

Part 1- The history and concept of implant

Chapter 1 Dental implant	1
I. Definition of implants	1
II. History of the implant	2
III. Types and characteristics of the implant	4
IV. Style of the interface between the implant and bone	7
V. Current situation and future trends for implants	10
VI. What is expected of the AQB implant?	13

Part 2 - Basic dentistry for implants

Chapter 1 The histology of bone	1
I. The function of osseous tissue	2
II. The structure of osseous tissue	2
III. Growth of bone	8
IV. Growth of the bone.....	11
V. Vascular and nervous supply of bone.....	12
VI. Remodeling and modeling of bone	12
Chapter 2 Implants and oral anatomy	18
I. Osteology of the oral area	18
II. Muscles that form the walls of the oral cavity	25
III. Arteries that supply the oral cavity.....	31
IV. Veins that drain the structures that surround the oral cavity	38
V. Nerves that supply the surroundings of the oral cavity	40
VI. Important structures of the oral cavity in relation to implants	47

Part 3 - Implants and clinical dentistry

Chapter 1 Implants and periodontology	1
I. Basic concepts for implants	1
II. Its association to periodontal disease	4
Chapter 2 Implant and oral surgery	12
I. Basic concept of oral surgery for implant treatment.....	12
II. Basic surgical procedures for implant treatment.....	14
Chapter 3 Implant and prosthodontics	31
I. Basic implant concepts.....	31
II. Establishing accurate occlusion	32
III. Postscript	47
Chapter 4 Implants and anesthesia	49
I. Local anesthesia.....	49
II. Psychosedation.....	54

III. General anesthesia.....	61
Chapter 5 Implant-related drugs (Basic management of medication)	66
I. Basic approach to medication	66
II. Objectives of pharmacological therapy	66
III. Routes of administration.....	66
IV. Pharmacological action	67
V. Pharmacokinetics	68
VI. Drug side effects	68
VII. Medicines management	68
Chapter 6 Implants and biomaterials (hydroxyapatite)	70
I. Hydroxyapatite.....	70
II. The crystal structures of hydroxyapatite.....	71
III. Synthesis and applications of hydroxyapatite ceramics.....	72
IV. Hydroxyapatite coating of titanium	74
V. Final word.....	76
Chapter 7 Implants and biomaterials (Titanium Metal)	80
I. Properties of metallic materials	80
II. Overview of titanium.....	80
III. Titanium alloy as a biological material.....	82
IV. The surface of titanium.....	84
V. Reconstruction of the oxide passivation film.....	86
VI. Corrosion-resistant properties of titanium.....	87
VII. Properties and toxicity of titanium ions.....	88
VIII. Protein Adsorption.....	89
Part 4- A summary of the AQB implant system	
Chapter 1 Concepts behind the AQB implant system	1
I. Developmental history and its concepts.....	1
Chapter 2 Features of the AQB implant system	5
I. Stability and safety of the AQB implant in vivo	5
II. The features of surface treatment of the AQB implant.....	5
III. Design features of the AQB implant.....	13
IV. Mutual use of abutments	15
V. Mutual use of tools	16
VI. Characteristic diagram of the T-type implant	16
Chapter 3 Composition of the AQB implant system	18
I. The structure of the one-piece type	18
II. The structure of the two-piece type.....	19
III. The structure of the AQB implant prosthesis	20
IV. The characteristics of the AQB implant system	21

Part 5- Legal issues

Chapter 1 Current conflicts related to implants, and prospects for solutions	1
I. The medical standards expected of medical and dental practitioners under trial.....	1
II. Implant treatment that is expected of the dentist	4
III. Examples of recent trials relating to dental malpractice	8
IV. Reconstruction of preventive measures against conflict common in dentistry	9
V. Securing the bidirectional exchange of medical information and treatment.....	10
VI. Human and physical abilities to reduce human error	10