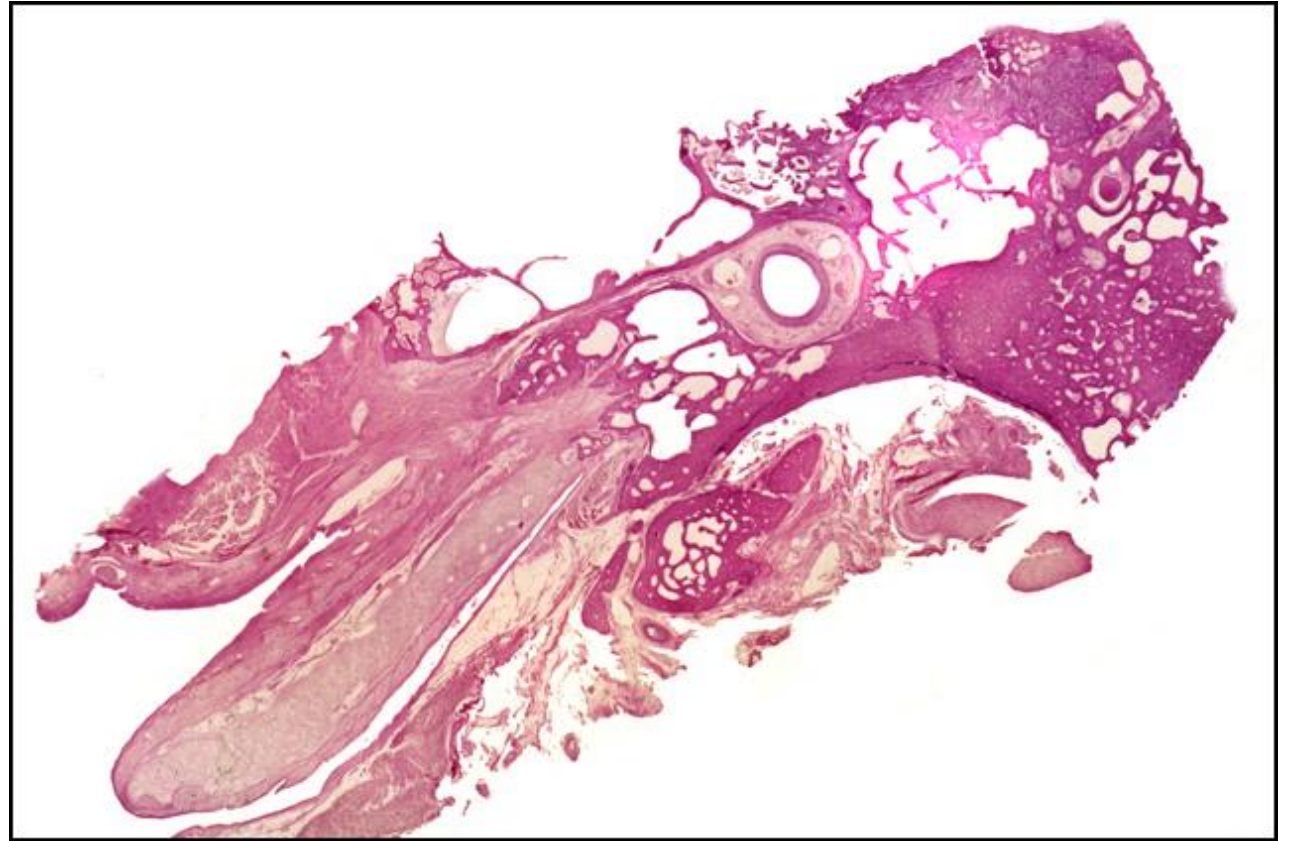
Chapter Section: Eustachian Tube

TB Case Number: 683

Gender: Male

Age (yrs.): 70

Otologic Diagnosis: Normal (eustachian tube study)



Eustachian Tube, R-287

Title: Eustachian Tube, R-287

Chapter: Anatomy

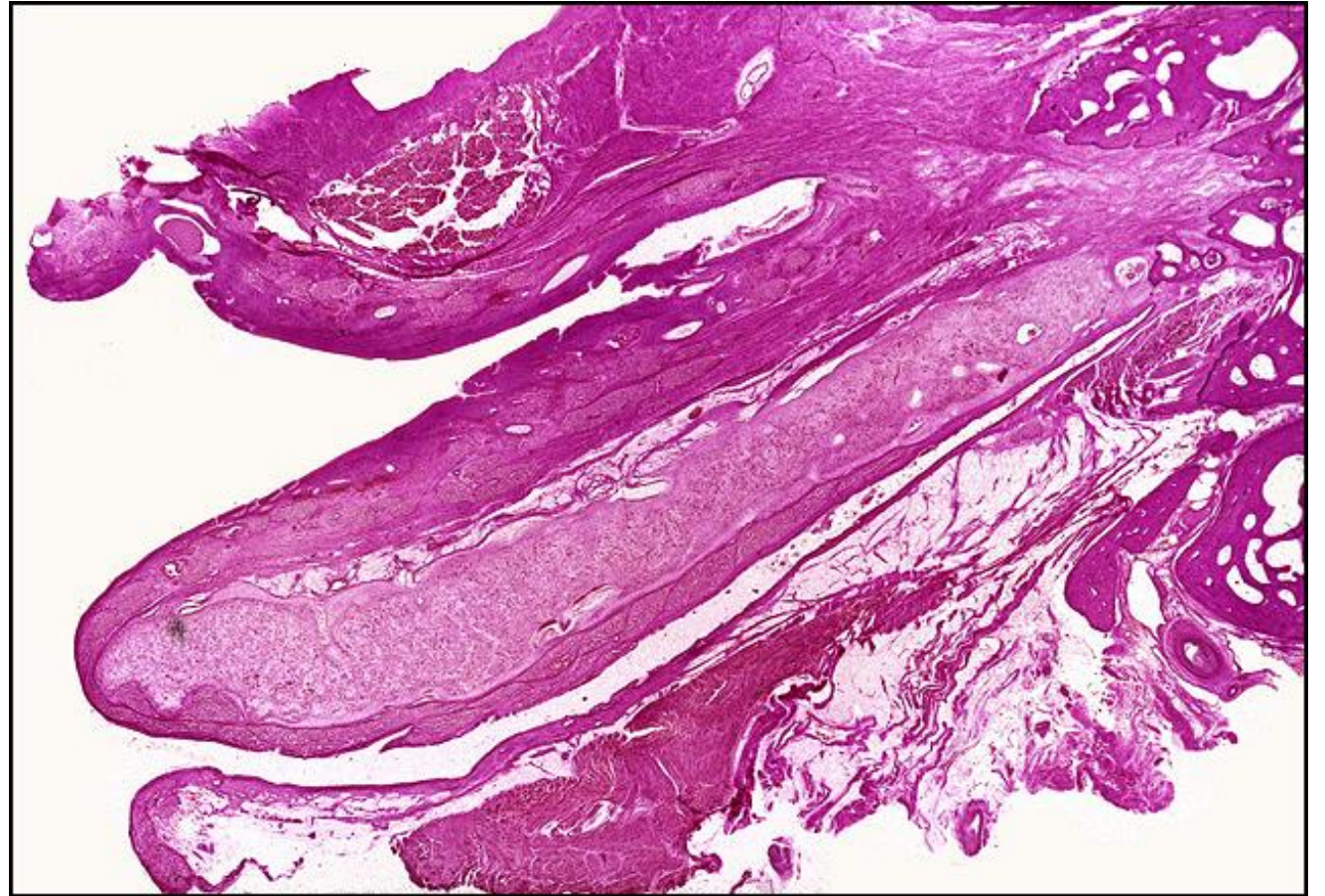
Chapter Section: Eustachian Tube

TB Case Number: 683

Gender: Male

Age (yrs.): 70

Otologic Diagnosis: Normal (eustachian tube study)



Labyrinth, L-171

Title: Labyrinth, L-171

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 76

Gender: Male

Age (yrs.): 87

Otologic Diagnosis:

1. Cupulolithiasis, posterior semicircular canal, right
2. Otitis media, acute, mild, agonal, left
3. Spiral ligament, atrophy, severe, apical region, bilateral
4. Stria vascularis, atrophy, apical region, patchy, bilateral



Cochlea, R-181

Title: Cochlea, R-181

Chapter: Anatomy

Chapter Section: Cochlea

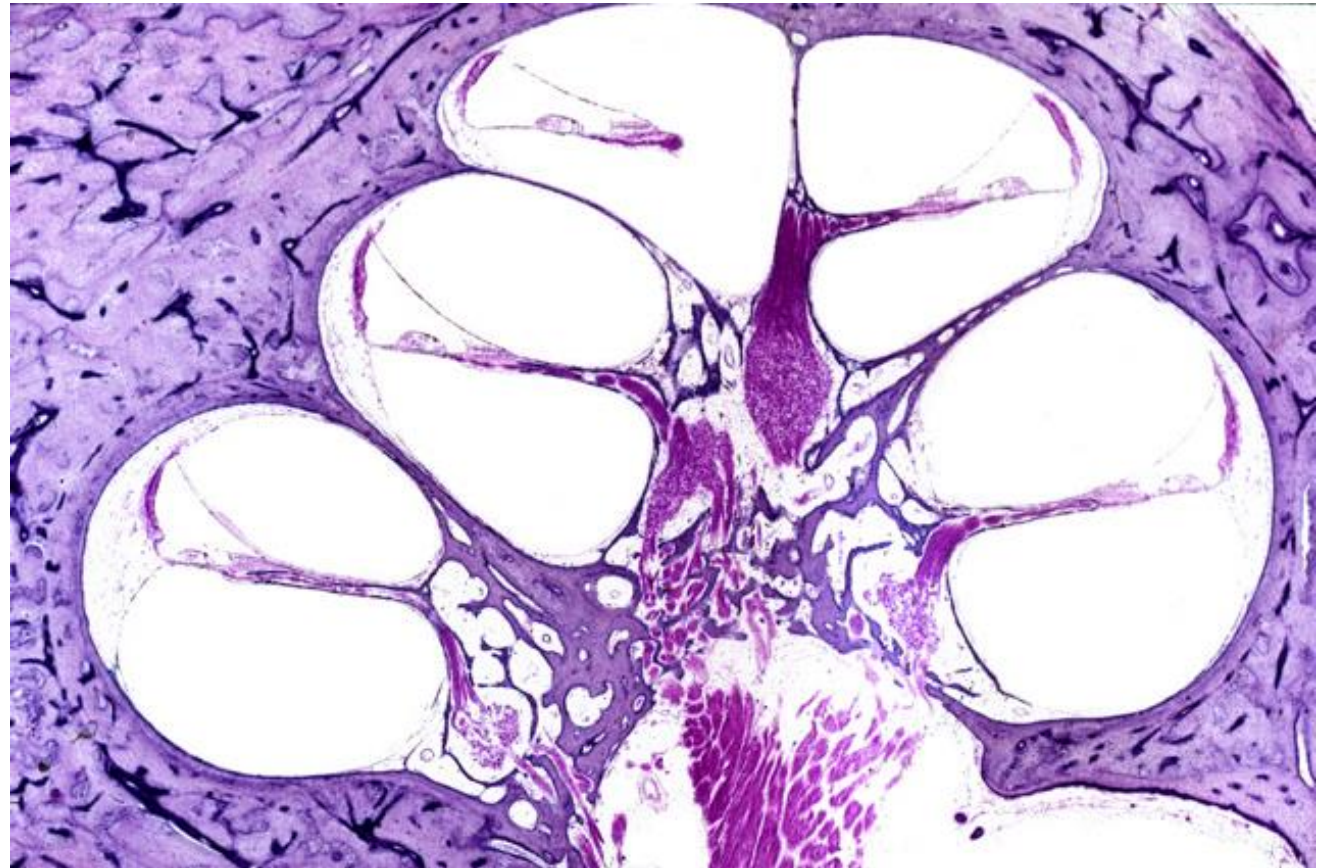
TB Case Number: 652

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Normal, L-311

Title: Normal, L-311

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 652

Comments: Female aged 63 years, PM time 8 hours

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Normal, L-311

Title: Normal, L-311

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 652

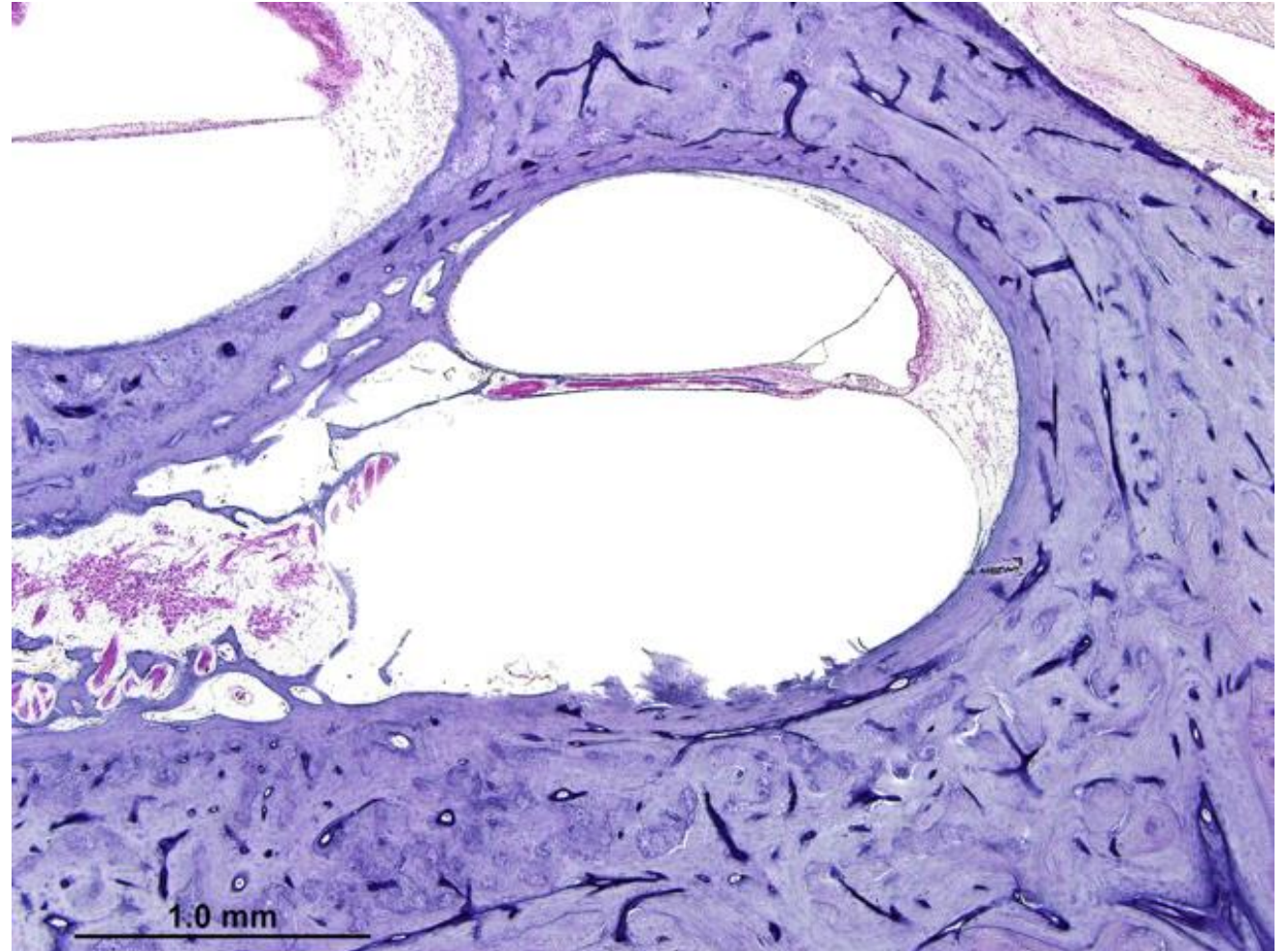
Comments: Female aged 63 years, PM time 8 hours

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Normal, L-311

Title: Normal, L-311

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 652

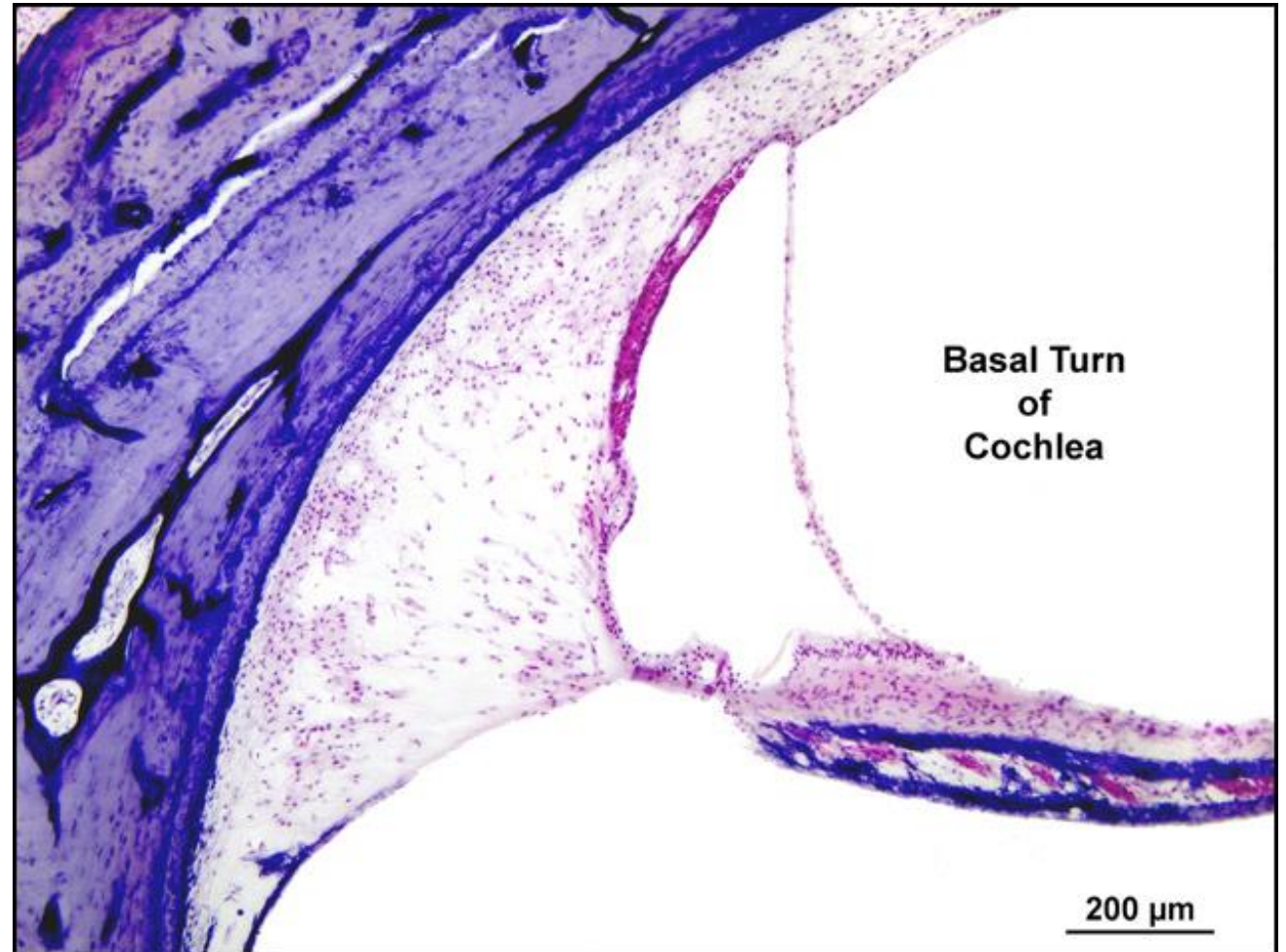
Comments: Female aged 63 years, PM time 8 hours

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Normal, L-311

Title: Normal, L-311

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 652

Comments: Female aged 63 years, PM time 8 hours

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Mid-Modiolar Section, Cochlea, L-191

Title: Mid-Modiolar Section, Cochlea, L-191

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 869

Comments: Normal mid-modiolar section

Gender: Male

Age (yrs.): 44

Otologic Diagnosis:

1. Hodgkin's cell infiltrate, bone marrow, petrous apex
2. Excellent histologic preservation, membranous labyrinth
3. No pathologic changes of the bony or membranous labyrinths



Normal Scala Media, L-191

Title: Normal Scala Media, L-191

Chapter: Anatomy

Chapter Section: Cochlea

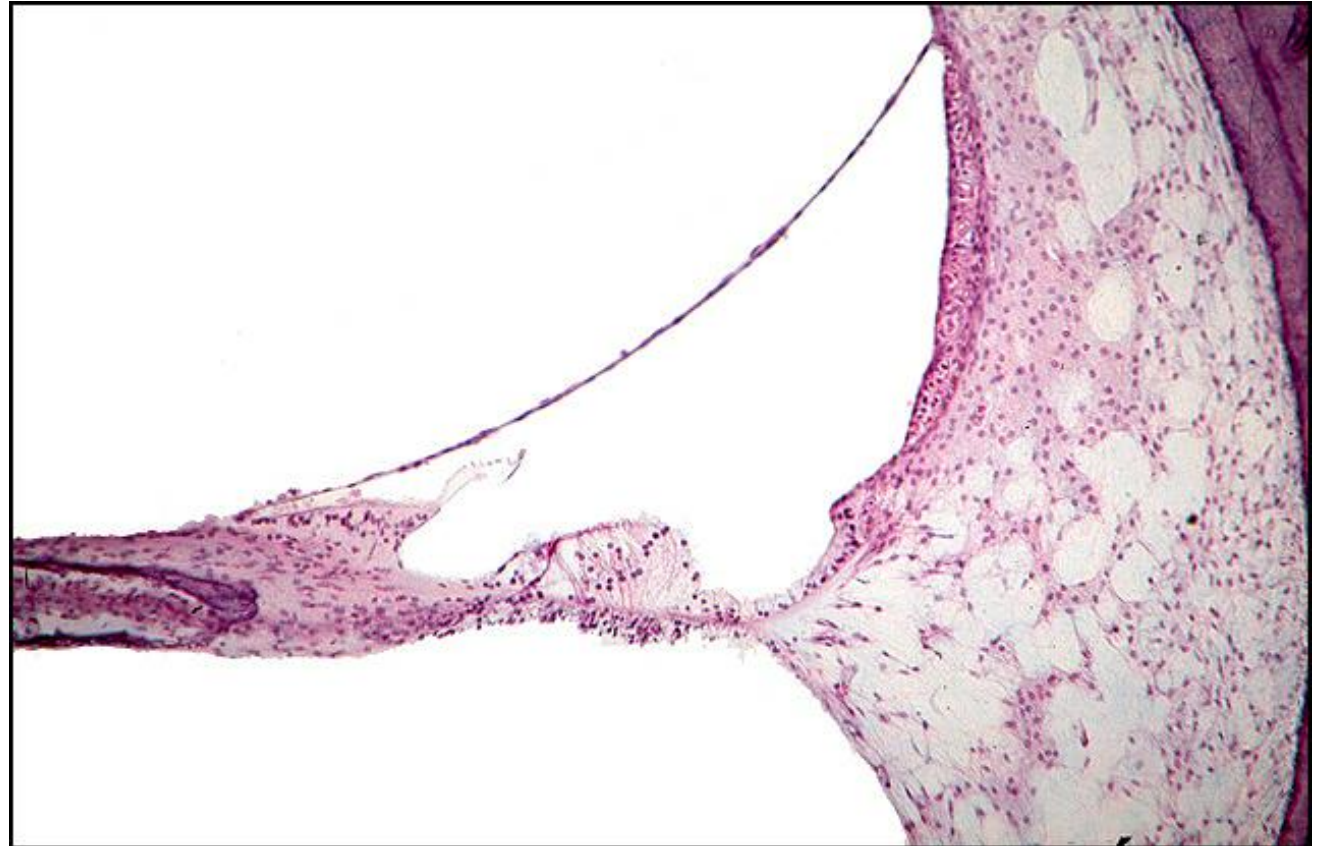
TB Case Number: 869

Gender: Male

Age (yrs.): 44

Otologic Diagnosis:

1. Hodgkin's cell infiltrate, bone marrow, petrous apex
2. Excellent histologic preservation, membranous labyrinth
3. No pathologic changes of the bony or membranous labyrinths



Normal Organ of Corti, L-191

Title: Normal Organ of Corti, L-191

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 869

Gender: Male

Age (yrs.): 44

Otologic Diagnosis:

1. Hodgkin's cell infiltrate, bone marrow, petrous apex
2. Excellent histologic preservation, membranous labyrinth
3. No pathologic changes of the bony or membranous labyrinths



Scala Media, L-220

Title: Scala media, L-220

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 441

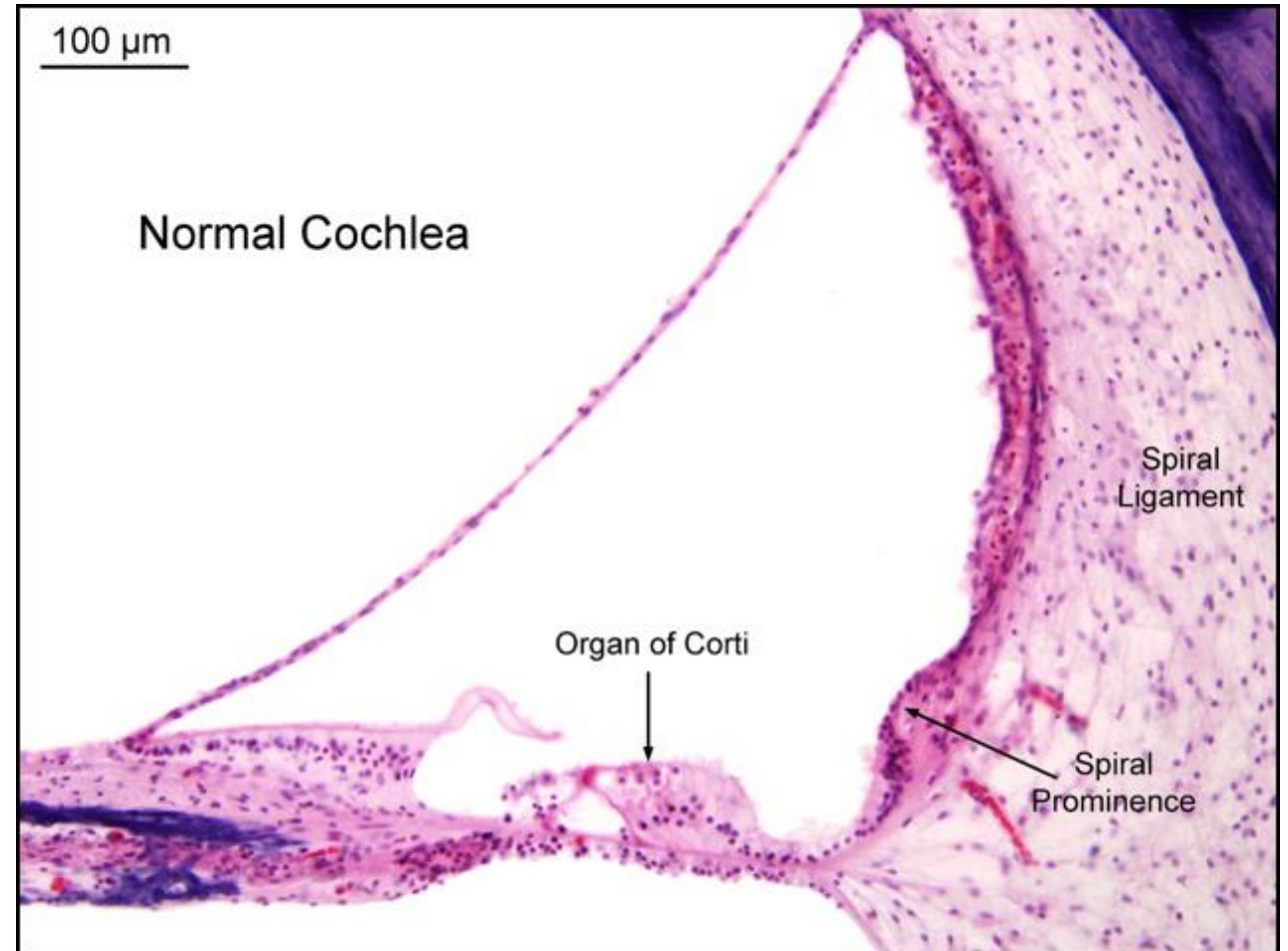
Comments: Normal cochlea from 7-month-old infant

Gender: Female

Age (yrs.): 1

Otologic Diagnosis:

1. Subacute hyperplastic otitis media and mastoiditis, right
2. Normal left ear, 8-month-old infant



Hook Region of Cochlea

Title: Hook Region of Cochlea

Chapter: Anatomy

Chapter Section: Cochlea

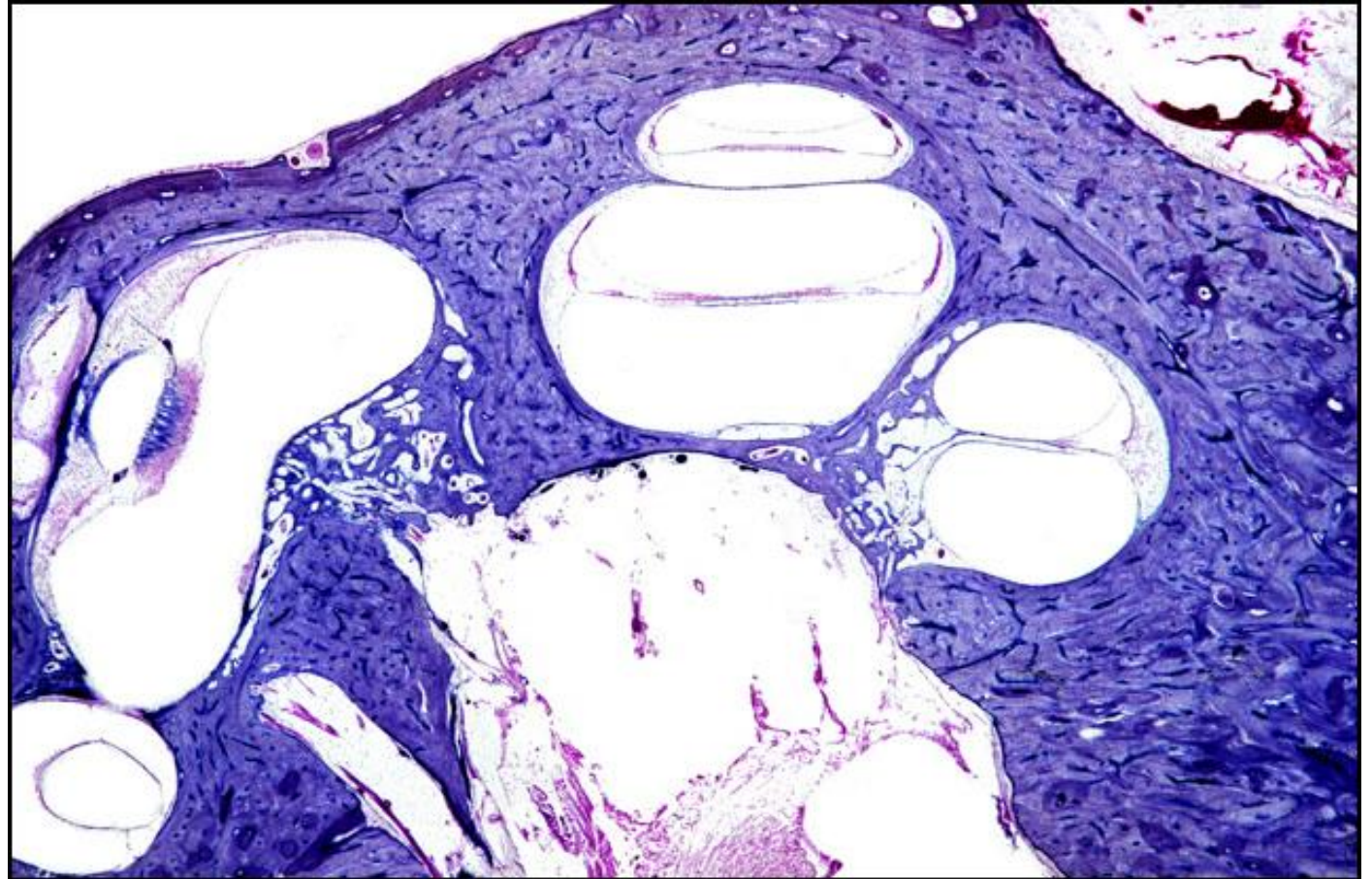
TB Case Number: 726

Gender: Male

Age (yrs.): 88

Otologic Diagnosis:

1. Sudden deafness, left, caused by viral labyrinthitis
2. Primary neural degeneration, severe
3. Acute otitis media, right



Ductus Reuniens, L-381

Title: Ductus Reuniens, L-381

Chapter: Anatomy

Chapter Section: Cochlea

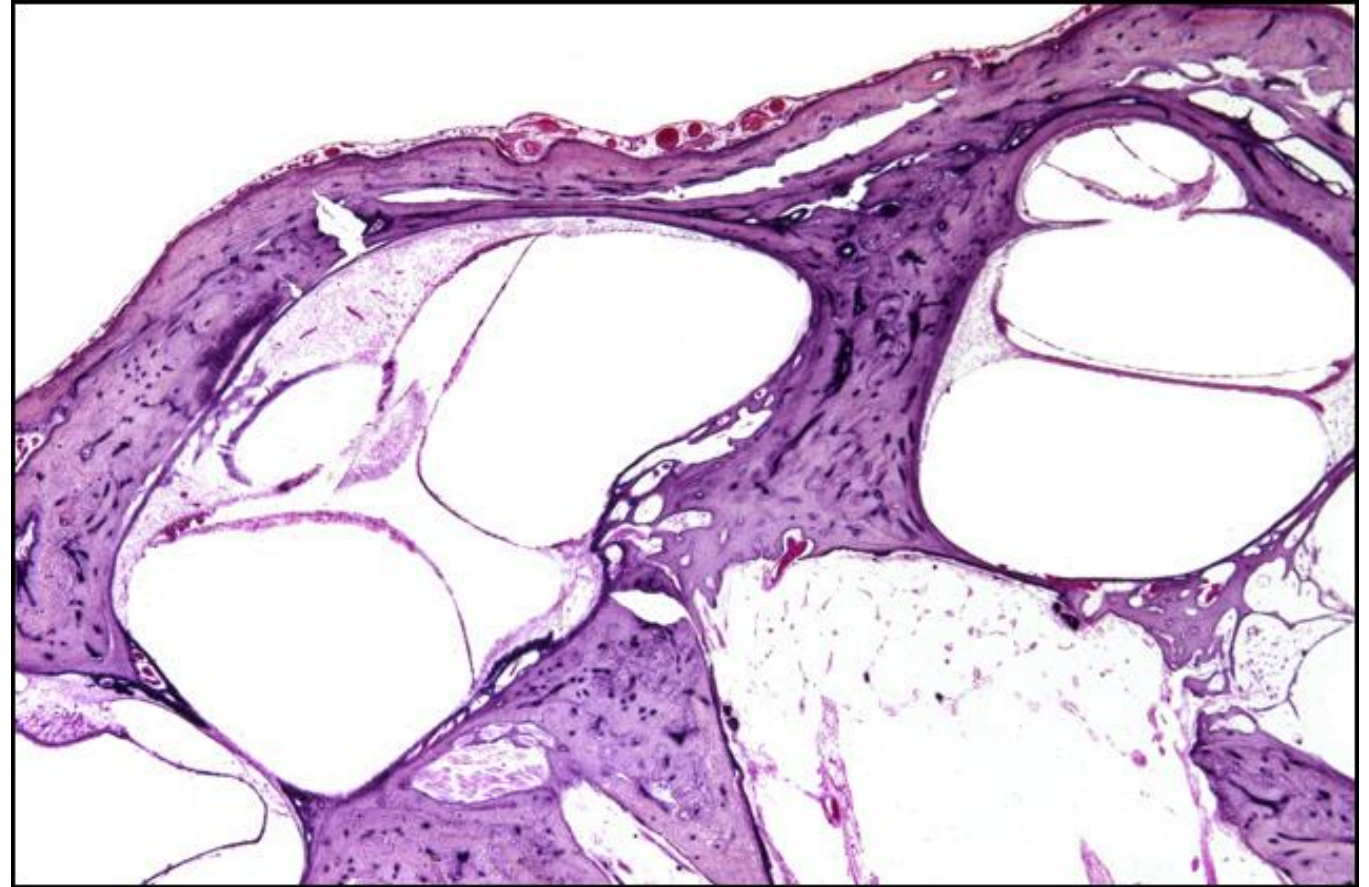
TB Case Number: 170

Gender: Female

Age (yrs.): 74

Otologic Diagnosis:

1. Mondini dysplasia, bilateral
2. Cochlear duct, short, dysmorphic, Mondini dysplasia, bilateral
3. Modiolus, dysmorphic, Mondini dysplasia, bilateral
4. Ductus reuniens, saccule, saccular duct, endolymphatic duct, and endolymphatic sac; enlarged.



Movat's Pentachrome Stain, Normal, L-247

Title: Movat's Pentachrome Stain, Normal, L-247

Chapter: Anatomy

Chapter Section: Cochlea

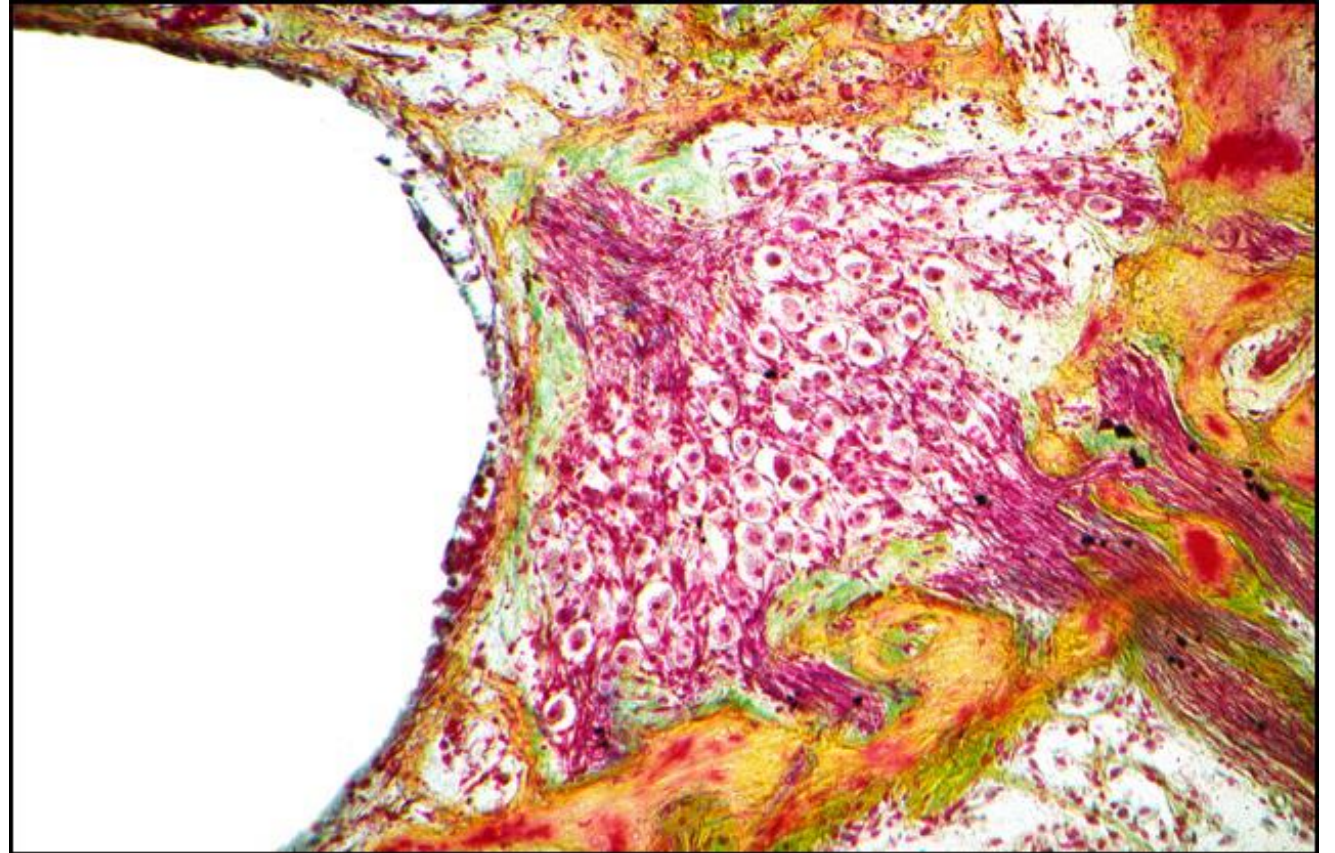
TB Case Number: 733

Gender: Male

Age (yrs.): 81

Otologic Diagnosis:

1. Sensorineural hearing loss due to aging, combination striaal atrophy and inner ear conductive lesion
2. Acoustic trauma, bilateral, mild
3. Excellent anatomical preparation



Movat's Pentachrome Stain, Normal, L-247

Title: Movat's Pentachrome Stain, Normal, L-247

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 733

Gender: Male

Age (yrs.): 81

Otologic Diagnosis:

1. Sensorineural hearing loss due to aging, combination stria atrophy and inner ear conductive lesion
2. Acoustic trauma, bilateral, mild
3. Excellent anatomical preparation

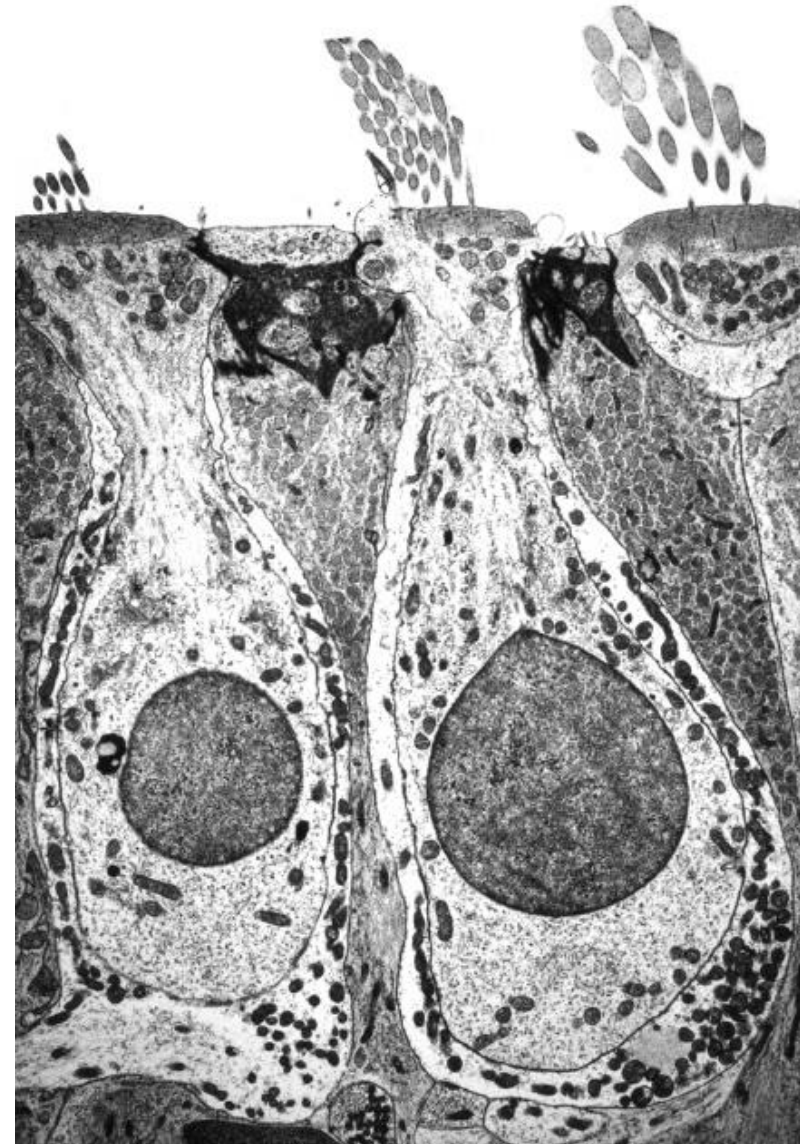


Vestibular Hair Cells

Title: Vestibular Hair Cells

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs



Normal, L-311

Title: Normal, L-311

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

TB Case Number: 652

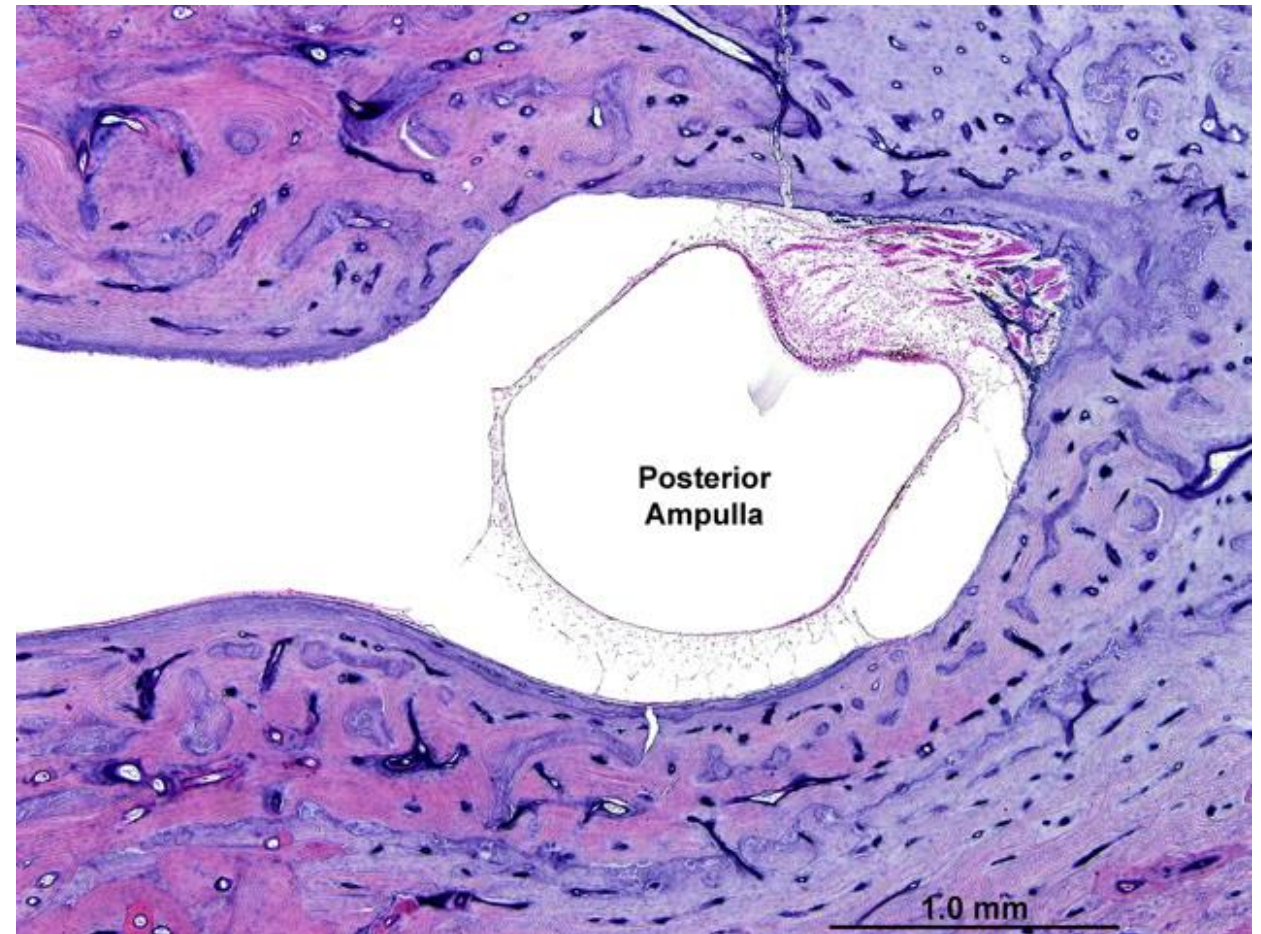
Comments: Female aged 63 years, PM time 8 hour

Gender: Female

Age (yrs.): 63

Otologic Diagnosis:

Normal temporal bones with excellent histological preparation, bilateral



Normal Lateral Canal Crista, R-61

Title: Normal Lateral Canal Crista, R-61

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

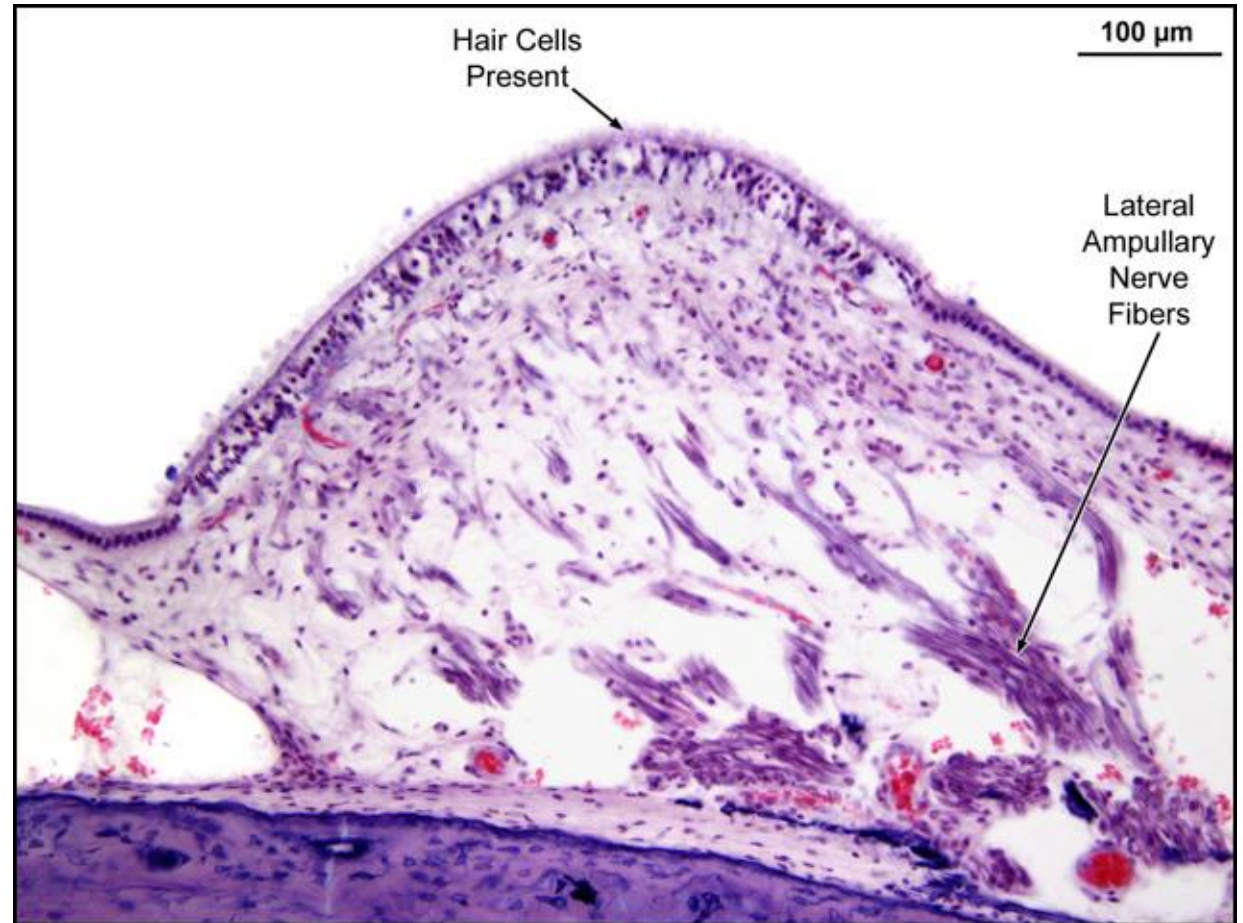
TB Case Number: 672

Comments: This case is that of a 54-year-old female who died of bronchogenic carcinoma. She had no otologic symptoms. Both inner ears are normal. The lateral canal crista is shown. The postmortem time was 19 hours.

Gender: Female

Age (yrs.): 54

Otologic Diagnosis: Normal



Normal Lateral Canal Crista, R-61

Title: Normal lateral canal crista, R-61

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

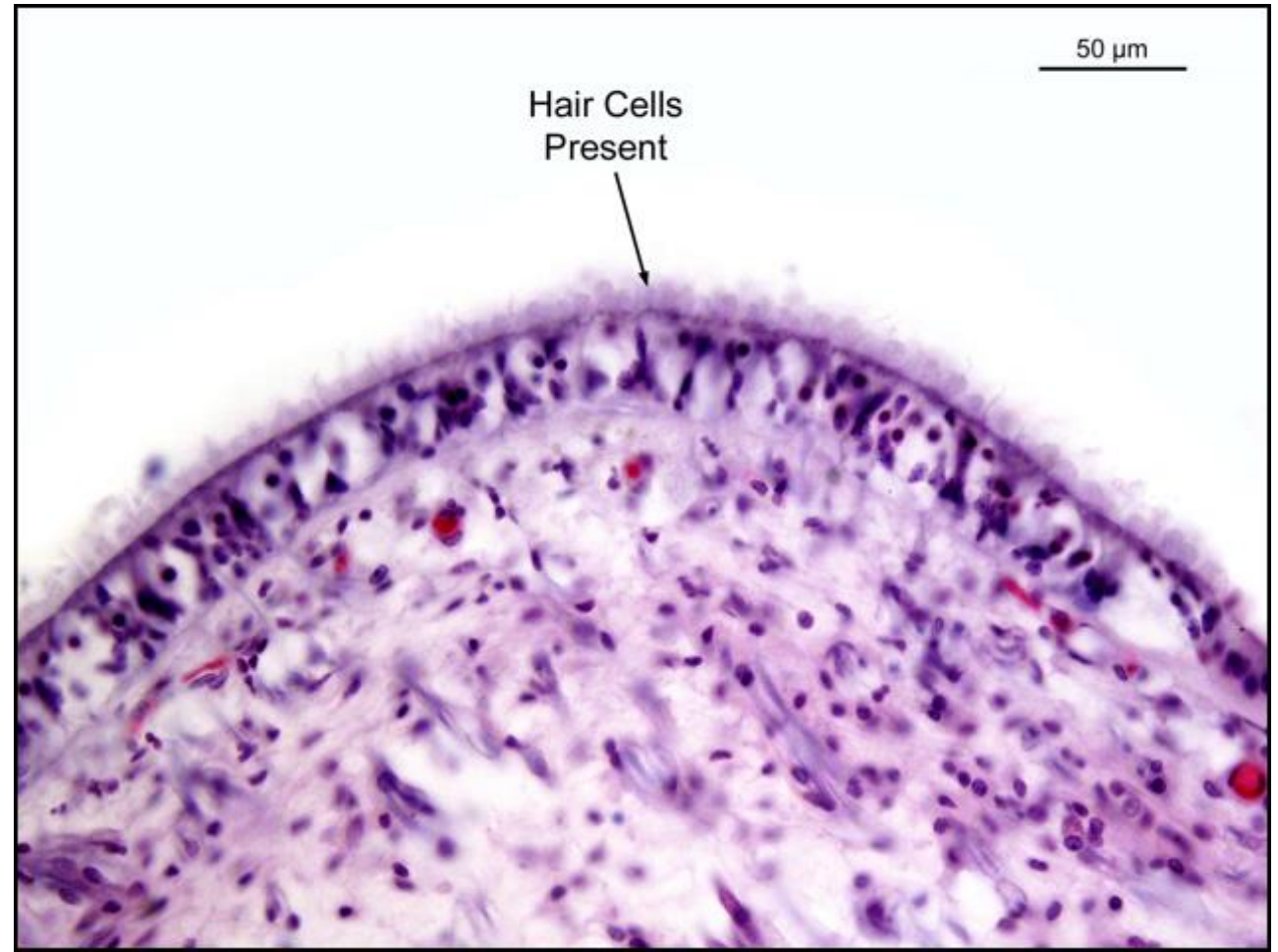
TB Case Number: 672

Comments: This case is that of a 54-year-old female who died of bronchogenic carcinoma. She had no otologic symptoms. Both inner ears are normal. The lateral canal crista is shown. The postmortem time was 19 hours.

Gender: Female

Age (yrs.): 54

Otologic Diagnosis: Normal



Sacculle and Utricle, L-200

Title: Sacculle and Utricle, L-200

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

TB Case Number: 958

Comments: Normal Sacculle and Utricle

Gender: Male

Age (yrs.): 79

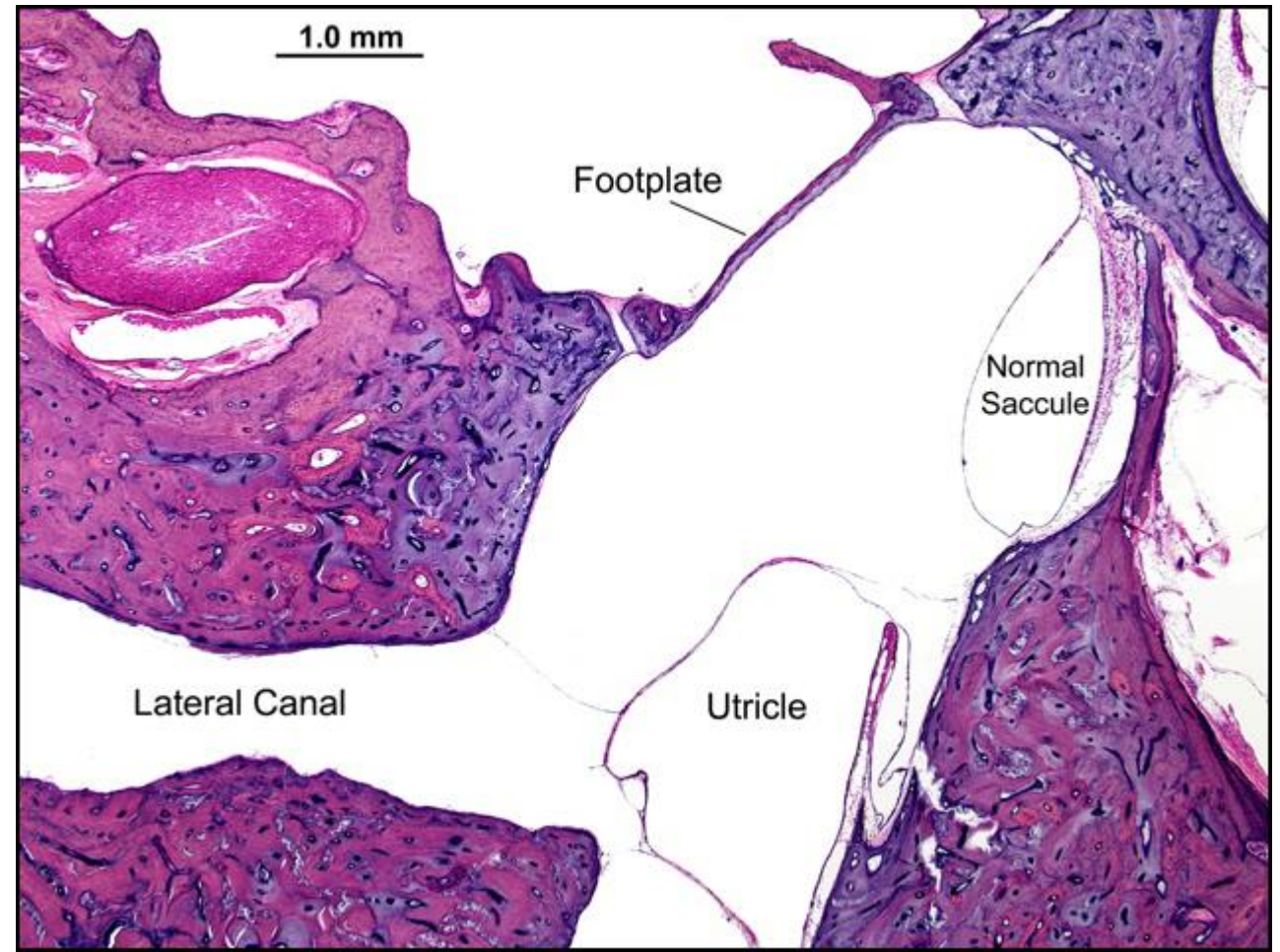
Otologic Diagnosis:

Clinical:

1. Meniere's disease, right
2. Presbycusis, left

Histopathologic:

Endolymphatic hydrops, moderate to severe, involving cochlea, sacculle, inferior utricular recess, and posterior canal ampulla, right.



Sacculle and Utricle, L-141

Title: Sacculle and Utricle, L-141

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

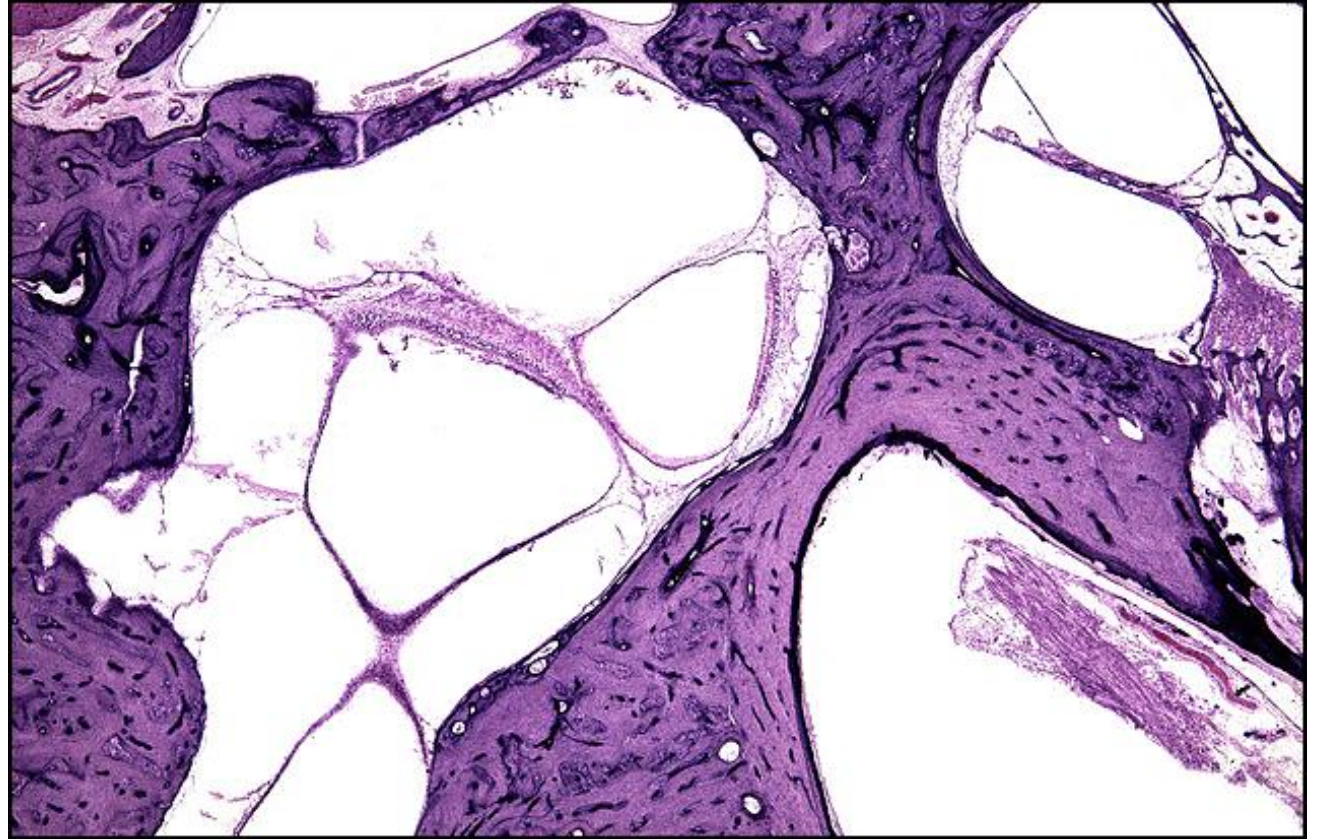
TB Case Number: 645

Gender: Female

Age (yrs.): 68

Otologic Diagnosis:

1. Atrophy of the stria vascularis, patchy, apical region of the cochlea
2. Developmental defect in the utricular macula
3. Opening in the posterior semicircular duct, etiology undetermined



Sacculle, Macula, L-190

Title: Sacculle, Macula, L-190

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

TB Case Number: 441

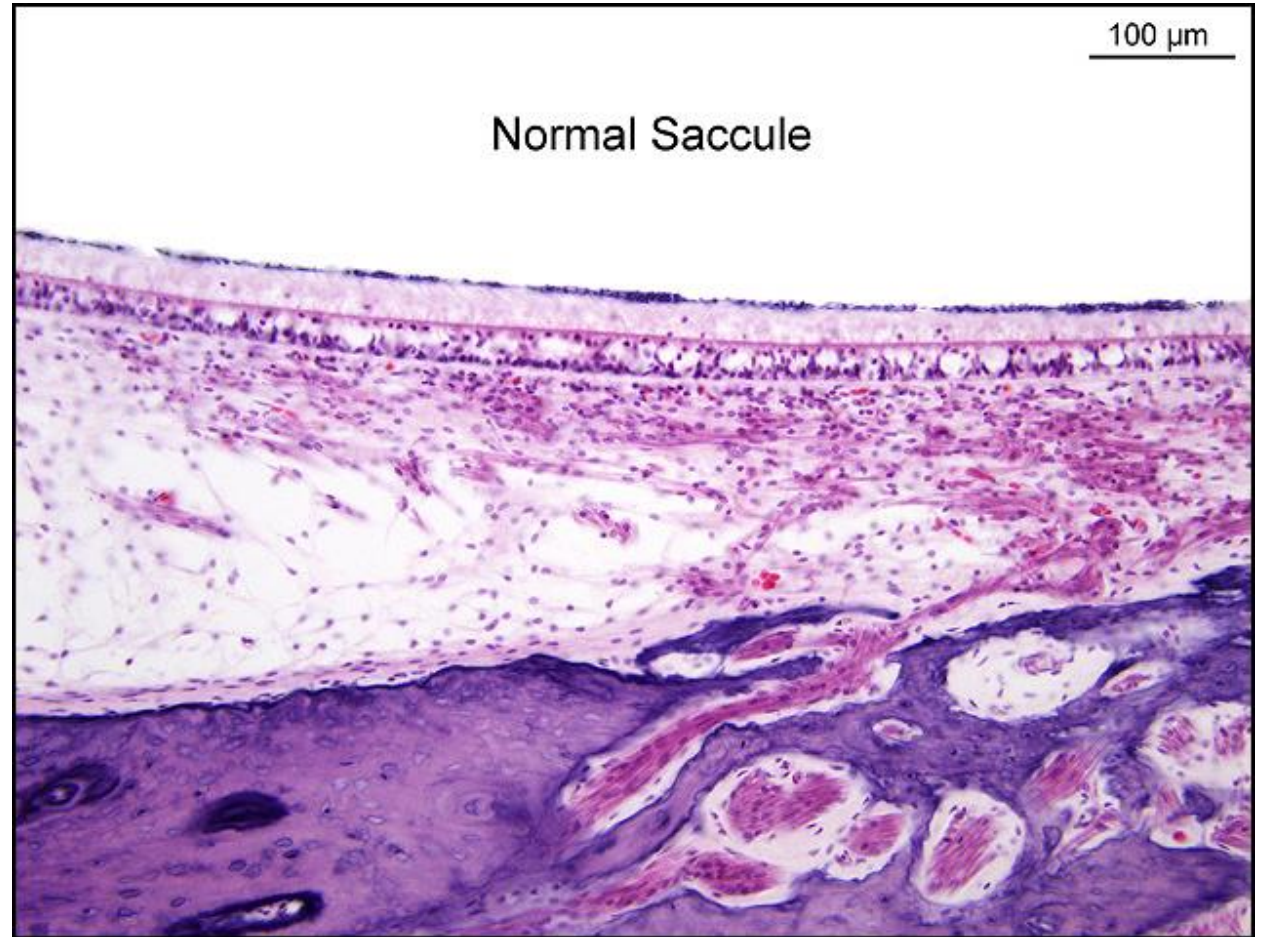
Comments: Normal sacculle from 7-month-old infant

Gender: Female

Age (yrs.): 1

Otologic Diagnosis:

1. Subacute hyperplastic otitis media and mastoiditis, right
2. Normal left ear, 8-month-old infant



Sacculle, L-221

Title: Sacculle, L-221

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

TB Case Number: 393

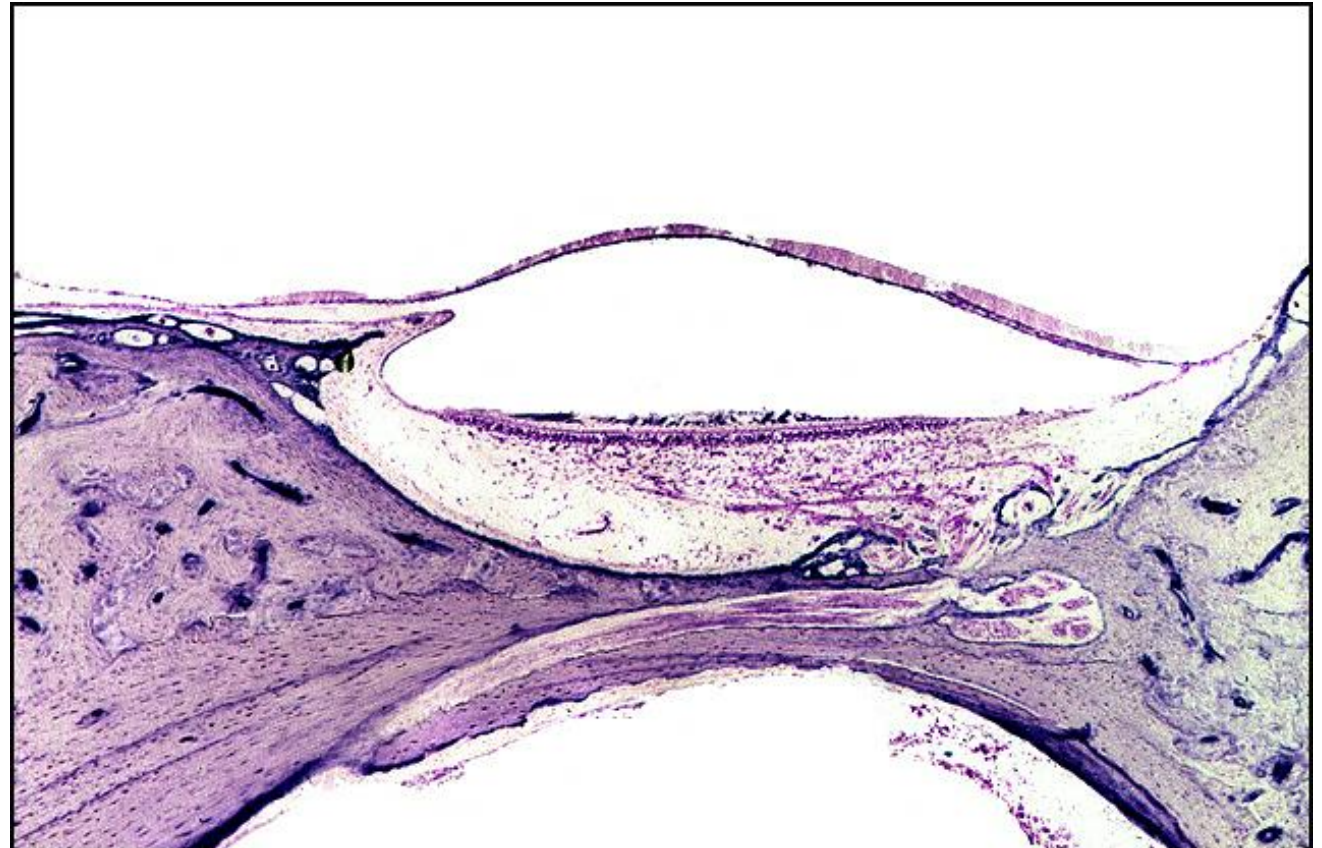
Comments: Renal failure secondary to diabetes

Gender: Male

Age (yrs.): 53

Otologic Diagnosis:

1. Organ of Corti, compression, severe, bilateral
2. Internal auditory meatus, arachnoid cyst, bilateral
3. Incudal fossa, posterior, cartilage rest, left



UE Valve, R-211

Title: UE Valve, R-211

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

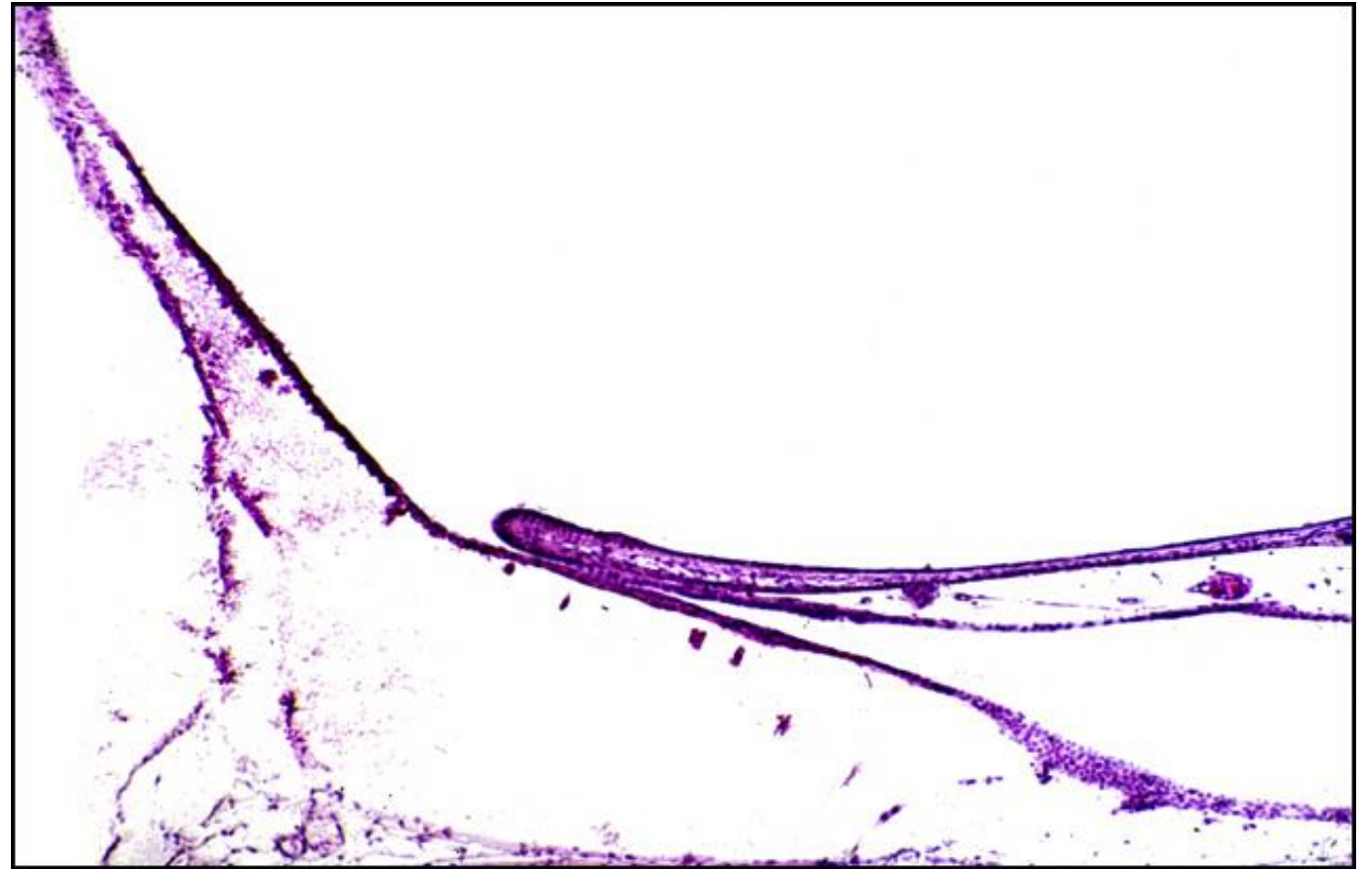
TB Case Number: 878

Comments: Arnold-Chiari malformation with hydrocephalus and meningocele

Gender: Female

Otologic Diagnosis:

1. Normal temporal bones
2. Terminal, mild, bilateral otitis media



UE Valve, R-211

Title: UE Valve, R-211

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

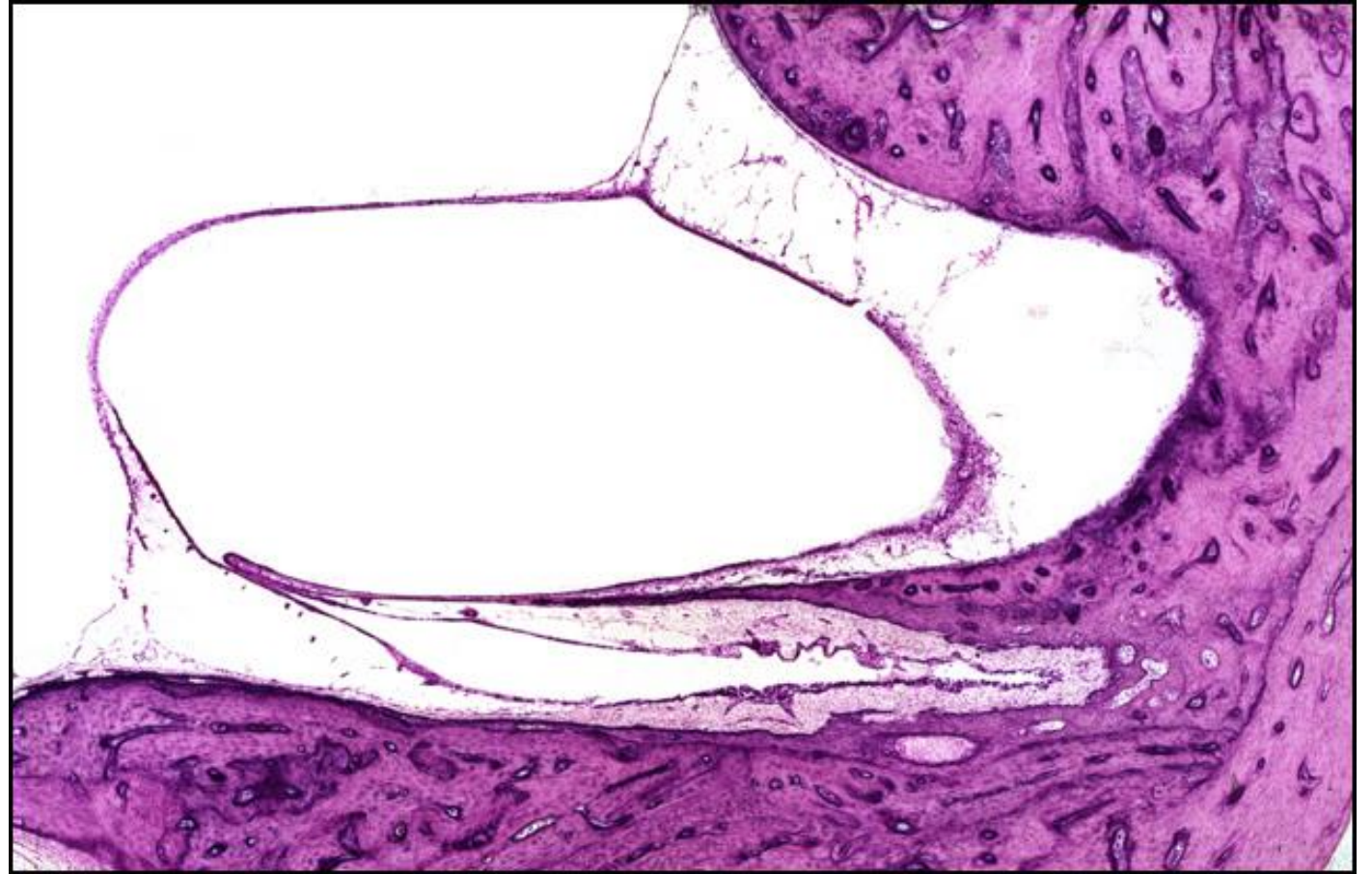
TB Case Number: 878

Comments: Arnold-Chiari malformation with hydrocephalus and meningocele

Gender: Female

Otologic Diagnosis:

1. Normal temporal bones
2. Terminal, mild, bilateral otitis media



Singular Canal and Nerve, L-271

Title: Singular Canal and Nerve, L-271

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

TB Case Number: 922

Gender: Female

Age (yrs.): 83

Otologic Diagnosis:

1. Sensorineural hearing loss, sudden, presumably of vascular etiology, right
2. Apical cochlear lesion, characterized by degeneration of sensory and neural tissues and a fibro-osseous response, right
3. Presbycusis, mixed, strial and neural, left



Crista Neglecta, L-284

Title: Crista Neglecta, L-284

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

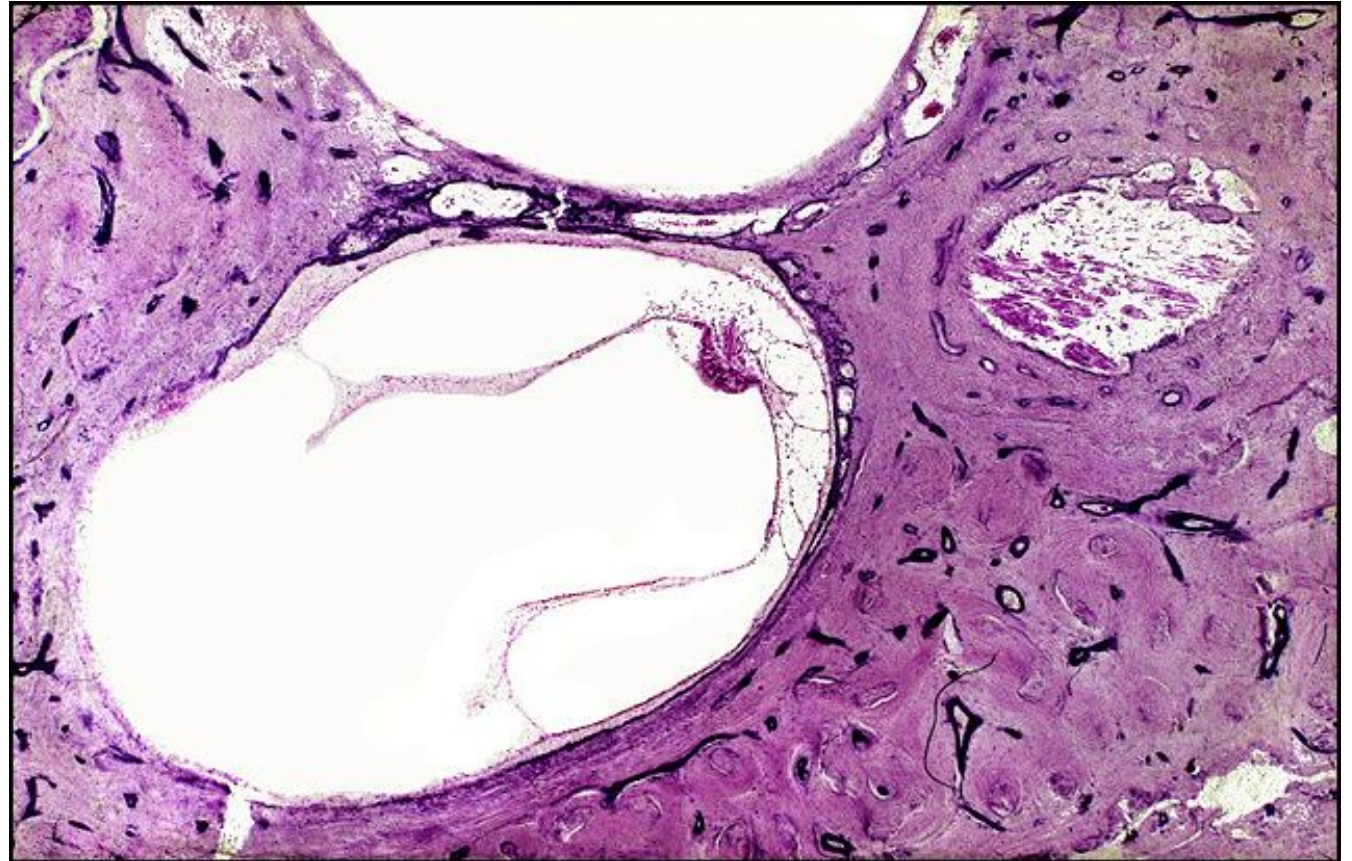
TB Case Number: 346

Gender: Female

Age (yrs.): 77

Otologic Diagnosis:

1. Paroxysmal positional vertigo
2. Deposit on cupula of left posterior semicircular canal
3. Primary neural degeneration, presbycusis type



Crista Neglecta, L-282

Title: Crista Neglecta, L-282

Chapter: Anatomy

Chapter Section: Vestibular Sense Organs

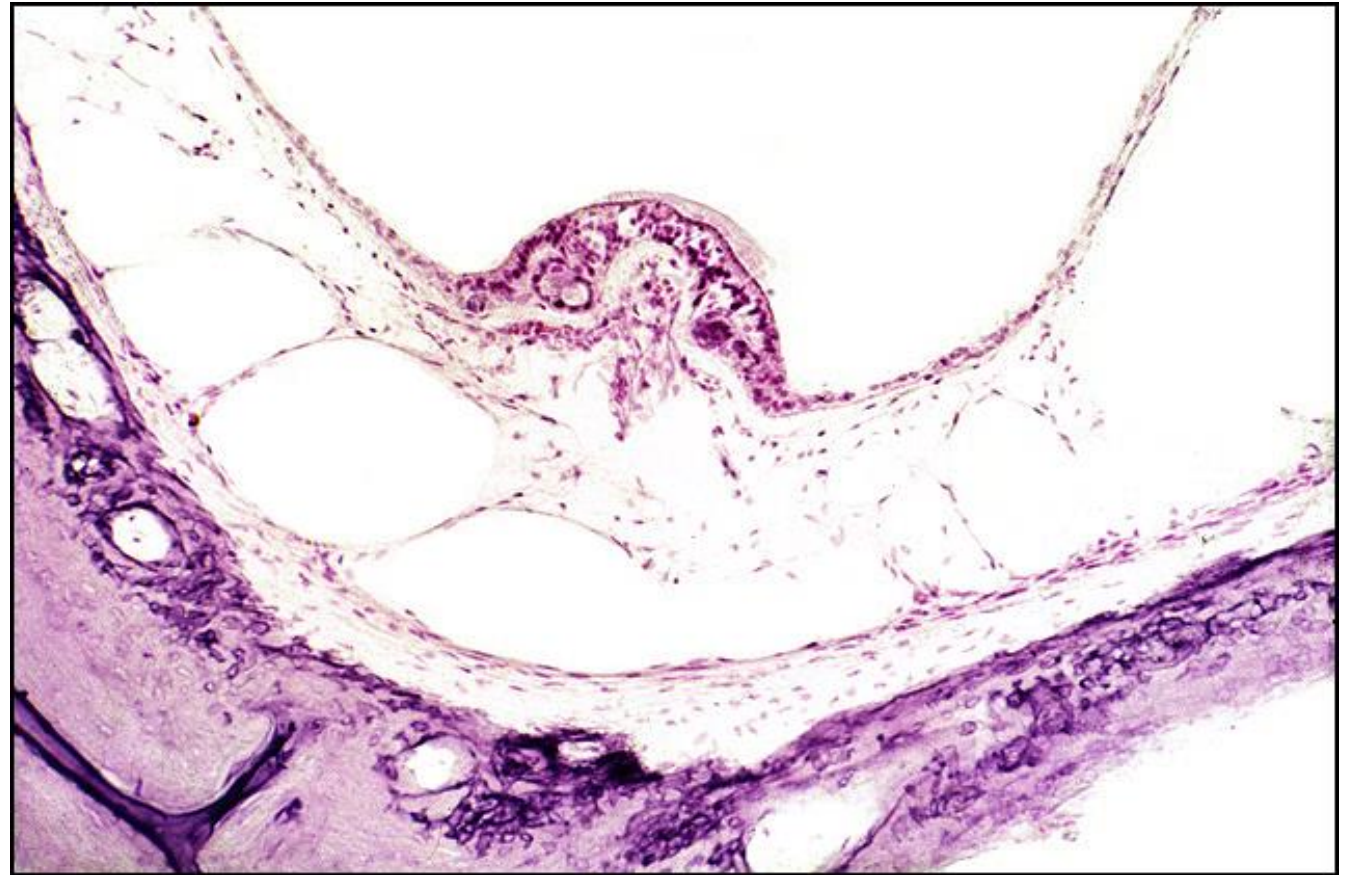
TB Case Number: 346

Gender: Female

Age (yrs.): 77

Otologic Diagnosis:

1. Paroxysmal positional vertigo
2. Deposit on cupula of left posterior semicircular canal
3. Primary neural degeneration, presbycusis type



Absent UE Valve, R-181

Title: Absent UE valve, R-181

Chapter: Anatomy

Chapter section: Vestibular Sense Organs

TB Case Number: 1023

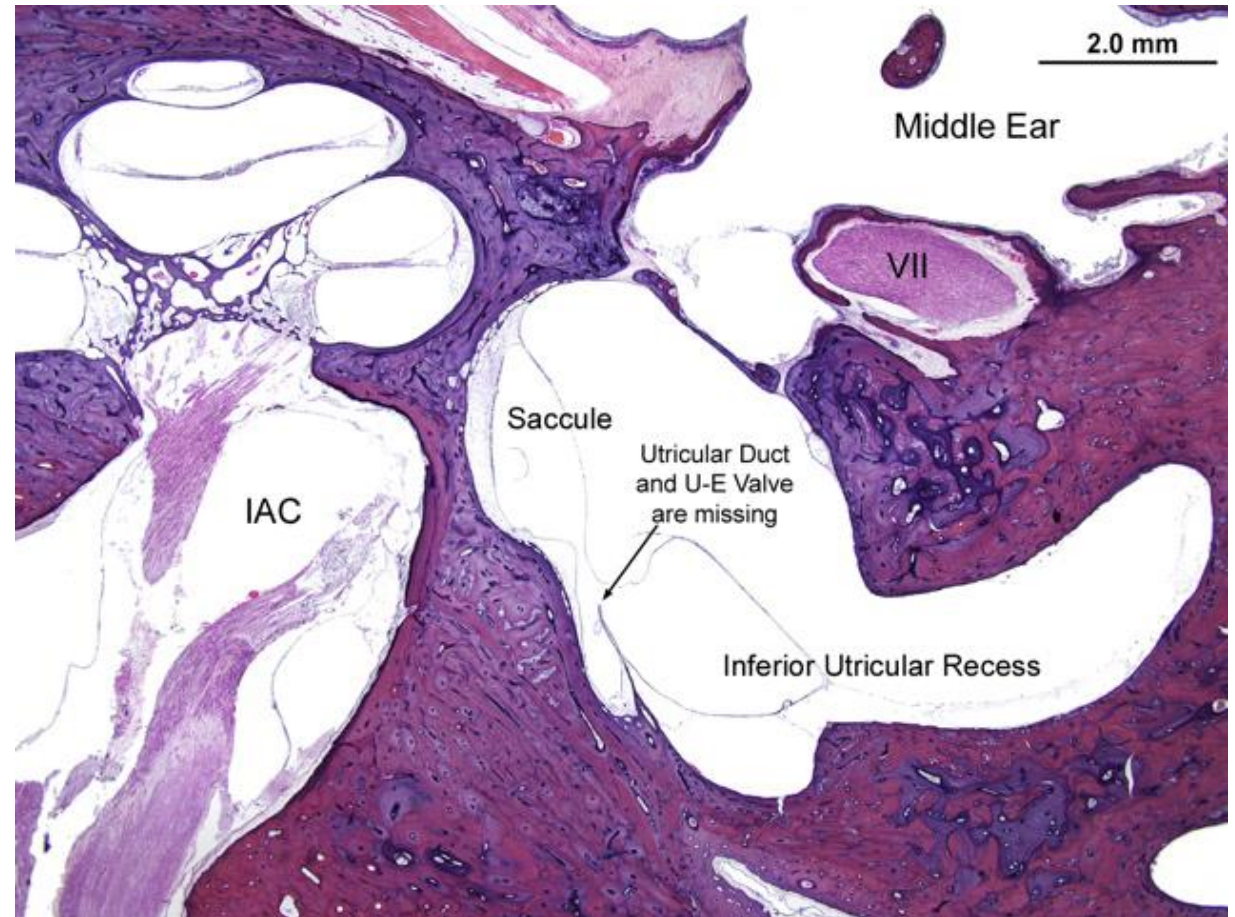
Comments: 76 yr. old woman with presbycusis. The utricular duct and utriculo-endolymphatic valve are absent, as an anatomical variant. There is no apparent functional consequence.

Gender: Female

Age(yrs.): 44

Otologic Diagnosis:

1. Moderate sensorineural hearing loss, down-sloping, consistent with presbycusis, right
2. Profound sensorineural hearing loss, unknown etiology, left
3. Peripheral vestibular lesion, left



Facial Nerve Perineurium, R-331

Title: Facial Nerve Perineurium, R-331

Chapter: Anatomy

Chapter Section: Facial Nerve

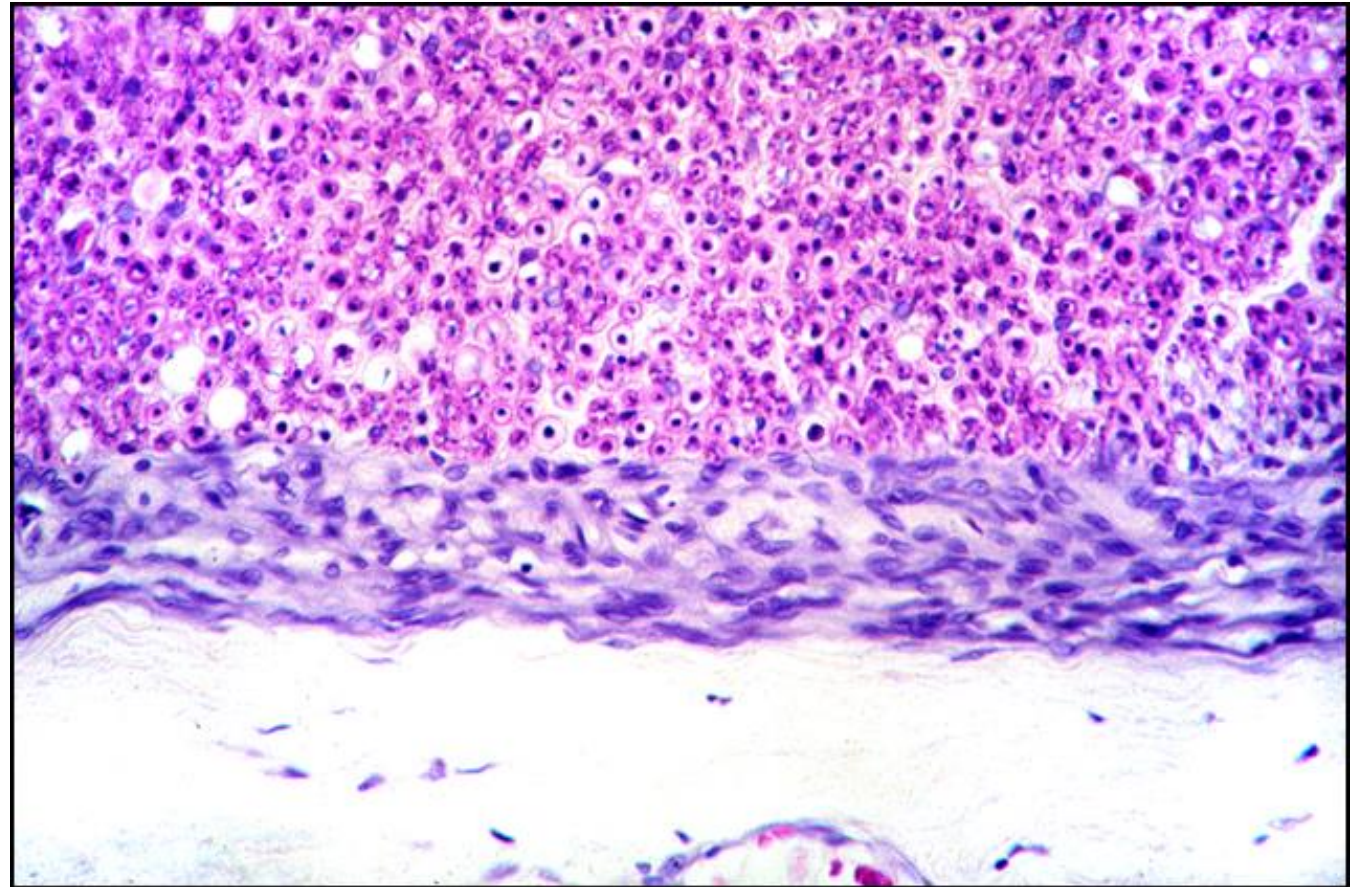
TB Case Number: 288

Gender: Male

Age (yrs.): 37

Otologic Diagnosis:

1. Cupulolithiasis, posterior canal, bilateral
2. Mesenchyme, unresolved, mastoid, bilateral
3. Mesenchyme, unresolved, petrous apex, right
4. Exostosis, external auditory canal, bilateral



Facial Nerve Dehiscence, L-62

Title: Facial Nerve Dehiscence, L-62

Chapter: Anatomy

Chapter Section: Facial Nerve

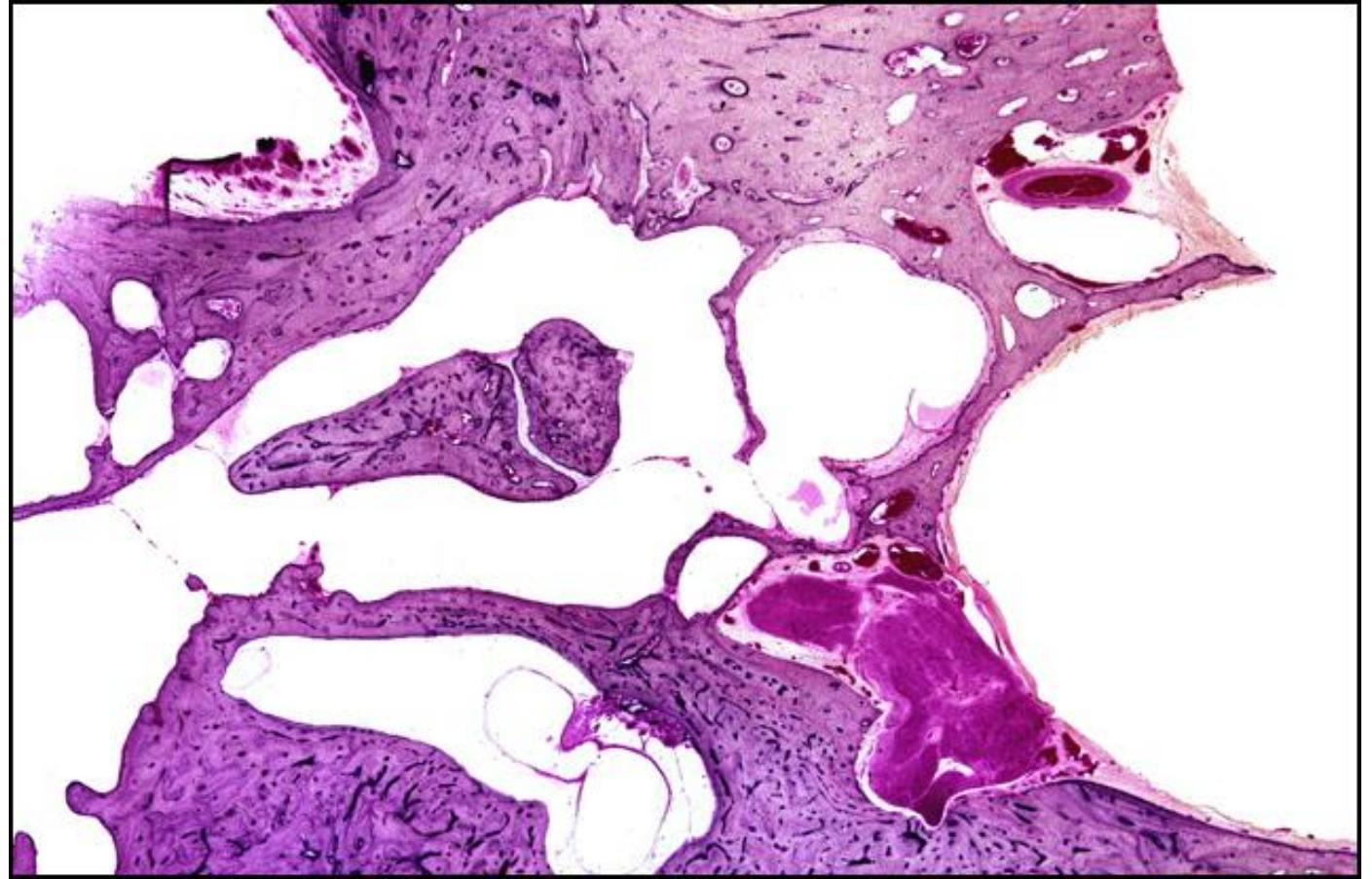
TB Case Number: 66

Gender: Male

Age (yrs.): 51

Otologic Diagnosis:

1. Temporal bones, normal
2. Membranous labyrinth, normal, bilateral
3. Artery, accessory meningeal, bilateral
4. Facial hiatus, widely open, bilateral
5. Artifact, preparation, compression, right



Facial Nerve Dehiscence, R-166

Title: Facial Nerve Dehiscence, R-166

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 310

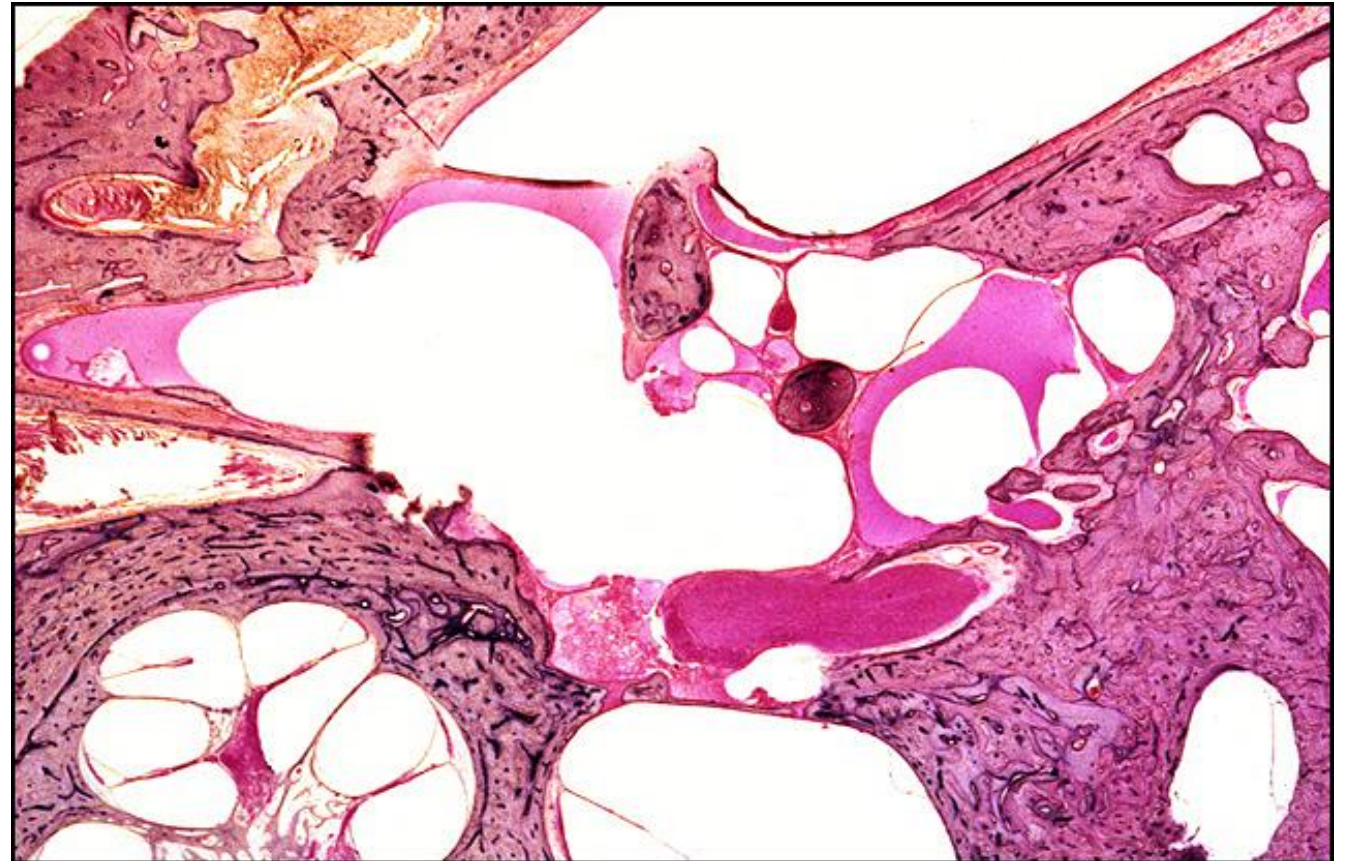
Comments: Facial nerve dehiscence at oval window

Gender: Male

Age (yrs.): 51

Otologic Diagnosis:

1. Labyrinthitis ossificans, perilymphatic space, posterior canal, right
2. Semicircular canal, posterior, osseous, obliteration, right
3. Facial nerve, dehiscence, oval window area, right
4. Membranous labyrinth, normal, bilateral



Facial Nerve Dehiscence at Oval Window, R-166

Title: Facial Nerve Dehiscence at Oval Window, R-166

Chapter: Anatomy

Chapter Section: Facial Nerve

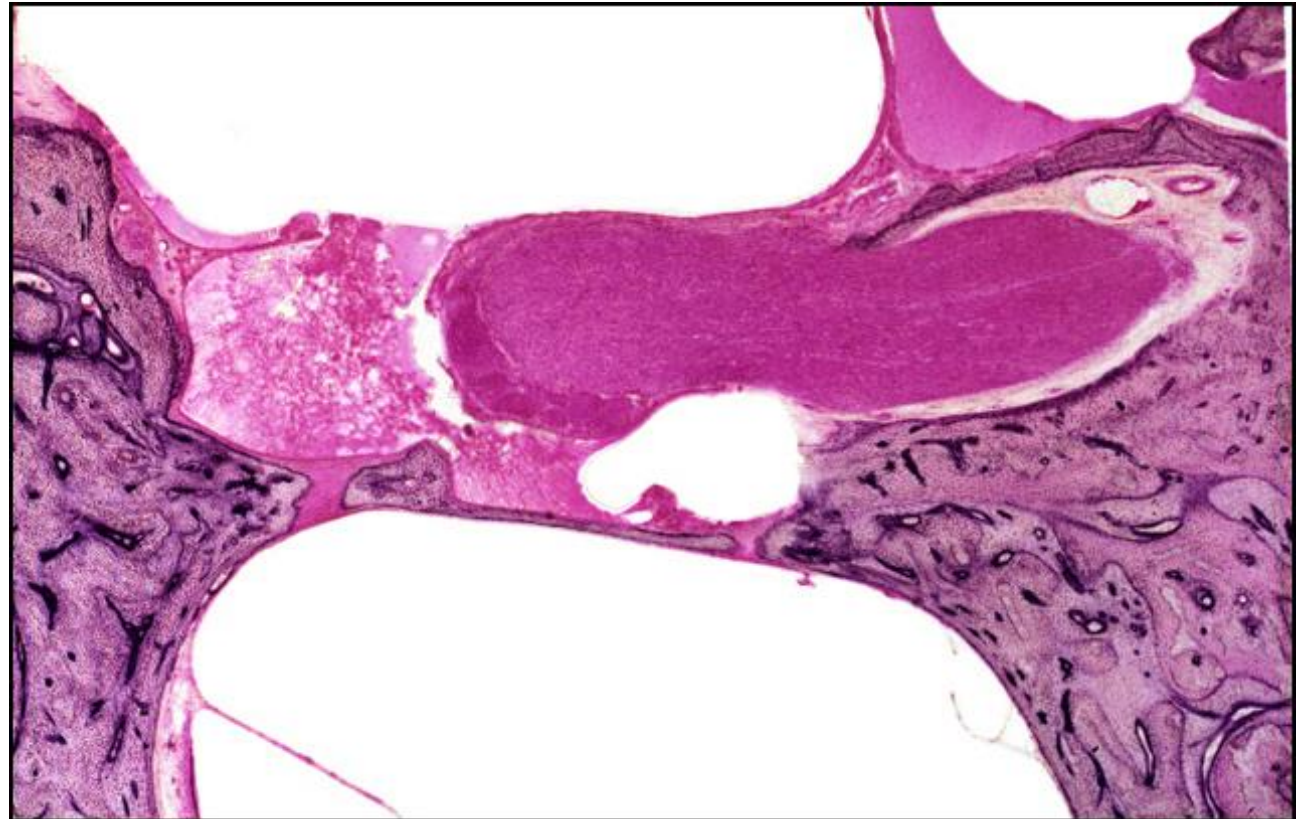
TB Case Number: 310

Gender: Male

Age (yrs.): 51

Otologic Diagnosis:

1. Labyrinthitis ossificans, perilymphatic space, posterior canal, right
2. Semicircular canal, posterior, osseous, obliteration, right
3. Facial nerve, dehiscence, oval window area, right
4. Membranous labyrinth, normal, bilateral



Facial Nerve Dehiscence, R-401

Title: Facial Nerve Dehiscence, R-401

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 55

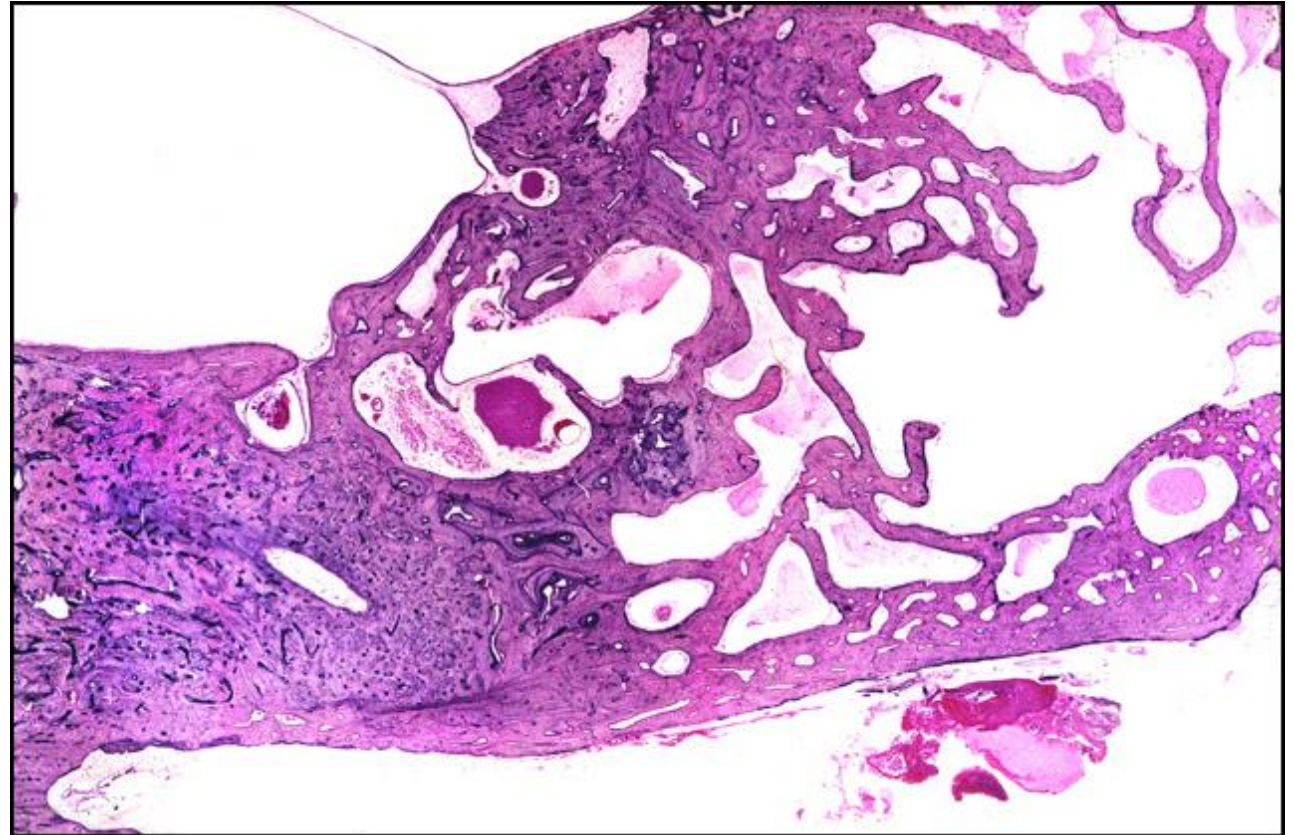
Comments: Facial nerve dehiscence in mastoid

Gender: Male

Age (yrs.): 63

Otologic Diagnosis:

1. Otosclerosis, stapes fixation, unilateral, right
2. Artifact, preparation, compression, moderate, bilateral
3. Artifact, preparation, lateral ampulla and utricle, left
4. Facial nerve, dehiscence, mastoid segments, anatomic variant, bilateral



Facial Nerve Dehiscence, L-31

Title: Facial Nerve Dehiscence, L-31

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 839

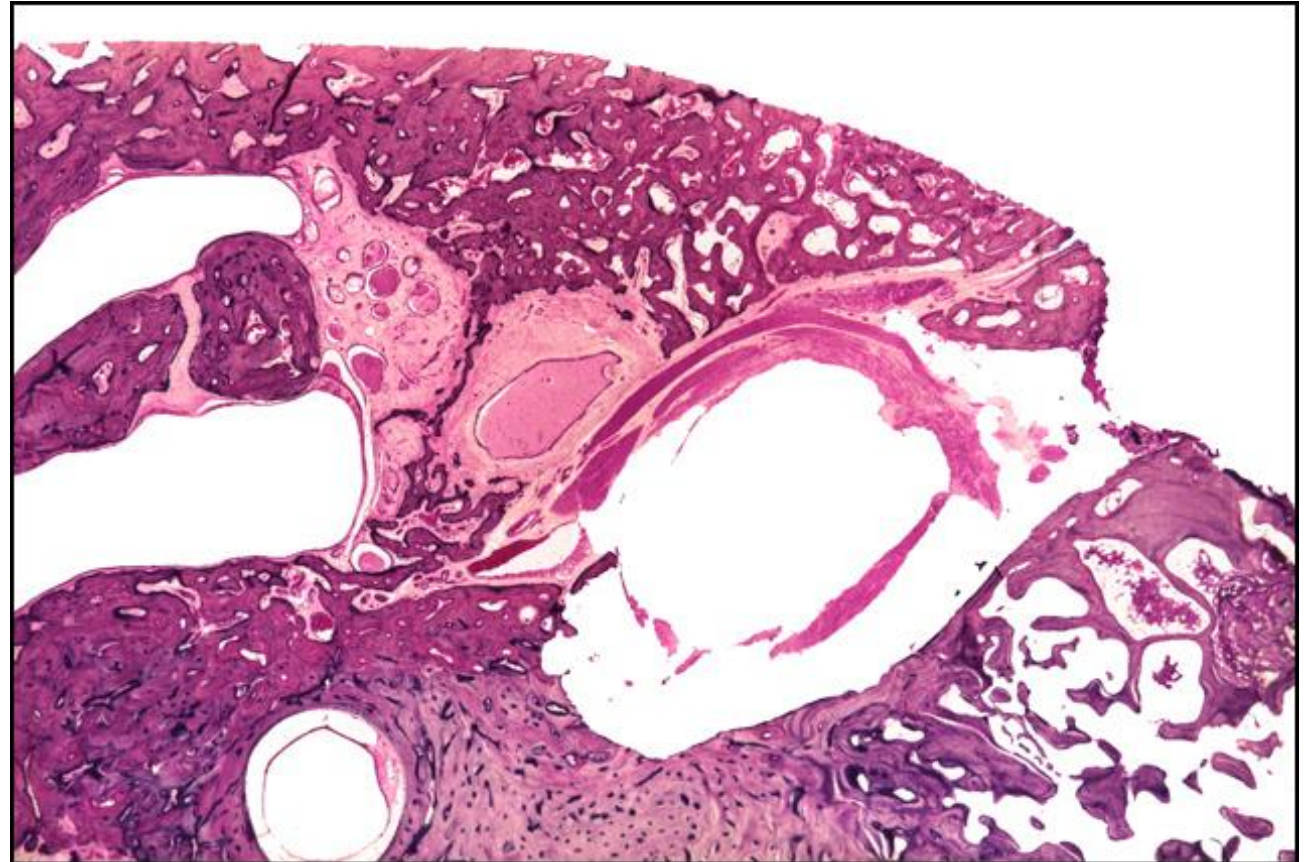
Comments: Facial nerve dehiscence at geniculate

Gender: Female

Age (yrs.): 75

Otologic Diagnosis:

1. Otitis media, chronic, showing destruction of tympanic membrane, ossicles, and epidermization of mesotympanum, left
2. Fibrocystic and osseous sclerosis, mastoid, left
3. Spiral ligament, atrophy, severe, left



Vein in Facial Canal, R-81

Title: Vein in Facial Canal, R-81

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 971

Gender: Male

Age (yrs.): 79

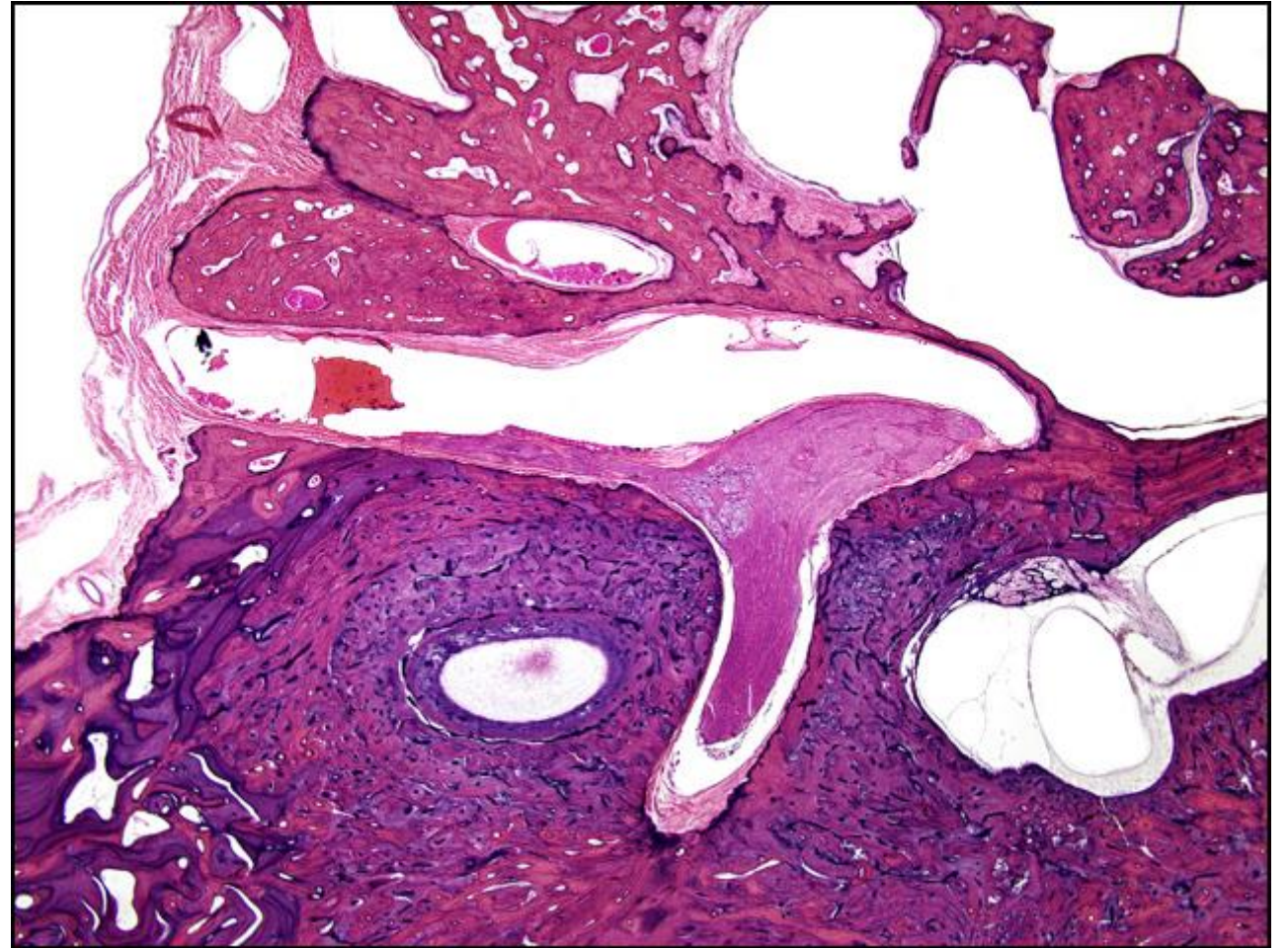
Otologic Diagnosis:

Clinical:

Mixed hearing loss, bilateral

Histologic:

1. Otosclerosis, clinical, bilateral, with bony ankylosis of stapes and obliteration of round window
2. Otosclerosis extending to cochlea with hyalinization of spiral ligament, bilateral



Facial Nerve, L-21

Title: Facial Nerve, L-21

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 998

Comments: CSF space extension to geniculate ganglion

Gender: Female

Age (yrs.): 91

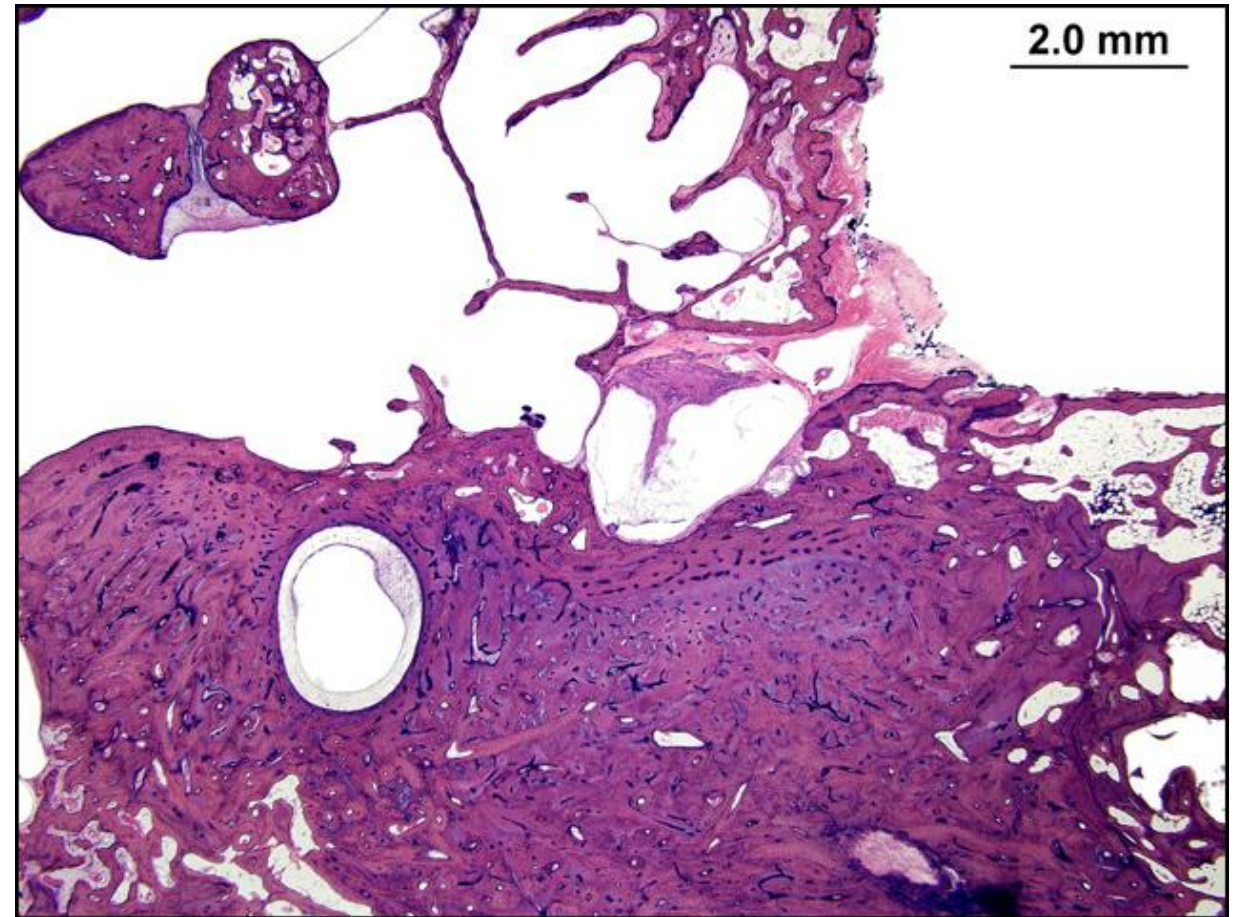
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss.



Facial Nerve, L-21

Title: Facial Nerve, L-21

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 998

Comments: CSF space extension to geniculate ganglion

Gender: Female

Age (yrs.): 91

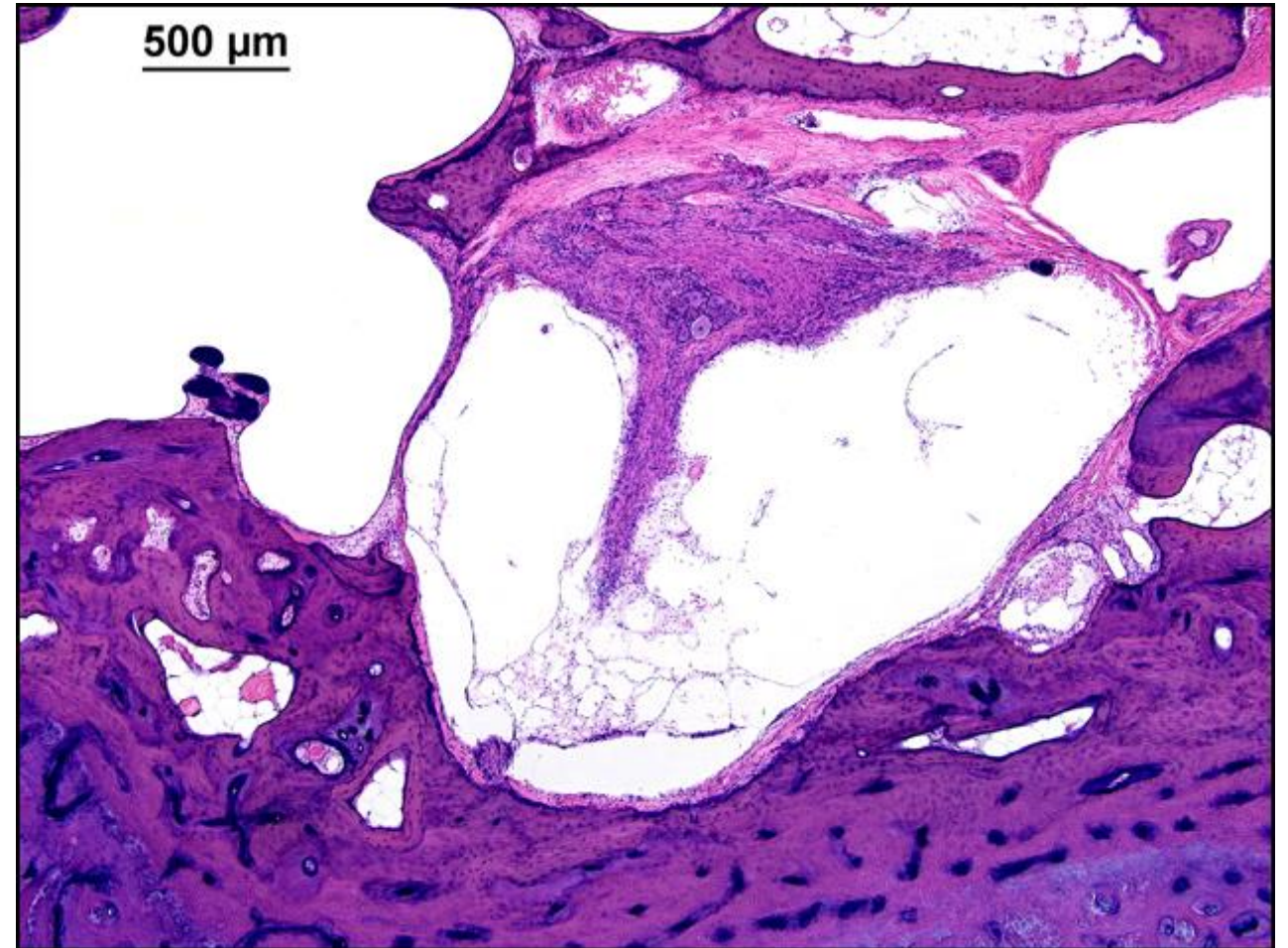
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss.



Facial Nerve, L-51

Title: Facial Nerve, L-51

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 998

Comments: CSF space extension to geniculate ganglion

Gender: Female

Age (yrs.): 91

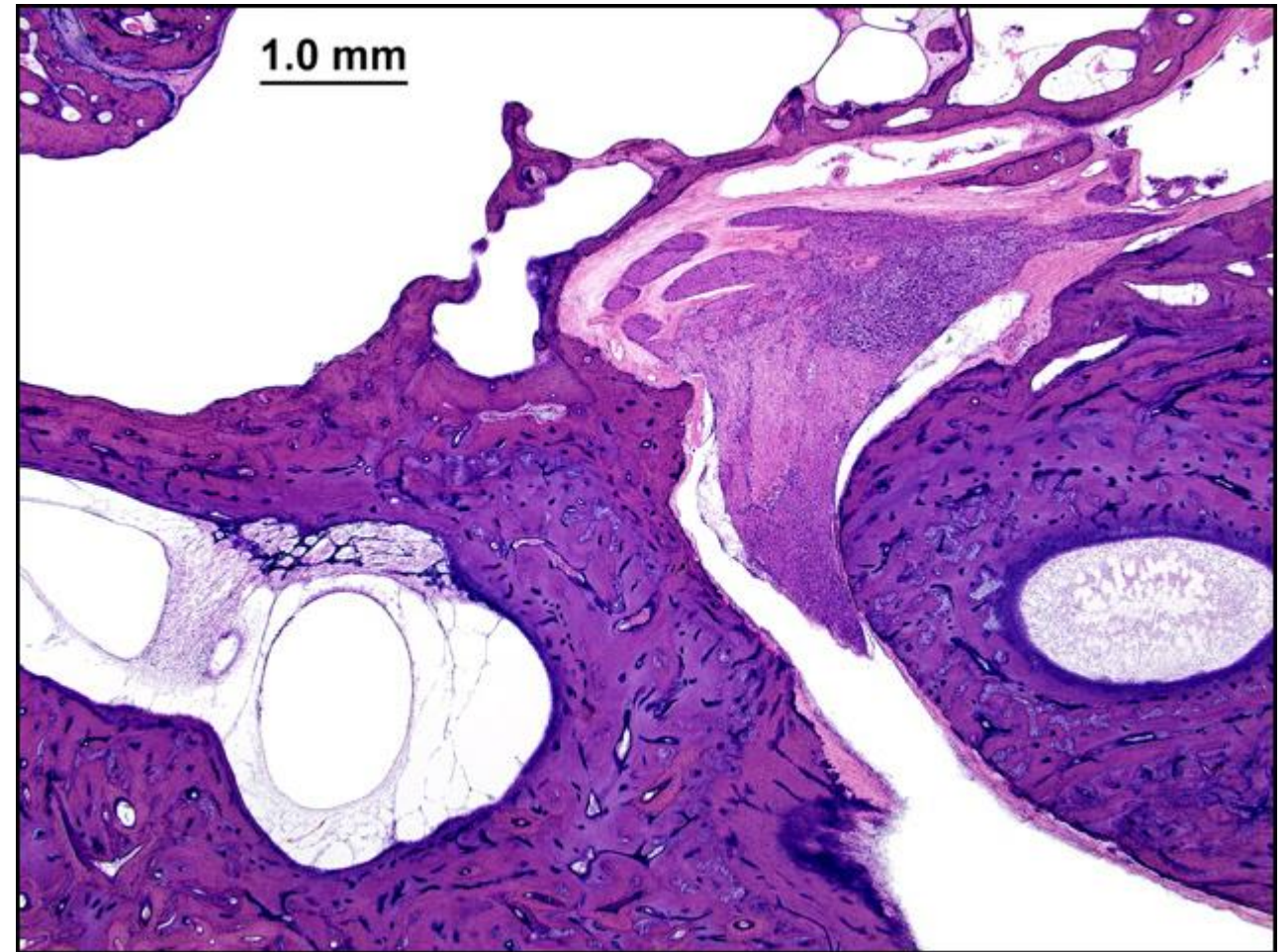
Otologic Diagnosis:

Clinical:

Progressive hearing loss, bilateral, presumed sensorineural and of genetic etiology

Histological:

Mild cochlear degeneration (outer hair cell loss in basal turn, mild patchy strial atrophy, mild basal spiral ganglion cell loss).



GSPN, L-41

Title: GSPN, L-41

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 1014

Gender: Male

Age (yrs.): 99

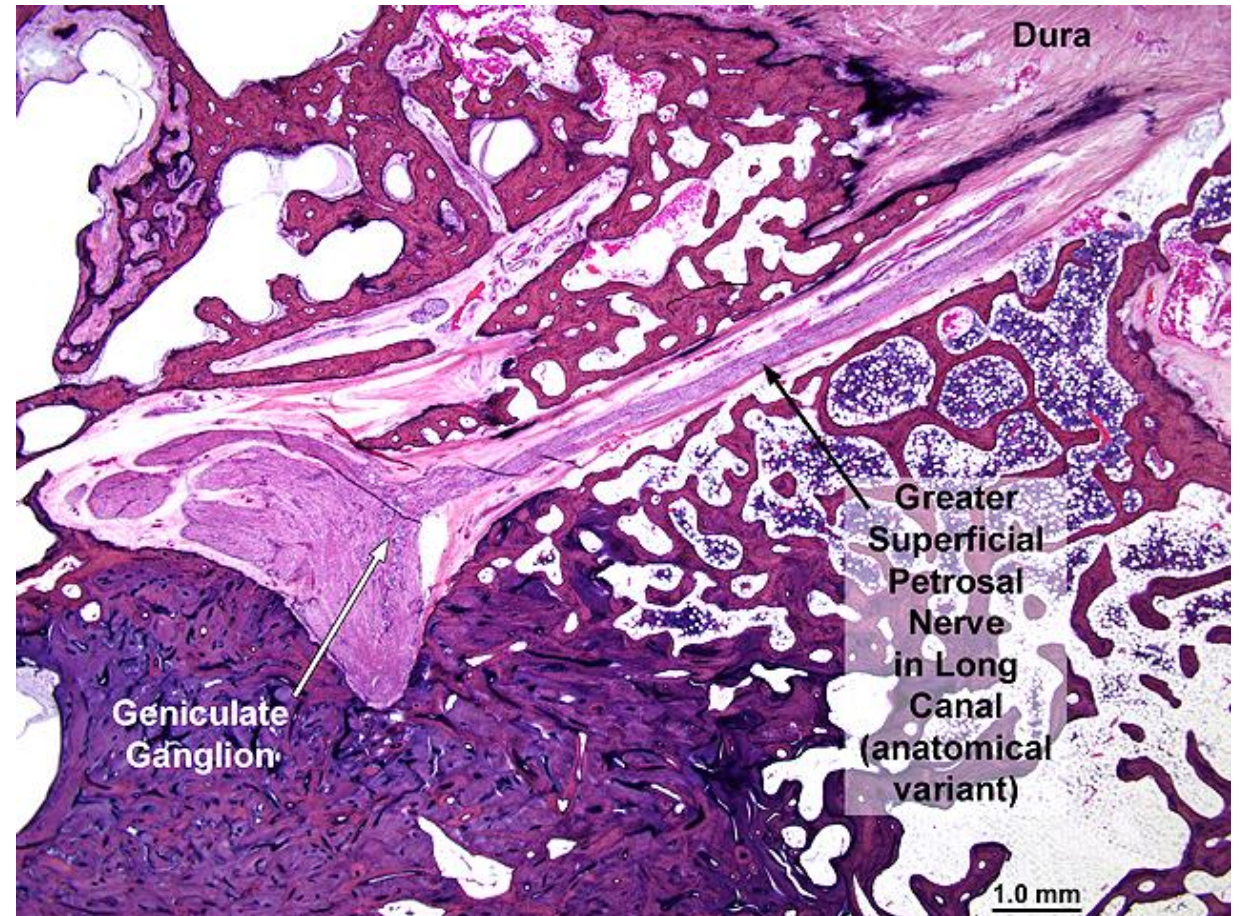
Otologic Diagnosis:

Clinical:

1. Meniere's syndrome, left ear
2. Profound sensorineural hearing loss, bilateral

Histopathologic:

Endolymphatic hydrops, severe and diffuse, involving cochlea, saccule, utricle, and all three ampullae, bilateral



Facial + Chorda, R-941

Title: Facial + Chorda, R-941

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 996

Comments: facial nerve with chorda tympani

Gender: Male

Age (yrs.): 42

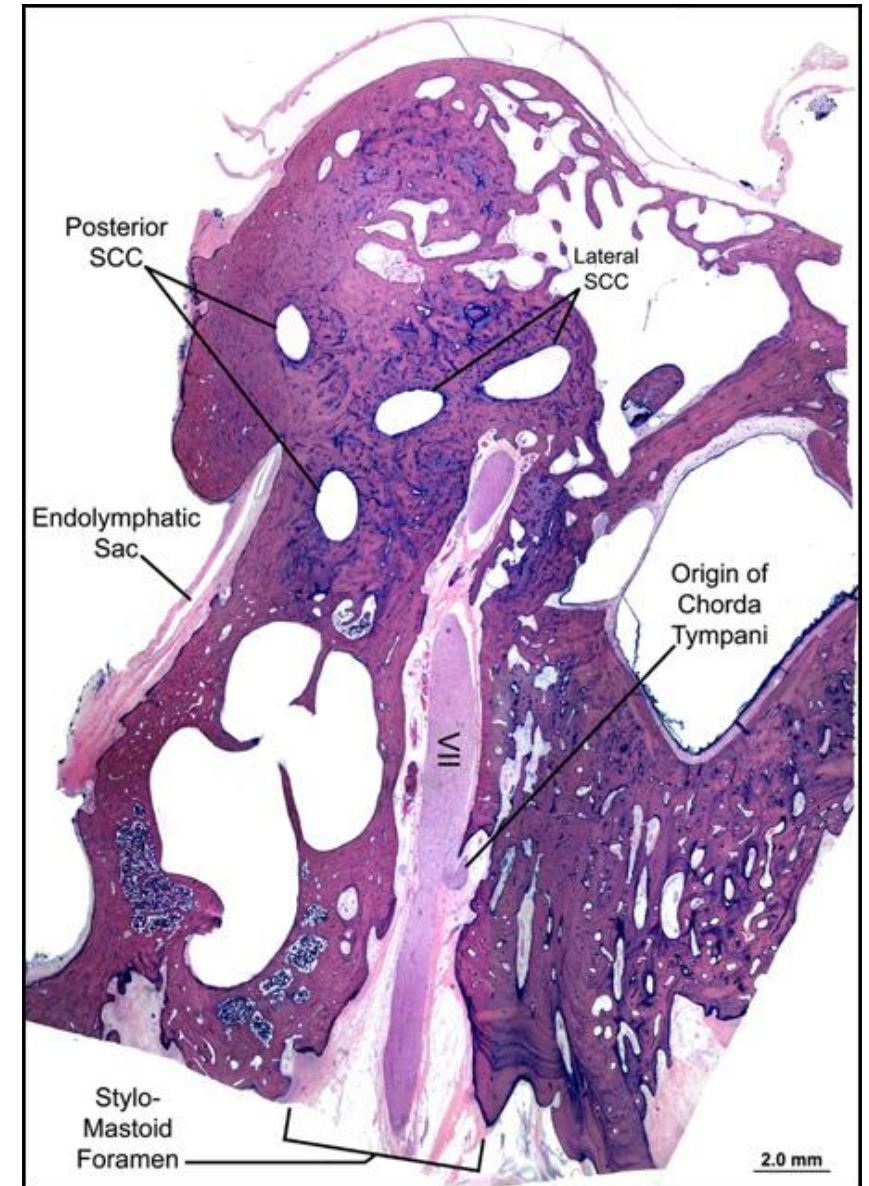
Otologic Diagnosis:

Clinical:

Sensorineural hearing loss, moderate, bilateral, sequel of pneumococcal meningitis

Histopathologic:

1. Loss of spiral ganglion cells, presumed secondary to cochlear neuritis from bacterial meningitis, bilateral.
2. Atrophy of organ of Corti



Large Facial Hiatus, L-41

Title: Large Facial Hiatus, L-41

Chapter: Anatomy

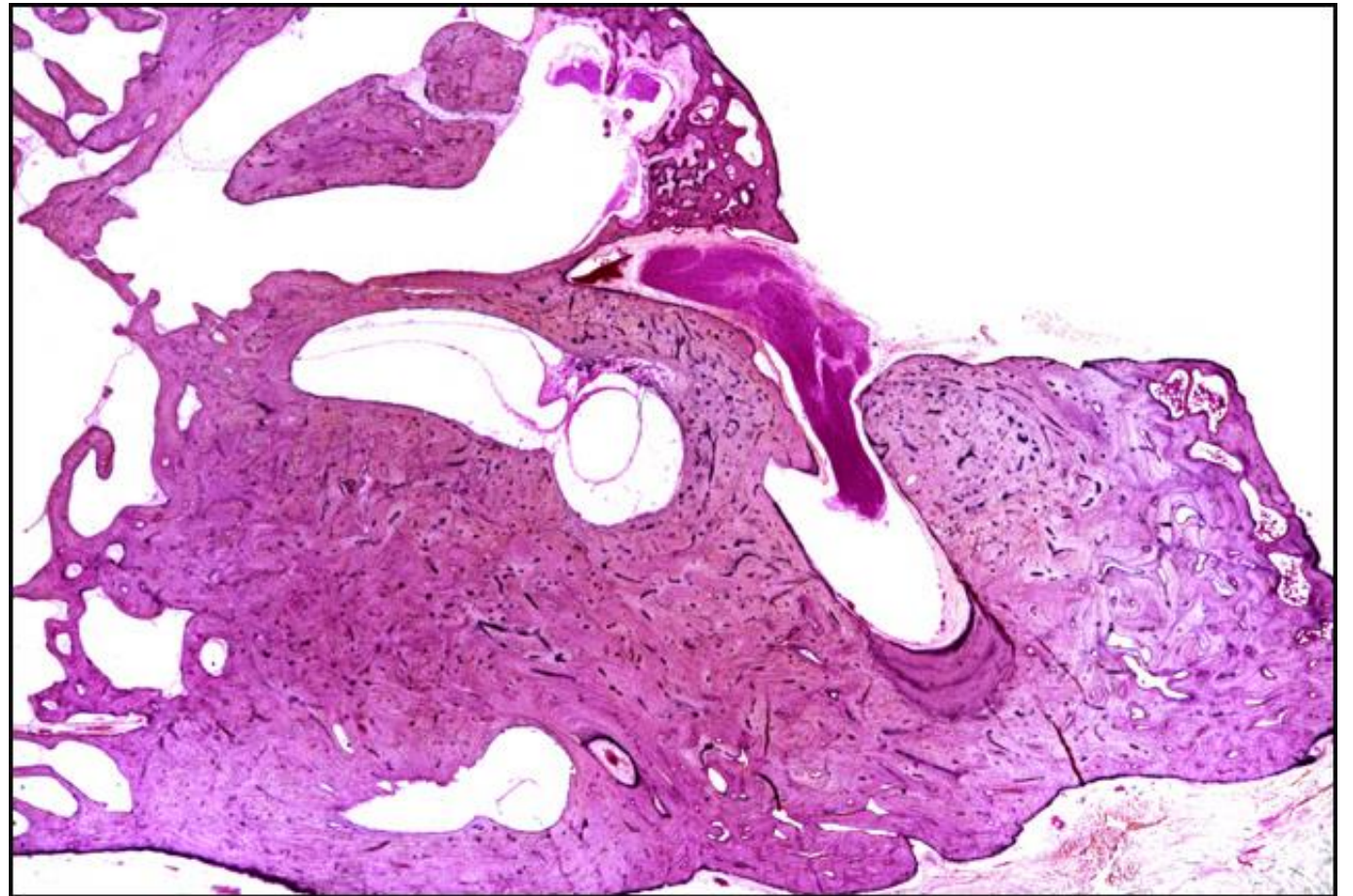
Chapter Section: Facial Nerve

TB Case Number: 862

Gender: Female

Age (yrs.): 70

Otologic Diagnosis: Neural presbycusis



Vein in Facial Canal, L-371

Title: Vein in Facial Canal, L-371

Chapter: Anatomy

Chapter Section: Facial Nerve

TB Case Number: 871

Gender: Male

Age (yrs.): 41

Otologic Diagnosis:

1. Normal temporal bone, right, excellent preservation
2. Normal temporal bone, left, compression artifact



Facial Nerve Anomaly, R-80

Title: Facial Nerve Anomaly, R-80

Chapter: Anatomy

Chapter Section: Facial Nerve

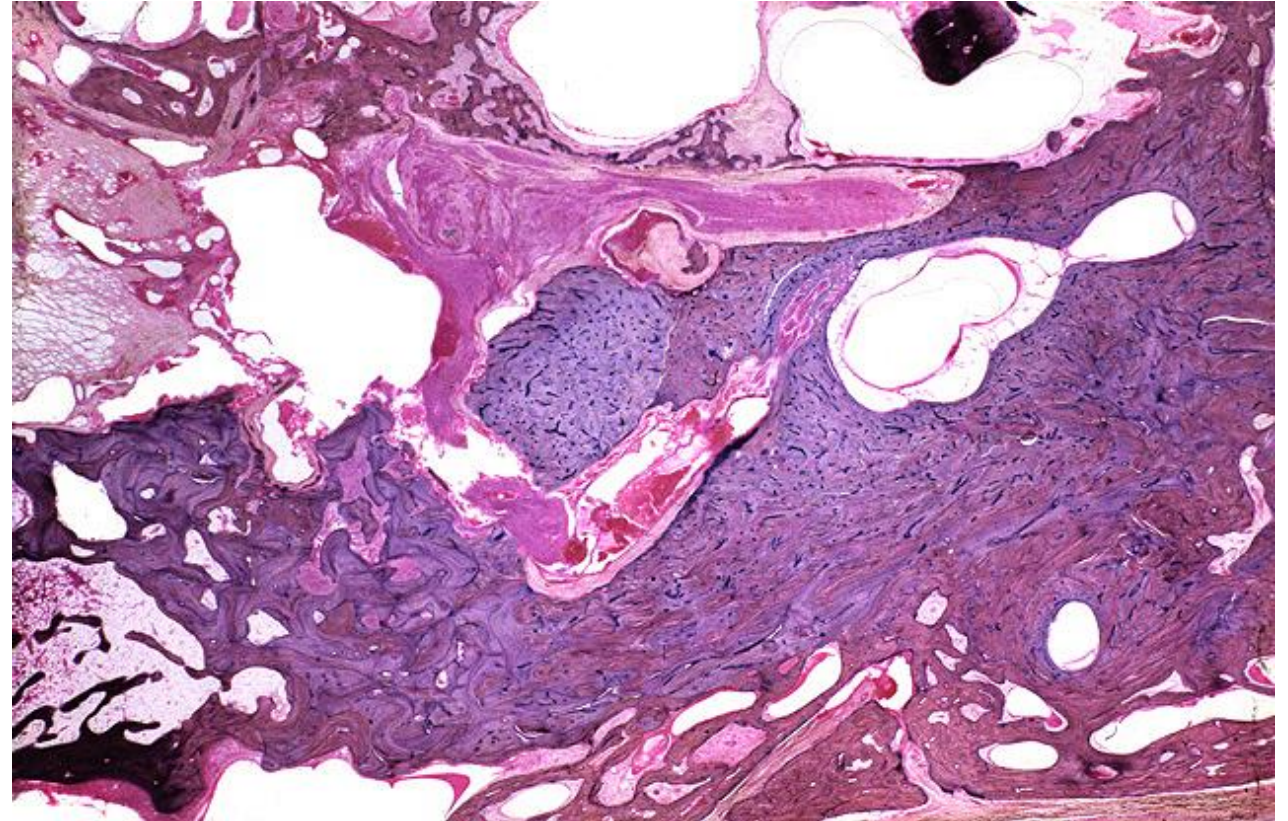
TB Case Number: 221

Gender: Male

Age (yrs.): 56

Otologic Diagnosis:

1. Schwannoma, cerebellopontine angle, clinical, left
2. Hemotympanum, postoperative, schwannoma, left
3. Subarachnoid hemorrhage, postoperative, bilateral
4. Membranous labyrinth, degeneration, schwannoma, left
5. Organ of Corti, degeneration



Singular Canals, L-271

Title: Singular Canals, L-271

Chapter: Anatomy

Chapter Section: Cochlea

TB Case Number: 922

Gender: Female

Age (yrs.): 83

Otologic Diagnosis:

1. Sensorineural hearing loss, sudden, presumably of vascular etiology, right
2. Apical cochlear lesion, characterized by degeneration of sensory and neural tissues and a fibro-osseous response, right
3. Presbycusis, mixed, strial and neural, left



High Jugular Bulb, L-451

Title: High jugular bulb, L-451

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 996

Gender: Male

Age (yrs.): 42

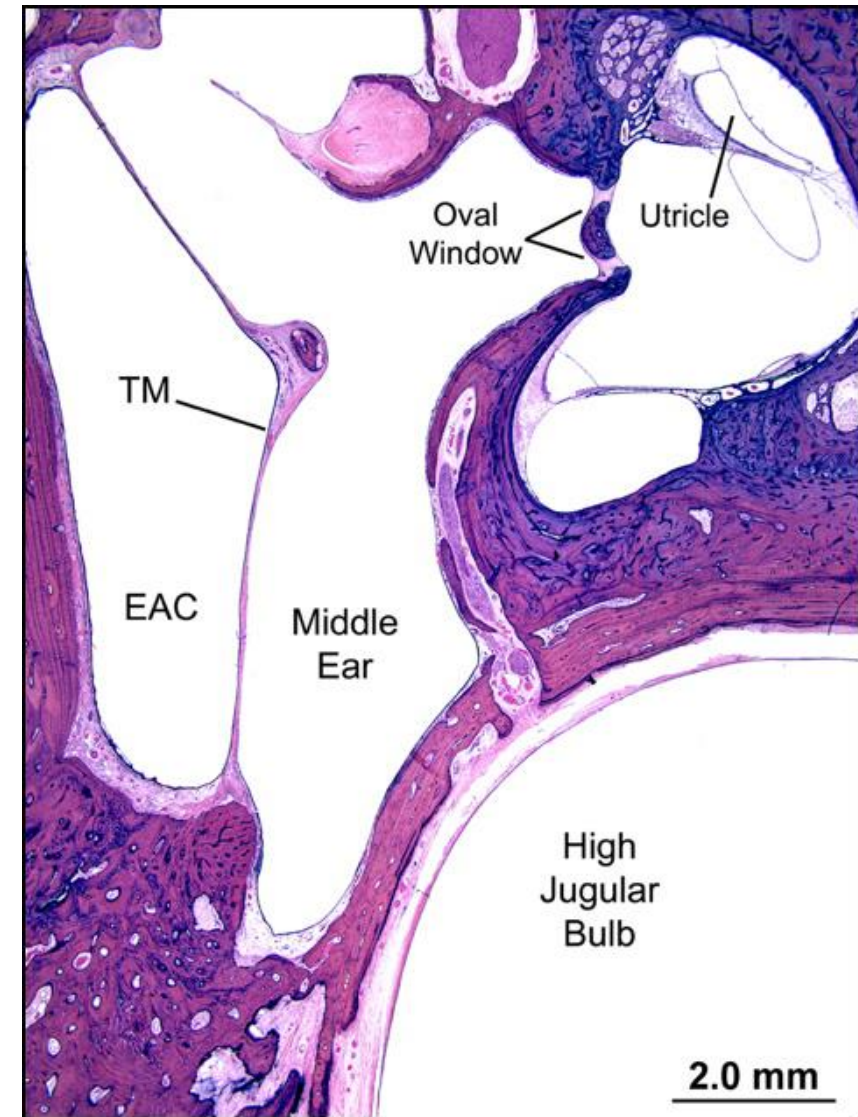
Otologic Diagnosis:

Clinical:

Sensorineural hearing loss, moderate, bilateral, sequel of pneumococcal meningitis

Histopathologic:

1. Loss of spiral ganglion cells, presumed secondary to cochlear neuritis from bacterial meningitis, bilateral.
2. Atrophy of organ of Corti



High Jugular Bulb, R-411

Title: High Jugular Bulb, R-411

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 972

Comments: High jugular bulb dehiscent into the hypotympanum in 92 yr. old female, no symptoms

Gender: Female

Age (yrs.): 93

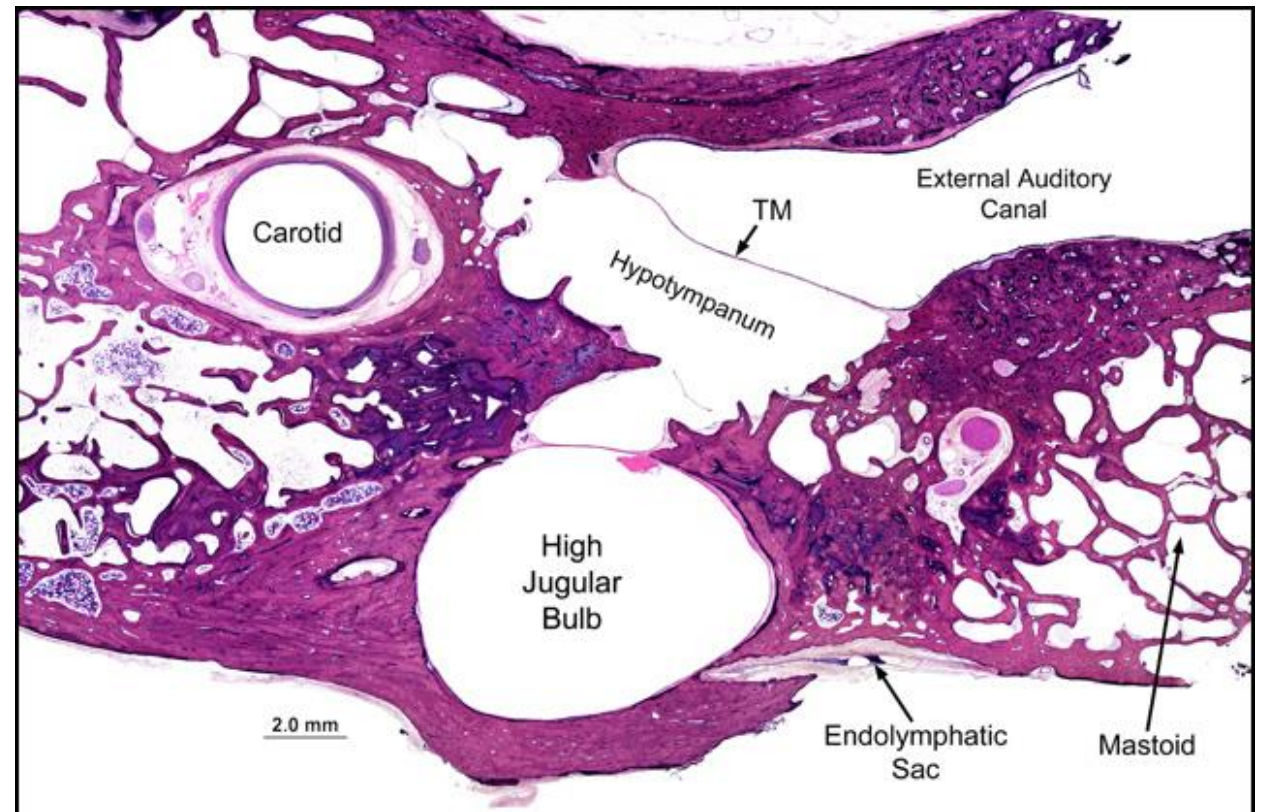
Otologic Diagnosis:

Clinical:

Sensorineural hearing loss, downsloping, consistent with presbycusis

Histopathologic:

Cochlear pathology, consistent with mixed presbycusis:
Complete atrophy of organ of Corti, basal turn



Jugular Megabulb, R- 476

Title: Jugular Megabulb, R- 476

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

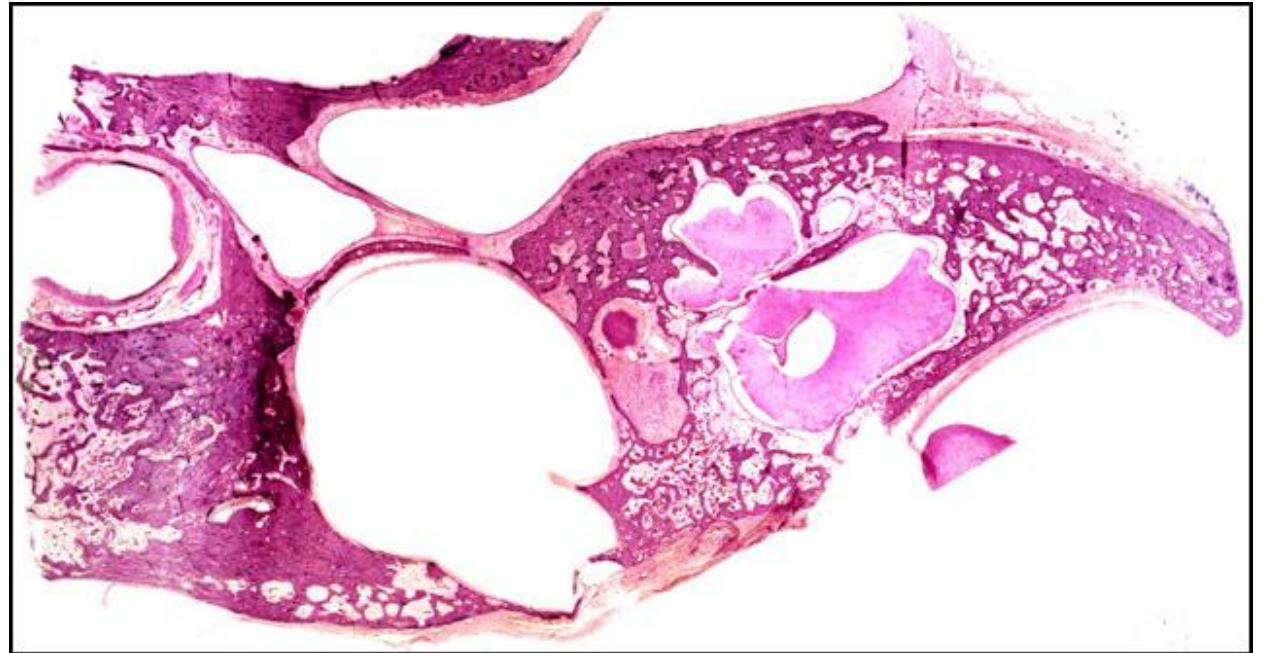
TB Case Number: 747

Gender: Female

Age (yrs.): 73

Otologic Diagnosis:

1. Glomus jugular tumor, temporal bone, right
2. Mastoid, surgical defect, right
3. Radiation reaction of bone and fibrous tissue involving mastoid and the posterior part of the otic capsule, right



Jugular Megabulb, R-441

Title: Jugular Megabulb, R-441

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 689

Gender: Male

Age (yrs.): 58

Otologic Diagnosis:

1. Chronic suppurative otitis media and mastoiditis with erosion of the tegmen tympani and extension into the middle cranial fossa, left
2. Extradural abscess, middle cranial fossa, left



Jugular Megabulb, R-441

Title: Jugular Megabulb, R-441

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

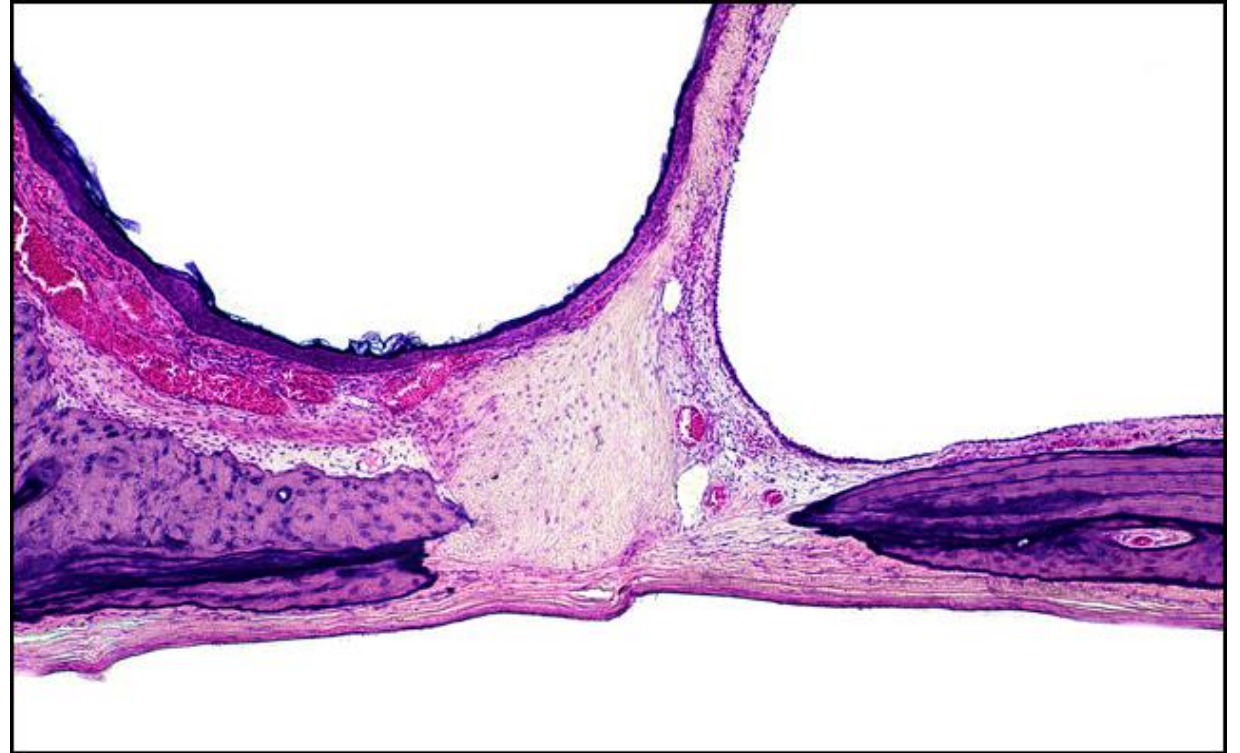
TB Case Number: 689

Gender: Male

Age (yrs.): 58

Otologic Diagnosis:

1. Chronic suppurative otitis media and mastoiditis with erosion of the tegmen tympani and extension into the middle cranial fossa, left
2. Extradural abscess, middle cranial fossa, left
3. Fibro-osseous obliteration, jugular bulb, inactive



Jugular Megabulb, R-472

Title: Jugular Megabulb, R-472

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

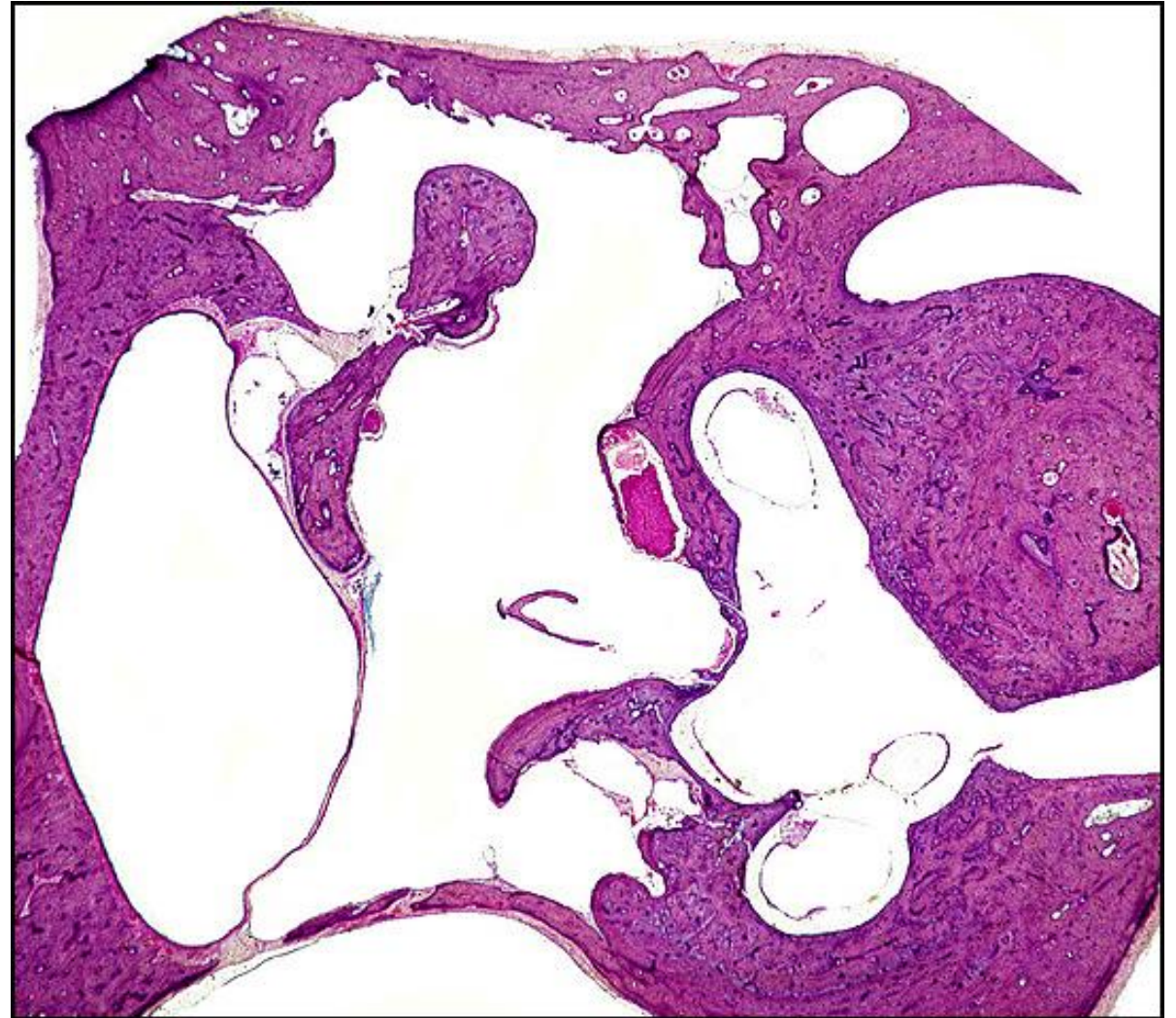
TB Case Number: 689

Gender: Male

Age (yrs.): 58

Otologic Diagnosis:

1. Chronic suppurative otitis media and mastoiditis with erosion of the tegmen tympani and extension into the middle cranial fossa, left
2. Extradural abscess, middle cranial fossa, left
3. Fibro-osseous obliteration, jugular bulb, inactive



High Jugular Vein, L-390

Title: High Jugular Vein, L-390

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

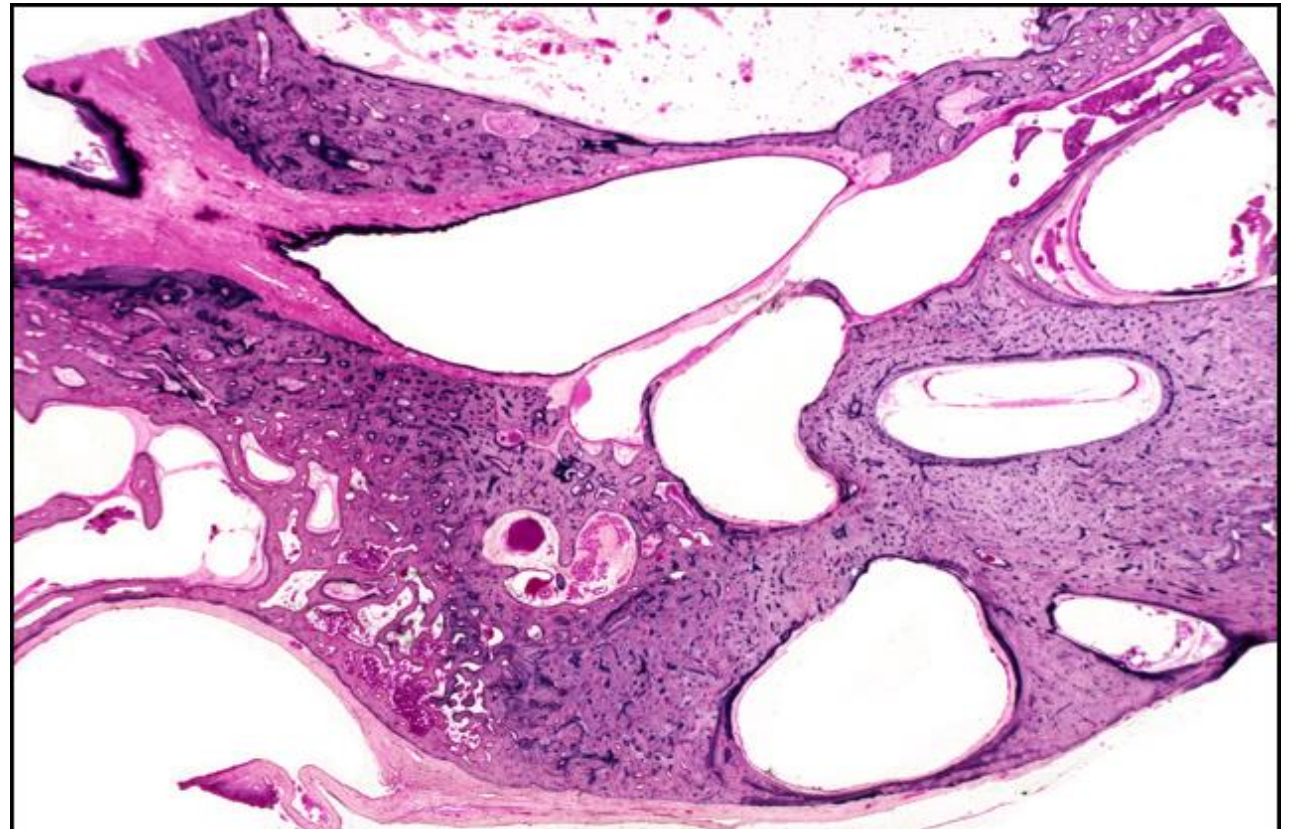
TB Case Number: 729

Gender: Female

Age (yrs.): 80

Otologic Diagnosis:

1. Otosclerosis with stapes fixation, bilateral
2. Presbycusis, neural and strial, bilateral
3. Jugular bulb, anomalous, left
4. Mastoids, small, bilateral



Anomalous Jugular Bulb, L-371

Title: Anomalous Jugular Bulb, L-371

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

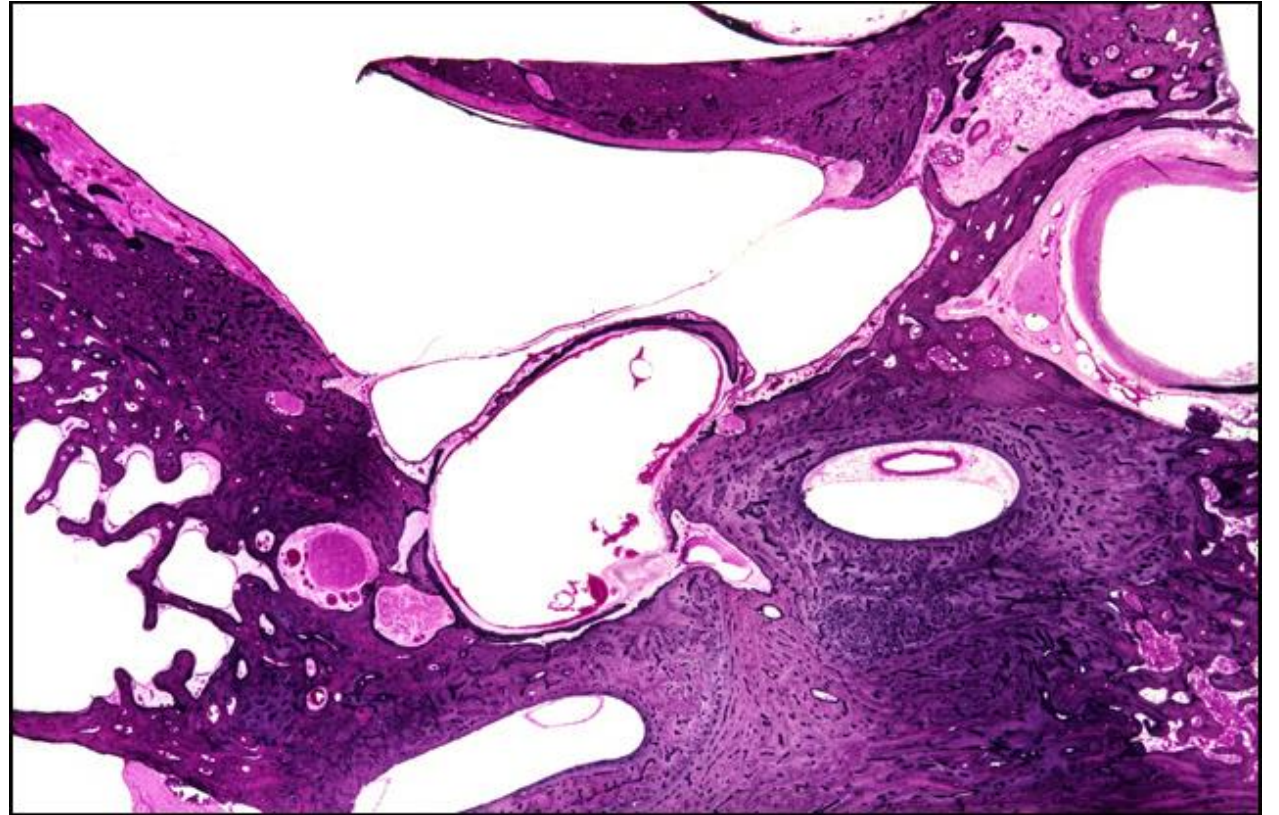
TB Case Number: 6

Gender: Female

Age(yrs.): 69

Otologic Diagnosis:

1. Meniere's disease, left
2. Endolymphatic hydrops, severe, left
3. Presbycusis, mixed, neural and strial, bilateral
4. Focal atrophy, tectorial membrane, basal turn, right
5. High jugular bulb, left



High Jugular Bulb, L-431

Title: High Jugular Bulb, L-431

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

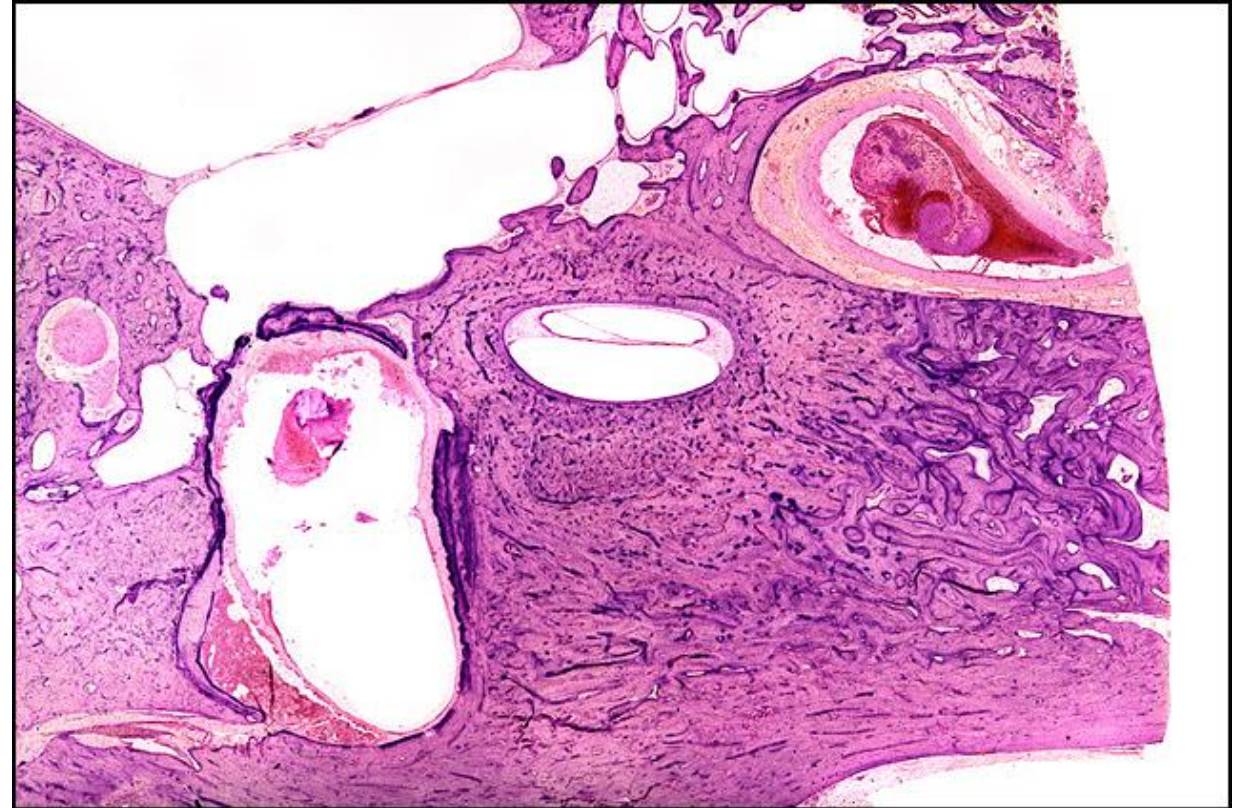
TB Case Number: 132

Gender: Female

Age (yrs.): 80

Otologic Diagnosis:

1. Tympanic membrane, perforation, anteroinferior, bilateral
2. Cholesteatoma, mesotympanum, bilateral
3. Cholesteatoma, epitympanum, bilateral
4. Sclerosis, fibro-osseous, mastoid, bilateral
5. Tympanomastoiditis, acute, suppurative and granular, right



High Jugular Bulb, L-431

Title: High Jugular Bulb, L-431

Chapter: Anatomy

Chapter Section: AICA, Jugular, Sigmoid, Vessels - Carotid

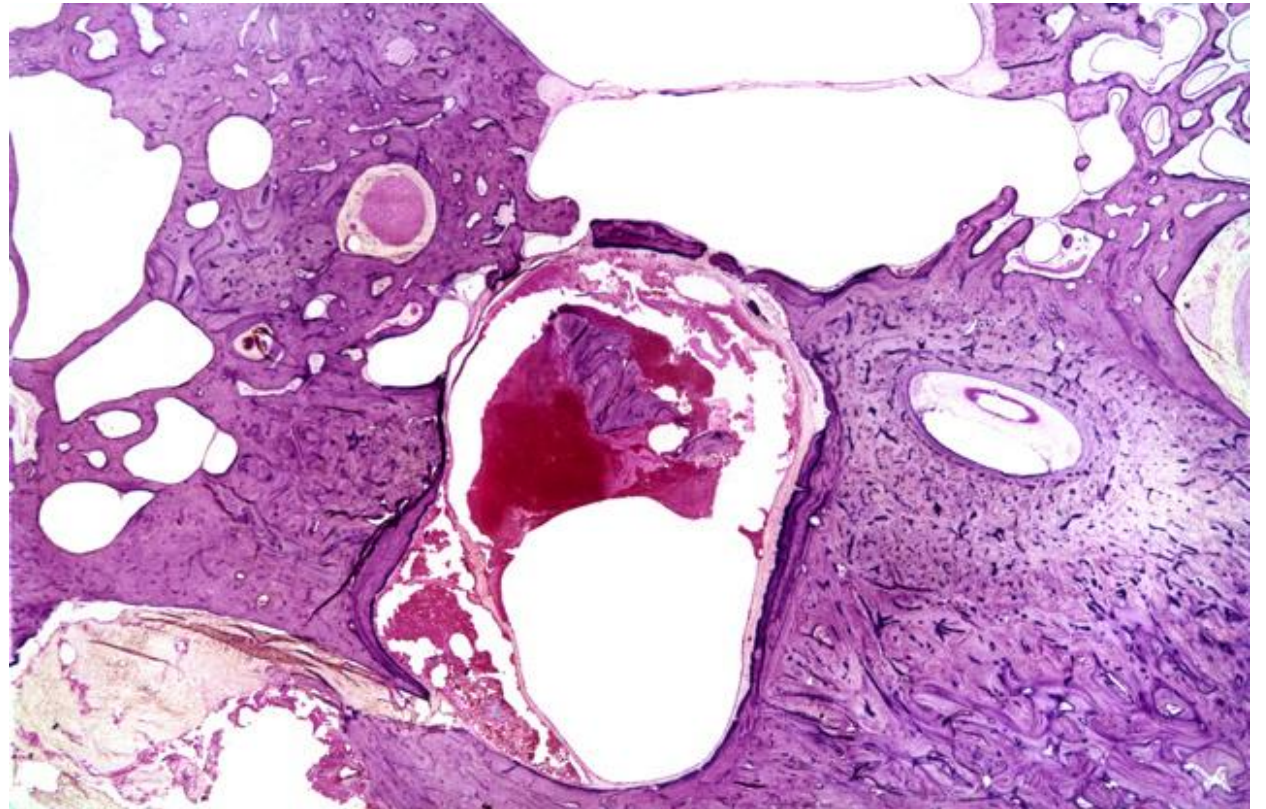
TB Case Number: 132

Gender: Female

Age (yrs.): 80

Otologic Diagnosis:

1. Tympanic membrane, perforation, anteroinferior, bilateral
2. Cholesteatoma, mesotympanum, bilateral
3. Cholesteatoma, epitympanum, bilateral
4. Sclerosis, fibro-osseous, mastoid, bilateral
5. Tympanomastoiditis, acute, suppurative and granular, right



AICA, R-181

Title: AICA, R-181

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 445

Gender: Male

Age(yrs.): 88

Otologic Diagnosis:

1. Meniere's disease, right
2. Cochlear lesion, apical, right
3. Endolymphatic duct, fibrosis, right
4. Endolymphatic sac, fibrosis, right
5. Otitis media, right
6. Hemorrhage, bone marrow, agonal, left
7. Neural atrophy, primary, bilateral



AICA, L-191

Title: AICA, L-191

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

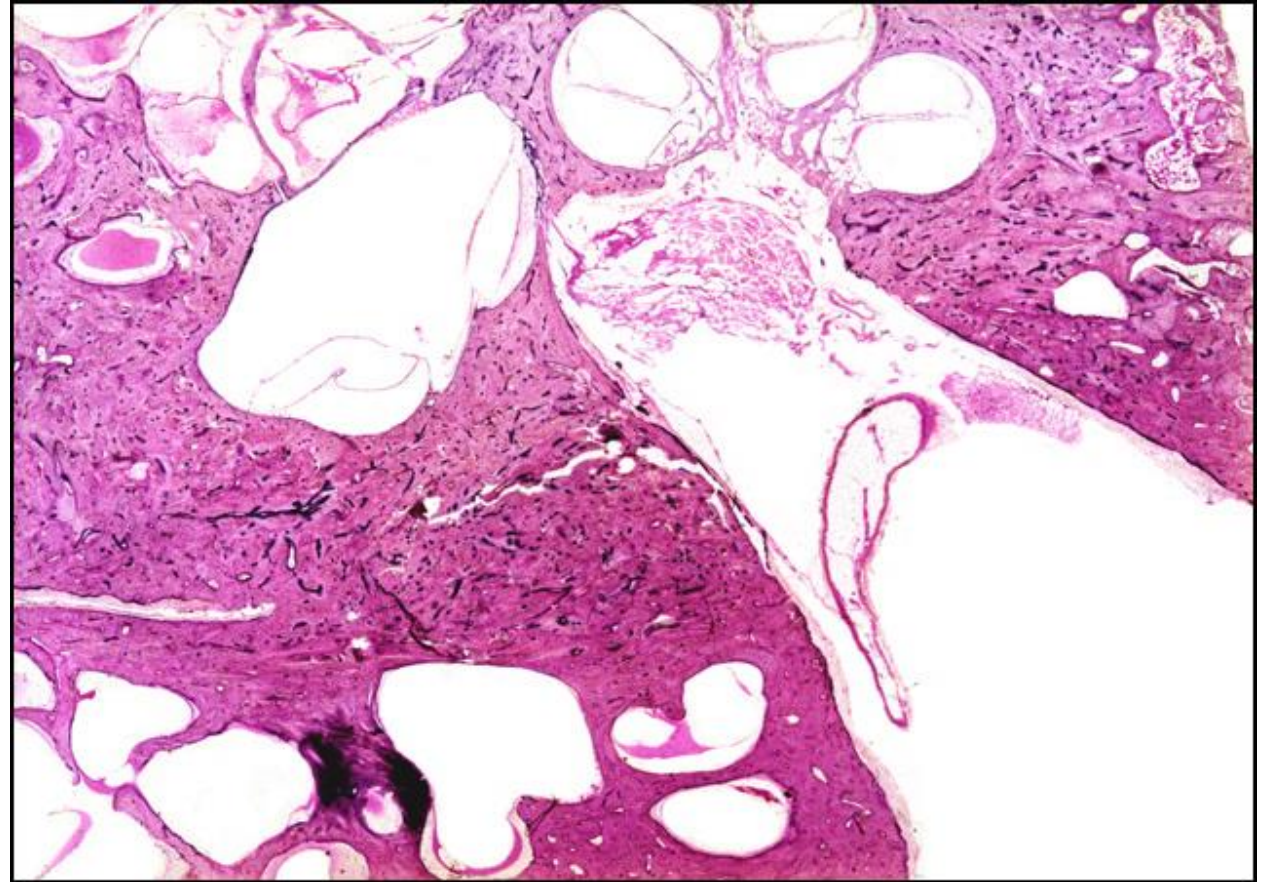
TB Case Number: 625

Gender: Female

Age(yrs.): 96

Otologic Diagnosis:

Presbycusis, characterized by spiral ligament atrophy



AICA, L-121

Title: AICA, L-121

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 76

Gender: Male

Age(yrs.): 87

Otologic Diagnosis:

1. Cupulolithiasis, posterior semicircular canal, right
2. Otitis media, acute, mild, agonal, left
3. Spiral ligament, atrophy, severe, apical region, bilateral
4. Stria vascularis, atrophy, apical region, patchy, bilateral



AICA, L-131

Title: AICA, L-131

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

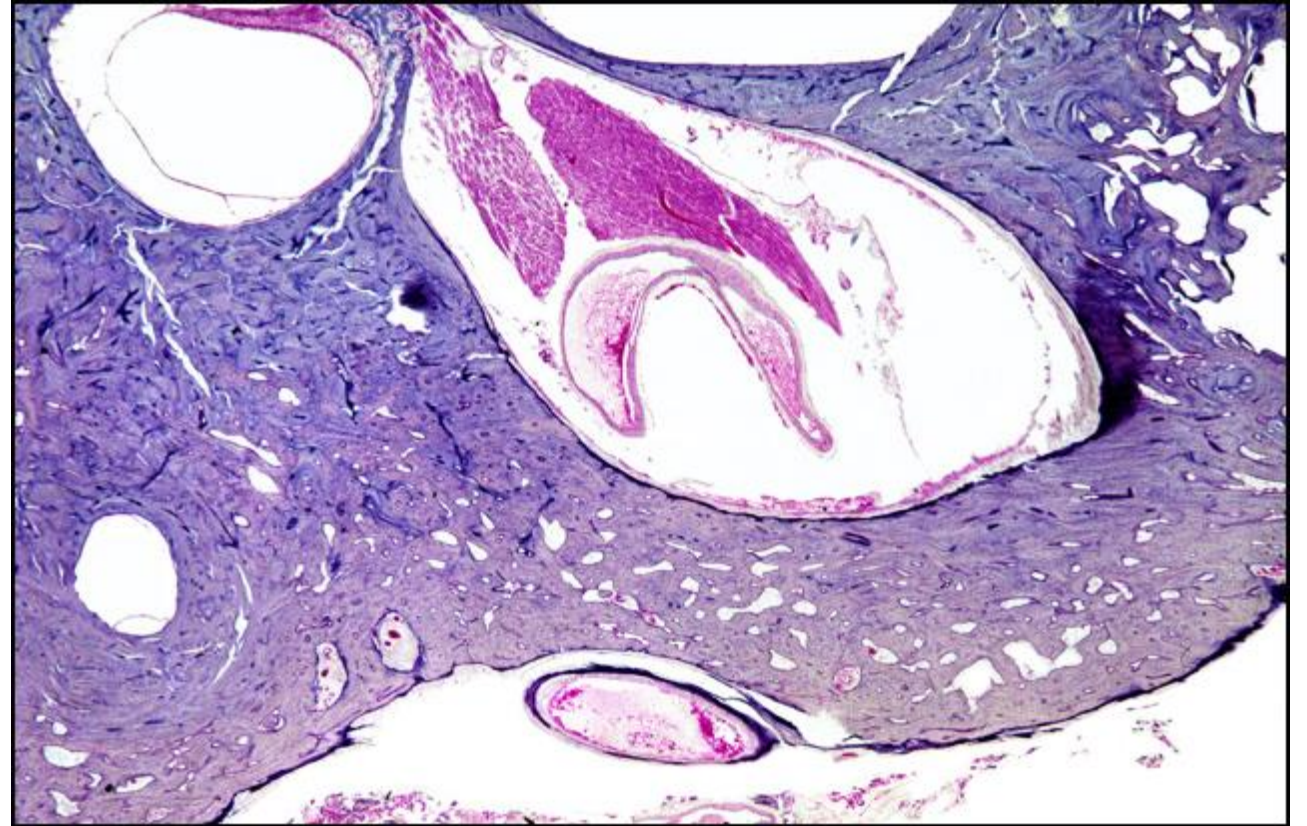
TB Case Number: 76

Gender: Male

Age(yrs.): 87

Otologic Diagnosis:

1. Cupulolithiasis, posterior semicircular canal, right
2. Otitis media, acute, mild, agonal, left
3. Spiral ligament, atrophy, severe, apical region, bilateral
4. Stria vascularis, atrophy, apical region, patchy, bilateral



AICA, L-239

Title: AICA, L-239

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

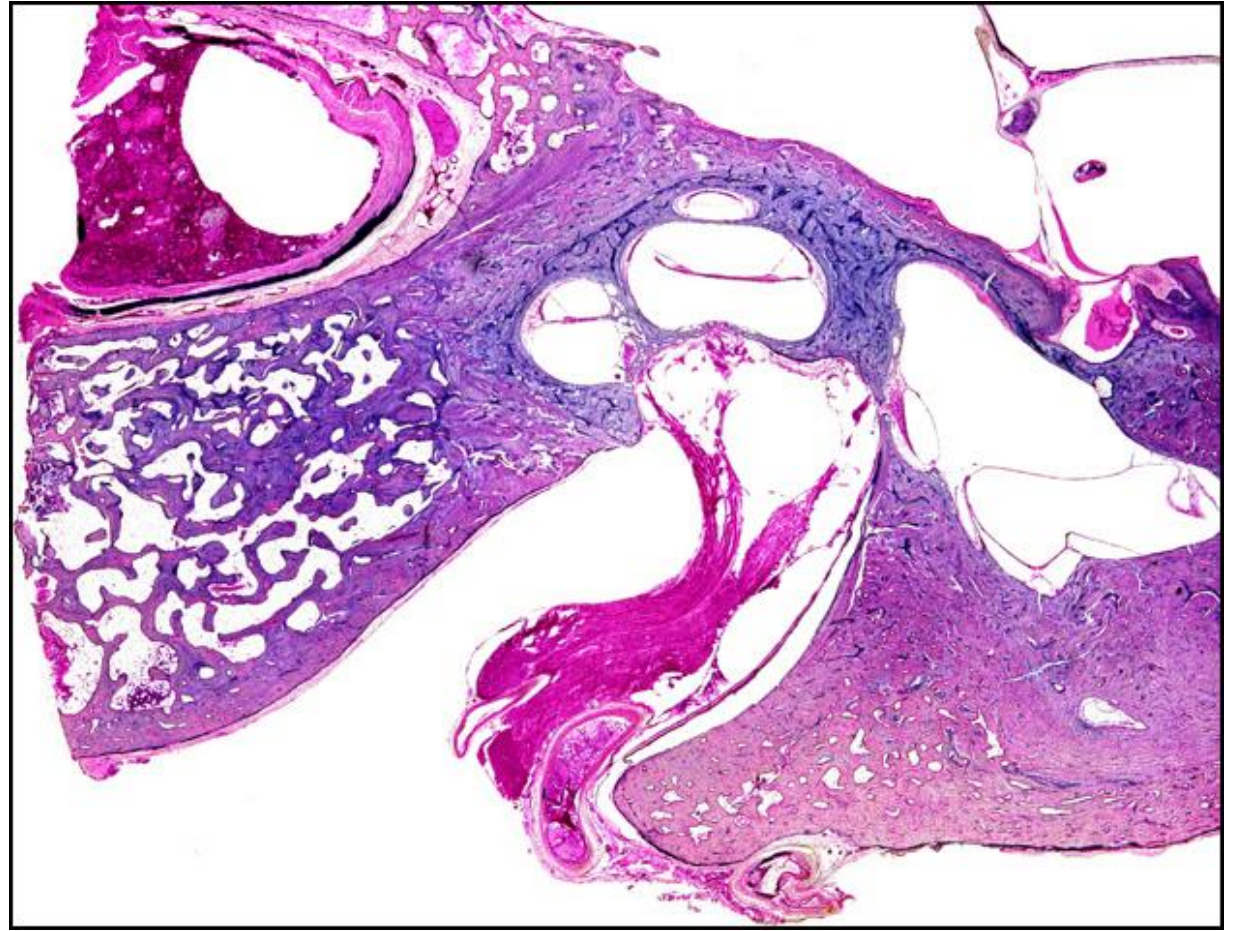
TB Case Number: 76

Gender: Male

Age(yrs.): 87

Otologic Diagnosis:

1. Cupulolithiasis, posterior semicircular canal, right
2. Otitis media, acute, mild, agonal, left
3. Spiral ligament, atrophy, severe, apical region, bilateral
4. Stria vascularis, atrophy, apical region, patchy, bilateral



AICA, L-187

Title: AICA, L-187

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 220

Gender: Male

Age(yrs.): 87

Otologic Diagnosis:

1. Presbycusis, neural, strial and sensory, severe, bilateral
2. Fracture, transverse, petrous bone, right
3. Stapes, subluxation, trauma, right
4. Utricle, tears, trauma, right
5. Posterior canal, fibrosis, perilymphatic space, trauma, right



AICA, L-187

Title: AICA, L-187

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

TB Case Number: 220

Gender: Male

Age(yrs.): 87

Otologic Diagnosis:

1. Presbycusis, neural, strial and sensory, severe, bilateral
2. Fracture, transverse, petrous bone, right
3. Stapes, subluxation, trauma, right
4. Utricle, tears, trauma, right
5. Posterior canal, fibrosis, perilymphatic space, trauma, right



AICA, L-221

Title: AICA, L-221

Chapter: Anatomy

Chapter section: AICA, Jugular, Sigmoid, Vessels - Carotid

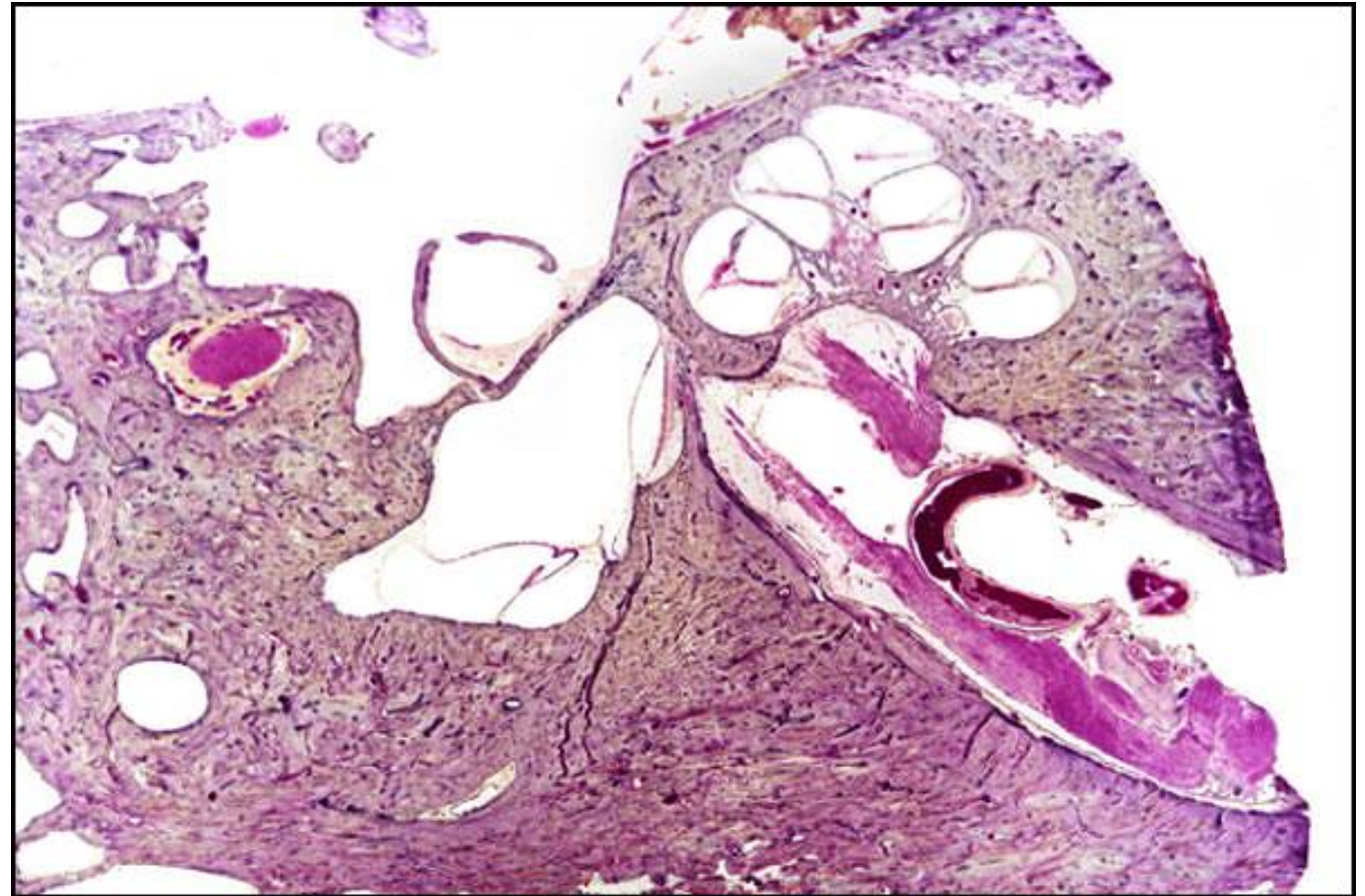
TB Case Number: 810

Gender: Male

Age(yrs.): 84

Otologic Diagnosis:

Presbycusis, stria and sensory



Psammoma Bodies, 191

Title: Psammoma Bodies, 191

Chapter: Anatomy

Chapter section: Miscellaneous

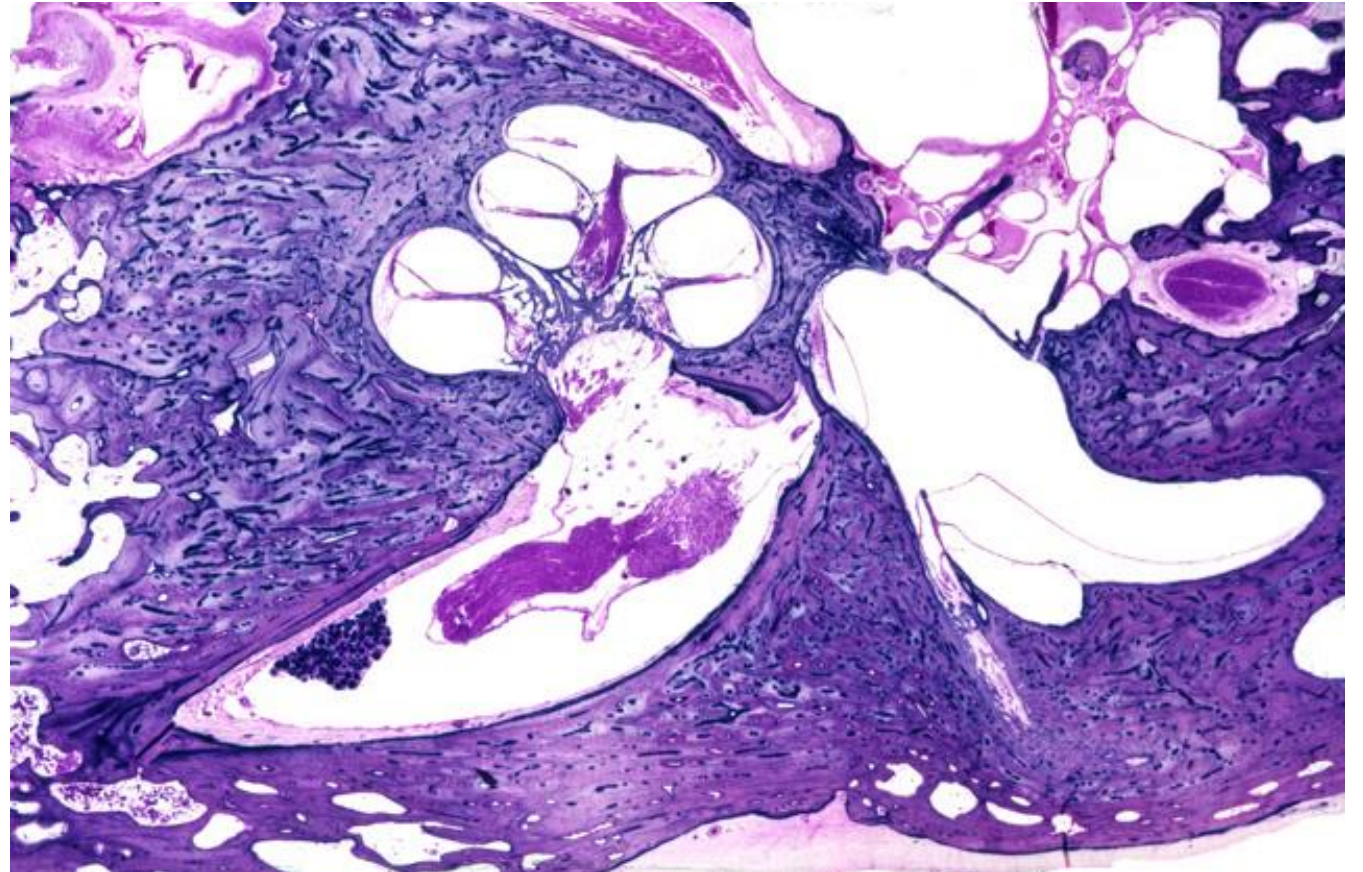
TB Case Number: 209

Gender: Female

Age(yrs.): 81

Otologic Diagnosis:

1. Strial atrophy, moderately severe, bilateral
2. Osteitis, ossicles, mild, bilateral
3. Meningioma, psammomatous, small, internal auditory canal, right
4. Presbycusis, indeterminate
5. Artifact, preparation, compression, left



Psammoma Bodies

Title: Psammoma Bodies

Chapter: Anatomy

Chapter Section: Miscellaneous

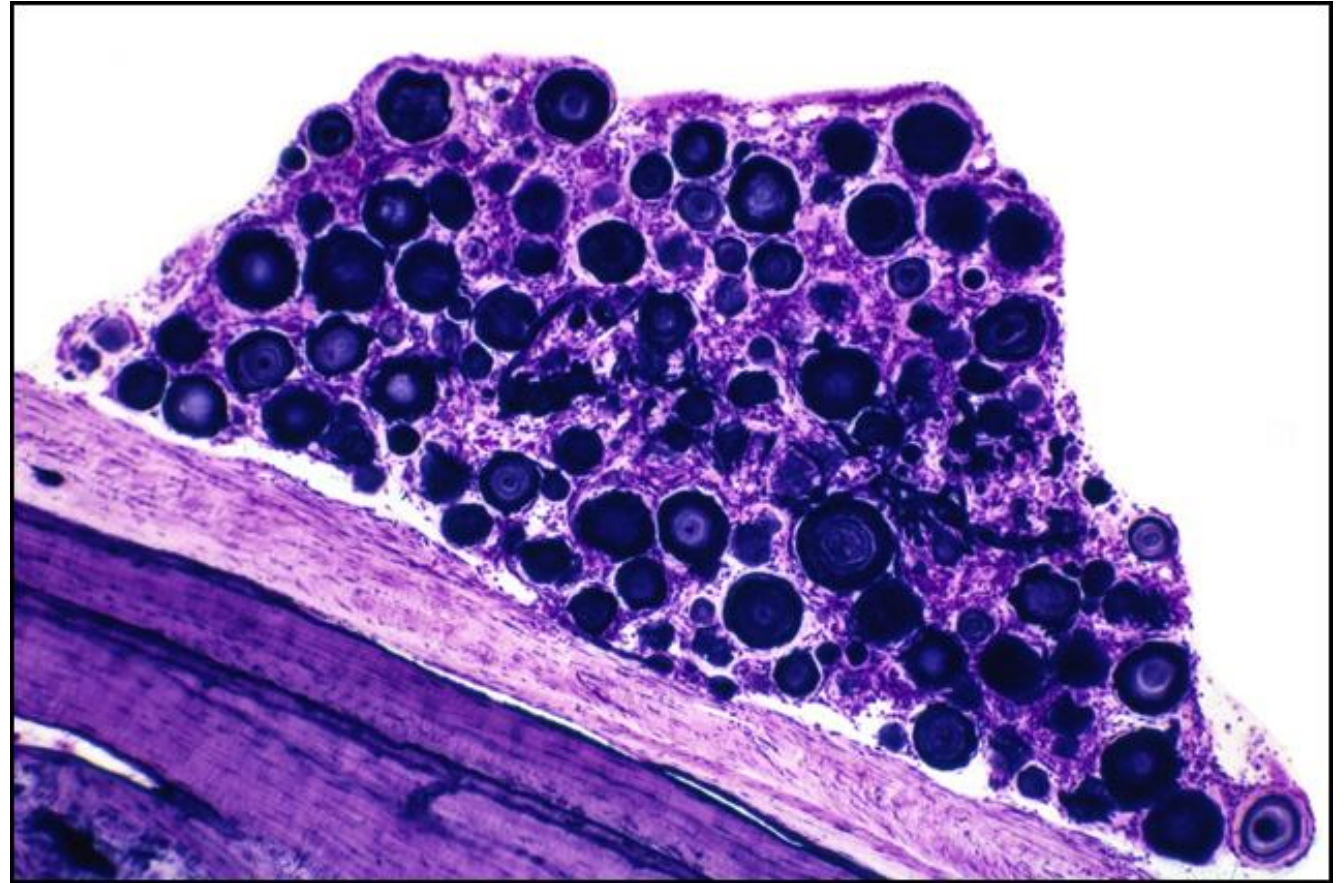
TB Case Number: 209

Gender: Female

Age (yrs.): 81

Otologic Diagnosis:

1. Strial atrophy, moderately severe, bilateral
2. Osteitis, ossicles, mild, bilateral
3. Meningioma, psammomatous, small, internal auditory canal, right
4. Presbycusis, indeterminate
5. Artifact, preparation, compression, left





Mass General Brigham

Mass Eye and Ear