

Contents

1 Disorders of development of teeth	
Disurbances in number of teeth	1
Anodontia	1
Supernumerary teeth	2
Disturbances in size of teeth	2
Disturbances in form of teeth	2
Disturbances in structure of teeth	4
Disturbances in structure of enamel	4
Disturbances in structure of dentine	10
Disturbances in structure of cementum	13
2 Dental caries	
Aetiology of dental caries	15
The role of bacteria and dental plaque	15
The role of carbohydrates	18
Aetiological variables	18
Pathology of dental caries	19
Classification by site of attack	19
Classification by rate of attack	20
Enamel caries	20
Dentine caries	23
Cementum caries	27
Arrested caries	28
Immunological aspects of dental caries	28
3 Other disorders of teeth	
Disorders of eruption and shedding of teeth	31
Premature eruption, natal, and neonatal teeth	31
Retarded eruption	31
Premature loss	31
Persistence of deciduous teeth	31
Impaction of teeth	32
Reimpaction of teeth	32
Non-bacterial loss of tooth substance	32
Attrition	32
Abrasion	33
Erosion	33

Resorption	34
Discolouration of teeth	36
Causes of discolouration	37
Transplantation and reimplantation of teeth	39
4 Disorders of the dental pulp	
Pulpitis	42
Aetiology	43
Histopathology	44
Effects of cavity preparation and filling materials	48
Healing of pulp	48
Pulp calcification	49
Pulp necrosis	51
5 Periapical periodontitis	
Aetiology	52
Acute periapical periodontitis	53
Chronic periapical periodontitis (periapical granuloma)	53
Sequelae of a periapical granuloma	55
Acute periapical abscess and spread of inflammation	56
6 Cysts of the jaws and oral soft tissues	
Classification and incidence of cysts of the jaws	59
Epithelial cysts	59
Non-epithelialized primary bone cysts	60
Odontogenic cysts	60
Radicular cysts	60
Dentigerous and eruption cysts	65
Odontogenic keratocyst (primordial cyst)	68
Gingival cyst	71
Developmental lateral periodontal cyst	72
Paradental cyst	72
Non-odontogenic cysts	73
Nasopalatine duct (incisive canal) cyst	73
Globulo-maxillary cyst	73
Naso-labial cyst	74
Median cysts	75
Non-epithelialized primary bone cysts	75
Solitary bone cyst	75
Aneurysmal bone cyst	76
Stafne's idiopathic bone cavity	76
Cysts of the soft tissues	77
Salivary mucoceles	77
Dermoid and epidermoid cysts	78
Lymphoepithelial cyst	79
Thyroglossal cyst	79

7 Diseases of the periodontium	
Chronic gingivitis and periodontitis	81
Aetiology of chronic periodontal disease	81
Histopathogenesis of chronic inflammatory periodontal disease	84
Pathogenic mechanisms in chronic periodontal disease	91
Chronic hyperplastic gingivitis and phenytoin hyperplasia	93
Juvenile periodontitis	94
Desquamative gingivitis	95
Lateral periodontal abscess	96
Pericoronitis	97
8 Connective tissue hyperplasia, neoplasia, and related disorders of oral mucosa	
Connective tissue hyperplasia	99
Epulides	99
Pyogenic granuloma	104
Fibro-epithelial polyp	104
Denture irritation hyperplasia	104
Papillary hyperplasia of the palate	105
Connective tissue neoplasms and allied conditions	106
Tumours of fibrous tissue	106
Tumours of adipose tissue	106
Tumours of vascular tissue	107
Tumours of peripheral nerves	110
Tumours of muscle	111
The granular cell tumour	111
Malignant lymphomas	112
9 Keratoses and relates disorders of oral mucosa	
Classification	116
Oral epithelial naevus	118
Traumatic keratoses	119
Idiopathic leukoplakia	120
Dermatological causes of white patches	127
10 Epithelial tumours of oral mucosa	
Squamous cell papilloma	132
Squamous cell carcinoma	132
Verrucous carcinoma	139
Carcinoma- <i>in-situ</i>	139
Premalignant lesions and conditions	140
Malignant melanoma	141
Exfoliative cytology	142

11 Infections of the oral mucosa	
Viral infections	144
Herpes simplex	144
Herpes zoster	147
Herpangina	147
Hand, foot and mouth disease	148
Manifestations of other viral infections	148
Bacterial infections	148
Acute ulcerative gingivitis	149
Acute streptococcal stomatitis	150
Actinomycosis	151
Syphilis	151
Tuberculosis	153
Fungal infections	153
Acute pseudomembranous candidosis	154
Acute atrophic candidosis	156
Chronic atrophic candidosis	157
Chronic hyperplastic candidosis	158
Chronic mucocutaneous candidosis	158
12 Oral ulceration and vesiculobullous diseases	
Classification of oral ulceration	161
Traumatic ulceration	162
Recurrent oral ulceration	163
Clinical features of ROU	164
Aetiology of ROU	165
Immunological features of ROU	167
Vesiculobullous diseases	169
Pemphigus	170
Erythema multiforme	171
Pemphigoid	173
Epidermolysis bullosa	174
Dermatitis herpetiformis	176
13 Miscellaneous disorders of oral mucosa	
Fordyce's granules	177
Lingual tonsil	177
Median rhomboid glossitis	177
Geographic tongue	178
Sarcoidosis	178
Crohn's disease	180
Non-healing mid-line granulomas	181
Amyloidosis	181
Oral pigmentation	182

14 Diseases of salivary glands	
Developmental anomalies	189
Sialadenitis	190
Bacterial sialadenitis	190
Viral sialadenitis	191
Sialadenitis of minor glands	192
Obstructive and traumatic lesions	192
Salivary calculi (sialoliths)	193
Sjögren's syndrome and related disorders	193
Sjögren's syndrome	194
Sialosis	196
Salivary gland tumours	196
Classification of salivary gland tumours	196
Adenomas	197
Mucoepidermoid tumours	200
Acinic cell tumours	202
Carcinomas	202
15 Odontomes and odontogenic tumours	
Classification	206
Odontomes	206
Odontogenic tumours—benign	207
Odontogenic tumours—malignant	207
Tumours of debatable origin	207
The odontomes	207
The odontogenic tumours	213
The cementoma group	221
Tumours of debatable origin	224
16 Developmental, inflammatory and reactive disorders of bone	
Developmental disorders of bone	226
Inflammatory diseases of bone	228
Osteomyelitis	231
Reactive disorders of bone	235
17 Fibro-osseous lesions, Paget's disease, and tumours of bone	
Fibro-osseous lesions	239
Fibrous dysplasia of bone	239
Cherubism	242
Paget's disease of bone	243
Tumours of bone	248
Classification of tumours of bone	248
18 Diseases of the temporomandibular joint	
Developmental disorders	258
Inflammatory disorders	259

Osteoarthritis	260
Functional disorders	260
Index	263