

## **SECTION 1: NASAL CAVITY AND PARANASAL SINUSES**

### 4 Nose and Paranasal Sinuses

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

## **CONGENITAL/GENETIC/HEREDITARY**

### 6 Nasal Neuroglial Heterotopia

Lester D. R. Thompson, MD

### 8 Nasal Dermoid Cyst and Sinus

Lester D. R. Thompson, MD

## **INFECTIOUS**

### 10 Allergic Fungal Sinusitis

Lester D. R. Thompson, MD

### 14 Invasive Fungal Rhinosinusitis

Lester D. R. Thompson, MD

### 16 Mycetoma

Lester D. R. Thompson, MD

### 17 Rhinoscleroma

Lester D. R. Thompson, MD

### 18 Rhinosporidiosis

Lester D. R. Thompson, MD

### 20 Mycobacterium leprae Infection

Lester D. R. Thompson, MD

## **INFLAMMATORY-IMMUNE DYSFUNCTION**

### 22 Chronic Rhinosinusitis

Brenda L. Nelson, DDS, MS

### 26 Granulomatosis With Polyangiitis

Susan Müller, DMD, MS

### 32 Eosinophilic Angiocentric Fibrosis

Lester D. R. Thompson, MD

## **REACTIVE AND HAMARTOMAS**

36 Sinonasal Inflammatory Polyp Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

40 Antrochoanal Polyp

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

42 Mucocele of Paranasal Sinus

Lester D. R. Thompson, MD

44 Sinonasal Hamartoma

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

50 Nasal Chondromesenchymal Hamartoma

Lester D. R. Thompson, MD

52 Extranodal Sinus Histiocytosis With Massive Lymphadenopathy

Susan Müller, DMD, MS

56 Myospherulosis

Lester D. R. Thompson, MD

#### **BENIGN NEOPLASM**

58 Sinonasal Papilloma

Lester D. R. Thompson, MD

66 Pleomorphic Adenoma, Sinonasal Tract

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

68 Meningioma, Sinonasal Tract

Lester D. R. Thompson, MD

72 Ameloblastoma, Sinonasal Tract

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

74 Ectopic Pituitary Neuroendocrine Tumor

Lester D. R. Thompson, MD

80 Lobular Capillary Hemangioma (Pyogenic Granuloma)

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

84 Sinonasal Tract Angiofibroma

Lester D. R. Thompson, MD

88 Schwannoma/Neurofibroma, Sinonasal Tract

Lester D. R. Thompson, MD

92 Leiomyoma and Smooth Muscle Tumors of Uncertain Malignant Potential

Lester D. R. Thompson, MD

96 Fibromatosis/Desmoid-Type Fibromatosis

Lester D. R. Thompson, MD

98 Solitary Fibrous Tumor, Sinonasal Tract

Lester D. R. Thompson, MD

**BORDERLINE NEOPLASM**

102 Glomangiopericytoma

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

106 Squamous Cell Carcinoma, Sinonasal Tract

Lester D. R. Thompson, MD

114 NUT Carcinoma

Lester D. R. Thompson, MD

116 SWI/SNF Complex-Deficient Sinonasal Carcinomas

Lester D. R. Thompson, MD

120 Lymphoepithelial Carcinoma, Sinonasal Tract

Susan Müller, DMD, MS

122 Sinonasal Undifferentiated Carcinoma

Susan Müller, DMD, MS

128 Teratocarcinosarcoma

Lester D. R. Thompson, MD

134 HPV-Related Multiphenotypic Sinonasal Carcinoma

Lester D. R. Thompson, MD

138 Sinonasal Adenocarcinoma, Intestinal Type

Lester D. R. Thompson, MD

144 Sinonasal Nonintestinal-Nonsalivary Adenocarcinoma

Lester D. R. Thompson, MD

152 Sinonasal Renal Cell-Like Adenocarcinoma

Lester D. R. Thompson, MD

154 Olfactory Neuroblastoma

Lester D. R. Thompson, MD

164 Sinonasal Neuroendocrine Carcinoma

Lester D. R. Thompson, MD

170 Mucosal Melanoma, Sinonasal Tract

Lester D. R. Thompson, MD

176 Alveolar Rhabdomyosarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

182 Ewing Sarcoma, Including Sinonasal Adamantinoma-Like

Lester D. R. Thompson, MD

188 Biphenotypic Sinonasal Sarcoma

Lester D. R. Thompson, MD

192 Leiomyosarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

198 Malignant Peripheral Nerve Sheath Tumor, Sinonasal Tract

Lester D. R. Thompson, MD

202 Fibrosarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

206 Angiosarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

210 Mesenchymal Chondrosarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

212 Undifferentiated Pleomorphic Sarcoma, Sinonasal Tract

Lester D. R. Thompson, MD

216 Extranodal NK-/T-Cell Lymphoma, Nasal Type

Aaron Auerbach, MD, MPH

222 Metastatic/Secondary Tumors, Sinonasal Tract

Lester D. R. Thompson, MD

**SPECIMEN EXAMINATION, NASAL CAVITY & PARANASAL SINUSES**

224 Specimen Examination and Staging Tools, Oropharynx

Lester D. R. Thompson, MD

228 Specimen Examination and Staging Tools, Nasopharynx

Lester D. R. Thompson, MD

**SECTION 2: PHARYNX (NASAL, HYPO-)**

234 Pharynx

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

**CONGENITAL/GENETIC/HEREDITARY**

236 Tornwaldt Cyst

Lester D. R. Thompson, MD

237 Rathke Cleft Cyst

Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

238 Dermoid

Brenda L. Nelson, DDS, MS

**MALIGNANT NEOPLASM**

240 Low-Grade Nasopharyngeal Papillary Adenocarcinoma

Lester D. R. Thompson, MD

244 Nasopharyngeal Carcinoma, Nonkeratinizing Types

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

254 Nasopharyngeal Carcinoma, Keratinizing Type

Susan Müller, DMD, MS

256 Nasopharyngeal Carcinoma, Basaloid Squamous Cell Carcinoma

Susan Müller, DMD, MS

260 Diffuse Large B-Cell Lymphoma NOS

Aaron Auerbach, MD, MPH

**SECTION 3: LARYNX AND TRACHEA**

266 Larynx

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

**CONGENITAL/GENETIC/HEREDITARY**

268 Laryngocele and Laryngeal Cysts

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

270 Tracheopathia Osteoplastica

Lester D. R. Thompson, MD

**INFECTIOUS**

272 Laryngitis: Viral, Bacterial, Fungal

Lester D. R. Thompson, MD

**REACTIVE**

276 Vocal Cord Nodules and Polyps

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

280 Reactive Epithelial Changes

Lester D. R. Thompson, MD

284 Contact Ulcer

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

286 Amyloid (Amyloidoma)

Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

288 Squamous Papilloma

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

292 Granular Cell Tumor, Larynx

Lester D. R. Thompson, MD

294 Adult Rhabdomyoma

Lester D. R. Thompson, MD

296 Inflammatory Myofibroblastic Tumor

Lester D. R. Thompson, MD

300 Paraganglioma, Larynx

Lester D. R. Thompson, MD

302 Chondroma

Lester D. R. Thompson, MD

**BORDERLINE NEOPLASM**

304 EBV-Associated Smooth Muscle Tumor

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

306 Keratinizing Dysplasia and Carcinoma In Situ

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

314 Conventional Squamous Cell Carcinoma

Susan Müller, DMD, MS

322 Verrucous Carcinoma

Susan Müller, DMD, MS

326 Spindle Cell Squamous Cell Carcinoma

Lester D. R. Thompson, MD

332 Papillary Squamous Cell Carcinoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

336 Basaloid Squamous Cell Carcinoma

Lester D. R. Thompson, MD

340 Adenosquamous Carcinoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

344 Neuroendocrine Neoplasms, Larynx

Lester D. R. Thompson, MD

354 Chondrosarcoma

Lester D. R. Thompson, MD

358 Metastatic/Secondary Tumors, Larynx and Trachea

Lester D. R. Thompson, MD

**SPECIMEN EXAMINATION, LARYNX**

360 Specimen Examination and Staging Tools, Larynx and Trachea

Lester D. R. Thompson, MD

**SECTION 4: ORAL CAVITY**

364 Tongue

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

366 Oral Mucosae

Brenda L. Nelson, DDS, MS

**CONGENITAL/GENETIC/HEREDITARY**

368 Ectopic (Lingual) Thyroid

Susan Müller, DMD, MS

370 White Sponge Nevus

Susan Müller, DMD, MS

**INFECTIOUS**

372 Multifocal Epithelial Hyperplasia (Heck Disease)

Susan Müller, DMD, MS

374 Oral Hairy Leukoplakia

Susan Müller, DMD, MS

376 Oral Infections

Susan Müller, DMD, MS

380 Oral Syphilis

Brenda L. Nelson, DDS, MS

**INFLAMMATORY-IMMUNE DYSFUNCTION**

384 Aphthous Stomatitis

Susan Müller, DMD, MS

390 Pemphigus Vulgaris

Susan Müller, DMD, MS

392 Mucous Membrane Pemphigoid

Susan Müller, DMD, MS

394 Oral Lichen Planus

Susan Müller, DMD, MS

398 Erythema Multiforme

Susan Müller, DMD, MS

400 Lupus Erythematosus

Susan Müller, DMD, MS

**REACTIVE**

404 Frictional Hyperkeratosis

Susan Müller, DMD, MS

405 Pseudoepitheliomatous Hyperplasia

Susan Müller, DMD, MS

406 Necrotizing Sialometaplasia

Susan Müller, DMD, MS

408 Traumatic Ulcerative Granuloma With Stromal Eosinophilia

Susan Müller, DMD, MS

410 Giant Cell Fibroma

Brenda L. Nelson, DDS, MS

411 Amalgam Tattoo

Susan Müller, DMD, MS

412 Tobacco Changes

Brenda L. Nelson, DDS, MS

414 Parulis

Brenda L. Nelson, DDS, MS

**NONNEOPLASTIC LESIONS**

415 Fordyce Granules

Susan Müller, DMD, MS

416 Mucocele and Ranula

Susan Müller, DMD, MS

418 Verruciform Xanthoma

Susan Müller, DMD, MS

419 Hairy Tongue

Brenda L. Nelson, DDS, MS

420 Geographic Tongue

Brenda L. Nelson, DDS, MS

422 Juxtaoral Organ of Chievitz

Susan Müller, DMD, MS

423 Heterotopic Salivary Glands

Brenda L. Nelson, DDS, MS

**BENIGN NEOPLASM**

424 Squamous Papilloma (Including Verruca and Condyloma)

Susan Müller, DMD, MS

428 Fibroma, Oral Cavity

Brenda L. Nelson, DDS, MS

430 Pyogenic Granuloma

Susan Müller, DMD, MS

432 Peripheral Giant Cell Granuloma

Brenda L. Nelson, DDS, MS

434 Peripheral Ossifying Fibroma

Brenda L. Nelson, DDS, MS

436 Mucosal Neuroma

Brenda L. Nelson, DDS, MS

438 Solitary Circumscribed Neuroma

Brenda L. Nelson, DDS, MS

440 Acquired Melanocytic Nevus

Susan Müller, DMD, MS

444 Melanoacanthoma

Susan Müller, DMD, MS

445 Oral Lymphangioma

Susan Müller, DMD, MS

446 Teratoma, Oral Cavity

Brenda L. Nelson, DDS, MS

**BORDERLINE NEOPLASM**

448 Congenital Granular Cell Epulis

Susan Müller, DMD, MS

450 Granular Cell Tumor, Oral Cavity

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

454 Melanotic Neuroectodermal Tumor of Infancy

Lester D. R. Thompson, MD

456 Ectomesenchymal Chondromyxoid Tumor

Brenda L. Nelson, DDS, MS

460 GLI1-Altered Soft Tissue Tumor

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

462 Dysplasia and Carcinoma In Situ

Susan Müller, DMD, MS

468 Proliferative Verrucous Leukoplakia

Susan Müller, DMD, MS

470 Squamous Cell Carcinoma, Oral Cavity

Susan Müller, DMD, MS

476 Mucosal Melanoma, Oral Cavity

Susan Müller, DMD, MS

480 Extraskeletal Myxoid Chondrosarcoma

Lester D. R. Thompson, MD

482 Angiosarcoma, Oral Cavity

Brenda L. Nelson, DDS, MS

484 Kaposi Sarcoma, Oral Cavity

Susan Müller, DMD, MS

486 Metastatic/Secondary Tumors: Oral Cavity; Jaw

Susan Müller, DMD, MS

## **SPECIMEN EXAMINATION, LIP AND ORAL CAVITY**

488 Specimen Examination and Staging Tools, Lip and Oral Cavity

Susan Müller, DMD, MS

## **SECTION 5: OROPHARYNX**

### **INFECTIOUS**

492 Infectious Mononucleosis

Aaron Auerbach, MD, MPH

496 HIV Infection of Tonsils and Adenoids

Lester D. R. Thompson, MD

### **REACTIVE**

500 Lymphangiomas Polyp

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

### **MALIGNANT NEOPLASM**

502 Oropharyngeal Carcinoma

Susan Müller, DMD, MS

## **SECTION 6: SALIVARY GLANDS**

508 Major Salivary Glands

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

### **INFECTIOUS**

510 HIV Salivary Gland Disease

Susan Müller, DMD, MS

### **INFLAMMATORY-IMMUNE DYSFUNCTION**

512 Benign Lymphoepithelial Cyst

Susan Müller, DMD, MS

514 Benign Lymphoepithelial Lesion

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

516 Sjögren Syndrome Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

520 IgG4-Related Salivary Gland Disease

Susan Müller, DMD, MS

**REACTIVE**

524 Oncocytosis (Oncocytic Hyperplasia)

Brenda L. Nelson, DDS, MS

525 Sialolithiasis

Brenda L. Nelson, DDS, MS

**BENIGN NEOPLASM**

526 Pleomorphic Adenoma

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

536 Basal Cell Adenoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

540 Myoepithelioma

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

544 Warthin Tumor (Papillary Cystadenoma Lymphomatosum)

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

548 Oncocytoma

Lester D. R. Thompson, MD

554 Canalicular Adenoma

Lester D. R. Thompson, MD

556 Cystadenoma

Susan Müller, DMD, MS

558 Ductal Papillomas

Susan Müller, DMD, MS

562 Salivary Gland Adenoma: Lymphadenoma, Sebaceous Lymphadenoma, and Sebaceous Adenoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

564 Sclerosing Polycystic Adenoma

Susan Müller, DMD, MS

566 Keratocystoma

Susan Müller, DMD, MS

567 Sialolipoma

Susan Müller, DMD, MS

568 Hemangioma, Parotid Gland

Susan Müller, DMD, MS

**BORDERLINE NEOPLASM**

570 Sialoblastoma

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

574 Mucoepidermoid Carcinoma, Salivary

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

584 Adenoid Cystic Carcinoma

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

592 Acinic Cell Carcinoma

Lester D. R. Thompson, MD

600 Secretory Carcinoma, Salivary Gland

Lester D. R. Thompson, MD

604 Microsecretory Adenocarcinoma

Lester D. R. Thompson, MD

606 Polymorphous Adenocarcinoma, Low-Grade Subtype

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

612 Polymorphous Adenocarcinoma, Cribriform Subtype

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

614 Hyalinizing Clear Cell Carcinoma

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

620 Basal Cell Adenocarcinoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

624 Intraductal Carcinoma

Lester D. R. Thompson, MD

626 Salivary Duct Carcinoma

Lester D. R. Thompson, MD

636 Myoepithelial Carcinoma

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

640 Epithelial-Myoepithelial Carcinoma

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

646 Carcinoma Ex-Pleomorphic Adenoma

Lester D. R. Thompson, MD

656 Mucinous Adenocarcinoma

Lester D. R. Thompson, MD

660 Sclerosing Microcystic Adenocarcinoma

Lester D. R. Thompson, MD

662 Lymphoepithelial Carcinoma, Salivary Gland

Lester D. R. Thompson, MD

668 Sebaceous Carcinoma and Sebaceous Lymphadenocarcinoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

670 Adenocarcinoma, Not Otherwise Specified

Brenda L. Nelson, DDS, MS

672 Small Cell Neuroendocrine Carcinoma, Salivary Gland

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

676 Lymphoma, Salivary Gland

Aaron Auerbach, MD, MPH

678 Metastatic/Secondary Tumors, Salivary Glands

Lester D. R. Thompson, MD

#### **SPECIMEN EXAMINATION, SALIVARY GLANDS**

680 Specimen Examination and Staging Tools, Salivary Glands

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

#### **SECTION 7: JAW**

684 Teeth

Brenda L. Nelson, DDS, MS

#### **CONGENITAL/GENETIC/HEREDITARY**

686 Cherubism

Susan Müller, DMD, MS

**REACTIVE/INFECTIOUS**

688 Tori

Susan Müller, DMD, MS

690 Osteomyelitis

Brenda L. Nelson, DDS, MS

694 Osteonecrosis

Susan Müller, DMD, MS

698 Cemento-Osseous Dysplasia

Brenda L. Nelson, DDS, MS

700 Fibrous Dysplasia

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

704 Paget Disease of Bone

Brenda L. Nelson, DDS, MS

**CYSTS**

708 Simple Bone Cyst

Brenda L. Nelson, DDS, MS

710 Pseudocysts and Surgical Ciliated Cysts of Jaw

Brenda L. Nelson, DDS, MS

712 Periapical Cyst/Granuloma

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

714 Nasopalatine Duct Cyst

Lester D. R. Thompson, MD

716 Dentigerous Cyst

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

720 Orthokeratinized Odontogenic Cyst

Brenda L. Nelson, DDS, MS

722 Lateral Periodontal Cyst

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

724 Calcifying Odontogenic Cyst

Brenda L. Nelson, DDS, MS

726 Glandular Odontogenic Cyst

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

728 Odontogenic Keratocyst

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

732 Adenomatoid Odontogenic Tumor

Brenda L. Nelson, DDS, MS

734 Squamous Odontogenic Tumor

Brenda L. Nelson, DDS, MS

736 Calcifying Epithelial Odontogenic Tumor

Brenda L. Nelson, DDS, MS

738 Ameloblastoma, Jaw

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

744 Odontoma (Complex and Compound)

Brenda L. Nelson, DDS, MS

746 Ameloblastic Fibroma/Fibroodontoma

Brenda L. Nelson, DDS, MS

748 Odontogenic Fibroma

Brenda L. Nelson, DDS, MS

750 Cementoblastoma

Brenda L. Nelson, DDS, MS

752 Odontogenic Myxoma

Susan Müller, DMD, MS

754 Central Giant Cell Granuloma

Brenda L. Nelson, DDS, MS

756 Ossifying Fibroma, Jaw

Lester D. R. Thompson, MD and Brenda L. Nelson, DDS, MS

760 Juvenile Active Ossifying Fibroma

Lester D. R. Thompson, MD

764 Osteoma

Lester D. R. Thompson, MD

766 Osteoblastoma

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

768 Ameloblastic Carcinoma

Brenda L. Nelson, DDS, MS

770 Clear Cell Odontogenic Carcinoma

Brenda L. Nelson, DDS, MS

772 Ghost Cell Odontogenic Carcinoma

Lester D. R. Thompson, MD

774 Ameloblastic Fibrosarcoma

Brenda L. Nelson, DDS, MS

776 Osteosarcoma, Jaw

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

780 Chondrosarcoma, Jaw

Susan Müller, DMD, MS

786 Plasma Cell Myeloma, Jaw

Aaron Auerbach, MD, MPH

**SECTION 8: EAR AND TEMPORAL BONE**

790 Ear

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

**CONGENITAL/GENETIC/HEREDITARY**

792 Accessory Tragus

Susan Müller, DMD, MS

794 Encephalocele

Lester D. R. Thompson, MD  
796 First Branchial Cleft Anomaly

Lester D. R. Thompson, MD

**INFECTIOUS**

800 Otitis Media

Lester D. R. Thompson, MD

802 Necrotizing Otitis Externa

Lester D. R. Thompson, MD

**INFLAMMATORY-IMMUNE DYSFUNCTION**

804 Chondrodermatitis Nodularis Chronica Helicis

Lester D. R. Thompson, MD

806 Otic Polyp

Lester D. R. Thompson, MD

808 Relapsing Polychondritis

Lester D. R. Thompson, MD

**DEGENERATIVE**

810 Cystic Chondromalacia (Auricular Pseudocyst)

Lester D. R. Thompson, MD

812 Otosclerosis

Susan Müller, DMD, MS and Lester D. R. Thompson, MD

**METABOLIC**

814 Gout

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

**REACTIVE**

816 Exostosis

Lester D. R. Thompson, MD

818 Keloid

David Cassarino, MD, PhD and Lester D. R. Thompson, MD

820 Synovial Chondromatosis (Temporomandibular Joint)

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

822 Ceruminous Adenoma

Lester D. R. Thompson, MD

826 Cholesteatoma

Lester D. R. Thompson, MD

830 Jugulotympanic Paraganglioma

Lester D. R. Thompson, MD

836 Vestibular Schwannoma

Lester D. R. Thompson, MD and Susan Müller, DMD, MS

840 Meningioma, Ear and Temporal Bone

Lester D. R. Thompson, MD

842 Epithelioid Hemangioma

Lester D. R. Thompson, MD

844 Middle Ear Neuroendocrine Tumor

Lester D. R. Thompson, MD

850 Endolymphatic Sac Tumor

Lester D. R. Thompson, MD

854 Langerhans Cell Histiocytosis, Ear and Temporal Bone

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

856 Atypical Fibroxanthoma

David Cassarino, MD, PhD and Lester D. R. Thompson, MD

860 Squamous Cell Carcinoma, Ear and Temporal Bone

Lester D. R. Thompson, MD and David Cassarino, MD, PhD

864 Basal Cell Carcinoma

Lester D. R. Thompson, MD and David Cassarino, MD, PhD

866 Merkel Cell Carcinoma

Lester D. R. Thompson, MD and David Cassarino, MD, PhD

870 Dermatofibrosarcoma Protuberans

Lester D. R. Thompson, MD and David Cassarino, MD, PhD

874 Ceruminous Adenocarcinoma

Lester D. R. Thompson, MD

878 Rhabdomyosarcoma, Ear and Temporal Bone

Lester D. R. Thompson, MD

882 Metastatic/Secondary Tumors, Ear and Temporal Bone

Lester D. R. Thompson, MD

**SECTION 9: NECK (SOFT TISSUE AND LYMPH NODES)**

886 Lymph Nodes

Lester D. R. Thompson, MD

**CONGENITAL/GENETIC/HEREDITARY**

888 Branchial Cleft Cyst

Brenda L. Nelson, DDS, MS and Lester D. R. Thompson, MD

894 Dermoid Cyst

Brenda L. Nelson, DDS, MS

896 Cervical Thymic Cyst

Brenda L. Nelson, DDS, MS

898 Bronchogenic Cyst

Brenda L. Nelson, DDS, MS

**INFECTIOUS**

900 Cat-Scratch Disease

Lester D. R. Thompson, MD

904 Bacillary Angiomatosis

Susan Müller, DMD, MS

906 Mycobacterial Spindle Cell Pseudotumor

Lester D. R. Thompson, MD

**INFLAMMATORY-IMMUNE DYSFUNCTION**

908 Sarcoidosis

Brenda L. Nelson, DDS, MS

**REACTIVE**

910 Nodular Fasciitis

Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

912 Lymphangioma, Neck

Brenda L. Nelson, DDS, MS

914 Lipoma

Brenda L. Nelson, DDS, MS

916 Spindle Cell Lipoma

Lester D. R. Thompson, MD

918 Hibernoma

Lester D. R. Thompson, MD

920 Lipoblastoma

Brenda L. Nelson, DDS, MS

922 Elastofibroma

Lester D. R. Thompson, MD

924 Perineurioma

Lester D. R. Thompson, MD

928 Fetal Rhabdomyoma

Lester D. R. Thompson, MD

932 Nuchal-Type Fibroma

Brenda L. Nelson, DDS, MS

934 Branchioma (Ectopic Hamartomatous Thymoma)

Lester D. R. Thompson, MD

936 Carotid Body Paraganglioma

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

942 Metastatic Cystic Squamous Cell Carcinoma

Lester D. R. Thompson, MD

948 Synovial Sarcoma

Lester D. R. Thompson, MD

954 Chordoma

Lester D. R. Thompson, MD

960 Liposarcoma

Susan Müller, DMD, MS

### **SECTION 10: THYROID GLAND**

966 Thyroid Gland

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

### **CONGENITAL/GENETIC/HEREDITARY**

968 Thyroglossal Duct Cyst

Lester D. R. Thompson, MD

972 Ectopic Thyroid Gland

Susan Müller, DMD, MS

974 Solid Cell Nests

Lester D. R. Thompson, MD

976 Dyshormonogenetic Goiter

Lester D. R. Thompson, MD

### **INFECTIOUS**

980 Infectious Thyroiditis

Lester D. R. Thompson, MD

### **INFLAMMATORY-IMMUNE DYSFUNCTION**

984 Palpation Thyroiditis

Lester D. R. Thompson, MD

986 Subacute Granulomatous Thyroiditis (de Quervain)

Lester D. R. Thompson, MD

992 Chronic Lymphocytic (Hashimoto) Thyroiditis

Lester D. R. Thompson, MD

998 Graves Disease (Diffuse Hyperplasia)

Lester D. R. Thompson, MD

1004 Amyloid Goiter

Lester D. R. Thompson, MD

1008 IgG4-Related Thyroiditis

Lester D. R. Thompson, MD

**REACTIVE**

1010 Multinodular Hyperplasia

Lester D. R. Thompson, MD

1018 Pigments and Crystals in Thyroid Gland

Lester D. R. Thompson, MD

1020 Post Thyroid Biopsy Changes

Lester D. R. Thompson, MD

1024 C-Cell Hyperplasia (Physiologic)

Lester D. R. Thompson, MD

1026 Radiation Thyroiditis

Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

1028 Follicular Adenoma

Lester D. R. Thompson, MD

1034 Follicular Adenoma With Papillary Architecture

Lester D. R. Thompson, MD

1038 Oncocytic Follicular Adenoma

Lester D. R. Thompson, MD

1042 Noninvasive Follicular Thyroid Neoplasm With Papillary-Like Nuclei

Lester D. R. Thompson, MD

1046 Hyalinizing Trabecular Tumor

Lester D. R. Thompson, MD

1050 Thyroid Teratoma

Lester D. R. Thompson, MD

1054 Paraganglioma, Thyroid Gland

Lester D. R. Thompson, MD

1056 Solitary Fibrous Tumor, Thyroid Gland

Lester D. R. Thompson, MD

1060 Leiomyoma, Thyroid Gland

Lester D. R. Thompson, MD

1062 Schwannoma, Thyroid Gland

Lester D. R. Thompson, MD

1064 Langerhans Cell Histiocytosis, Thyroid Gland

Lester D. R. Thompson, MD

1068 Ovarian Thyroid Tissue

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

1072 Papillary Thyroid Carcinoma

Lester D. R. Thompson, MD

1088 Follicular Thyroid Carcinoma

Lester D. R. Thompson, MD

1100 Oncocytic Follicular Thyroid Carcinoma

Lester D. R. Thompson, MD

1106 High-Grade Follicular-Derived Thyroid Carcinomas

Lester D. R. Thompson, MD

1114 Undifferentiated (Anaplastic) Thyroid Carcinoma

Lester D. R. Thompson, MD

1122 Medullary Thyroid Carcinoma

Lester D. R. Thompson, MD

1134 Thyroblastoma

Lester D. R. Thompson, MD

1136 Mucoepidermoid Carcinoma, Thyroid Gland

Lester D. R. Thompson, MD

1140 Sclerosing Mucoepidermoid Carcinoma With Eosinophilia

Lester D. R. Thompson, MD

1144 Cribriform Follicular Thyroid Carcinoma

Lester D. R. Thompson, MD

1146 Spindle Epithelial Tumor With Thymus-Like Elements

Lester D. R. Thompson, MD

1150 Thymic Carcinoma Family Thyroid Tumors

Lester D. R. Thompson, MD

1154 Angiosarcoma, Thyroid Gland

Lester D. R. Thompson, MD

1158 Leiomyosarcoma, Thyroid Gland

Lester D. R. Thompson, MD

1162 Malignant Peripheral Nerve Sheath Tumor, Thyroid Gland

Lester D. R. Thompson, MD

1166 Follicular Dendritic Cell Sarcoma, Thyroid Gland

Lester D. R. Thompson, MD

1170 Lymphoma, Thyroid Gland

Lester D. R. Thompson, MD

1180 Metastatic/Secondary Tumors, Thyroid Gland

Lester D. R. Thompson, MD

#### **SPECIMEN EXAMINATION, THYROID GLAND**

1186 Specimen Examination and Staging Tools, Thyroid Gland

Lester D. R. Thompson, MD

#### **SECTION 11: PARATHYROID GLANDS**

1190 Parathyroid

Lester D. R. Thompson, MD and Jonathan B. McHugh, MD

#### **NONNEOPLASTIC**

1192 Parathyroid Hyperplasia

Lester D. R. Thompson, MD

1200 Tertiary Hyperparathyroidism

Lester D. R. Thompson, MD

1201 Chronic Parathyroiditis

Lester D. R. Thompson, MD

**BENIGN NEOPLASM**

1202 Parathyroid Adenoma

Lester D. R. Thompson, MD

**MALIGNANT NEOPLASM**

1210 Parathyroid Carcinoma

Lester D. R. Thompson, MD

1216 Metastatic/Secondary Tumors, Parathyroid Glands

Lester D. R. Thompson, MD