

Corrigendum

Corrigendum to “Biomechanical Evaluation of a Tooth Restored with High Performance Polymer PEKK Post-Core System: A 3D Finite Element Analysis”

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In the article titled “Biomechanical Evaluation of a Tooth Restored with High Performance Polymer PEKK Post-Core System: A 3D Finite Element Analysis” [1], there were some reference and numerical errors in Tables 1 and 2, which should be corrected as follows.

TABLE 1: Mechanical properties of the materials used in the finite element model.

| Materials | Elastic modulus (GPa) | Poisson's ratio | Reference |
|----------------------|-----------------------|-----------------|--------------|
| Cortical bone | 13.7 | 0.30 | [25] |
| Trabecular bone | 1.37 | 0.30 | [25] |
| Periodontal ligament | 0.069 | 0.45 | [25] |
| Dentine | 18.6 | 0.31 | [25] |
| Gutta-percha | 0.00069 | 0.45 | [25] |
| Post cement | 5.0 | 0.30 | [25] |
| Resin core | 20.0 | 0.30 | [25] |
| Fiberglass post | 53.8 | 0.30 | [13] |
| Gold alloy | 95.0 | 0.33 | [14] |
| PEKK | 5.1 | 0.40 | Manufacturer |
| Ceramic crown | 62.0 | 0.30 | [25] |

TABLE 2: Flexural strengths for the different component materials of the model.

| Materials | Flexural strength (MPa) | Reference |
|-----------------|-------------------------|--------------|
| Dentine | 212.9 | [25] |
| Post cement | 97 | [25] |
| Resin core | 90 | [25] |
| Fiberglass post | 1242.5 | [13] |
| Gold alloy | 1545.3 | [28] |
| PEKK | 200 | Manufacturer |
| Ceramic crown | 160 | [25] |

References

- [1] K.-S. Lee, J.-H. Shin, J.-E. Kim et al., “Biomechanical evaluation of a tooth restored with high performance polymer PEKK post-core system: a 3D finite element analysis,” *BioMed Research International*, vol. 2017, Article ID 1373127, 9 pages, 2017.