

Contents

Chapter 1: Medical History

F. D. Fragiskos

1.1	Congestive Heart Failure	1
1.2	Angina Pectoris	1
1.3	Myocardial Infarction	2
1.4	Rheumatic Heart Disease	3
1.5	Heart Murmur	3
1.6	Congenital Heart Disease	3
1.7	Cardiac Arrhythmia	3
1.8	Prosthetic Heart Valve	4
1.9	Surgically Corrected Heart Disease	4
1.10	Heart Pacemaker	4
1.11	Hypertension	4
1.12	Orthostatic Hypotension	5
1.13	Cerebrovascular Accident	5
1.14	Anemia and Other Blood Diseases	6
1.15	Leukemia	6
1.16	Hemorrhagic Diatheses	6
1.17	Patients Receiving Anticoagulants	7
1.18	Hyperthyroidism	8
1.19	Diabetes Mellitus	9
1.20	Renal Disease	10
1.20.1	Acute Glomerulonephritis	10
1.20.2	Chronic Glomerulonephritis	10
1.20.3	Chronic Renal Failure	10
1.21	Patients Receiving Corticosteroids	10
1.22	Cushing's Syndrome	11
1.23	Asthma	11
1.24	Tuberculosis	11
1.25	Infectious Diseases (Hepatitis B, C, and AIDS)	12
1.26	Epilepsy	12
1.27	Diseases of the Skeletal System	13
1.28	Radiotherapy Patients	13
1.29	Allergy	13
1.29.1	Classification of Allergic Reactions	14
1.29.2	Types of Allergic Reactions	14
1.30	Fainting	15
1.31	Pregnancy	15
	Bibliography	16

Chapter 2: Radiographic Examination in Oral Surgery

E. Stefanou

2.1	Radiographic Assessment	22
2.2	Magnification Technique	23
2.3	Two Radiographs with Different Reference Planes	23
2.4	Tube Shift Principle	23
2.5	Vertical Transversal Tomography of the Jaw	23
	Bibliography	28

Chapter 3: Principles of Surgery

F. D. Fragiskos

3.1	Sterilization of Instruments	31
3.2	Preparation of Patient	32
3.3	Preparation of Surgeon	32
3.4	Surgical Incisions and Flaps	33
3.5	Types of Flaps	34
3.5.1	Trapezoidal Flap	34
3.5.2	Triangular Flap	35
3.5.3	Envelope Flap	35
3.5.4	Semilunar Flap	36
3.5.5	Other Types of Flaps	36
3.5.6	Pedicle Flaps	36
3.6	Reflection of the Mucoperiosteum	38
3.7	Suturing	38
3.7.1	Suturing Techniques	39
	Bibliography	41

Chapter 4: Equipment, Instruments, and Materials

F. D. Fragiskos

4.1	Surgical Unit and Handpiece	43
4.2	Bone Burs	43
4.3	Scalpel (Handle and Blade)	43
4.4	Periosteal Elevator	45
4.5	Hemostats	45
4.6	Surgical – Anatomic Forceps	46
4.7	Rongeur Forceps	46
4.8	Bone File	46
4.9	Chisel and Mallet	47

4.10	Needle Holders	47	5.5.3	Extraction of Multi-Rooted Teeth with Destroyed Crown	88
4.11	Scissors	49	5.5.4	Extraction of Root Tips	90
4.12	Towel Clamps	50	5.6	Postextraction Care of Tooth Socket . . .	92
4.13	Retractors	51	5.7	Postoperative Instructions	92
4.14	Bite Blocks and Mouth Props	52		Bibliography	93
4.15	Surgical Suction	53		Chapter 6: Surgical Tooth Extraction	
4.16	Irrigation Instruments	53		F.D. Fragiskos	
4.17	Electrosurgical Unit	54	6.1	Indications	95
4.18	Binocular Loupes with Light Source	54	6.2	Contraindications	99
4.19	Extraction Forceps	55	6.3	Steps of Surgical Extraction	99
4.20	Elevators	60	6.4	Surgical Extraction of Teeth with Intact Crown	99
4.21	Other Types of Elevators	62	6.4.1	Extraction of Multi-Rooted Tooth	99
4.22	Special Instrument for Removal of Roots.	63	6.4.2	Extraction of an Intact Tooth with Hypercementosis of the Root Tip. .	99
4.23	Periapical Curettes	63	6.4.3	Extraction of Deciduous Molar that Embraces Molar of Permanent Tooth. . .	102
4.24	Desmotomes	63	6.4.4	Extraction of Ankylosed Tooth	103
4.25	Sets of Necessary Instruments	64	6.5	Surgical Extraction of Roots.	104
4.26	Sutures	66	6.5.1	Root Extraction After Removal of Part of the Buccal Bone	104
4.27	Needles	67	6.5.2	Extraction of Root after a Window is Created on Buccal Bone . .	109
4.28	Local Hemostatic Drugs.	67	6.5.3	Creation of Groove on Surface of Root, after Removal of Small Amount of Buccal Bone	113
4.29	Materials for Covering or Filling a Surgical Wound	69	6.5.4	Creation of a Groove Between Root and Bone, Which Allows Positioning of the Elevator.	113
4.30	Materials for Tissue Regeneration	70	6.6	Surgical Extraction of Root Tips	114
	Bibliography	71	6.6.1	Surgical Technique	115
	Chapter 5: Simple Tooth Extraction			Bibliography	118
	F.D. Fragiskos			Chapter 7: Surgical Extraction of Impacted Teeth	
5.1	Patient Position.	73		F.D. Fragiskos	
5.1.1	Extraction.	74	7.1	Medical History	121
5.2	Separation of Tooth from Soft Tissues . .	74	7.2	Clinical Examination	121
5.2.1	Severing Soft Tissue Attachment	74	7.3	Radiographic Examination	121
5.2.2	Reflecting Soft Tissues	75	7.4	Indications for Extraction	121
5.3	Extraction Technique Using Tooth Forceps.	76	7.5	Appropriate Timing for Removal of Impacted Teeth.	125
5.3.1	Extraction of Maxillary Central Incisors	77	7.6	Steps of Surgical Procedure	125
5.3.2	Extraction of Maxillary Lateral Incisors	77	7.7	Extraction of Impacted Mandibular Teeth	126
5.3.3	Extraction of Maxillary Canines	77	7.7.1	Impacted Third Molar	126
5.3.4	Extraction of Maxillary Premolars.	77	7.7.1.1	Removal of Bud of Impacted Mandibular Third Molar	128
5.3.5	Extraction of Maxillary First and Second Molars	80	7.7.1.2	Extraction of Impacted Third Molar in Horizontal Position	132
5.3.6	Extraction of Maxillary Third Molar	80	7.7.1.3	Extraction of Third Molar with Mesioangular Impaction	135
5.3.7	Extraction of Mandibular Anterior Teeth	80			
5.3.8	Extraction of Mandibular Premolars	81			
5.3.9	Extraction of Mandibular Molars	82			
5.3.10	Extraction of Mandibular Third Molar . .	83			
5.3.11	Extraction of Deciduous Teeth.	83			
5.4	Extraction Technique Using Root Tip Forceps	84			
5.5	Extraction Technique Using Elevator. . . .	84			
5.5.1	Extraction of Roots and Root Tips	84			
5.5.2	Extraction of Single-Rooted Teeth with Destroyed Crown	86			

7.7.1.4	Extraction of Third Molar with Distoangular Impaction	140	8.2.9	Disturbances in Postoperative Wound Healing	200
7.7.1.5	Extraction of Impacted Third Molar in Edentulous Patient	143		Bibliography	200
7.7.2	Impacted Premolar	145	Chapter 9: Odontogenic Infections		
7.7.3	Impacted Canine	149	F. D. Fragiskos		
7.7.4	Premolar with Deep Impaction	152	9.1	Infections of the Orofacial Region	205
7.8	Extraction of Impacted Maxillary Teeth	155	9.1.1	Periodontal Abscess	206
7.8.1	Impacted Third Molar	155	9.1.2	Acute Dentoalveolar Abscess	206
7.8.1.1	Extraction of Impacted Third Molar	157	9.1.2.1	Local Symptoms	207
7.8.2	Impacted Canines	159	9.1.2.2	Systemic Symptoms	207
7.8.2.1	Extraction Using Labial Approach	160	9.1.2.3	Complications	207
7.8.2.2	Extraction Using Palatal Approach	164	9.1.2.4	Diagnosis	207
7.8.3	Impacted Premolar with Palatal Position	168	9.1.2.5	Spread of Pus Inside Tissues	207
7.8.4	Ectopic Impacted Canine	172	9.1.3	Fundamental Principles of Treatment of Infection	211
7.9	Exposure of Impacted Teeth for Orthodontic Treatment	174	9.1.4	Treatment of Infection in Cellular Stage	213
7.9.1	Impacted Canine with Palatal Position	174	9.1.4.1	Intraalveolar Abscess	213
7.9.2	Impacted Mandibular Canine with Labial Position	176	9.1.4.2	Subperiosteal Abscess	214
	Bibliography	177	9.1.4.3	Submucosal Abscess	214
			9.1.4.4	Subcutaneous Abscess	218
			9.1.5	Fascial Space Infections	218
			9.1.5.1	Abscess of Base of Upper Lip	220
			9.1.5.2	Canine Fossa Abscess	220
			9.1.5.3	Buccal Space Abscess	222
			9.1.5.4	Infratemporal Abscess	224
			9.1.5.5	Temporal Abscess	224
			9.1.5.6	Mental Abscess	225
			9.1.5.7	Submental Abscess	225
			9.1.5.8	Sublingual Abscess	227
			9.1.5.9	Submandibular Abscess	229
			9.1.5.10	Submasseteric Abscess	230
			9.1.5.11	Pterygomandibular Abscess	231
			9.1.5.12	Lateral Pharyngeal Abscess	232
			9.1.5.13	Retropharyngeal Abscess	232
			9.1.5.14	Parotid Space Abscess	232
			9.1.5.15	Cellulitis (Phlegmon)	234
			9.1.5.16	Ludwig's Angina	235
			9.1.6	Chronic Dentoalveolar Abscess	237
				Bibliography	239
			Chapter 10: Preprosthetic Surgery		
			F. D. Fragiskos		
			10.1	Hard Tissue Lesions or Abnormalities	243
			10.1.1	Alveoloplasty	243
			10.1.2	Exostoses	253
			10.1.2.1	Torus Palatinus	253
			10.1.2.2	Torus Mandibularis	256
			10.1.2.3	Multiple Exostoses	259
			10.1.2.4	Localized Mandibular Buccal Exostosis	259
8.1	Perioperative Complications	181			
8.1.1	Fracture of Crown or Luxation of Adjacent Tooth	181			
8.1.2	Soft Tissue Injuries	181			
8.1.3	Fracture of Alveolar Process	183			
8.1.4	Fracture of Maxillary Tuberosity	183			
8.1.5	Fracture of Mandible	184			
8.1.6	Broken Instrument in Tissues	185			
8.1.7	Dislocation of Temporomandibular Joint	185			
8.1.8	Subcutaneous or Submucosal Emphysema	186			
8.1.9	Hemorrhage	186			
8.1.10	Displacement of Root or Root Tip into Soft Tissues	188			
8.1.11	Displacement of Impacted Tooth, Root, or Root Tip into Maxillary Sinus	189			
8.1.12	Oroantral Communication	190			
8.1.13	Nerve Injury	191			
8.2	Postoperative Complications	195			
8.2.1	Trismus	195			
8.2.2	Hematoma	195			
8.2.3	Ecchymosis	196			
8.2.4	Edema	196			
8.2.5	Postextraction Granuloma	197			
8.2.6	Painful Postextraction Socket	197			
8.2.7	Fibrinolytic Alveolitis (Dry Socket)	199			
8.2.8	Infection of Wound	199			

