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#### **f**

#### – 20% Build-It (various) (Pentron) – 5% MultiCore (various) (Ivoclar – 11% Core Paste XP (DenMat) Vivadent) - 7% Absolute Dentin (Parkell) - 4% LuxaCore (various) (DMG America) - 7% Clearfil Photo Core (Kuraray - 4% CompCore (various) (Premier Dental) Dental) • Opinion: Most important characteristics of core build-up (multiple responses possible) – 81% bond to tooth (see CR comment A) - 70% strength - 61% adaptation - 69% ease of dispensing - 58% reasonable cost – 73% radiopacity - 71% dual-cured - 65% proper viscosity - 41% ParaPost (various) (Coltene) - 8% Flexi-Post and Flexi-Flange – 14% FibreKleer and FibreKor (Pentron) (Essential Dental Systems) (Brasseler USA) - 11% RelyX Fiber Post 3D (3M) - 6% D.T. Light Post (Bisco Dental) Popular post materials - 51% fiber-reinforced composite - 17% titanium alloy – 7% pure titanium – 18% stainless steel (see CR comment B) – 7% carbon fiber – 2% custom cast metal • Opinion: Most important characteristics of posts (multiple responses possible) - 71% reasonable cost (see CR comment C) – 50% proper diameter - 30% shape: tapered - 36% proper length 70% radiopacity - 27% flexibility - 67% strength - 31% shape: parallel sides • **Opinion: When are posts necessary?** (multiple responses possible) (see CR comment D) - 90% tooth with one half or less of - 38% abutment for FPD (fixed dental supra-gingival tooth structure present prosthesis) – 38% canine in canine-guided occlusion - 35% bruxer (canine potentially needing post) - 33% tooth with heavy incisal guidance • Opinion: What are the benefits of using posts? (multiple responses possible) (see CR comment E) - 87% better attachment of core build-up/ - 42% Increase in overall tooth strength

# Core Build-Up

• Do you place core build-up? 90% Yes, 10% No

**CR Survey Data: June 2018** 

#### • Popular brands

### Posts

## • On average, respondents place posts in approximately 1/3 of endodontically treated teeth.

Gordon J. Christensen

• Respondents: 1009 total; 96% general dentist; average 31 years in practice

The Forgotten Retention: Core, Posts, and Pins

#### • Popular brands

- 4% EndoSequence Fiber Post -30 additional brands with  $\leq 2\%$  use - 29% single tooth without adjacent teeth

remaining tooth structure to tooth root

- Pins
- Do you use pins? 55% Yes, 45% No

#### **CR** Comments on Survey Results

- A: Such a high dependence on bond strength of a core build-up to tooth structure may be unrealistic.
- **B**: The nickel content in stainless steel has long been proven to be problematic for allergy-prone patients.
- C: Acceptable radiopacity should be the most important characteristic of posts used. Cost is secondary.
- D: Most clinicians seem to be aware of how insufficient tooth structure can warrant a post. However, many other clinical situations are just as crucial for post placement.
- E: Most clinicians understand how a post can better attach a core to the apical portion of the tooth, although fewer clinicians are convinced of the strength factor. Both effects have been proven clinically.

- 3% Visalys Core (Kettenbach)
- 3% FluoroCore 2+ (Dentsply Sirona)

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-52 additional brands with  $\leq 1\%$  use

CR is the original and only independent dental product testing organization with funding only from dentists!

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