

CONTENTS

| | |
|---|----|
| 1. Pathologic Examination of Ocular Specimens. | 1 |
| Globe | 1 |
| Enucleation | 1 |
| Segmental Excision | 6 |
| Biopsy. | 7 |
| Eyelids | 10 |
| Full-Thickness Wedge Resection | 10 |
| Partial-Thickness (Lamellar) Wedge Resection | 12 |
| Biopsy. | 12 |
| Conjunctiva and Caruncle. | 12 |
| Conventional Biopsies. | 12 |
| Conjunctival "Map" Biopsies | 13 |
| Exfoliative Cytology | 14 |
| Orbit and Optic Nerve | 14 |
| Exenteration. | 14 |
| Orbital Excisional Biopsies | 16 |
| Incisional Orbital Biopsies. | 16 |
| Orbital Fine-Needle Aspiration Biopsy | 16 |
| Orbital Touch and Scrape Preparations | 17 |
| Lacrimal Gland and Lacrimal Sac | 17 |
| Excisional Biopsies. | 17 |
| Incisional Biopsies | 17 |
| Fine-Needle Aspiration Biopsy. | 18 |
| Pretissue Processing Gel Embedding Technique | 18 |
| 2. Tumors of the Conjunctiva and Caruncle | 21 |
| Anatomy and Histology. | 21 |
| Conjunctiva | 21 |
| Caruncle. | 22 |
| Classification | 23 |
| Benign Epithelial Neoplasms and Tumor-Like Lesions | 23 |
| Pinguecula and Pterygium. | 23 |
| Hereditary Benign Intraepithelial Dyskeratosis. | 25 |
| Papilloma | 26 |
| Amyloidosis | 27 |
| Dysplastic Epithelial Lesions and Malignant Epithelial Neoplasms | 30 |
| Conjunctival Intraepithelial Neoplasia, Carcinoma in Situ, and Squamous Cell Carcinoma | 30 |

| | |
|--|----|
| Conjunctival Squamous Cell Carcinoma Variants | 35 |
| Mucoepidermoid Carcinoma. | 35 |
| Spindle Cell Carcinoma | 37 |
| Other Conjunctival Carcinomas | 40 |
| Pathologist Report for Epithelial Tumors | 40 |
| Benign Melanocytic Tumor-Like Lesions and Neoplasms. | 40 |
| Melanocytic Nevi. | 40 |
| Non-Nevoid Intraepithelial Melanocytic Proliferations | 46 |
| General Features. | 46 |
| Clinical Features. | 50 |
| Histologic Findings | 50 |
| Premalignant and Malignant Melanocytic Lesions. | 52 |
| Primary Acquired Melanosis with Atypia (Conjunctival Melanocytic Intraepithelial Neoplasia with Atypia, Intraepithelial Melanocytic Proliferation with Atypia) | 52 |
| Melanoma | 55 |
| Pathologist Report for Melanocytic Tumors | 57 |
| Mesenchymal Neoplasms | 58 |
| Vascular and Lymphatic Neoplasms and Tumor-Like Lesions | 58 |
| Tumor-Like Congenital Lesions. | 58 |
| Tumors of the Caruncle | 59 |
| Oncocytoma. | 61 |
| Secondary and Metastatic Tumors. | 61 |
| 3. Tumors of the Eyelids. | 67 |
| Anatomy and Histology. | 67 |
| Classification | 68 |
| Basal Cell Carcinoma | 71 |
| Squamous Cell Carcinoma and Its Precursors | 75 |
| Sebaceous Lesions | 77 |
| Sebaceous Gland Hyperplasia | 77 |
| Sebaceous Adenoma and Sebaceous Epithelioma | 77 |
| Sebaceous Carcinoma | 80 |
| Adnexal Tumors. | 85 |
| Endocrine Mucin-Producing Sweat Gland Adenocarcinoma | 85 |
| Congenital Lesions. | 90 |
| Phakomatous Choristoma | 90 |
| Secondary and Metastatic Tumors. | 91 |
| Lesions Occurring in Eyelid and Skin | 92 |
| Benign Epidermal Tumors | 92 |
| Epidermal Tumors of Low Malignant Potential | 92 |

| | | |
|----|---|-----|
| | Adnexal Tumors | 92 |
| | Vascular Tumors and Tumor-Like Lesions | 95 |
| | Merkel Cell Carcinoma | 95 |
| | Cutaneous T-Cell Lymphomas | 95 |
| | Melanocytic Lesions and Neoplasms | 96 |
| | Premalignant and Malignant Melanocytic Proliferations | 96 |
| | Pathologist Report for Primary Carcinoma of the Eyelid | 98 |
| 4. | Tumors of the Orbit | 105 |
| | Anatomy and Histology | 105 |
| | Classification | 105 |
| | Herniated Orbital Fat | 106 |
| | Congenital Tumors and Tumor-Like Lesions | 108 |
| | Dermoid Cysts and Variations | 108 |
| | Orbital Teratoma and Other Germline Tumors | 108 |
| | Primary Orbital Melanoma | 110 |
| | Metastases to Orbit | 111 |
| | Soft Tissue Tumors | 113 |
| | Vascular Tumors and Tumor-Like Lesions | 114 |
| | Fibrocytic and Myofibroblastic Tumor-Like Lesions and Neoplasms | 115 |
| | Tumors with Muscle Differentiation | 116 |
| | Lipomatous Tumors and Tumor-Like Lesions | 118 |
| | Peripheral Nerve Sheath Tumors | 118 |
| | Tumors and Tumor-Like Lesions of Orbital Bones | 119 |
| | Pathologist Report for Orbital Tumors | 120 |
| 5. | Tumors of the Lacrimal Gland | 123 |
| | Anatomy and Histology | 123 |
| | Classification | 124 |
| | Chronic Dacryoadenitis | 124 |
| | Idiopathic Chronic Dacryoadenitis | 125 |
| | IgG4-Related Inflammation | 125 |
| | Sarcoidosis Dacryoadenitis | 126 |
| | Lacrimal Gland Ductal Cyst (Dacryops) | 127 |
| | Benign Epithelial Tumors | 128 |
| | Pleomorphic Adenoma | 128 |
| | Malignant Epithelial Tumors | 130 |
| | Adenoid Cystic Carcinoma | 130 |
| | Pathologist Report for Lacrimal Gland Tumors | 132 |
| 6. | Tumors of the Lacrimal Drainage System | 135 |
| | Anatomy and Histology | 135 |
| | Classification | 135 |

| | |
|--|-----|
| Benign Epithelial Tumors. | 137 |
| Exophytic Papilloma | 137 |
| Inverted Papilloma. | 138 |
| Malignant Epithelial Tumors. | 141 |
| Squamous Cell Carcinoma | 141 |
| Transitional Cell Carcinoma | 143 |
| Mucoepidermoid Carcinoma. | 145 |
| Melanoma | 146 |
| Pathologist Report for Lacrimal Sac Tumors | 148 |
| 7. Ocular Adnexal Hematolymphoid Neoplasms and Tumor-Like Lesions. | 153 |
| Reactive and Atypical Lymphoid Hyperplasia. | 153 |
| Primary Ocular Adnexal Lymphoma. | 155 |
| Primary Ocular Adnexal Plasmacytoma | 155 |
| Xanthogranulomatous Disorders. | 155 |
| Rosai-Dorfman Disease | 162 |
| Langerhans Cell Histiocytosis | 163 |
| Secondary Hematolymphoid Neoplasms | 164 |
| 8. Tumors of the Uvea | 167 |
| Anatomy and Histology. | 167 |
| Classification | 169 |
| Benign Melanocytic Lesions | 170 |
| Uveal Nevi | 170 |
| Congenital Melanosis Oculi (Congenital Ocular Melanocytosis). | 177 |
| Bilateral Diffuse Uveal Melanocytic Proliferation | 177 |
| Uveal Melanoma | 178 |
| Other Uveal Lesions. | 186 |
| Metastases to the Uvea. | 187 |
| 9. Tumors of the Neurosensory Retina and Retinal Pigment Epithelium | 191 |
| Anatomy and Histology. | 191 |
| Retinoblastoma and Retinocytoma | 192 |
| Glial Tumors and Tumor-Like Conditions. | 221 |
| Astrocytoma. | 221 |
| Retinal Gliosis | 222 |
| Vascular Tumors. | 222 |
| Hemangioblastoma | 222 |
| Retinal Cavernous Hemangioma. | 224 |
| Medulloepithelioma. | 225 |
| Combined Hamartoma of the Retina and Retinal Pigment Epithelium (Juxtapapillary Hamartoma), Adenoma, and Adenocarcinoma of the Retinal Pigment Epithelium. | 227 |

| | |
|--|-----|
| Combined Hamartoma of the Retina and Retinal Pigment Epithelium | 227 |
| Adenoma of the Retinal Pigment Epithelium | 228 |
| Adenocarcinoma of the Retinal Pigment Epithelium | 228 |
| Secondary and Metastatic Tumors | 230 |
| 10. Tumors of the Optic Nerve and Optic Nerve Head | 233 |
| Anatomy and Histology | 233 |
| Optic Nerve Sheath Meningioma | 233 |
| Optic Nerve Glioma | 236 |
| Pilocytic Astrocytoma | 238 |
| Other Gliomas | 240 |
| Astrocytic Hamartoma | 240 |
| Melanocytoma | 240 |
| Primary Melanoma | 242 |
| Hemangioma, Hemangiopericytoma/Solitary Fibrous Tumor, Hemangioblastoma. . | 242 |
| Secondary and Metastatic Tumors | 242 |
| 11. Intraocular Hematolymphoid Neoplasms | 247 |
| Primary Vitreoretinal Lymphoma | 247 |
| Primary Iridal Lymphoma | 253 |
| Primary Ciliary Body Lymphoma | 254 |
| Primary Choroidal Lymphoma | 255 |
| Secondary Intraocular Hematolymphoid Neoplasms | 256 |
| Secondary Leukemia | 256 |
| Secondary Lymphoma | 258 |
| Appendices | 261 |
| Index | 271 |