

Temporal Bone Image Library

Chapter: Vascular Disorders

Otopathology Laboratory



Inner Ear Hemorrhage

Title: Inner Ear Hemorrhage

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

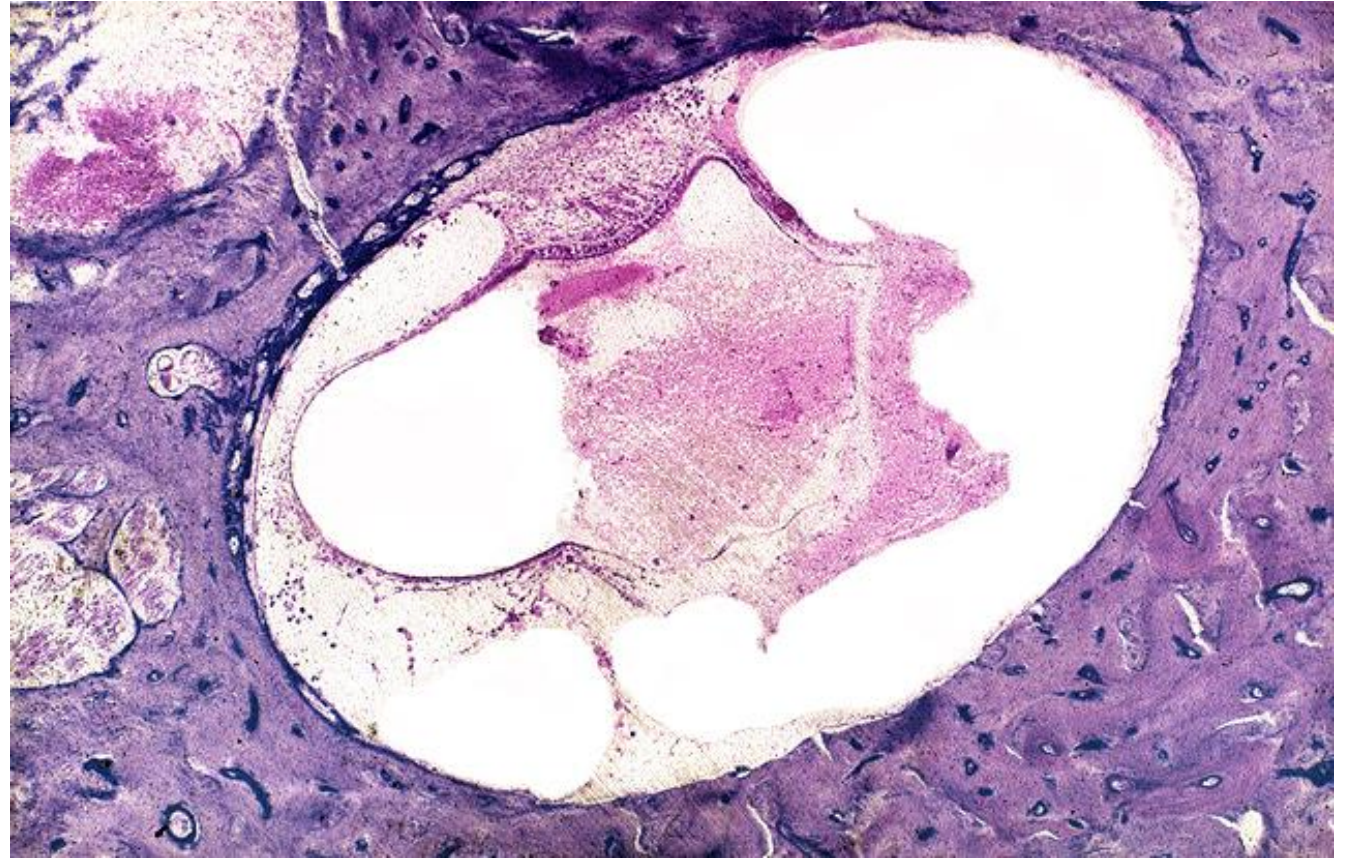
TB Case Number: 414

Gender: Female

Age (yrs.): 69

Otologic Diagnosis:

1. Wegener's granulomatosis
2. Organizing hemorrhage, vestibular labyrinth, right
3. Degeneration of superior and horizontal canal cristae, secondary to labyrinthine hemorrhage, right
4. Atrophy of organ of Corti and spiral ganglion, basal turn, bilateral



Hemorrhage Vestibular Labyrinth, R-141

Title: Hemorrhage Vestibular Labyrinth, R-141

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

TB Case Number: 414

Gender: Female

Age (yrs.): 69

Otologic Diagnosis:

1. Wegener's granulomatosis
2. Organizing hemorrhage, vestibular labyrinth, right
3. Degeneration of superior and horizontal canal cristae, secondary to labyrinthine hemorrhage, right
4. Atrophy of organ of Corti and spiral ganglion, basal turn, bilateral



Hemorrhage Vestibular Labyrinth, R-320

Title: Hemorrhage Vestibular Labyrinth, R-320

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

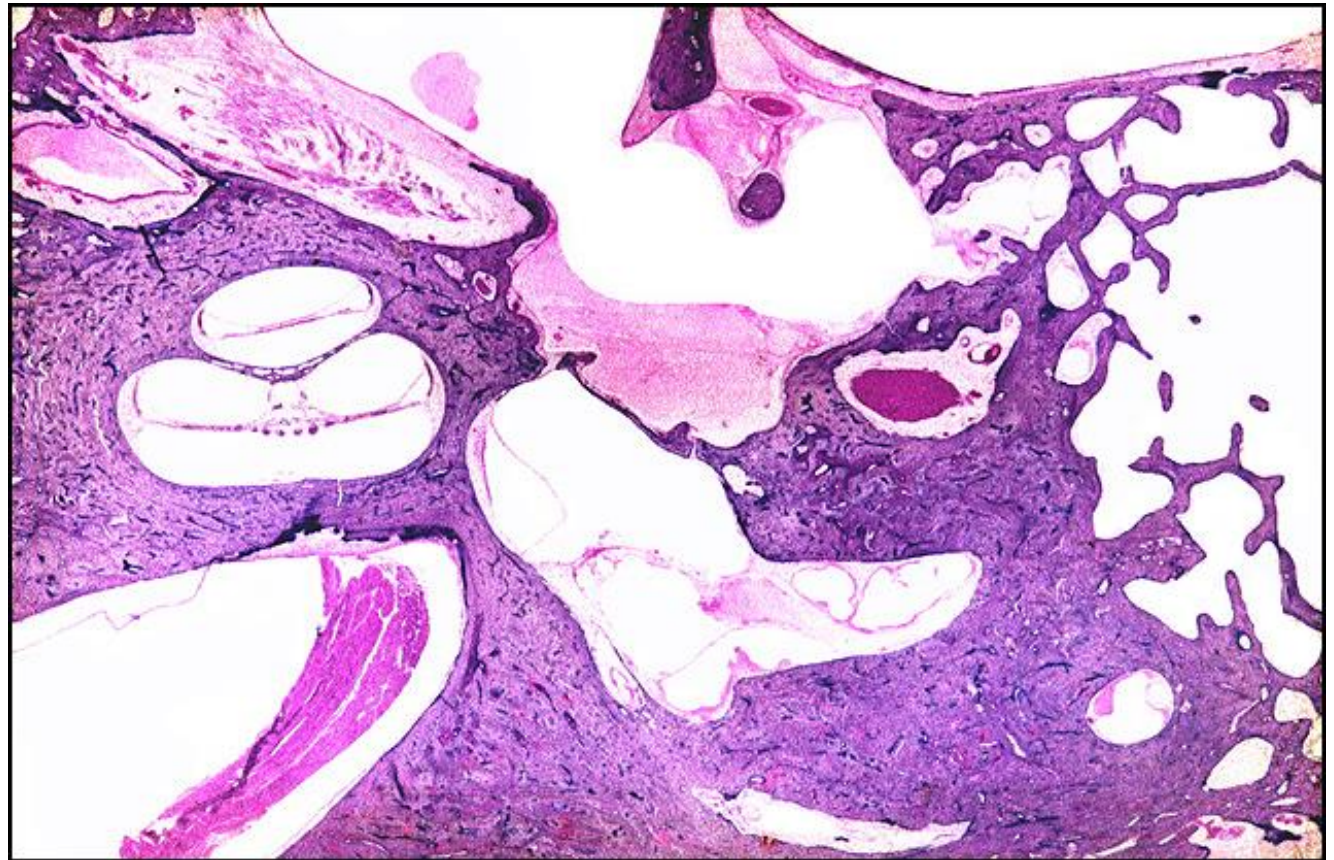
TB Case Number: 414

Gender: Female

Age (yrs.): 69

Otologic Diagnosis:

1. Wegener's granulomatosis
2. Organizing hemorrhage, vestibular labyrinth, right
3. Degeneration of superior and horizontal canal cristae, secondary to labyrinthine hemorrhage, right
4. Atrophy of organ of Corti and spiral ganglion, basal turn, bilateral



Subarachnoid Hemorrhage, R-141

Title: Subarachnoid Hemorrhage, R-141

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

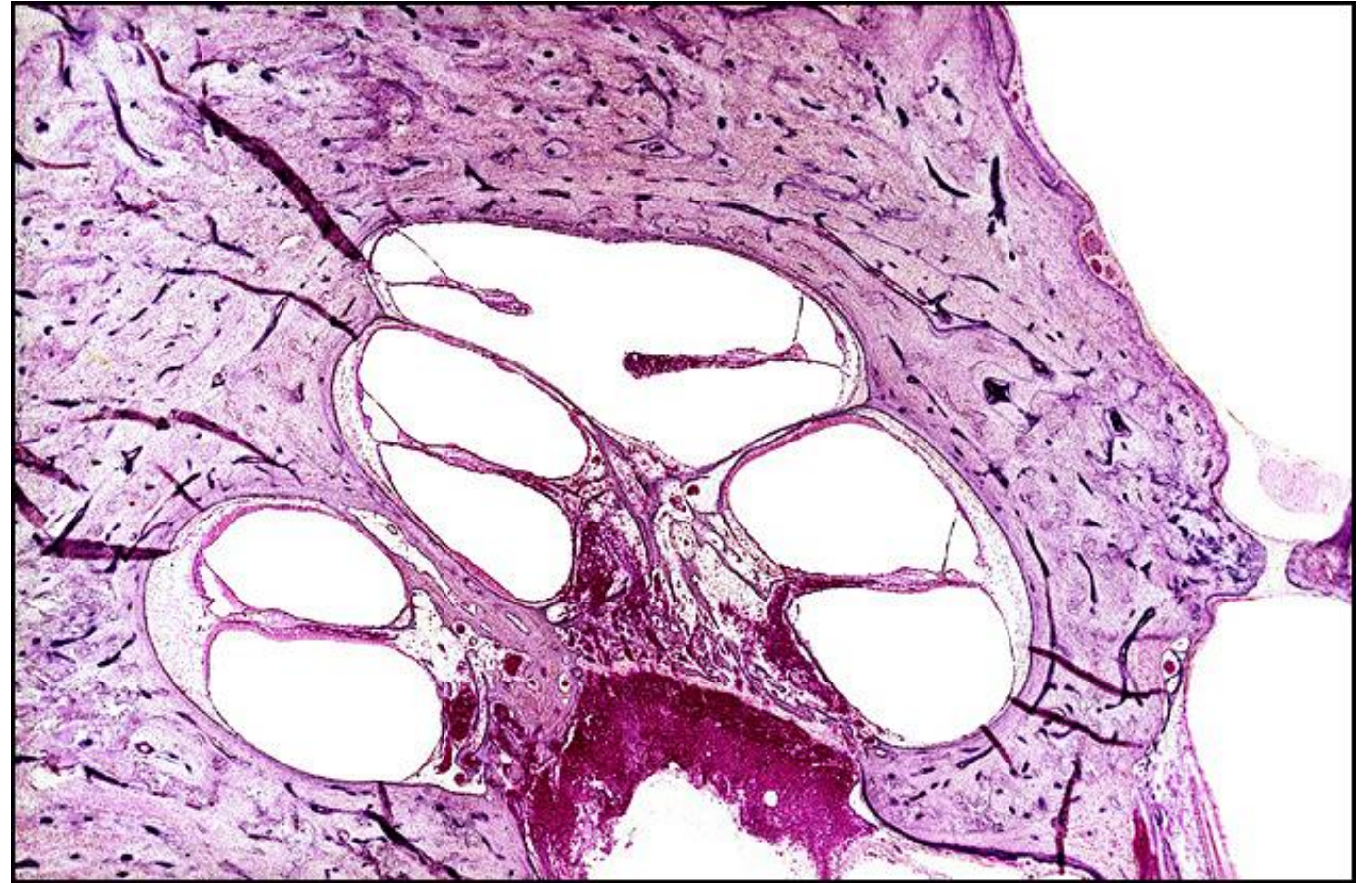
TB Case Number: 449

Gender: Female

Age (yrs.): 77

Otologic Diagnosis:

1. Stria vascularis, atrophy, bilateral
2. Subarachnoid hemorrhage, left
3. Pacchionian bodies, left



Inner Ear Hemorrhage, L-151

Title: Inner Ear Hemorrhage, L-151

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

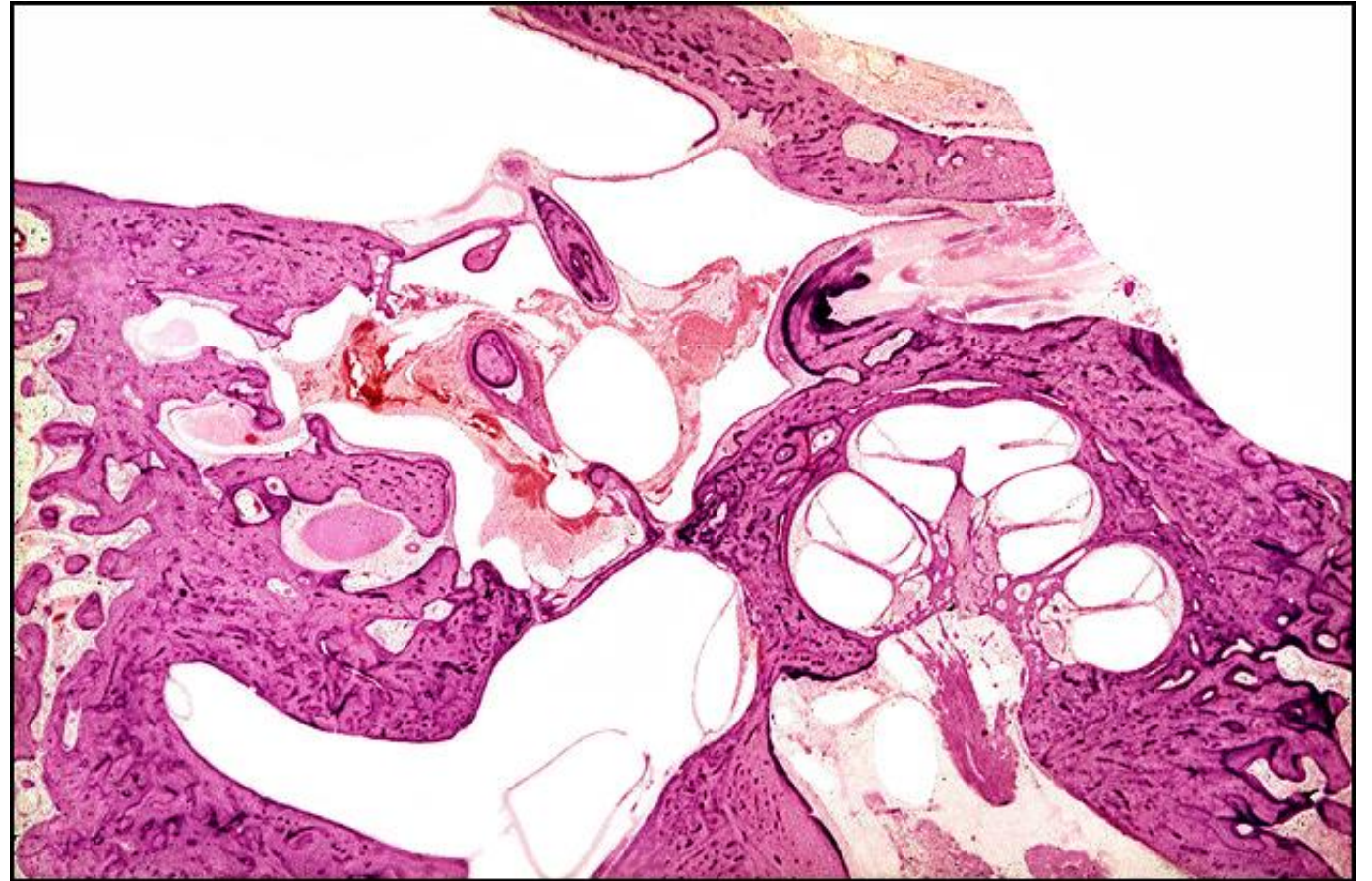
TB Case Number: 606

Gender: Female

Age (yrs.): 11

Otologic Diagnosis:

1. Leukemia, temporal bones, manifested by leukemic infiltrates of bone marrow of petrous apices and submucosal infiltrates
2. Sudden deafness and vertigo due to hemorrhage, perilymphatic space, right ear, complicating leukemia
3. Bilateral chronic serous otitis



Inner Ear Hemorrhage, R-191

Title: Inner Ear Hemorrhage, R-191

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

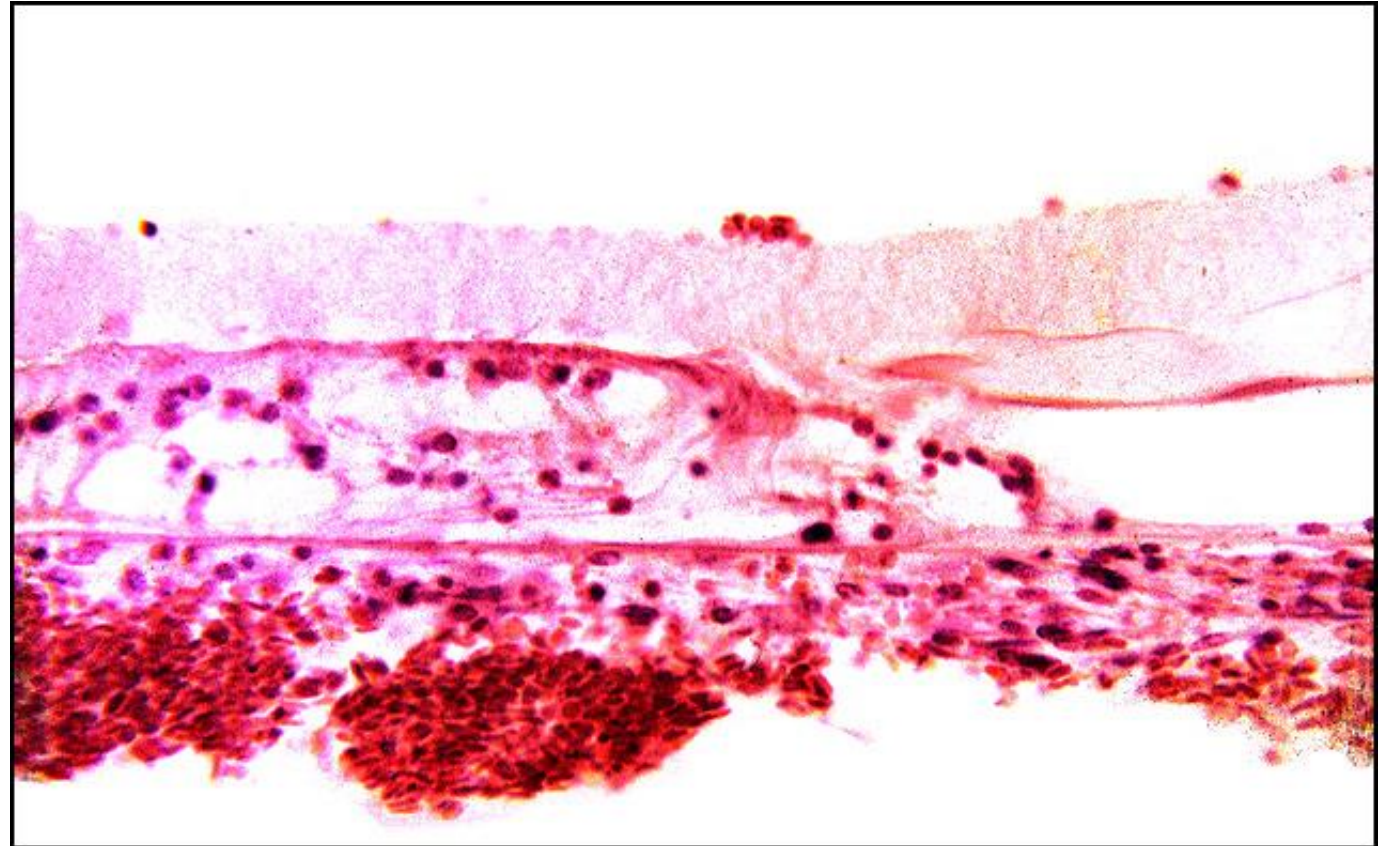
TB Case Number: 606

Gender: Female

Age (yrs.): 11

Otologic Diagnosis:

1. Leukemia, temporal bones, manifested by leukemic infiltrates of bone marrow of petrous apices and submucosal infiltrates
2. Sudden deafness and vertigo due to hemorrhage, perilymphatic space, right ear, complicating leukemia
3. Bilateral chronic serous otitis



Subarachnoid Hemorrhage, L-221

Title: Subarachnoid Hemorrhage, L221

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

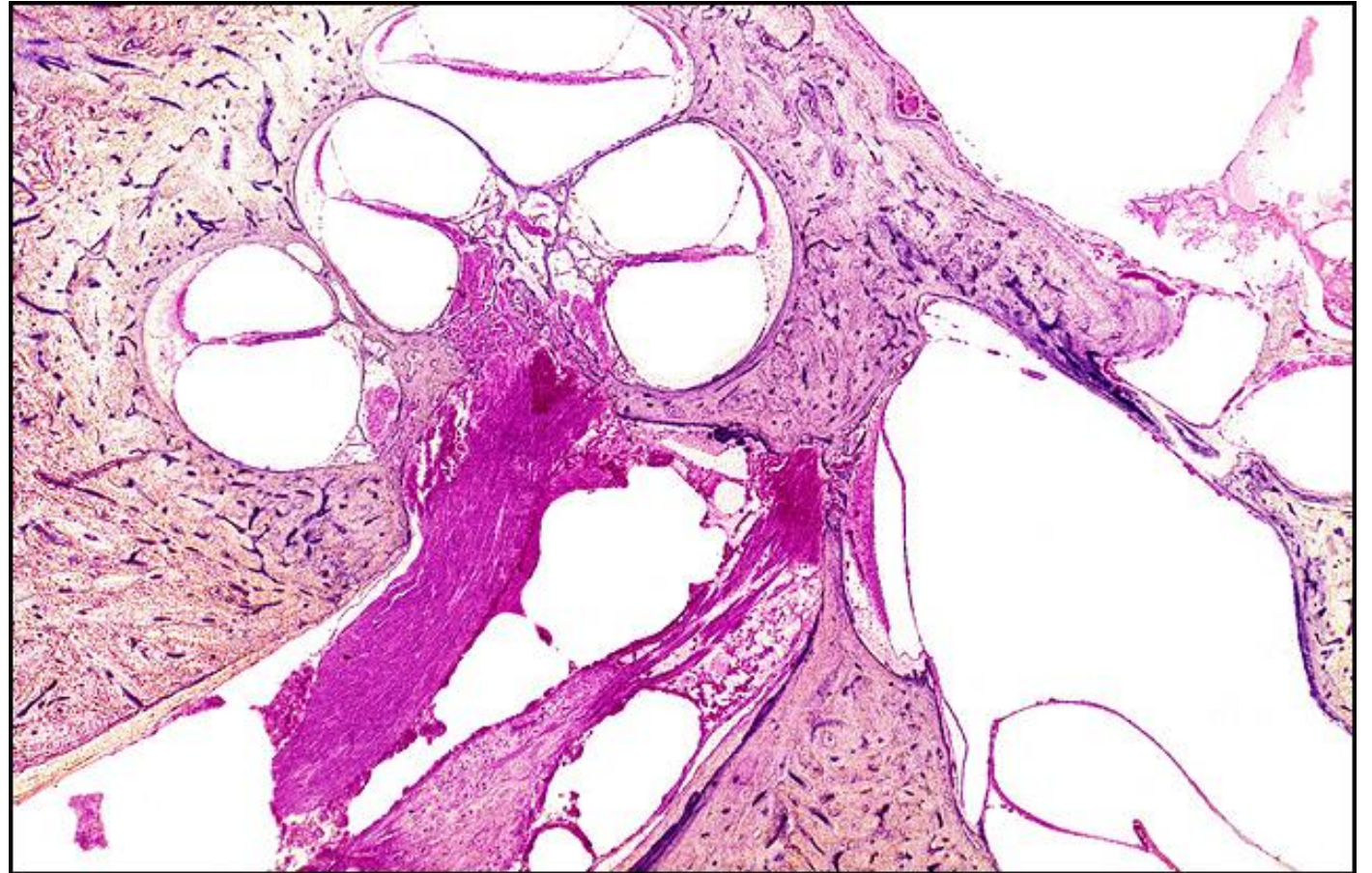
TB Case Number: 849

Gender: Male

Age (yrs.): 50

Otologic Diagnosis:

1. Subarachnoid hemorrhage
2. Otosclerosis, histological



Subarachnoid Hemorrhage, R-271

Title: Subarachnoid Hemorrhage, R-271

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

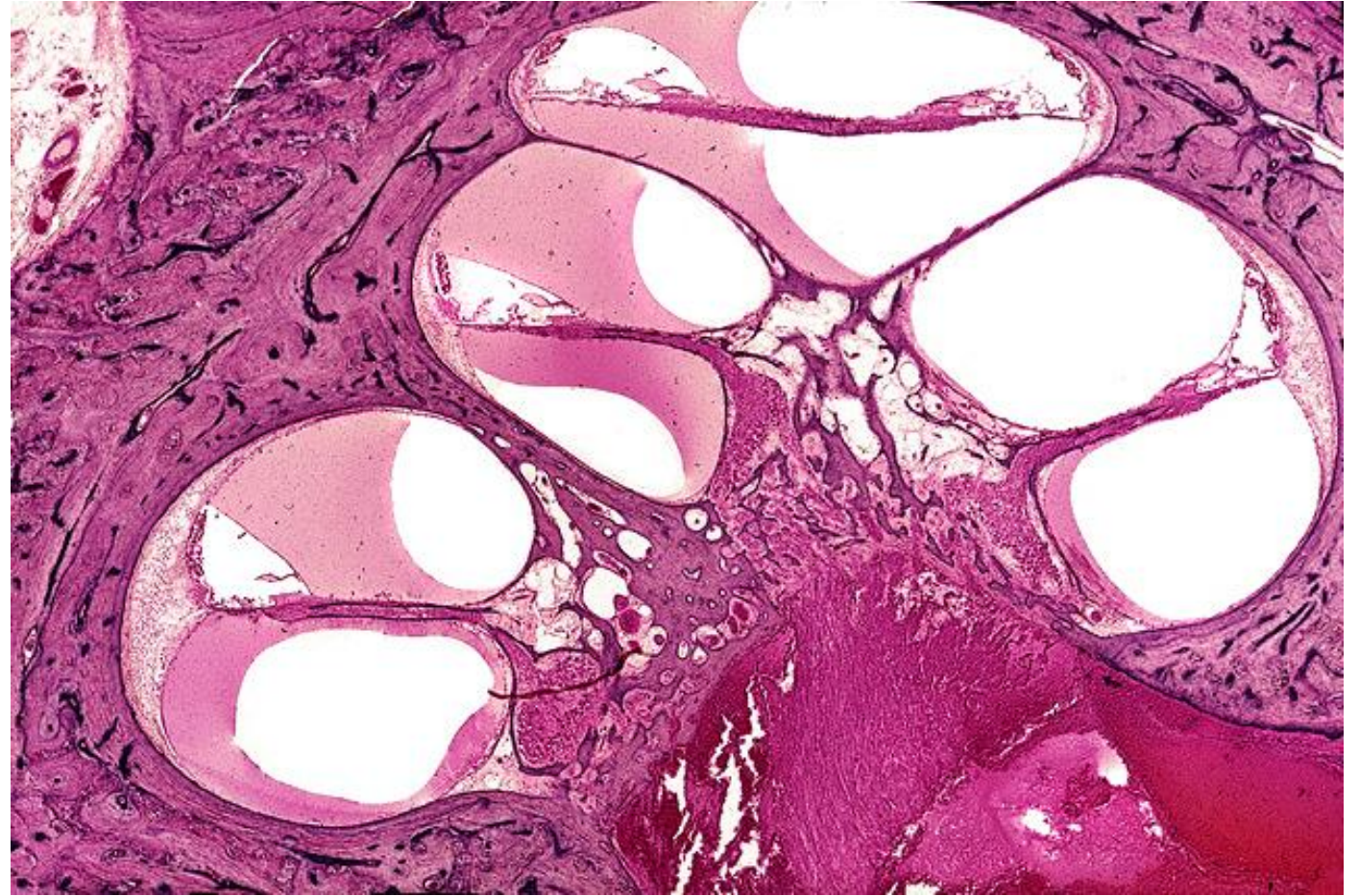
TB Case Number: 782

Gender: Female

Age (yrs.): 59

Otologic Diagnosis:

1. Otosclerosis with stapes fixation
2. Subarachnoid hemorrhage



Subarachnoid Hemorrhage, L-201

Title: Subarachnoid Hemorrhage, L-201

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

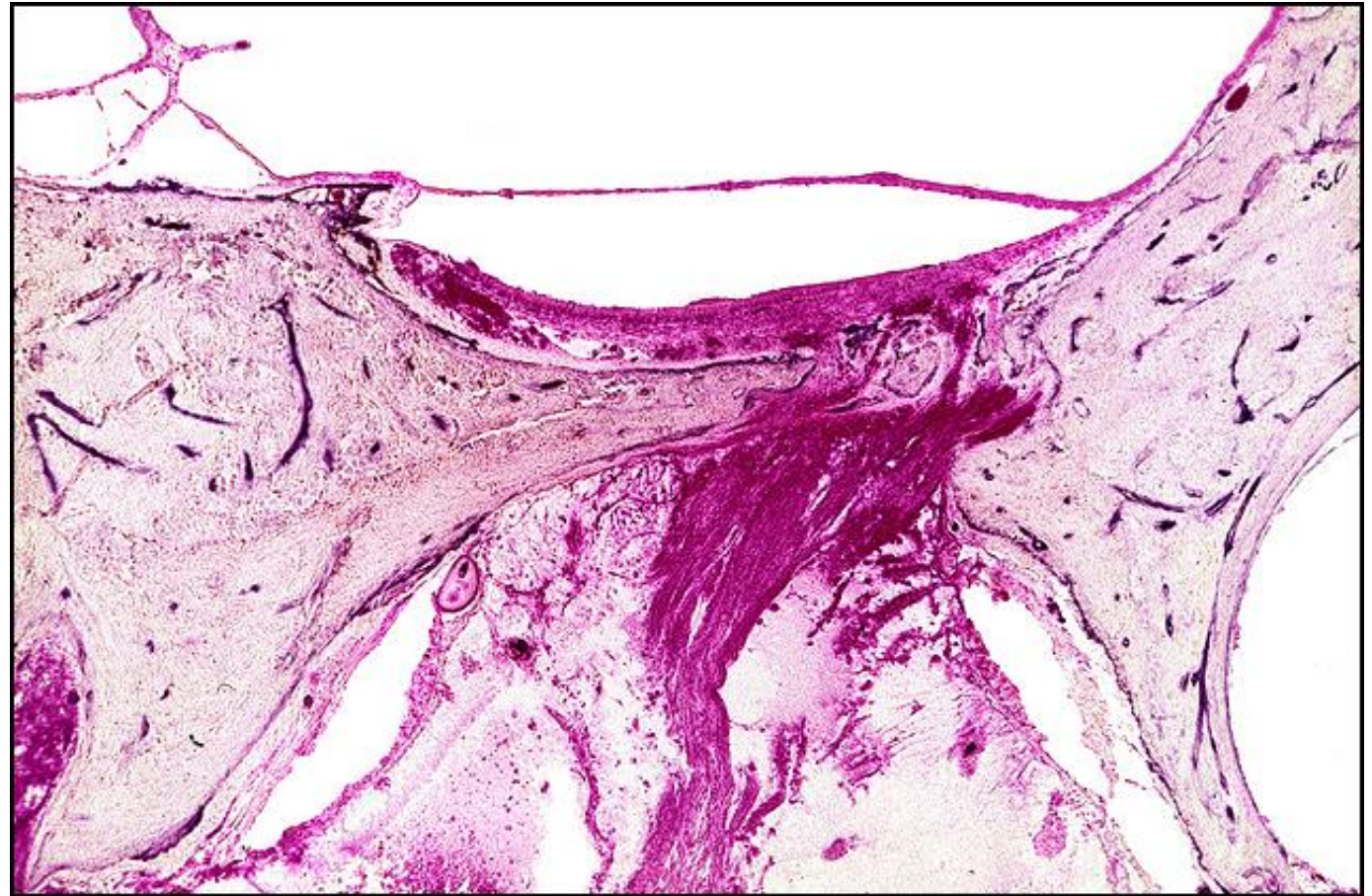
TB Case Number: 849

Gender: Male

Age (yrs.): 50

Otologic Diagnosis:

1. Subarachnoid hemorrhage
2. Otosclerosis, histological



Subarachnoid Hemorrhage, 290

Title: Subarachnoid Hemorrhage, 290

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

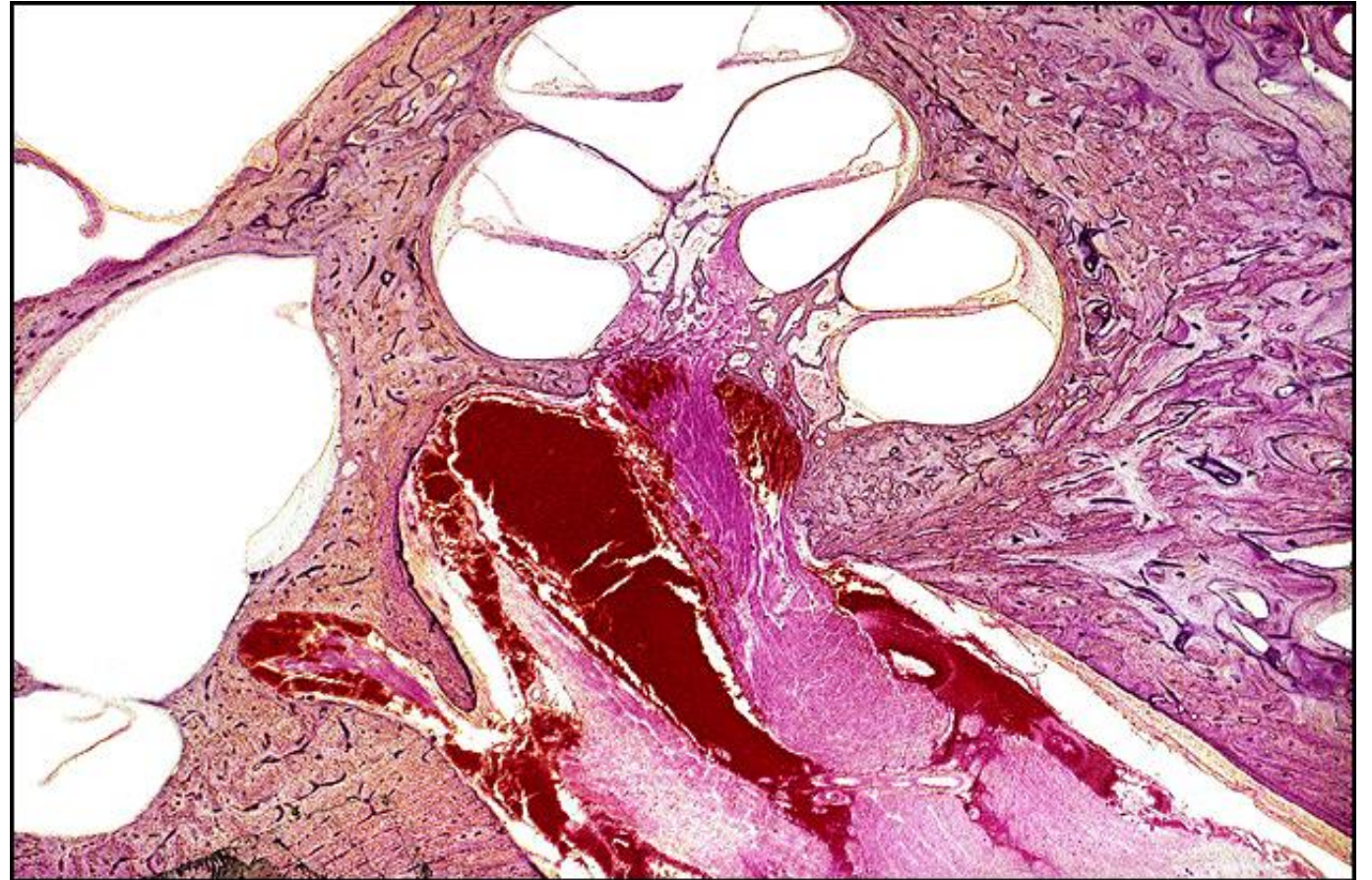
TB Case Number: 723

Gender: Female

Age (yrs.): 53

Otologic Diagnosis:

Hemorrhage, subarachnoid, with blood in cochlea



Subarachnoid Hemorrhage, R-330

Title: Subarachnoid Hemorrhage, R-330

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

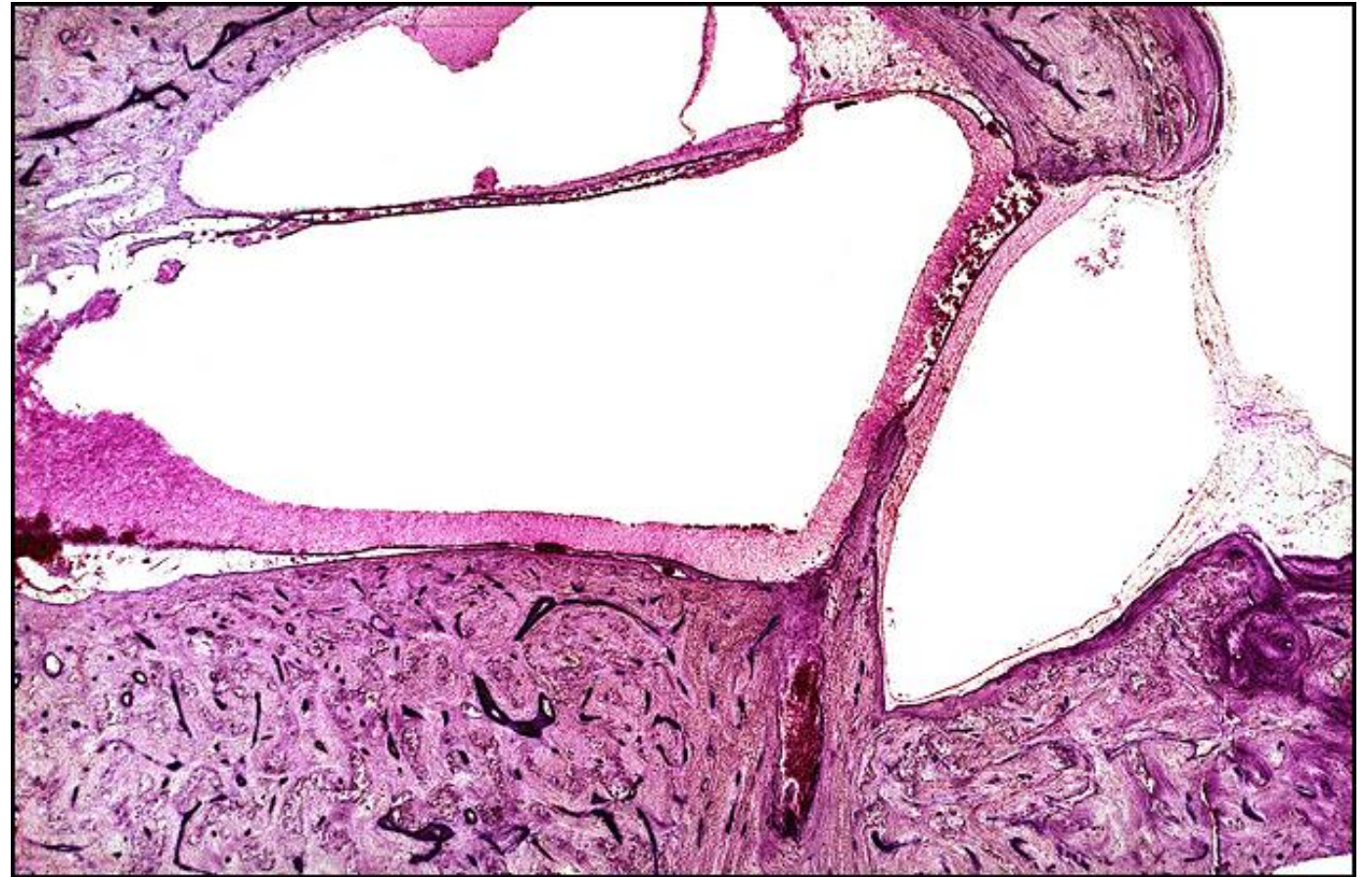
TB Case Number: 723

Gender: Female

Age (yrs.): 53

Otologic Diagnosis:

Hemorrhage, subarachnoid, with blood in cochlea



Subarachnoid Hemorrhage, R-241

Title: Subarachnoid Hemorrhage, R-241

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

TB Case Number: 893

Gender: Male

Age (yrs.): 35

Otologic Diagnosis:

1. Thrombocytopenic purpura
2. Cochleosaccular degeneration, early childhood, cause unknown, bilateral



Subarachnoid Hemorrhage, L-180

Title: Subarachnoid Hemorrhage, L-180

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

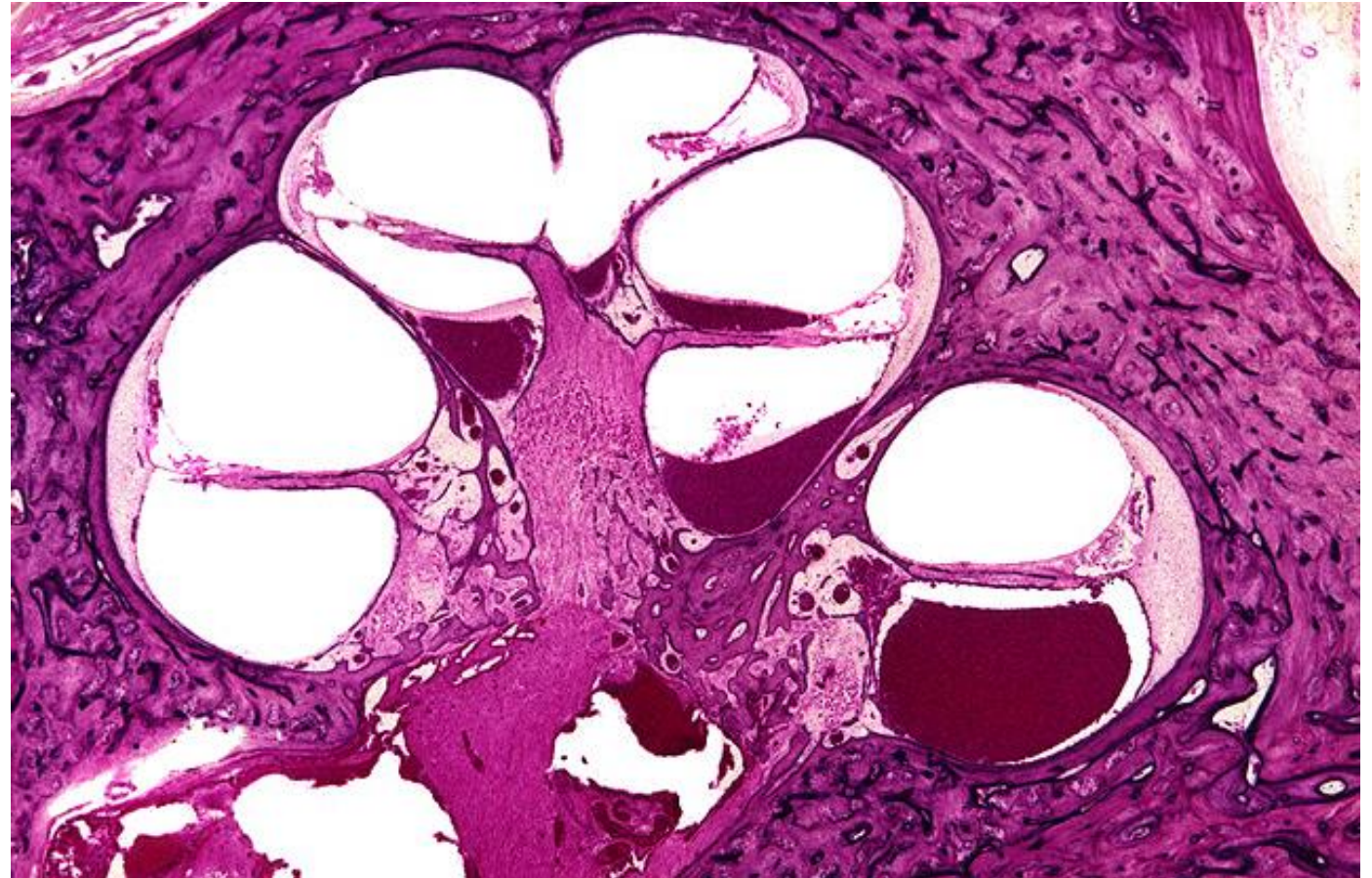
TB Case Number: 894

Gender: Male

Age (yrs.): 2

Otologic Diagnosis:

1. Subarachnoid hemorrhage, postoperative, severe
2. Hemolabyrinth, subarachnoid hemorrhage, severe, left
3. Artifact, postmortem, severe, bilateral



Subarachnoid Hemorrhage, L-314

Title: Subarachnoid Hemorrhage, L-314

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

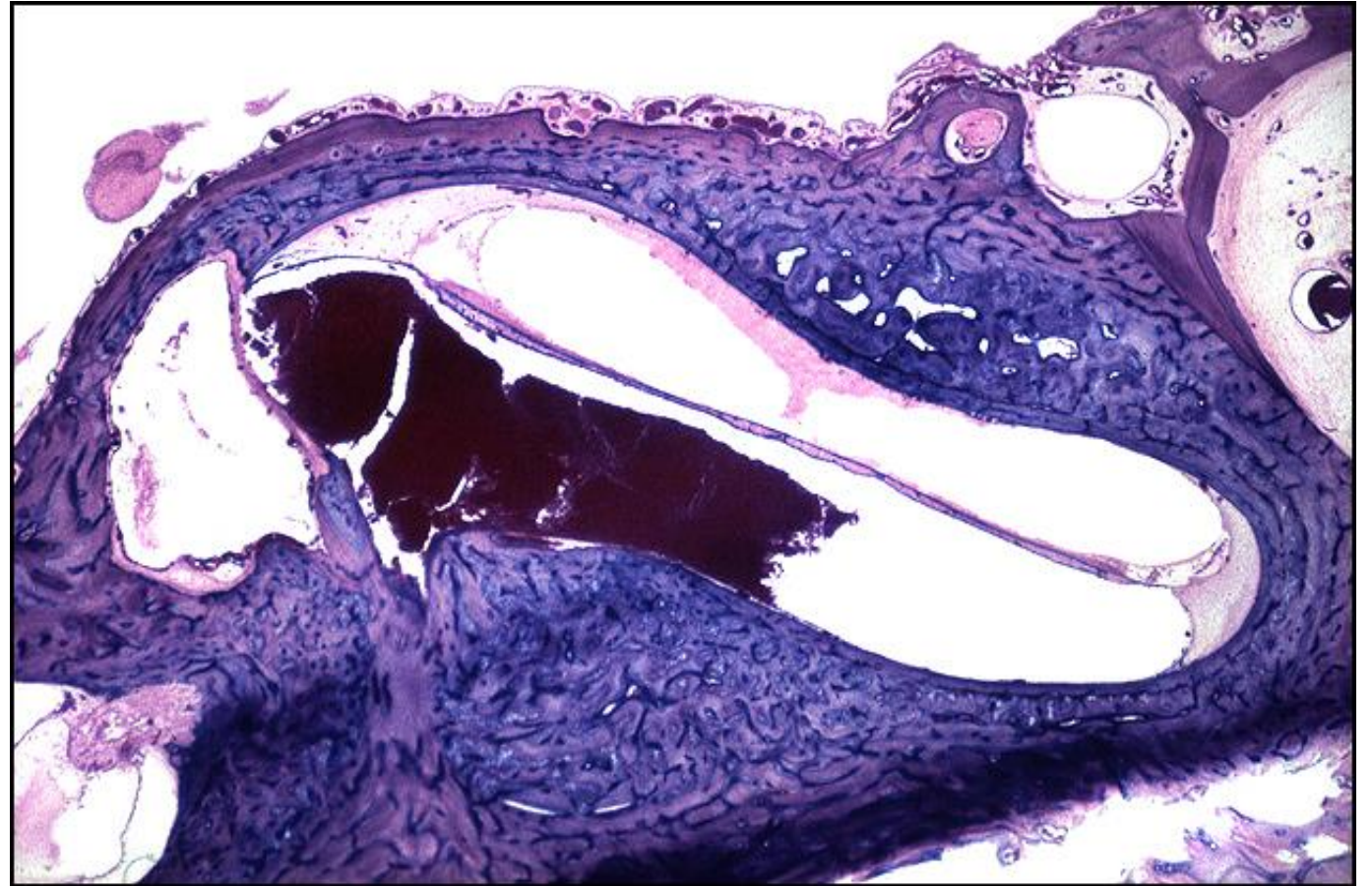
TB Case Number: 894

Gender: Male

Age (yrs.): 2

Otologic Diagnosis:

1. Subarachnoid hemorrhage, postoperative, severe
2. Hemolabyrinth, subarachnoid hemorrhage, severe, left
3. Artifact, postmortem, severe, bilateral



Subarachnoid Hemorrhage, R-501

Title: Subarachnoid Hemorrhage, R-501

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

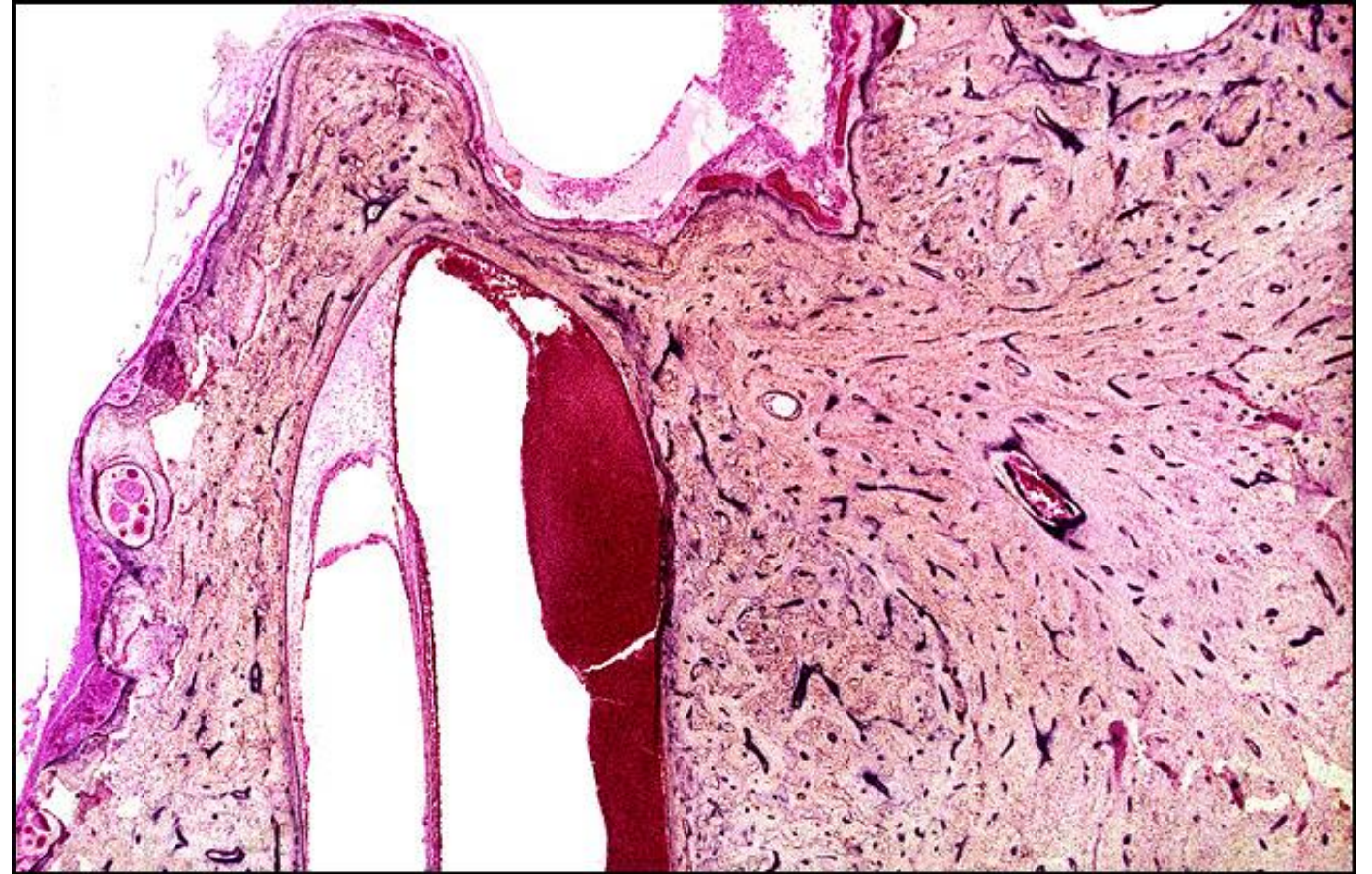
TB Case Number: 150

Gender: Male

Age (yrs.): 44

Otologic Diagnosis:

1. Hemorrhage, subarachnoid, internal auditory canal, bilateral
2. Hemolabyrinth, secondary to subarachnoid hemorrhage, scala tympani, turns 1 and 2, bilateral
3. Hemorrhages, middle ear, cause undetermined, bilateral
4. Meniere's disease, right



Subarachnoid Hemorrhage, R-280

Title: Subarachnoid Hemorrhage, R-280

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

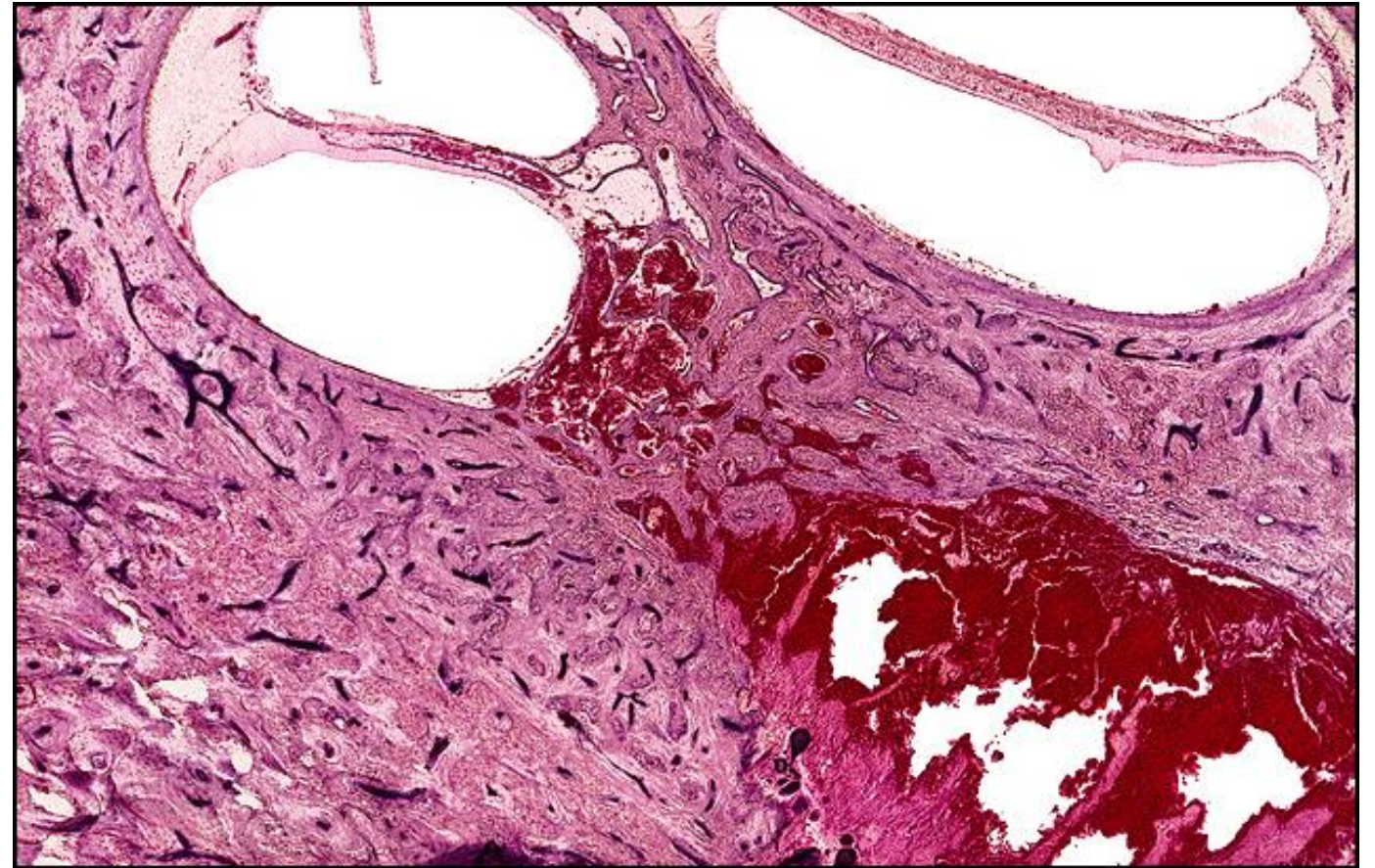
TB Case Number: 199

Gender: Female

Age (yrs.): 66

Otologic Diagnosis:

1. Subarachnoid hemorrhage, spontaneous, severe
2. Otitis media, suppurative, hemorrhagic, acute, right
3. Modiolus, hemorrhage, extravasation, subarachnoid, severe, right
4. Perilymph, acidophilic stain, proteinaceous, right



Subarachnoid Hemorrhage, R-191

Title: Subarachnoid Hemorrhage, R-191

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

TB Case Number: 199

Gender: Female

Age (yrs.): 66

Otologic Diagnosis:

1. Subarachnoid hemorrhage, spontaneous, severe
2. Otitis media, suppurative, hemorrhagic, acute, right
3. Modiolus, hemorrhage, extravasation, subarachnoid, severe, right
4. Perilymph, acidophilic stain, proteinaceous, right



Subarachnoid Hemorrhage, R-211

Title: Subarachnoid Hemorrhage, R-211

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

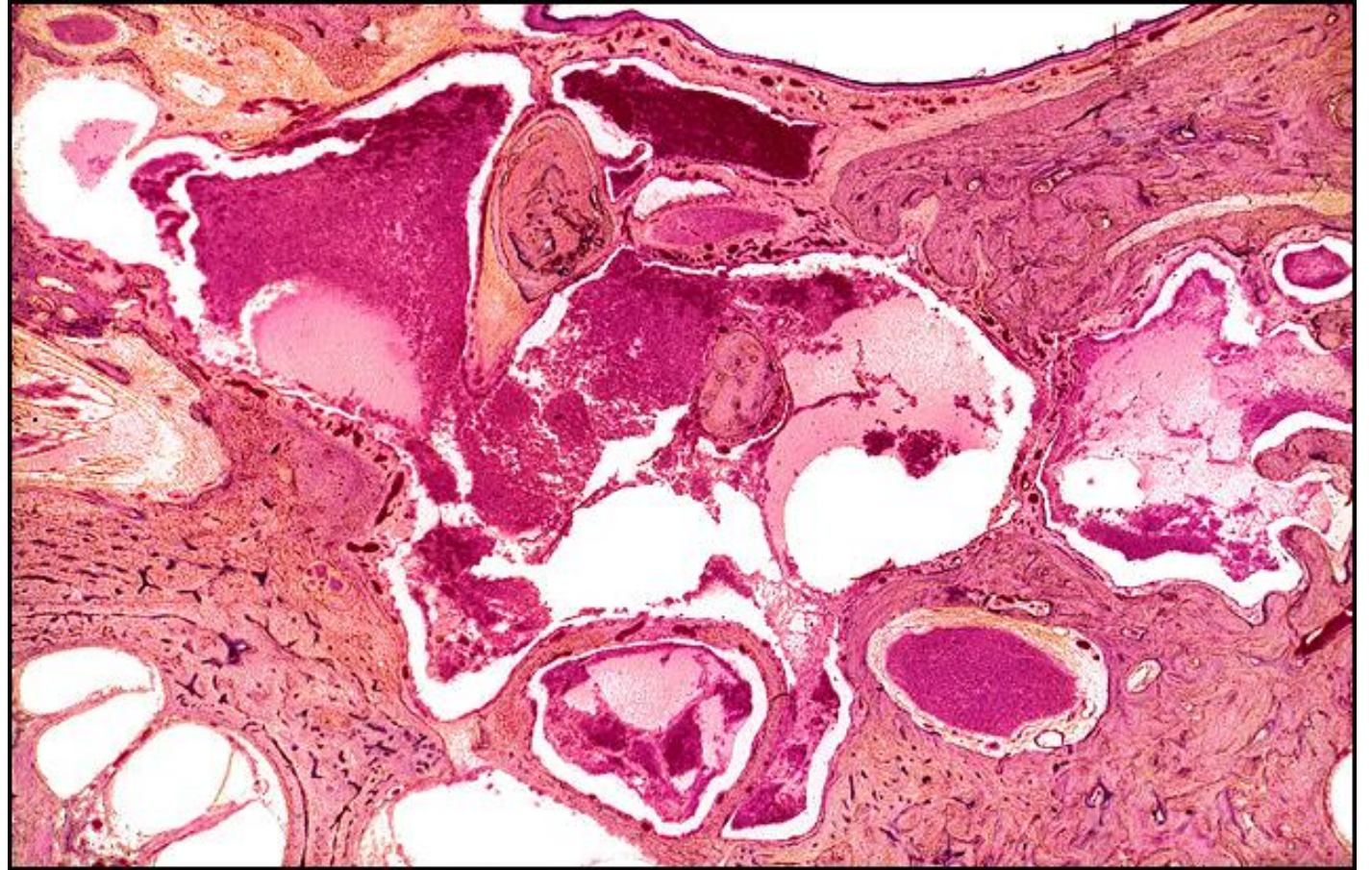
TB Case Number: 199

Gender: Female

Age (yrs.): 66

Otologic Diagnosis:

1. Subarachnoid hemorrhage, spontaneous, severe
2. Otitis media, suppurative, hemorrhagic, acute, right
3. Modiolus, hemorrhage, extravasation, subarachnoid, severe, right
4. Perilymph, acidophilic stain, proteinaceous, right



Subarachnoid Hemorrhage, L-452

Title: Subarachnoid Hemorrhage, L-452

Chapter: Vascular Disorders

Chapter Section: Hemorrhage

Hemotympanum Hemolabyrinth Subarachnoid

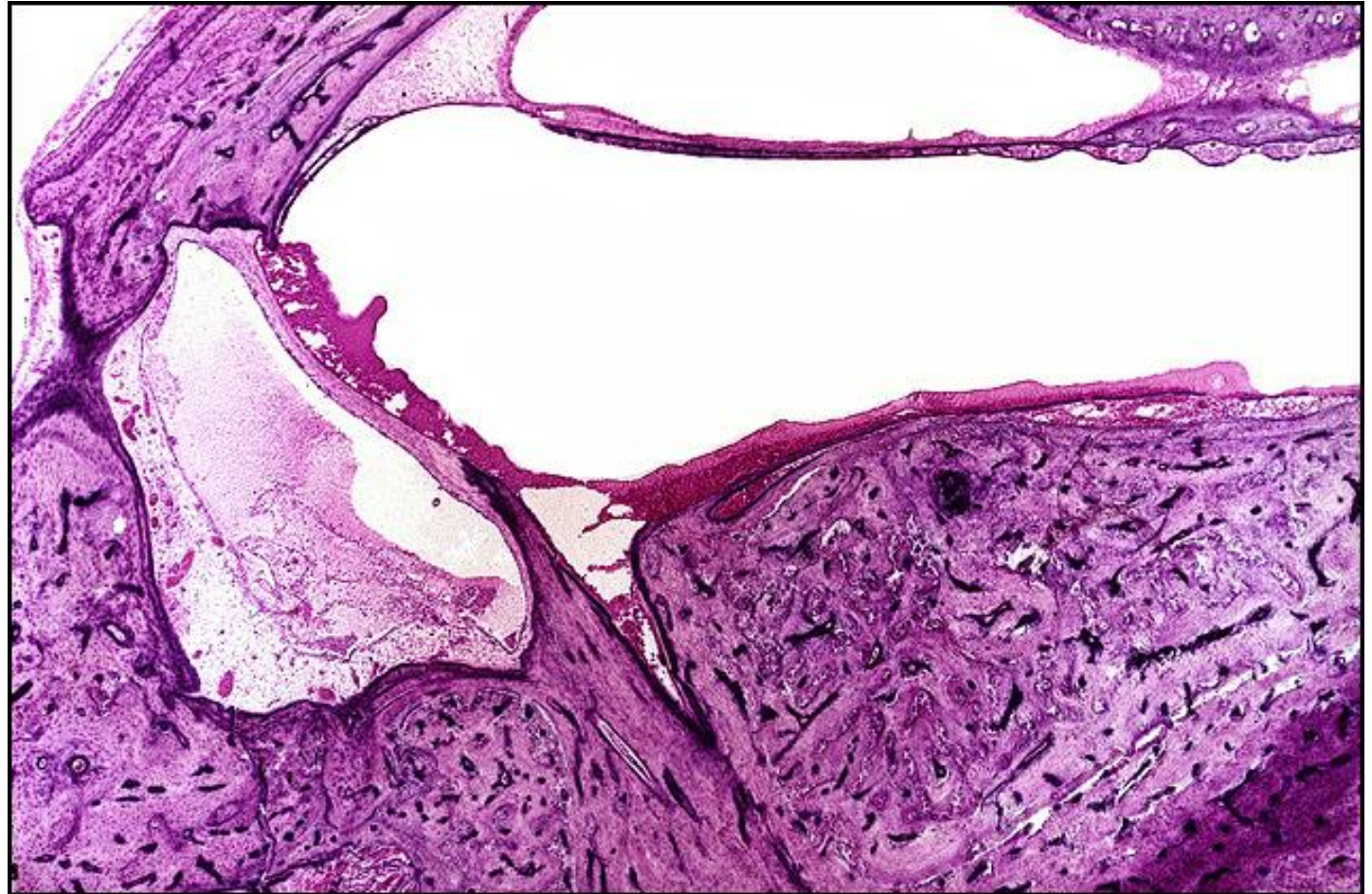
TB Case Number: 243

Gender: Male

Age (yrs.): 33

Otologic Diagnosis:

1. Hemorrhage, subarachnoid, spontaneous, severe, fatal
2. Hemorrhage, internal auditory canal, left
3. Hemolabyrinth, subarachnoid hemorrhage, mild, left
4. Hemorrhage; modiolus, spiral canal, maculae; subarachnoid; left



Subarachnoid Hemorrhage, L-321

Title: Subarachnoid Hemorrhage, L-321

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

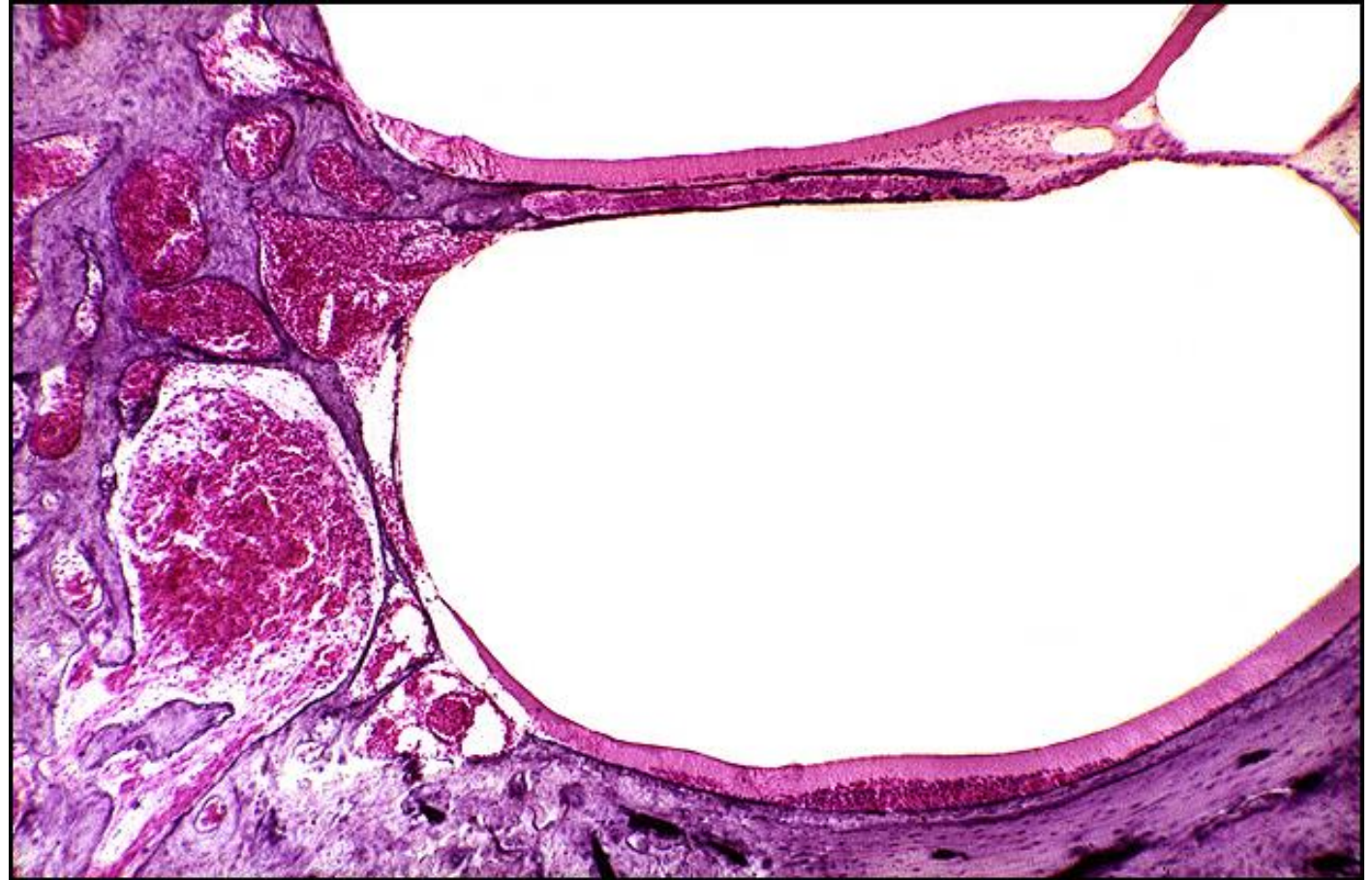
TB Case Number: 243

Gender: Male

Age (yrs.): 33

Otologic Diagnosis:

1. Hemorrhage, subarachnoid, spontaneous, severe, fatal
2. Hemorrhage, internal auditory canal, left
3. Hemolabyrinth, subarachnoid hemorrhage, mild, left
4. Hemorrhage; modiolus, spiral canal, maculae; subarachnoid; left



Subarachnoid Hemorrhage, L-332

Title: Subarachnoid Hemorrhage, L-332

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

TB Case Number: 243

Gender: Male

Age (yrs.): 33

Otologic Diagnosis:

1. Hemorrhage, subarachnoid, spontaneous, severe, fatal
2. Hemorrhage, internal auditory canal, left
3. Hemolabyrinth, subarachnoid hemorrhage, mild, left
4. Hemorrhage; modiolus, spiral canal, maculae; subarachnoid; left



Subarachnoid Hemorrhage, L-541

Title: Subarachnoid Hemorrhage, L-541

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

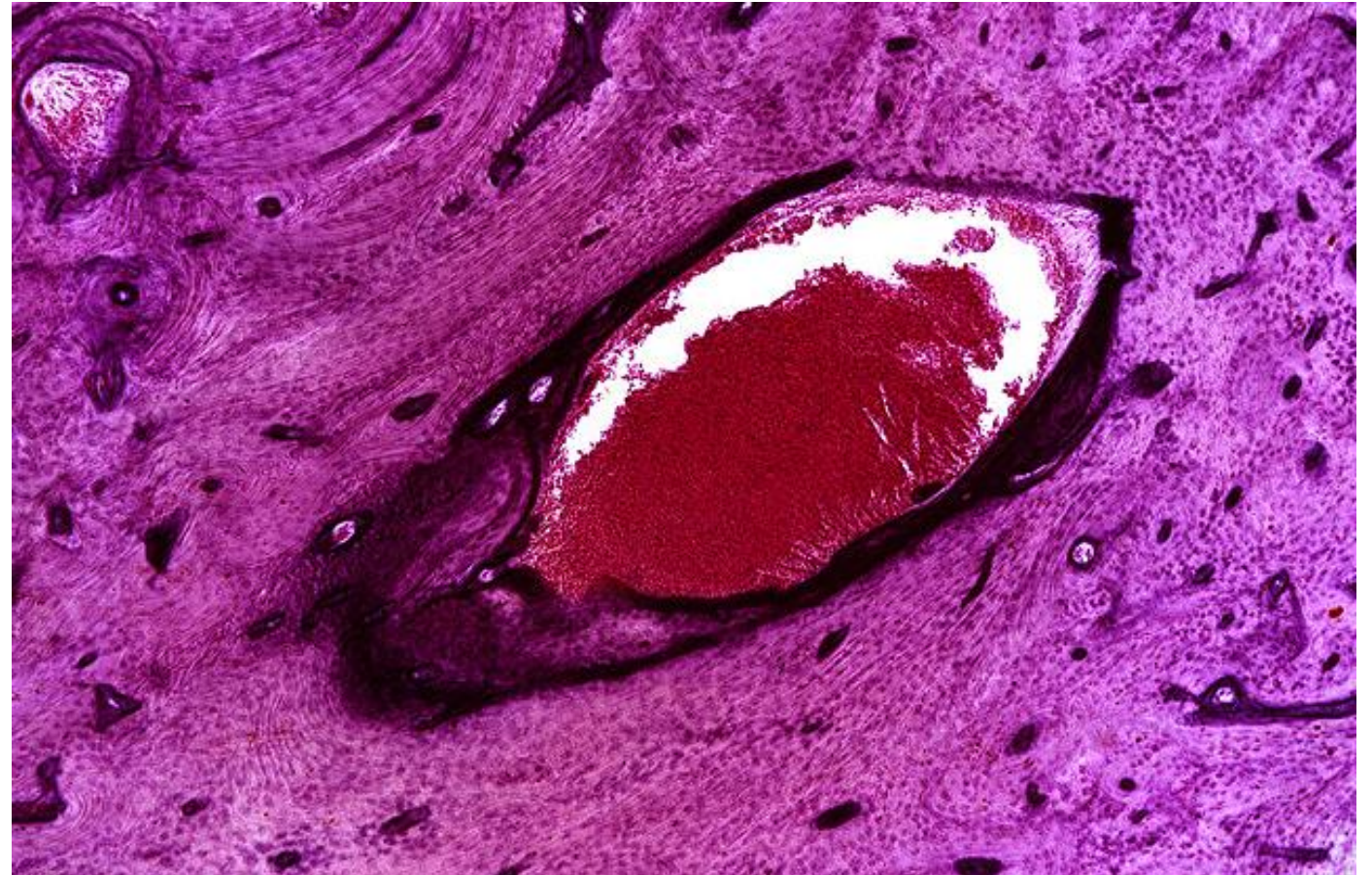
TB Case Number: 243

Gender: Male

Age (yrs.): 33

Otologic Diagnosis:

1. Hemorrhage, subarachnoid, spontaneous, severe, fatal
2. Hemorrhage, internal auditory canal, left
3. Hemolabyrinth, subarachnoid hemorrhage, mild, left
4. Hemorrhage; modiolus, spiral canal, maculae; subarachnoid; left



Subarachnoid Hemorrhage, R-271

Title: Subarachnoid Hemorrhage, R271

Chapter: Vascular Disorders

Chapter Section: Hemorrhage Hemotympanum
Hemolabyrinth Subarachnoid

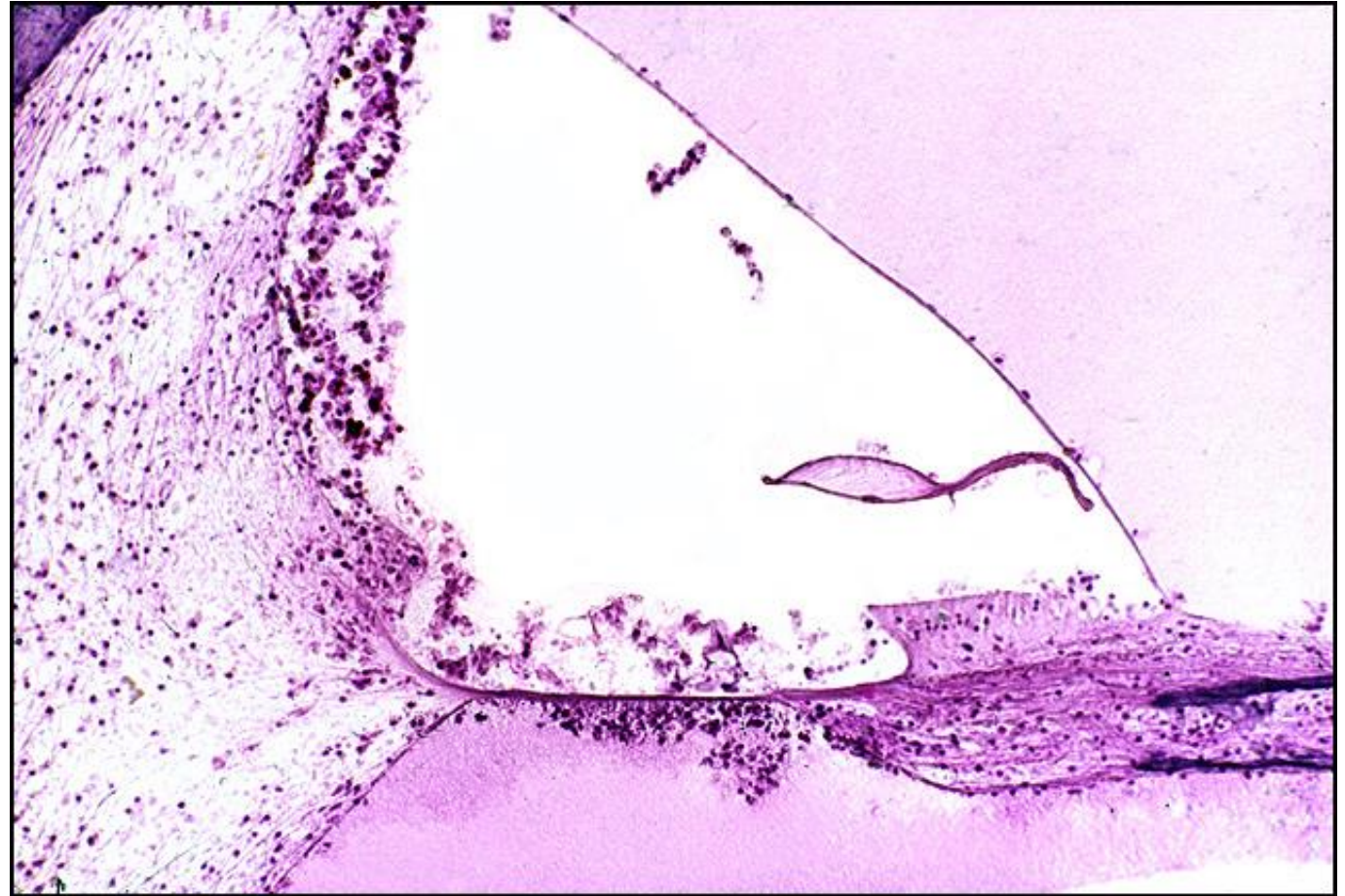
TB Case Number: 782

Gender: Female

Age (yrs.): 59

Otologic Diagnosis:

1. Otosclerosis with stapes fixation
2. Subarachnoid hemorrhage



Focal Capillary Hyperplasia, L-190

Title: Focal Capillary Hyperplasia, L-190

Chapter: Vascular Disorders

Chapter Section: Focal Capillary Hyperplasia

TB Case Number: 656

Gender: Female

Age (yrs.): 73

Otologic Diagnosis:

1. Otosclerosis with stapes fixation and partial round window obliteration, bilateral
2. Normal hair cell and neuronal populations, bilateral
3. Vascular proliferation, left Scarpa's ganglion



Focal Capillary Hyperplasia, L-190

Title: Focal Capillary Hyperplasia, L-190

Chapter: Vascular Disorders

Chapter Section: Focal Capillary Hyperplasia

TB Case Number: 656

Gender: Female

Age (yrs.): 73

Otologic Diagnosis:

1. Otosclerosis with stapes fixation and partial round window obliteration, bilateral
2. Normal hair cell and neuronal populations, bilateral
3. Vascular proliferation, left Scarpa's ganglion



Focal Capillary Hyperplasia, L-190

Title: Focal Capillary Hyperplasia, L-190

Chapter: Vascular Disorders

Chapter Section: Focal Capillary Hyperplasia

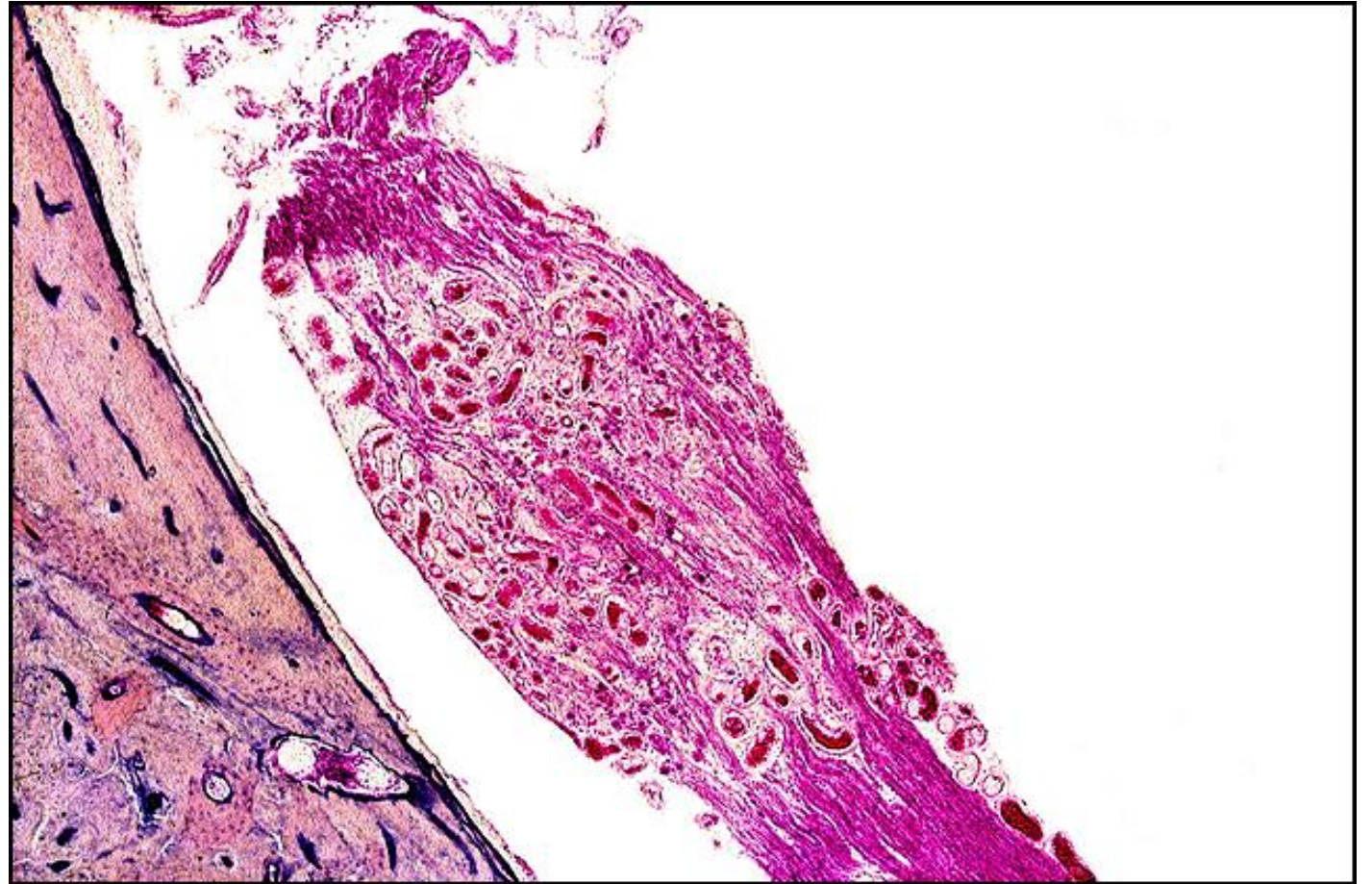
TB Case Number: 656

Gender: Female

Age (yrs.): 73

Otologic Diagnosis:

1. Otosclerosis with stapes fixation and partial round window obliteration, bilateral
2. Normal hair cell and neuronal populations, bilateral
3. Vascular proliferation, left Scarpa's ganglion



Infarction Basilar Artery, L-101

Title: Infarction Basilar Artery, L-101

Chapter: Vascular Disorders

Chapter Section: Vascular Stasis or Occlusion

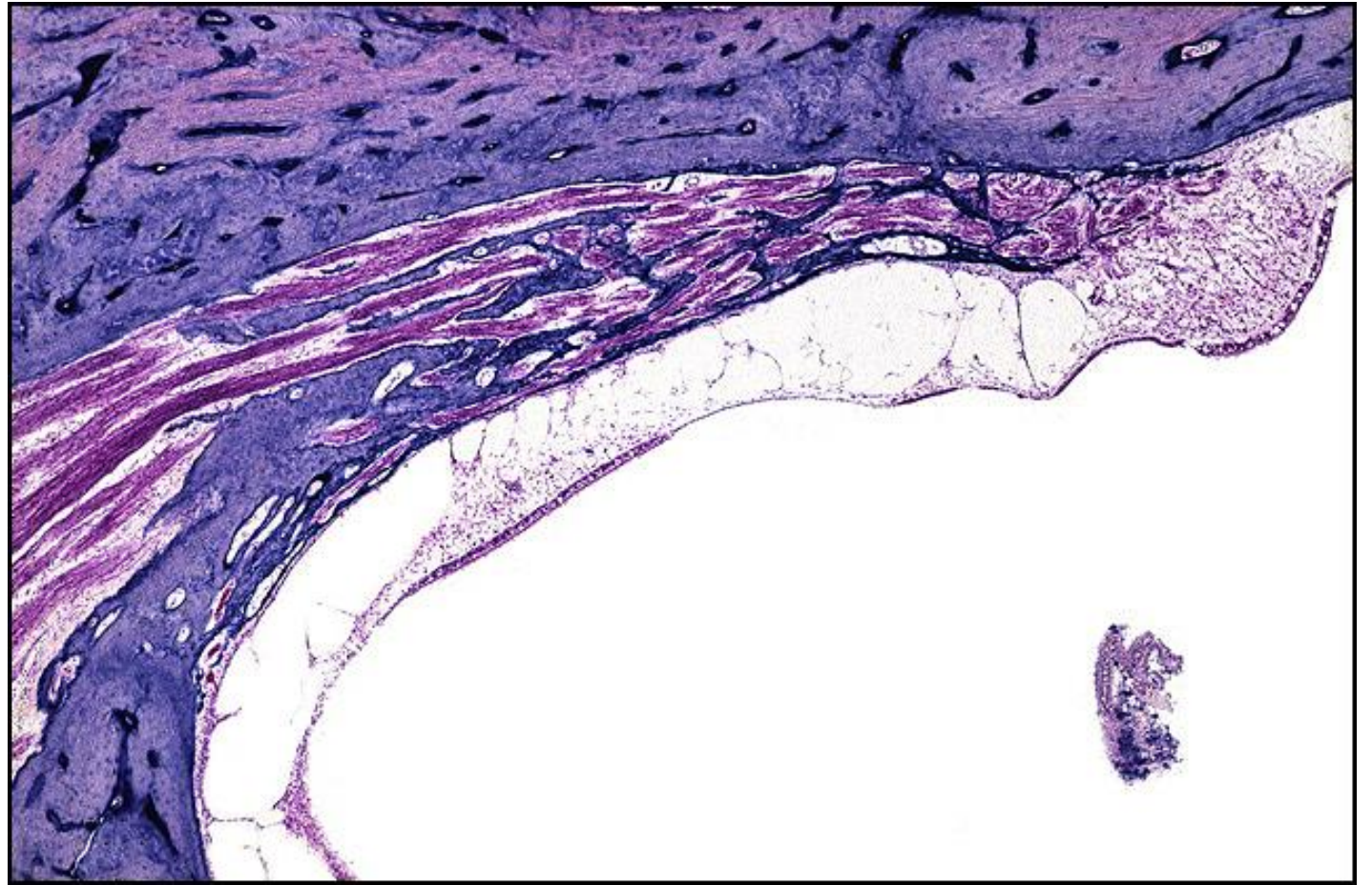
TB Case Number: 613

Gender: Male

Age (yrs.): 65

Otologic Diagnosis:

1. Membranous labyrinth, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries (Wallenberg's syndrome), right
2. Cranial nerves, VII and VIII, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries



Infarction Basilar Artery, R-81

Title: Infarction Basilar Artery, R-81

Chapter: Vascular Disorders

Chapter Section: Vascular Stasis or Occlusion

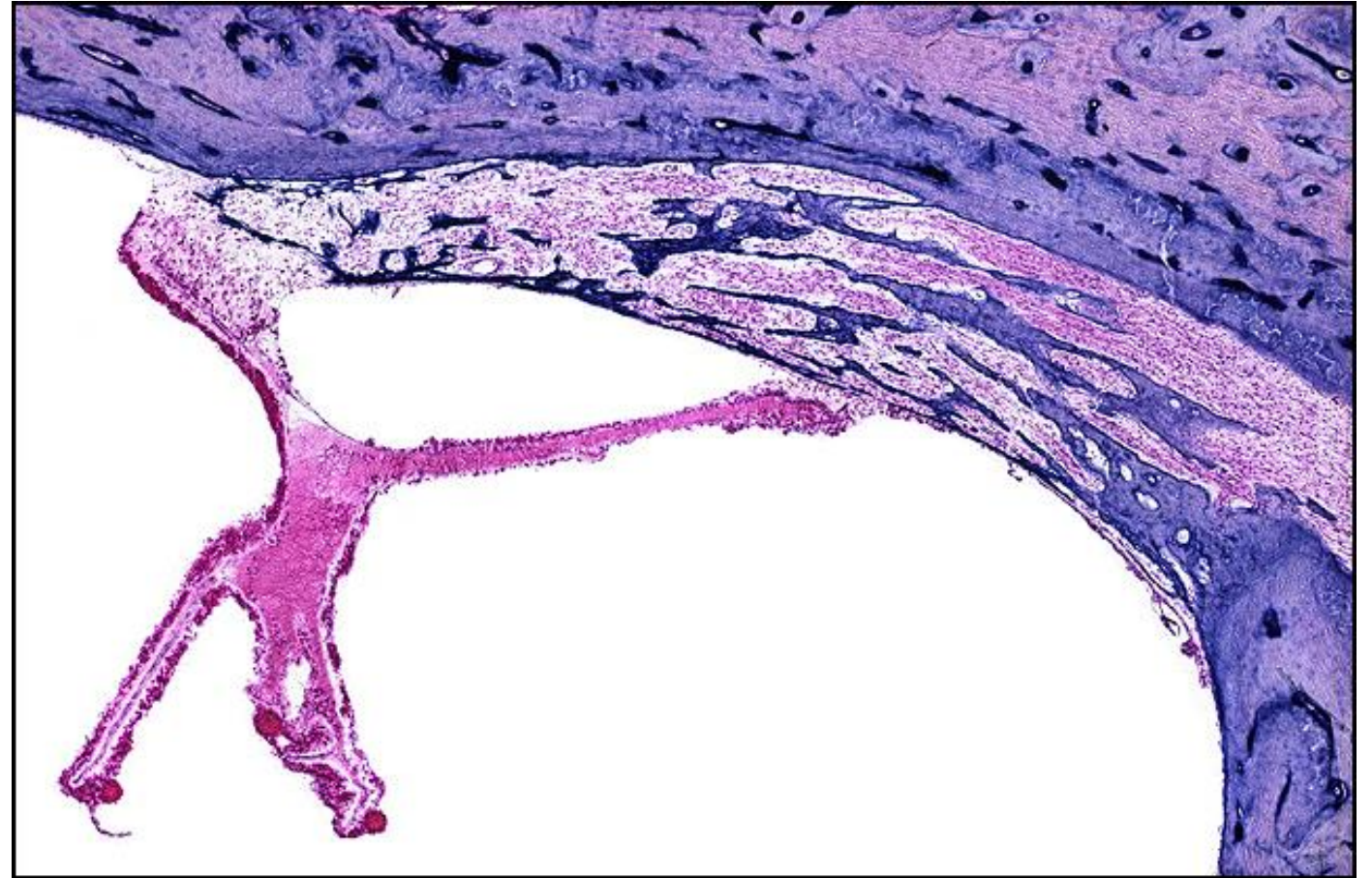
TB Case Number: 613

Gender: Male

Age (yrs.): 65

Otologic Diagnosis:

1. Membranous labyrinth, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries (Wallenberg's syndrome), right
2. Cranial nerves, VII and VIII, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries



Infarction Basilar Artery

Title: Infarction Basilar Artery

Chapter: Vascular Disorders

Chapter Section: Vascular Stasis or Occlusion

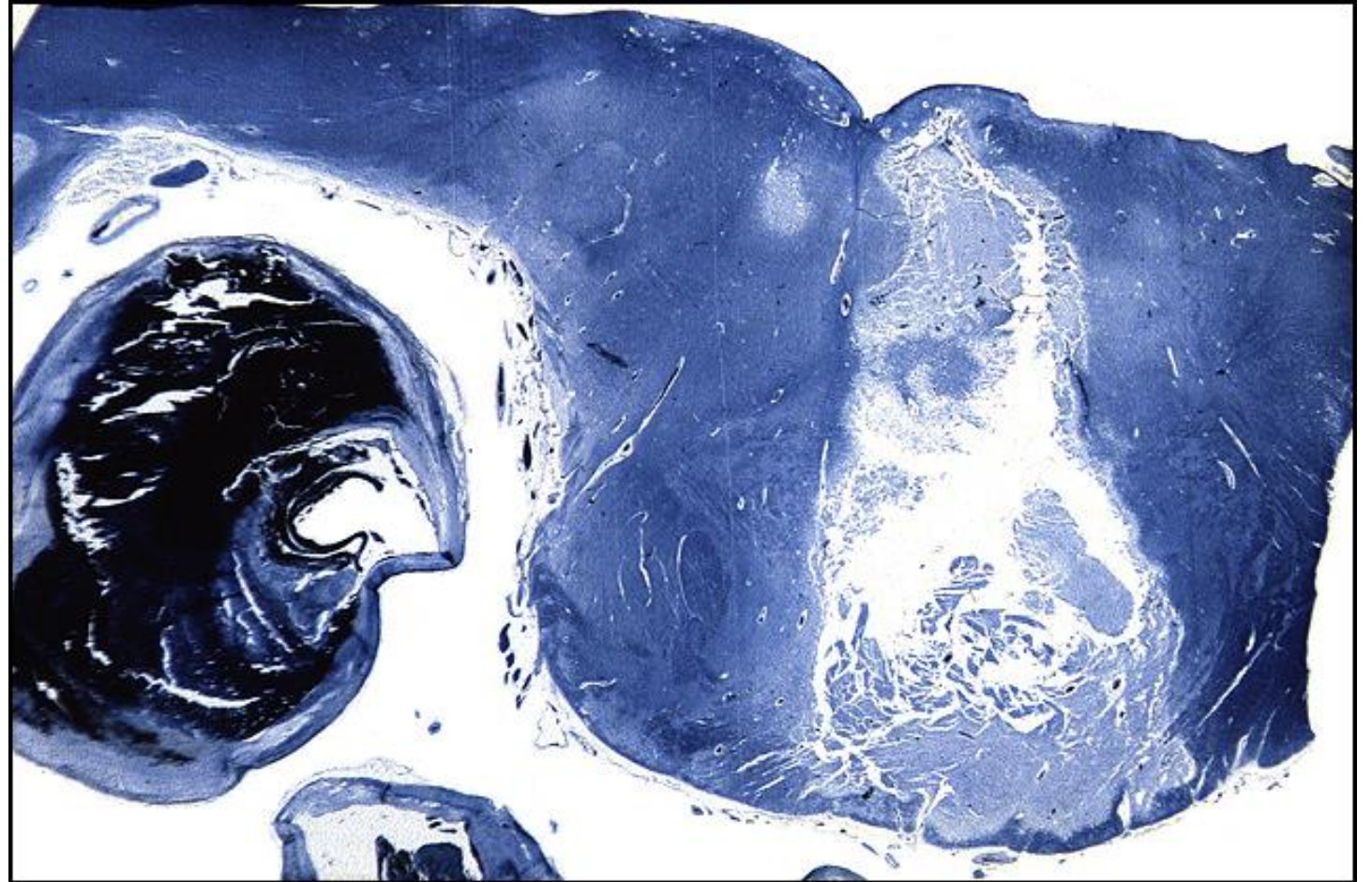
TB Case Number: 613

Gender: Male

Age (yrs.): 65

Otologic Diagnosis: 1. Membranous labyrinth, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries (Wallenberg's syndrome), right

2. Cranial nerves, VII and VIII, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries



Infarction Basilar Artery, L-211

Title: Infarction Basilar Artery, L-211

Chapter: Vascular Disorders

Chapter Section: Vascular Stasis or Occlusion

TB Case Number: 613

Gender: Male

Age (yrs.): 65

Otologic Diagnosis:

1. Membranous labyrinth, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries (Wallenberg's syndrome), right
2. Cranial nerves, VII and VIII, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries



Infarction Basilar Artery, R-211

Title: Infarction Basilar Artery, R-211

Chapter: Vascular Disorders

Chapter Section: Vascular Stasis or Occlusion

TB Case Number: 613

Gender: Male

Age (yrs.): 65

Otologic Diagnosis:

1. Membranous labyrinth, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries (Wallenberg's syndrome), right
2. Cranial nerves, VII and VIII, ischemic necrosis, secondary to atherosclerotic occlusion of the vertebral and basilar arteries



Carotid Atrophy, R-381.1

Title: Carotid Atrophy, R-381.1

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

TB Case Number: 1005

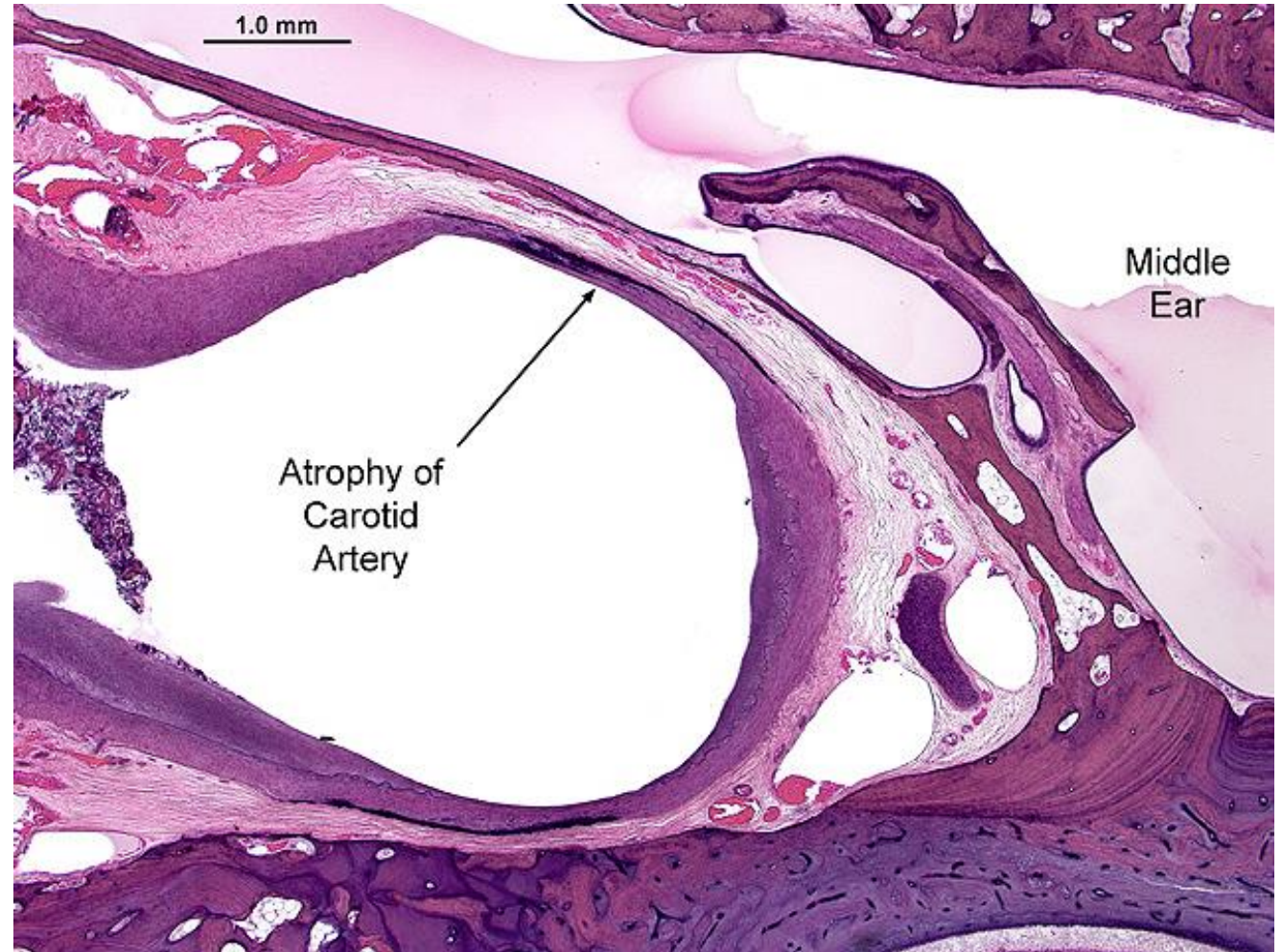
Comments: 92-year-old female with atrophy of
carotid canal and artery

Gender: Female

Age (yrs.): 92

Otologic Diagnosis:

Mixed hearing loss, both ears, predominantly
sensorineural, due to presbycusis



Carotid Artery Occlusion, L-497

Title: Carotid Artery Occlusion, L-497

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

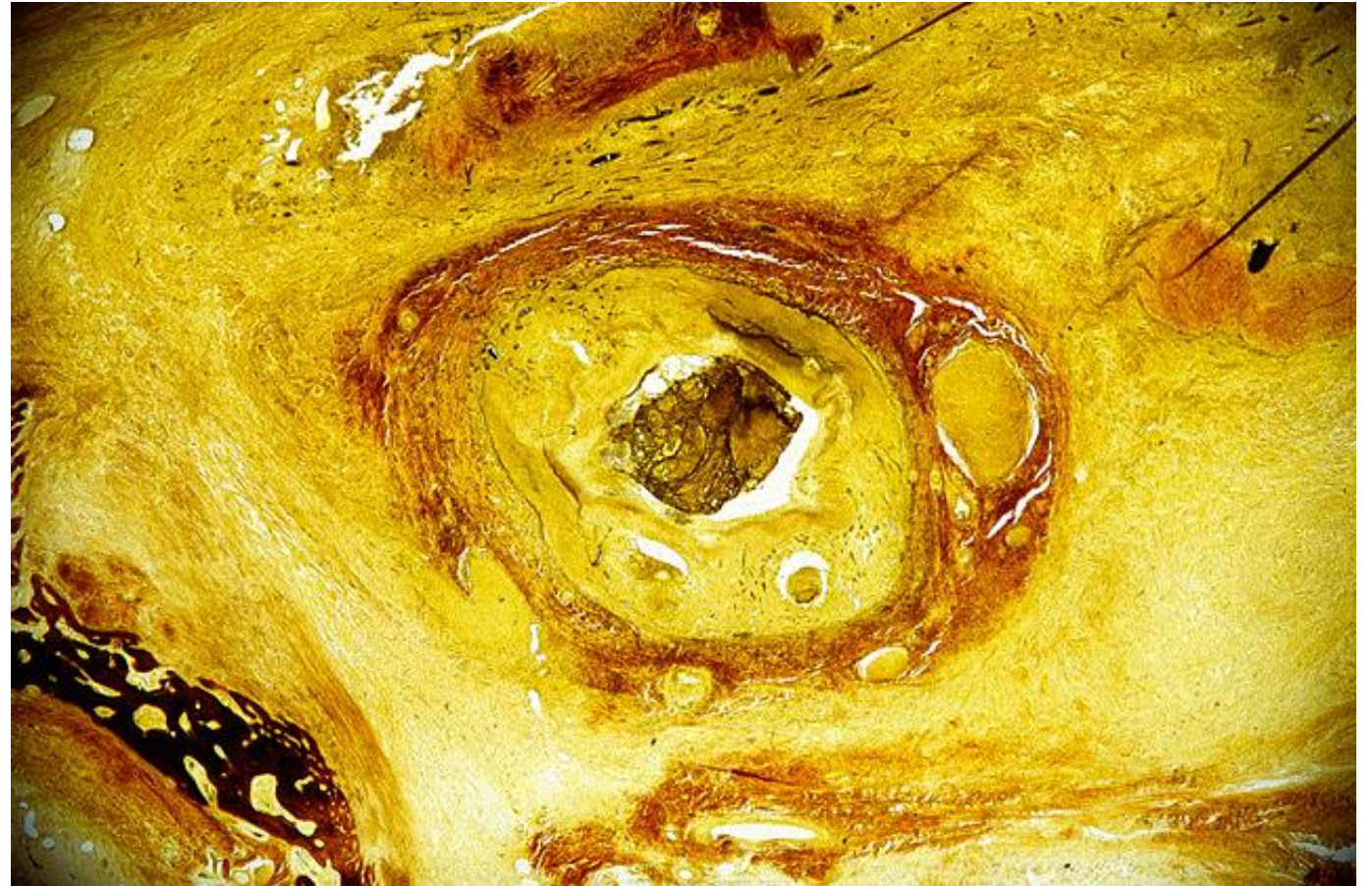
TB Case Number: 189

Gender: Male

Age (yrs.): 60

Otologic Diagnosis:

1. Diabetes mellitus
2. Osteitis, malignant, temporal bone, diabetic, left
3. Petrositis, chronic, suppurative, left
4. Otitis media, chronic, granulomatous, left
5. Internal carotid artery, occlusion, total, left
6. Mastoidectomy, radical, age 25, left



Carotid Artery Thrombosis, L-411

Title: Carotid Artery Thrombosis, L-411

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

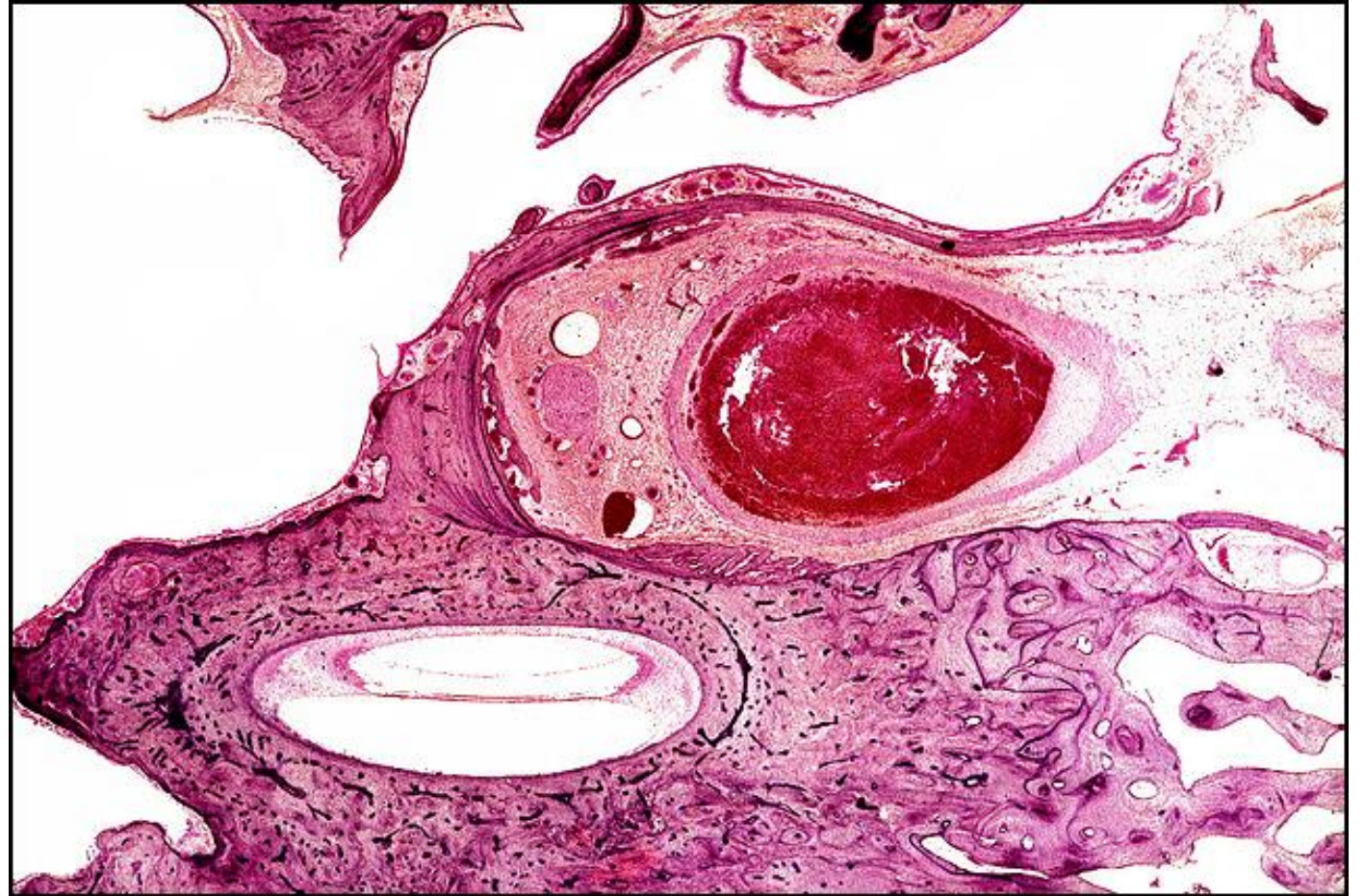
TB Case Number: 883

Gender: Female

Age (yrs.): 18

Otologic Diagnosis:

1. Dark cell swelling, ampullae, all semicircular canals, bilateral, medicamentosa (due to therapeutic drugs)
2. Neoosteogenesis, internal carotid canal, secondary to catheterization and infusions
3. Normal bony and membranous labyrinths



Carotid Artery Atrophy, R-291

Title: Carotid Artery Atrophy, R-291

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

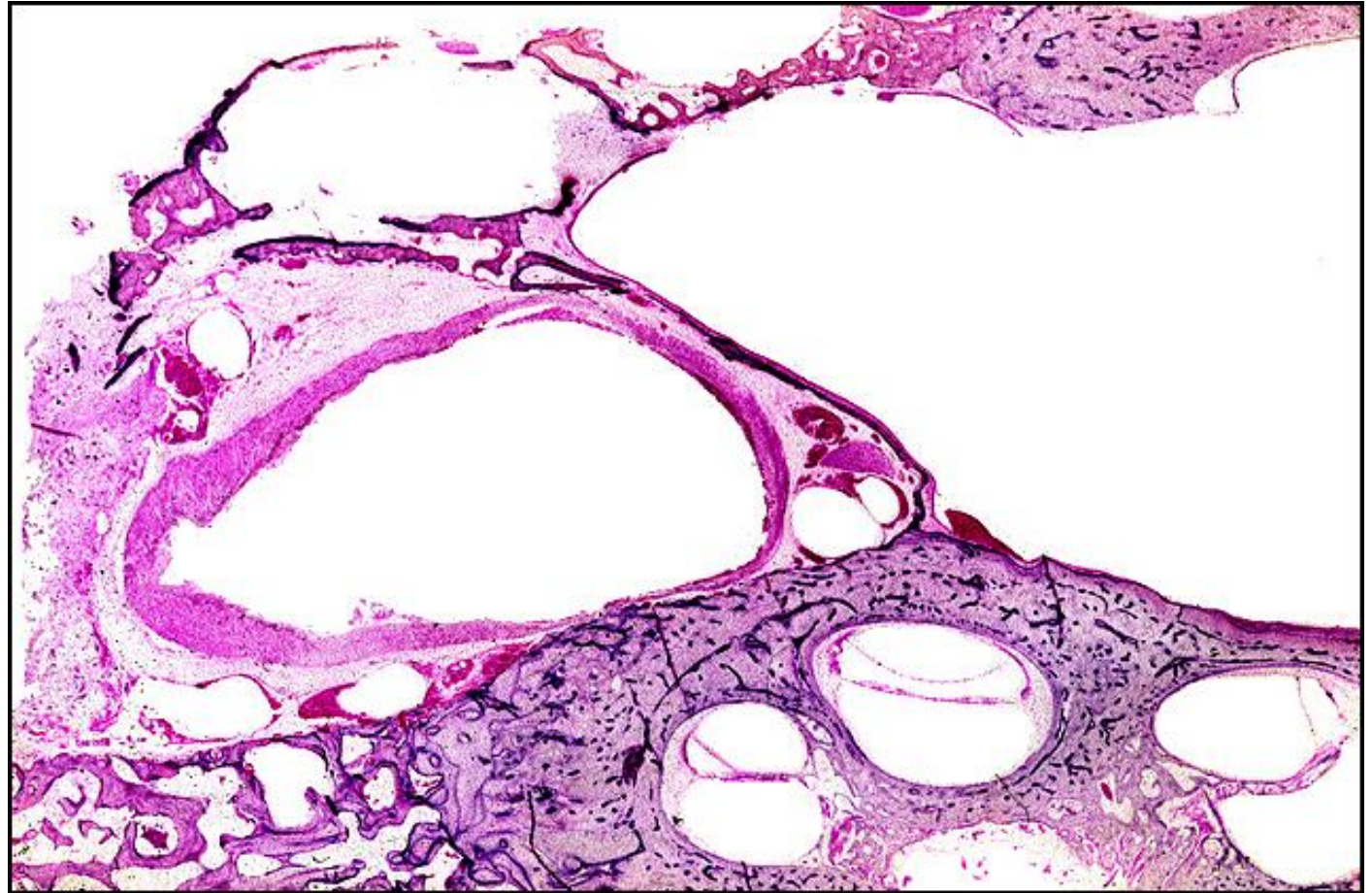
TB Case Number: 222

Gender: Female

Age (yrs.): 73

Otologic Diagnosis:

1. Presbycusis, combined, strial (42% loss) and cochlear conductive
2. Otosclerosis, without stapes fixation (histologic), left
3. Sclerosis, fibrocystic, tympanomastoid compartment, inactive, left
4. Epidermization, partial, tympanic cavity, left



Carotid Aneurysm, L-321

Title: Carotid Aneurysm, L-321

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

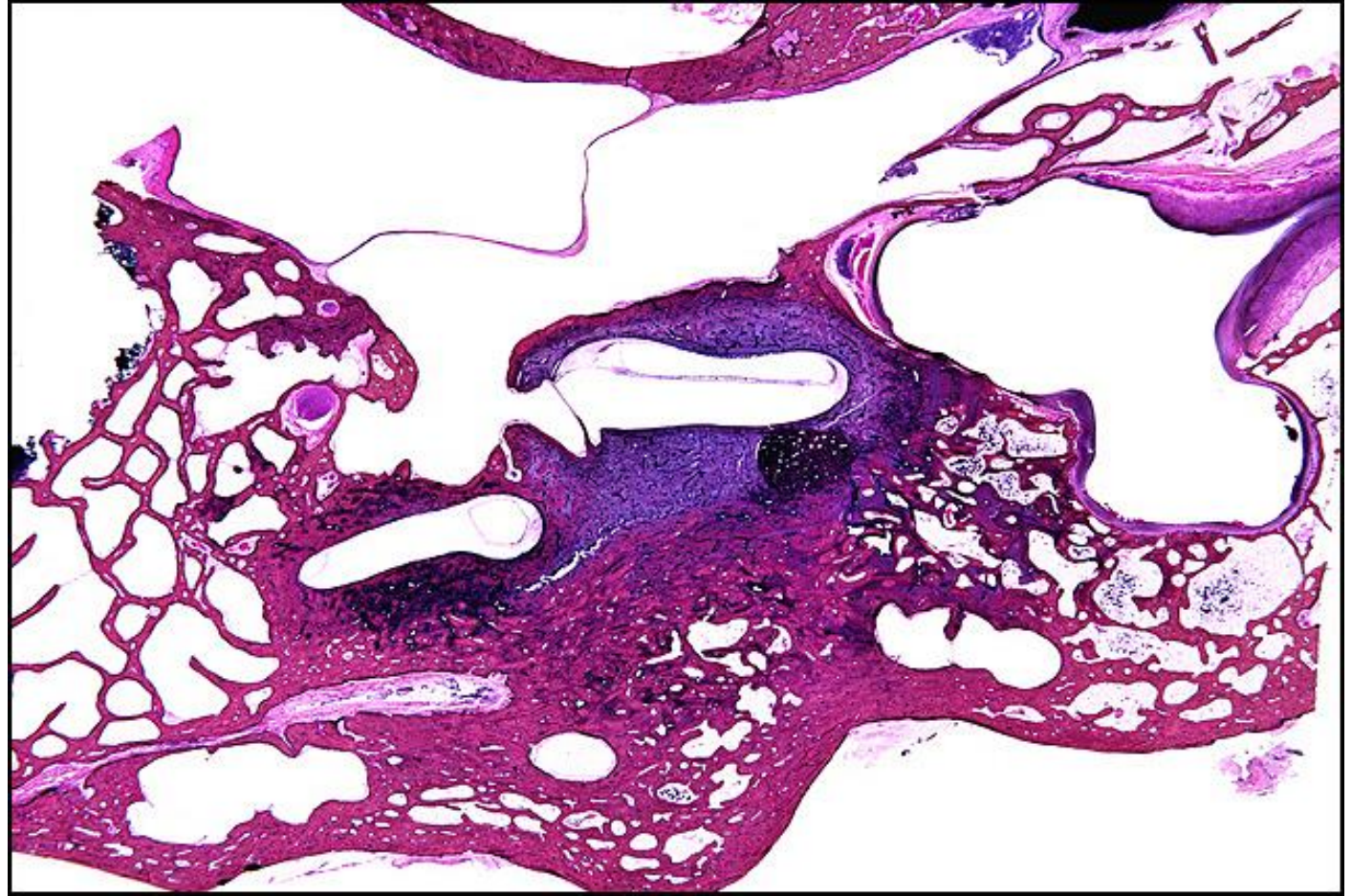
TB Case Number: 918

Gender: Female

Age (yrs.): 91

Otologic Diagnosis:

1. Otosclerosis, clinical, bilateral
2. Fenestration surgery for otosclerosis, right
3. Sudden idiopathic sensorineural hearing loss, right
4. Episodic vertigo, histopathologic correlate unknown
5. Chronic disequilibrium, presumed secondary to bilateral hair cell loss



Erosion Carotid Artery, L-250

Title: Erosion Carotid Artery, L-250

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

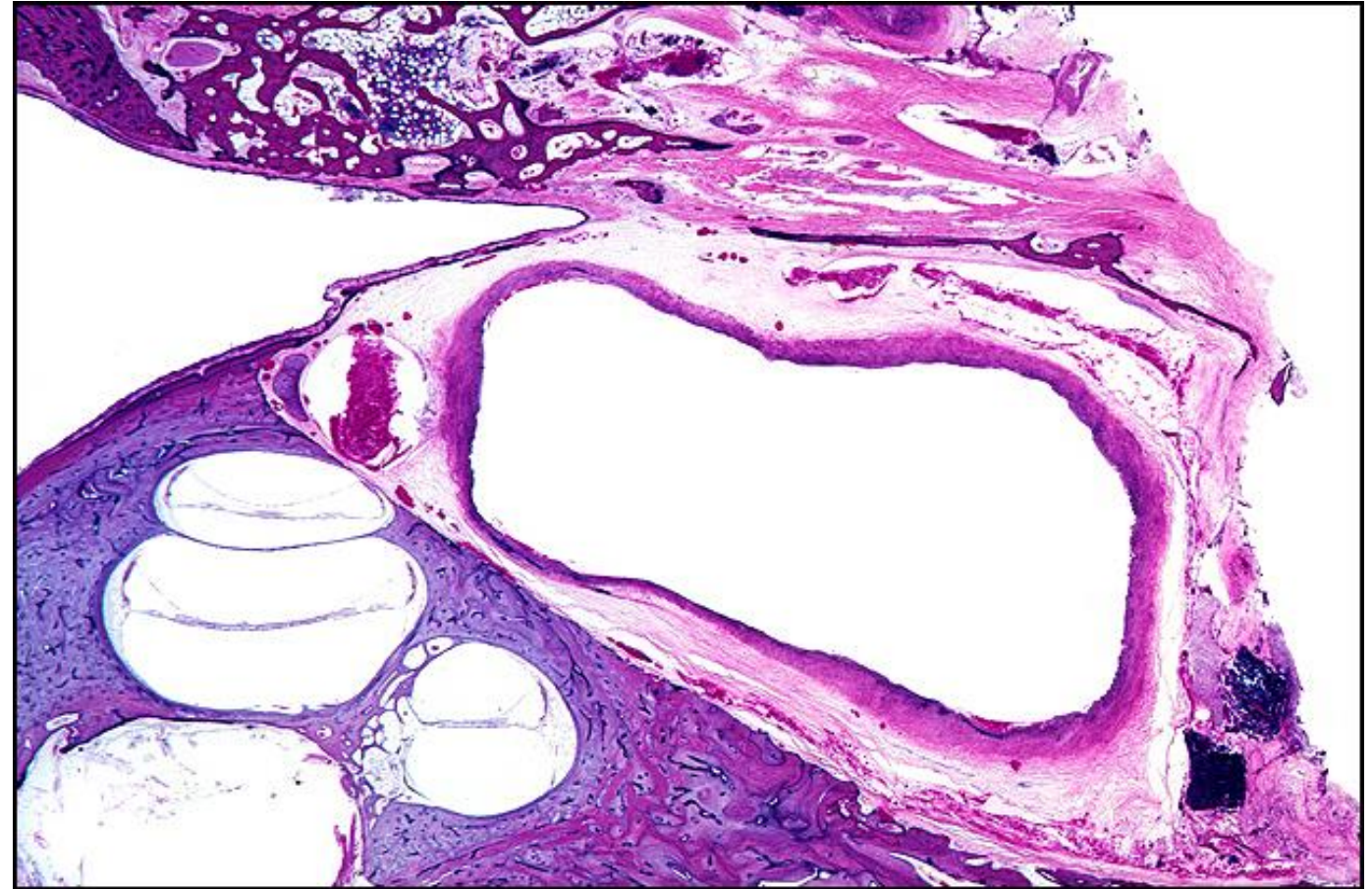
TB Case Number: 906

Gender: Female

Age (yrs.): 97

Otologic Diagnosis:

1. Cochlea, degeneration, middle and apical turns, severe, idiopathic, right
2. Presbycusis, left
3. Carotid canal, dehiscence, medial cochlear wall, left
4. Acute otitis media, bilateral
5. Geniculate ganglion, anatomical variant, bilateral



Erosion Carotid Artery, L-250

Title: Erosion Carotid Artery, L-250

Chapter: Vascular Disorders

Chapter Section: Carotid Artery Atherosclerosis
Atrophy Occlusion

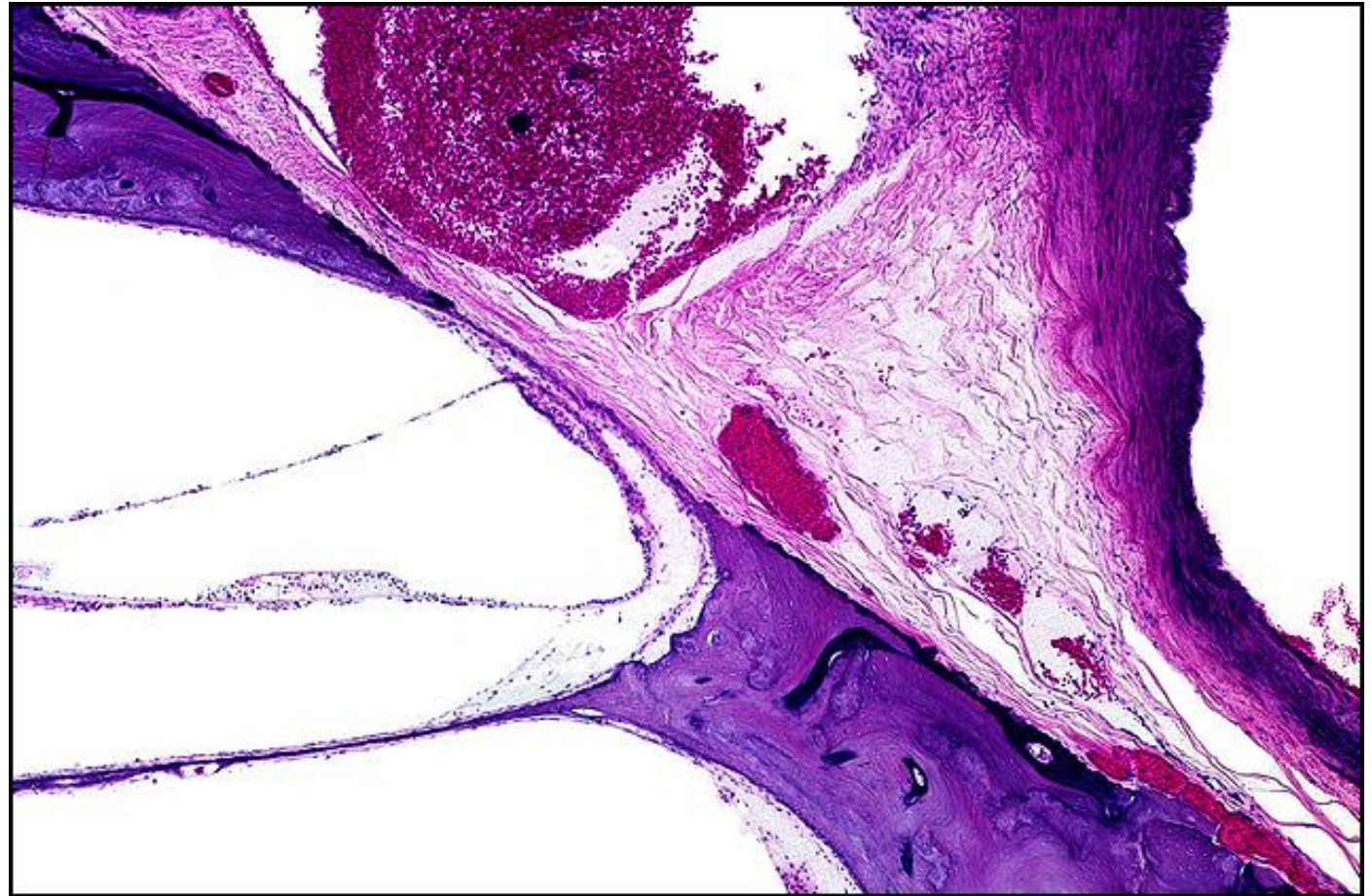
TB Case Number: 902

Gender: Female

Age (yrs.): 97

Otologic Diagnosis:

1. Cochlea, degeneration, middle and apical turns, severe, idiopathic, right
2. Presbycusis, left
3. Carotid canal, dehiscence, medial cochlear wall, left
4. Acute otitis media, bilateral
5. Geniculate ganglion, anatomical variant, bilateral



Inner Ear Hemorrhage

Title: Inner Ear Hemorrhage

Chapter: Vascular Disorders

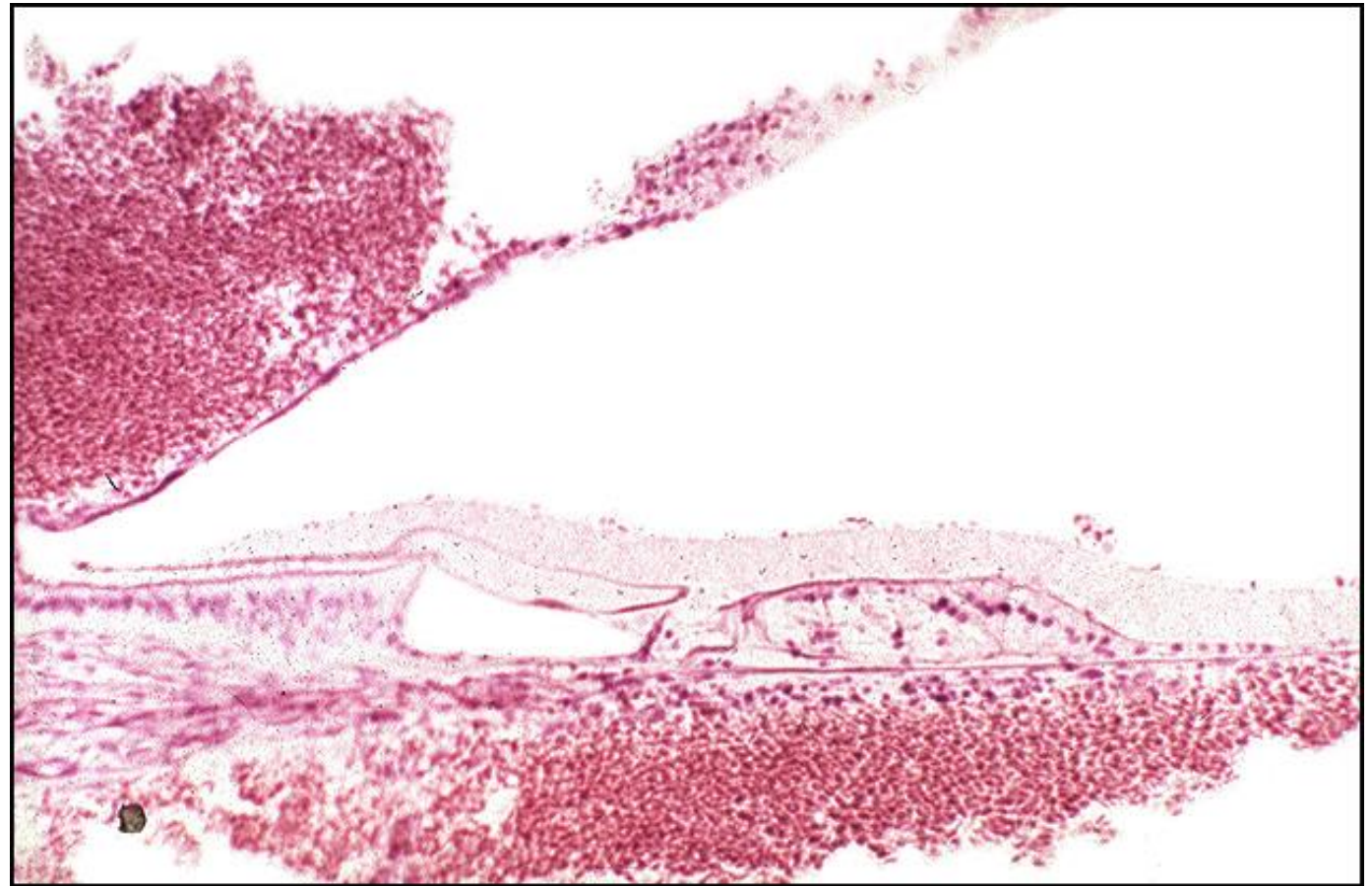
TB Case Number: 606

Gender: Female

Age(yrs.): 11

Otologic Diagnosis:

1. Leukemia, temporal bones, manifested by leukemic infiltrates of bone marrow of petrous apices and submucosal infiltrates
2. Sudden deafness and vertigo due to hemorrhage, perilymphatic space, right ear, complicating leukemia
3. Bilateral chronic serous otitis with leukemic hemorrhages



Subarachnoid Hemorrhage, R-141

Title: Subarachnoid Hemorrhage, R-141

Chapter: Vascular Disorders

Chapter Section: Hemorrhage, No Blood in Middle Ear, Subarachnoid Hemorrhage

TB Case Number: 449

Gender: Female

Age (yrs.): 77

Otologic Diagnosis:

1. Stria vascularis, atrophy, bilateral
2. Subarachnoid hemorrhage, left
3. Pacchionian bodies, left



Ideoplastic Thrombocytopenic Purpura, R-241

Title: Ideoplastic Thrombocytopenic Purpura, R-241

Chapter: Vascular Disorders

Chapter Section: Hemorrhage, No Blood in Middle Ear, Subarachnoid Hemorrhage

TB Case Number: 893

Gender: Male

Age (yrs.): 35

Otologic Diagnosis:

1. Thrombocytopenic purpura
2. Cochleosaccular degeneration, early childhood, cause unknown, bilateral



Erosion Artery, L-250

Title: Erosion Artery, L-250

Chapter: Vascular Disorders

Chapter Section: Carotid Artery, Disorders of Major Vessels, Vascular Stasis or Occlusion

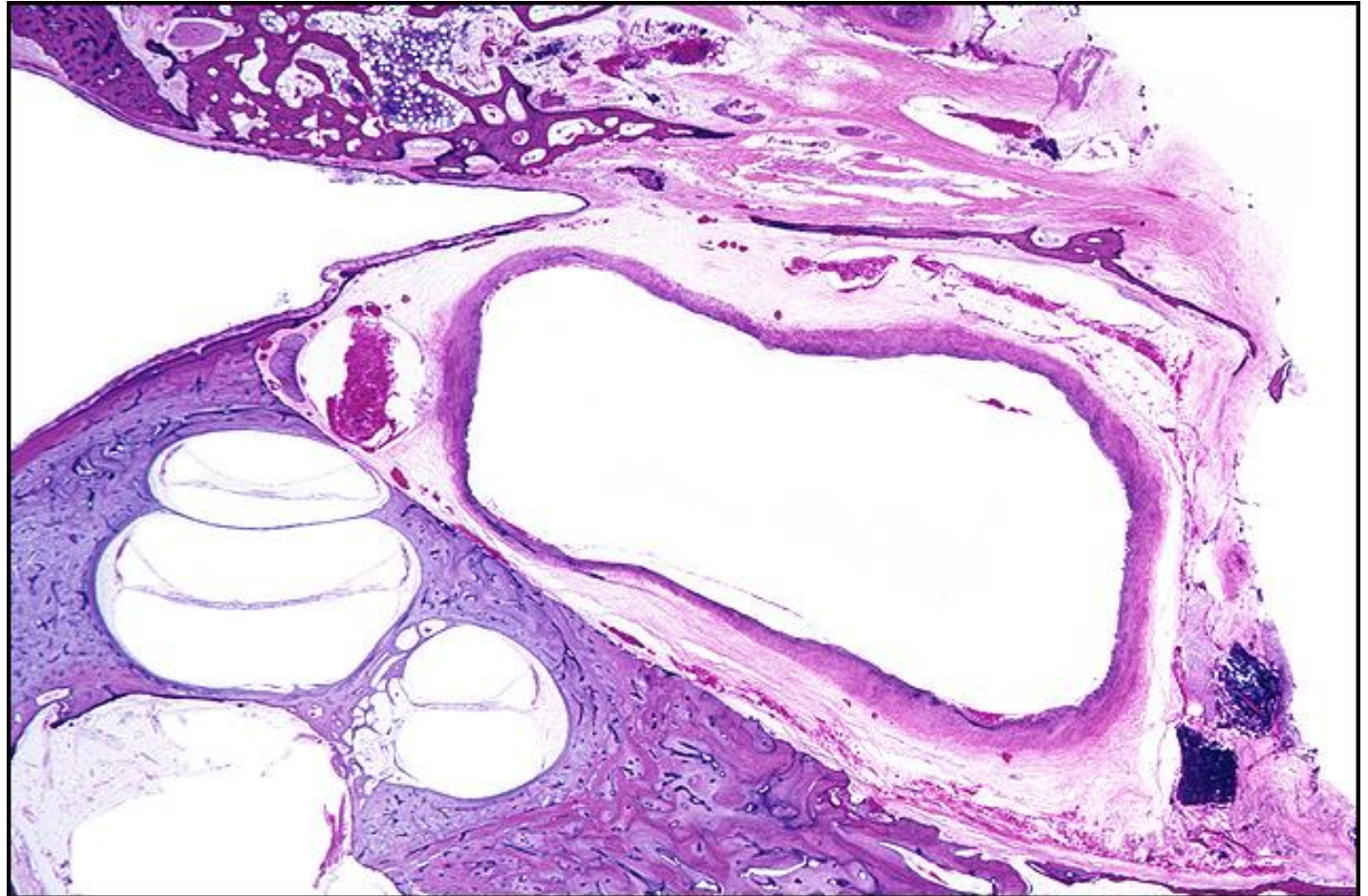
TB Case Number: 906

Gender: Female

Age (yrs.): 97

Otologic Diagnosis:

1. Cochlea, degeneration, middle and apical turns, severe, idiopathic, right
2. Presbycusis, left
3. Carotid canal, dehiscence, medial cochlear wall, left
4. Acute otitis media, bilateral
5. Geniculate ganglion, anatomical variant, bilateral
6. Artifact, removal, right



Erosion Artery, L-250

Title: Erosion Artery, L-250

Chapter: Vascular Disorders

Chapter Section: Carotid Artery, Disorders of Major Vessels, Vascular Stasis or Occlusion

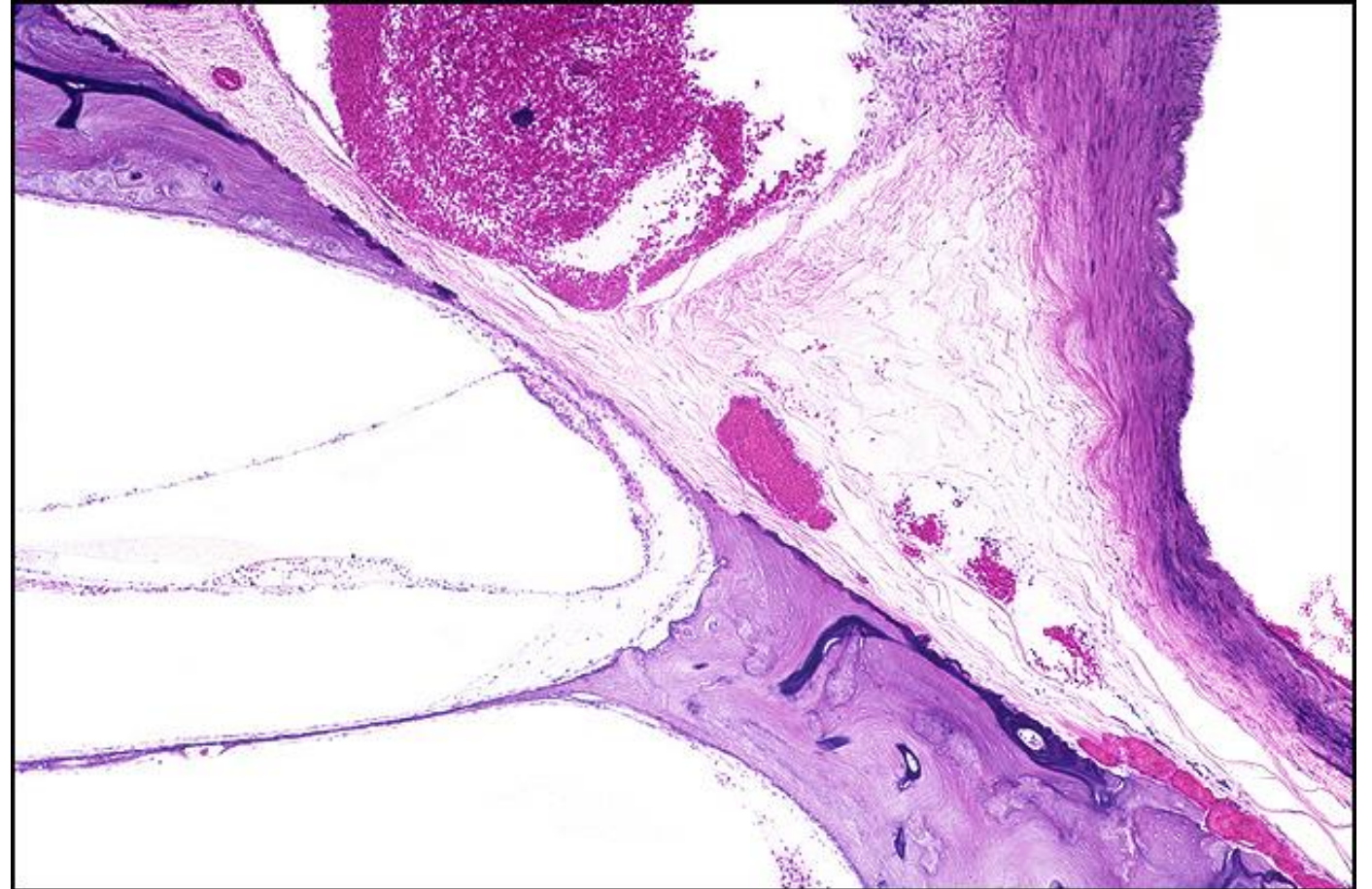
TB Case Number: 906

Gender: Female

Age (yrs.): 97

Otologic Diagnosis:

1. Cochlea, degeneration, middle and apical turns, severe, idiopathic, right
2. Presbycusis, left
3. Carotid canal, dehiscence, medial cochlear wall, left
4. Acute otitis media, bilateral
5. Geniculate ganglion, anatomical variant, bilateral
6. Artifact, removal, right



Focal Capillary Hyperplasia

Title: Focal Capillary Hyperplasia

Chapter: Vascular Disorders

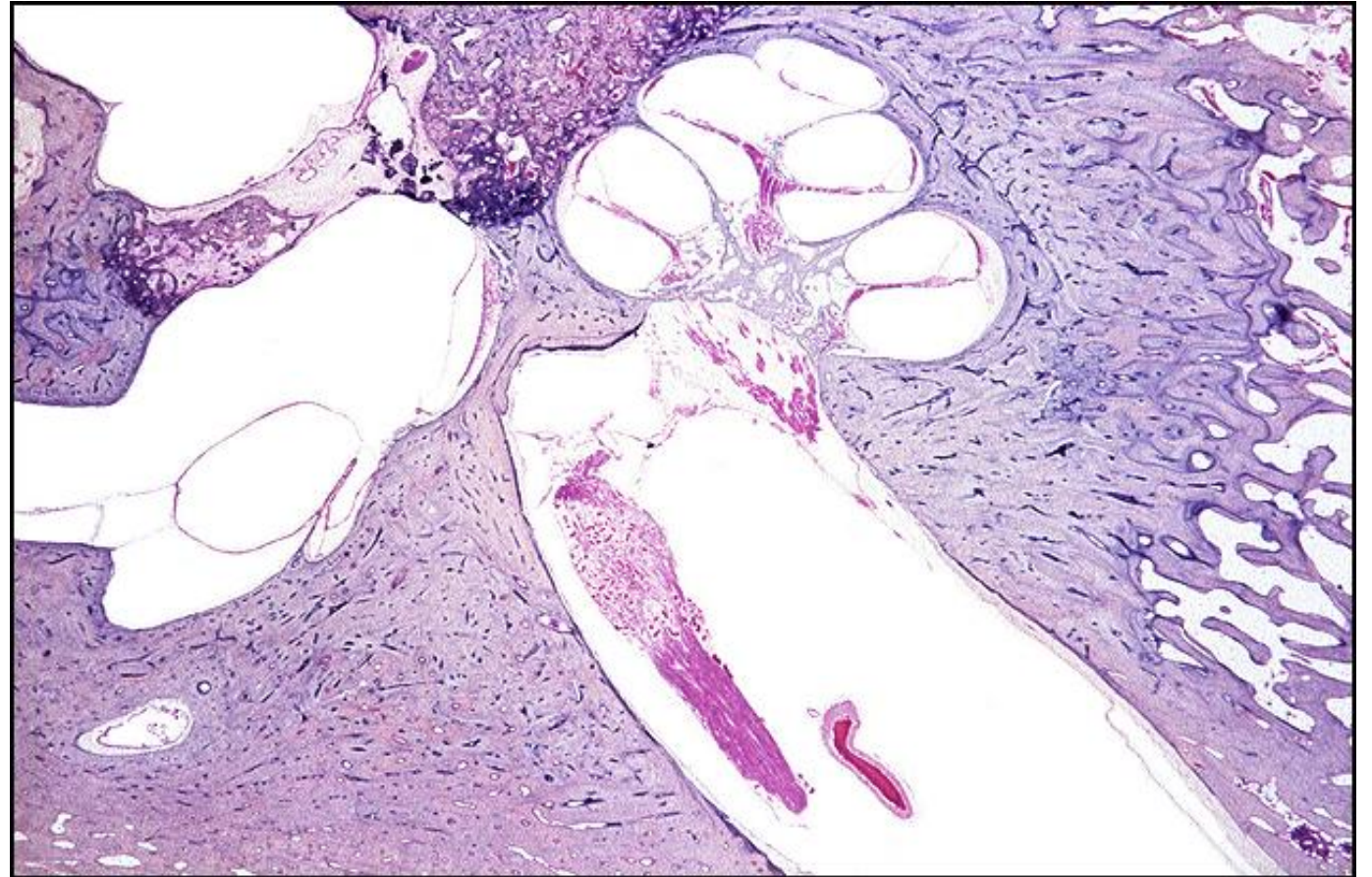
TB Case Number: 656

Gender: Female

Age(yrs.): 72

Otologic Diagnosis:

1. Otosclerosis with stapes fixation and partial round window obliteration, bilateral
2. Normal hair cell and neuronal populations, bilateral
3. Vascular proliferation, left Scarpa's ganglion



Focal Capillary Hyperplasia

Title: Focal Capillary Hyperplasia

Chapter: Vascular Disorders

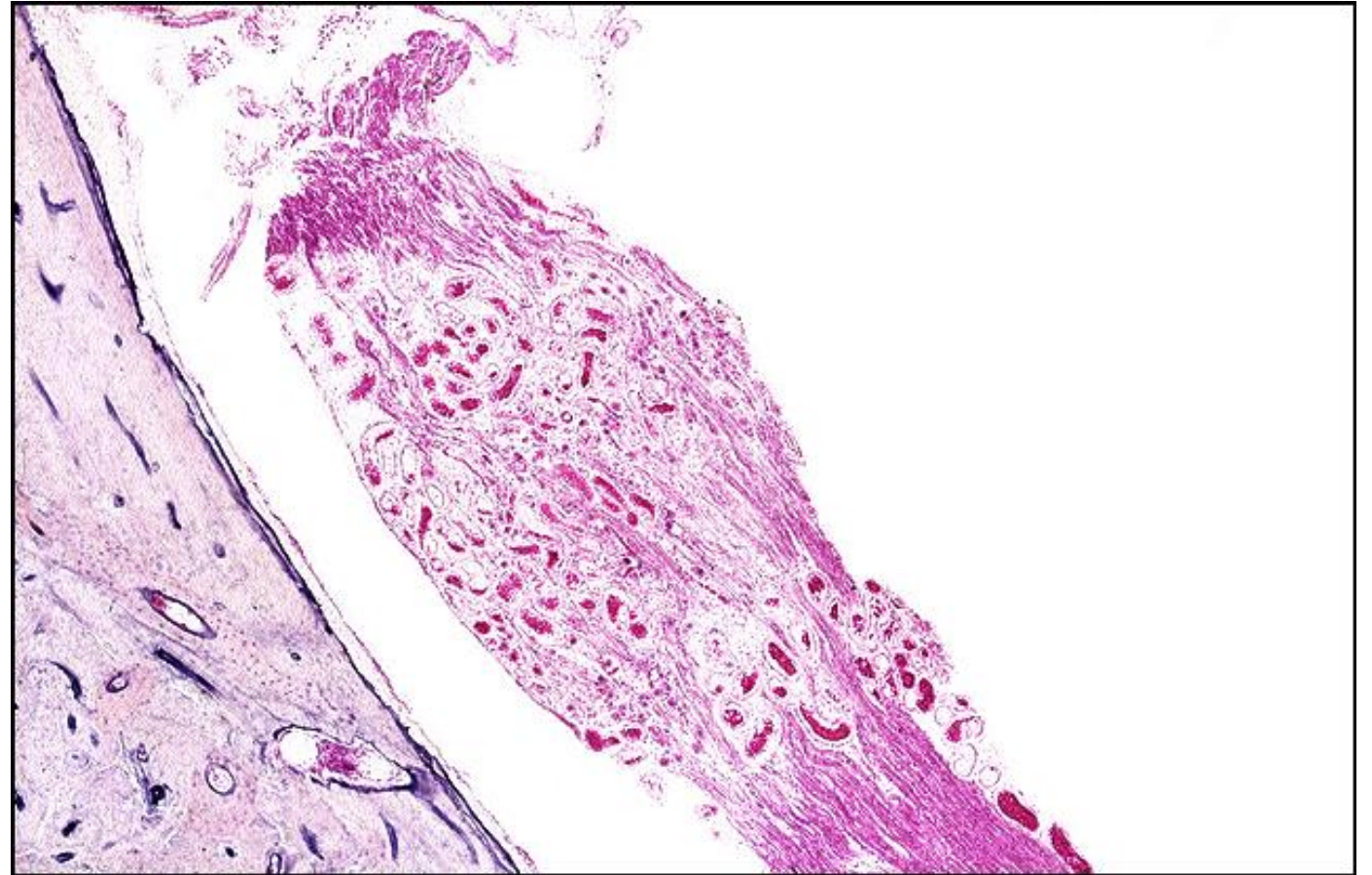
TB Case Number: 656

Gender: Female

Age(yrs.): 72

Otologic Diagnosis:

1. Otosclerosis with stapes fixation and partial round window obliteration, bilateral
2. Normal hair cell and neuronal populations, bilateral
3. Vascular proliferation, left Scarpa's ganglion





Mass General Brigham

Mass Eye and Ear