



Research in Prosthodontics

Current Trends

Angus Walls

President Prosthodontics Research Group

IADR

Prosthodontics



- Better
- Stronger
- Tougher

Prosthodontics



■ Better

- Historical mechanistic approach
- Contemporary approach concerned much more with patient outcomes
 - Quality of life
 - Functional capacity
 - Particularly emphasising nutrition and chewing ability
 - Intervention studies in edentate people and patients with implants

Prosthodontics



- Better
 - Historical mechanistic approach
 - Contemporary approach concerned much more with patient outcomes
 - Quality of life
 - Functional capacity
 - Comfort

Prosthodontics



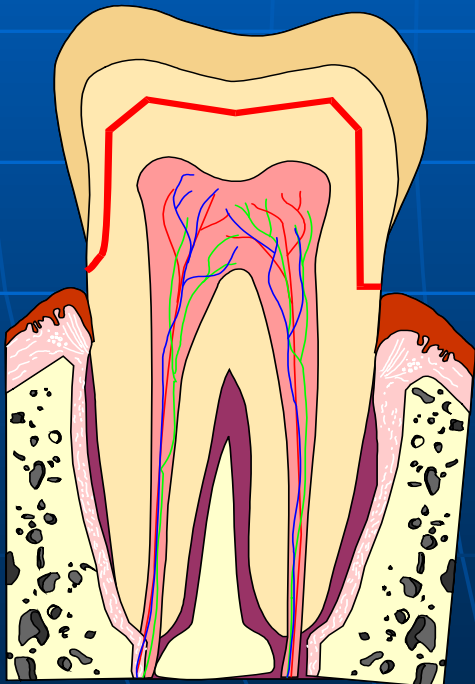
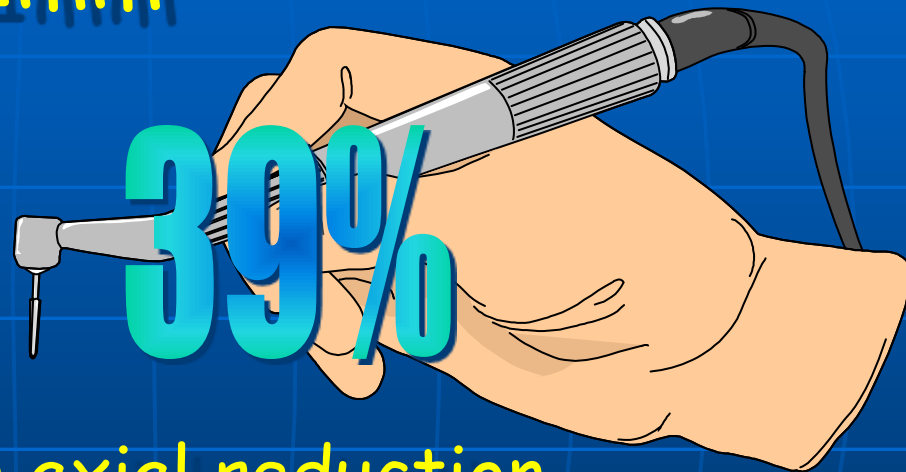
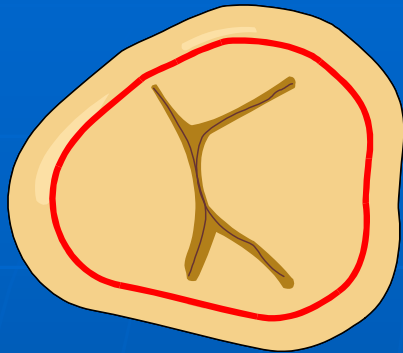
- Stronger
 - Does strength give durability?
 - Tooth tissue

How much is left?

Bicuspid

7mm dia x 6mm tall

231mm³



1mm axial reduction

1.5mm occlusal reduction

Prep. 5mm diameter x 4.5mm tall

89mm³

Prosthodontics



- Stronger
 - Does strength give durability?
 - Tooth tissue

Bonding



Prosthodontics



■ Tougher

- Interfaces between materials and tissues, particularly implanted structures
- Symposium 316-A 11th March
Nanotechnology for Bone-Titanium Integration
- Keynote 321-B, 12th March
Dental Implant Prognostic Factors