

Recession Coverage: a Decision-making Process

Cortellini & Pini Proto, 20/2

Definition

Displacement of the gingival margin apical to the CEJ

Glassary of Periodontal Terms, 1992



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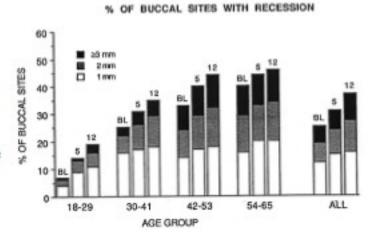
Epidemiology

REC is a frequent finding

% of patient with REC increase with age

Sites with REC were susceptible to further progression

Serino et al, 1994



Risk Factors

Thin tissues Toothbrushing trauma

Sangnes & Gjerma, 1976 Rajopakse et al, 2007



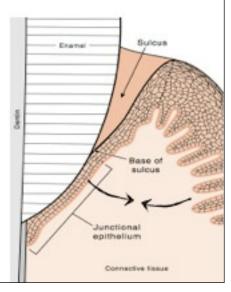
Pathogenesis

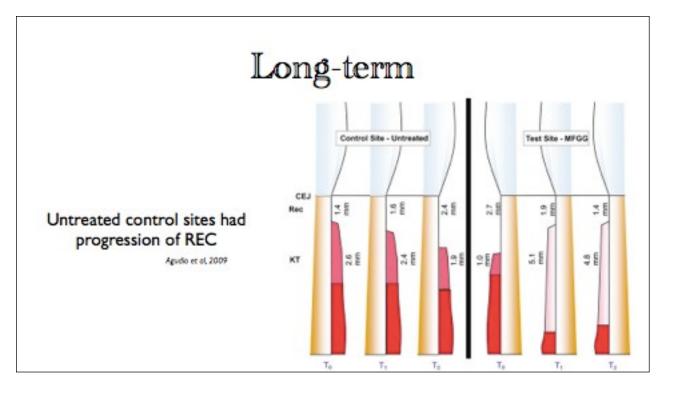
Destruction of connective tissue Proliferation of rete pegs Thickening of the epithelial layer Epithelial thickness is restored Loss of tissue by desquamation

Baker and Seymour, 1976

Traumatic action of tooth brush

Gorman, 1967 O'Leary 1968 O'Leary 1971





When to Treat?

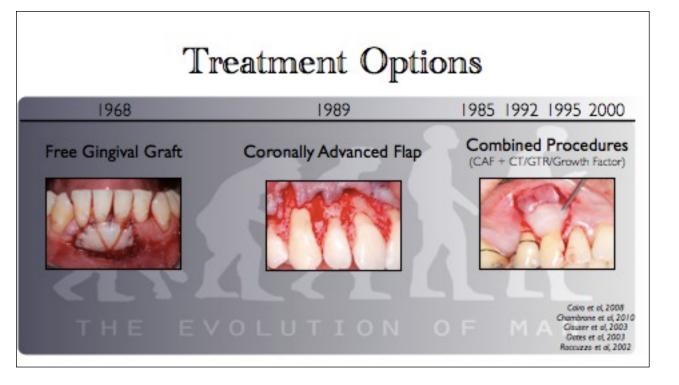
Before Ortho in presence of bony dehiscence

Recession is progressing despite good OH

Improve plaque control (teeth and implants)

Pre-prosthetic

Annals Perio, 1996





What does the patient want?



Discuss patient desires and expected outcome

> Select the best treatment option

What do we want?



Complete Root Coverage

Easy

Time and Money



Too Many Post-op

Poor Esthetic Outcome

Unpredictable Result

What does the patient want?



Esthetic

Limited or No Discomfort

Time and Money



Dentinal Hypersensitivity
Poor Esthetic Outcome
Complicated OH

What do we want?





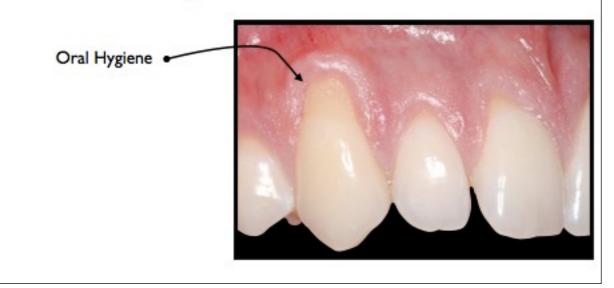




Can we predict the outcome?



Can we predict the outcome?



Can we predict the outcome?

Oral Hygiene

Smoking

Miller, 1985 Muller et al, 1988 Souza et al, 2008 Trombelli & Scobbia, 1998 Zivochelli et al, 1998 Amazante et al, 2000 Bouchard et al, 2001 Harris, 1994 Hirsch et al, 2001 Maurer et al, 2000 Tolmie et al, 1991

Chambrone et al, 2009

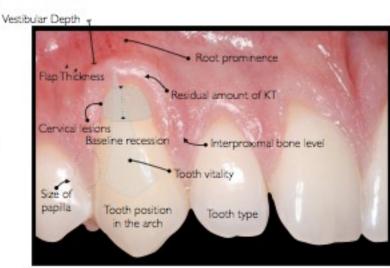


Can we predict the outcome?

Oral Hygiene

Smoking

Tooth/site-related factors



Can we predict the outcome?

Oral Hygiene

Smoking

Tooth/site-related factors

Root curvature Saletta et

200000 61 07 5000

Interdental support

Miller, 1985 Aroco et al, 2010

Dimension of papilla Saletto et al, 2007 Hagrighati et al, 2009

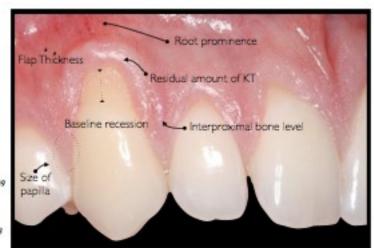
Flap thickness

Baidi et al, 1999

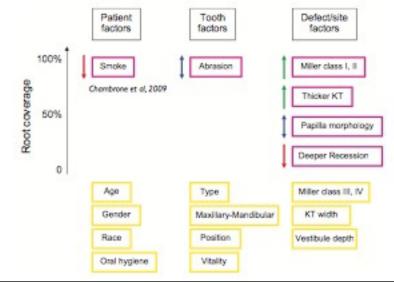
Residual amount of KT

Zucchelli et al, 2004

Baseline recession depth. Roccuzzo et al, 2002. Clauser et al, 2003.



Can we predict the outcome?

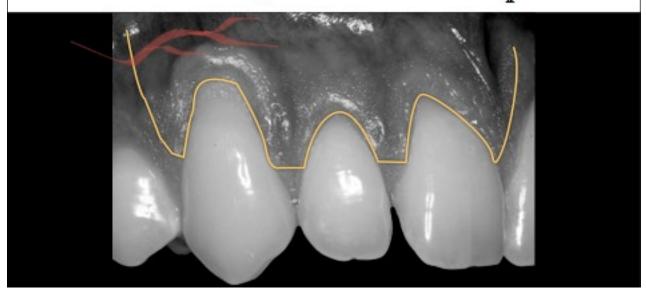


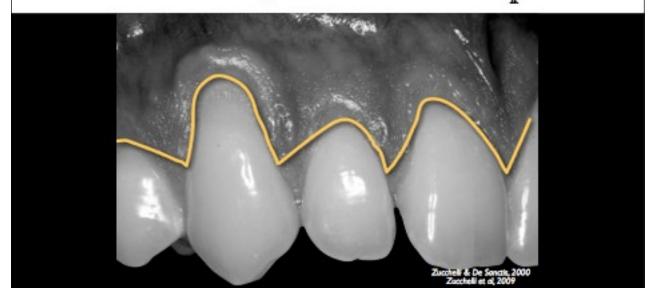






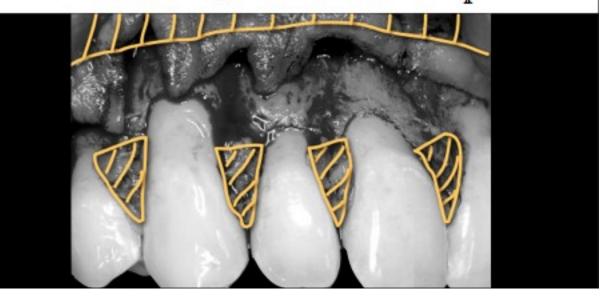






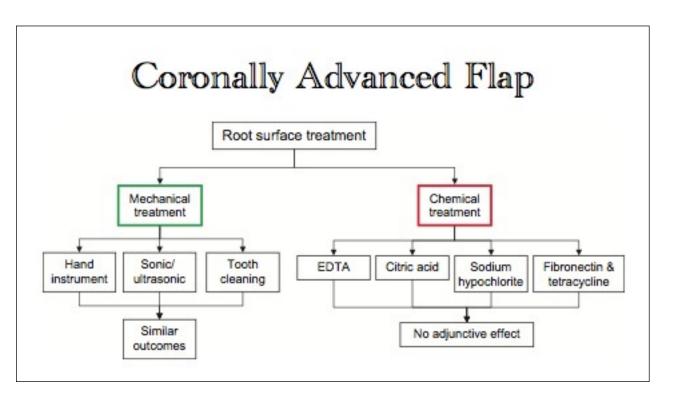


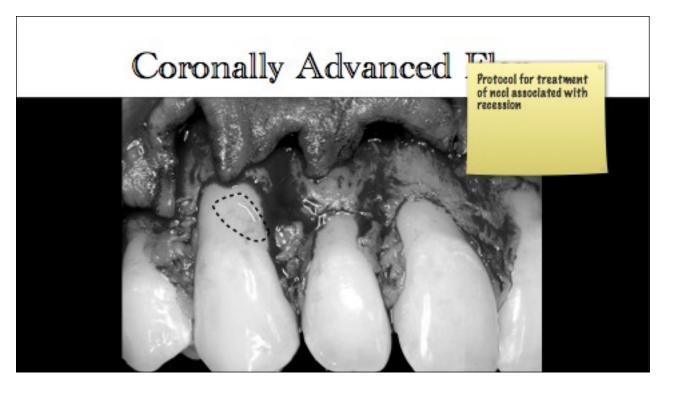


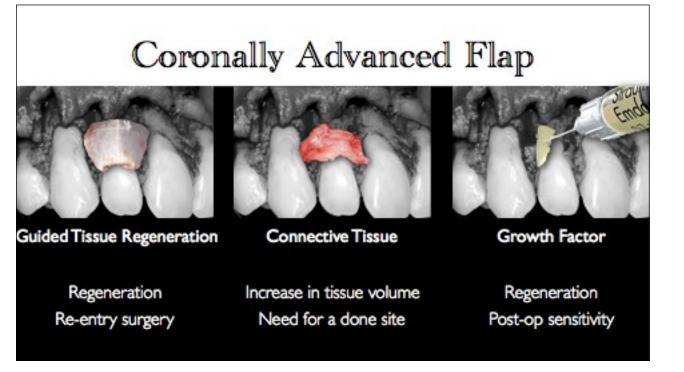


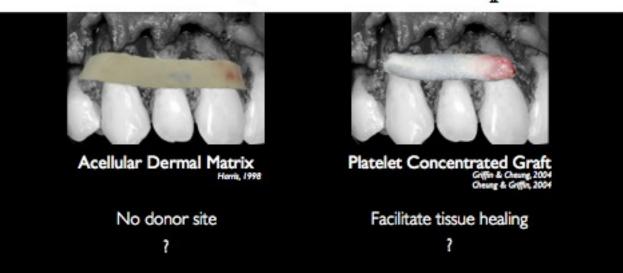


Coronally Advanced Flap Citric Acid Tetracycline EDTA







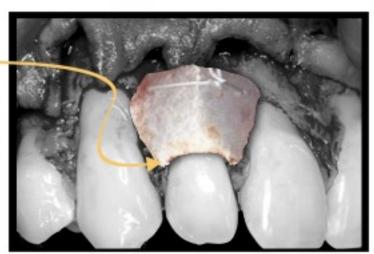


Guided Tissue Regeneration

Placed past CEJ

Barrier bent for space keeping

No difference between
Resorbable & Nonresorbable

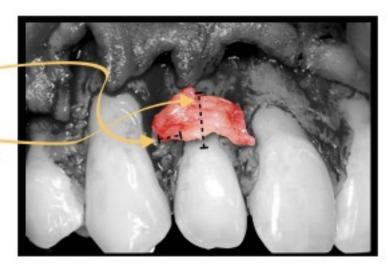


Size of Connective Tissue Graft

6mm wider then recession Imm thickness of CT graft

Height= REC - KT /-

Zucchelli et al, 2003

















Conclusions

