

**PRINCIPLES OF INTRA CORONAL
CAVITY PREPARATION AND
RADICULAR SPACE PREPARATION**

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Objectives of cleaning and shaping

- 1. To remove and/or eliminate from the root canal, all of its contents that may lead to the growth of micro-organisms or breakdown of toxic products into the periapical space.**
- 2. To remove the irregularities of canal walls as well as obstructions such as calcifications, filling materials etc.**
- 3. To prepare the root canal not only for its disinfection but also to develop a shape that permits the simplest and most effective 3D fitting.**

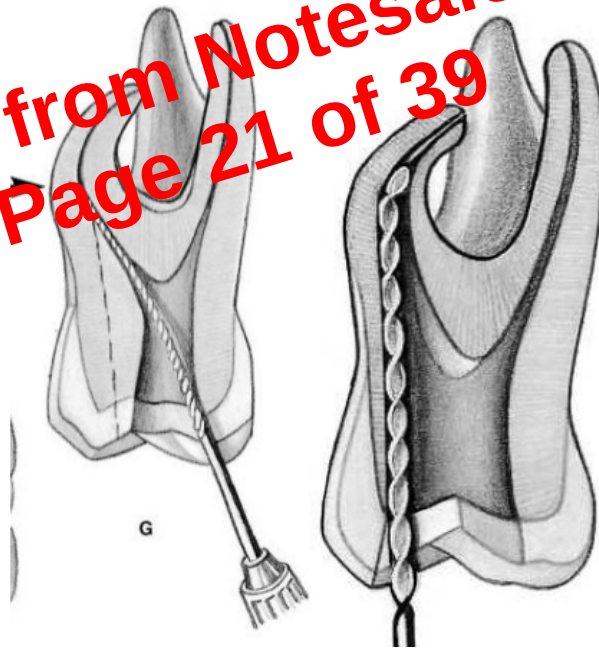
4. Shaping facilitates obturation

- **Shaping facilitates 3-D obturation by removing restrictive dentin**

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Number, Position, and Curvature of Root Canals:

- **To prepare each canal efficiently without interference, the cavity walls often have to be extended to allow an unstrained instrument approach to the apical foramen.**



Cleaning and Débridement of the Root Canal

- 1. The first objective is achieved by skillful instrumentation coupled with liberal irrigation.***
- 2. This double-pronged attack will eliminate most of the bacterial contaminants of the canal as well as the necrotic debris and dentin***

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4. Retention form

- **Near parallel walls in the apical 2-3 mm ensure a snugly fitting G.P. [Apical TUG BACK]**
- **Most crucial for preventing apical leakage.**

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