



Qi Liu
Haidong Zhang
Jingwen Yang
Xia Yan
Chao Suo

Periodontal Surgery for Root Coverage

A step-by-step guide

Contents

Chapter 1

Biologic principles of periodontal tissues

001

1.1	Anatomy and histology of the periodontium	006
1.2	Gingiva	008
1.3	Periodontal ligament, cementum, and alveolar bone	020
1.4	Blood supply and innervation of periodontal tissues	026
1.5	Periodontal tissue biotype	028

Chapter 2

Basic concepts of gingival recession and root coverage

031

2.1	Definition and mechanism of gingival recession	032
2.2	Factors predisposing gingival recession	036
2.3	Classification of gingival recession	040
2.4	Classification of root coverage surgery	044
2.5	Clinical success of root surface coverage	049
2.6	Introduction to root coverage surgery	051

Chapter 3

Instruments for root coverage surgery 055

3.1	Cutting instruments	057
3.2	Reflecting and retracting instruments	066
3.3	Root surface treatment equipment	069
3.4	Suture instruments	071
3.5	Incision, flap, and suturing	078

Chapter 4

Presurgical preparation and postsurgical maintenance 095

4.1	Presurgical preparation	097
4.2	Postsurgical care	102

Chapter 5

Free gingival graft and subepithelial connective tissue graft

109

- | | | |
|-----|--|-----|
| 5.1 | Free gingival graft and its donor site | 115 |
| 5.2 | Acquisition of a subepithelial connective tissue graft | 123 |
| 5.3 | Preparation of a connective tissue graft with epithelium | 135 |

Chapter 6

Coronally advanced flaps with subepithelial connective tissue graft: a classic protocol for root coverage

137

- | | | |
|-----|--------------------|-----|
| 6.1 | Indications | 139 |
| 6.2 | Surgical procedure | 140 |
| 6.3 | Clinical cases | 141 |

Chapter 7

Tunnel technique with subepithelial connective tissue graft for root coverage 171

- 7.1 Indications 173
- 7.2 Surgical procedure 174
- 7.3 Clinical cases 175

Chapter 8

Two-stage technique 203

- 8.1 Indications 205
- 8.2 Surgical procedure 206

References 211

Further reading 213