

**SIMULATED ROOT CANALS MADE OF HYDROXYAPATITE
FOR RESEARCH AND TRAINING USE****Keywords**

- Root canals model
- Endodontic
- Hydroxyapatite
- Dental surgery

**Intellectual
Property**

Priority Patent applied on
May 27, 2015

**Development
Status**

Manufacturing process at
laboratory stage

**Partnership**

License of the patent for
the simulator and its
manufacturing process

Technology

Hydroxyapatite root canal model for Endodontic research and training use.

This model presents equivalent architectures, porosity, hardness as a natural tooth, which allows dental simulation training in « real condition ».

**Benefits**

- Method of preparation simple and reproducible
- Composition close to dentin: based on hydroxyapatite.
- Porosity close to natural dentin: ~ 20%
- Pore diameter ~ 4.5 microns
- Hardness close to natural dentin
- Anatomy close to natural roots
- Radiopacity which allows viewing on radiographs.

Applications

- Evaluation of techniques and/or materials for research purposes in dentistry.
- Training of dental students to techniques and/or materials.
- Study of adhesive systems

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