

Contents

Glossary *xii*

1 History of Dental Implants *1*

2 Osseointegration *7*

- Concept *7*
- Factors affecting Osseointegration *8*
 - Implant Related *8*
 - Environment Related *19*
- Success vs Survival *22*
- New Concepts *24*

3 Implant Systems *28*

- Components *28*
- Fixture *28*
- Transmucosal *32*
- Implant Types *33*
- Prosthetic *36*
 - Abutments *38*
 - Screws *39*
 - Torque Wrench *39*
- Laboratory *39*
- Implant systems *40*

4 Patient Selection and Indications for Treatment *43*

- Patient Selection *44*
 - Generic Planning *45*
 - Site Specific Planning *48*
- Indications for implant Treatment *54*
- Follow up care *58*

5 Surgical and Prosthodontic Protocols 60

Surgical Protocols 60

- Timing of Implant Fixture Placement 61

- Computer Guided placement 65

Augmentation Procedures 66

- Timing 67

- Techniques 70

- Materials 73

Prosthodontic Protocols 78

- Type of Prosthesis 79

- Complications 83

Loading Protocols 85

Constructing the Prosthesis 85

Fitting the Prosthesis 87

Post insertion Instructions 87

Outcomes 88

6 Peri-Implant Tissues 90

Anatomy 90

Health 93

Disease 94

- Factors to consider 94

- Periimplant Mucositis 95

- Peri-implantitis 96

Assessment 99

Treatment 99

7 Maintenance Care around Dental Implants 109

Definition 109

Principles 110

Components 112

Intervals 118

Treatment During Maintenance care 122

Criteria for Success and Failure Dental Implant Retained Restorations 127

8 Role of the Hygienists/Therapists 129

Role as a Clinician 131

Role as an Educator 134

Implant Systems 138

Implant Restoration Types 138

Surgical Procedures 138

Index 141