

## DEVITAL EXTIRPATION AND DEVITAL AMPUTATION: MODERN APPROACHES

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### Abstract

This article discusses the theoretical and practical aspects of devital treatment methods used in the management of pulpitis in dentistry, namely devital extirpation and devital amputation. The indications, contraindications, procedural techniques, as well as the advantages and disadvantages of both methods are analyzed. In addition, the criteria for selecting the appropriate treatment method based on clinical conditions are reviewed.

### Keywords

Devital extirpation, devital amputation, pulpitis, endodontic treatment, dental pulp, devitalization, dentistry

### Introduction

Pulpitis is an inflammatory disease of the dental pulp, most commonly developing as a complication of dental caries. In modern dentistry, preserving pulp vitality is a priority whenever possible. However, in certain cases—particularly in irreversible pulpitis—removal of the pulp tissue becomes necessary.

In such situations, devital treatment methods play an important role. These methods involve chemical devitalization of the pulp tissue, followed by its subsequent removal.

#### Devital Extirpation

Devital extirpation is a method aimed at the complete removal of pulp tissue. Initially, the pulp is devitalized, after which both coronal and radicular pulp tissues are entirely extirpated.

#### Indications:

- Irreversible pulpitis (acute and chronic forms)
- Cases with insufficient anesthesia effectiveness
- “Hot tooth” syndrome
- Presence of systemic conditions limiting the use of certain anesthetics

#### Contraindications:

- Teeth with incomplete root formation
- Allergy to devitalizing agents
- Acute purulent periodontitis

#### Procedure Steps:

1. Diagnosis and preparation of the carious cavity
2. Application of devitalizing paste
3. Placement of a temporary filling
4. After 1–3 days: complete removal of the pulp



5. Mechanical and antiseptic root canal preparation
6. Obturation of the root canal

**Advantages:**

- Reduced pain during treatment
- Technically easier in certain clinical situations

**Disadvantages:**

- Potential toxic effects of devitalizing agents
- Multi-visit treatment

**Conclusion**

Devital extirpation and devital amputation occupy an important place in the treatment of pulpitis. Each method has its own specific advantages and limitations.

Accurate diagnosis, proper evaluation of the clinical situation, and an individualized approach are key factors for successful treatment outcomes.

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