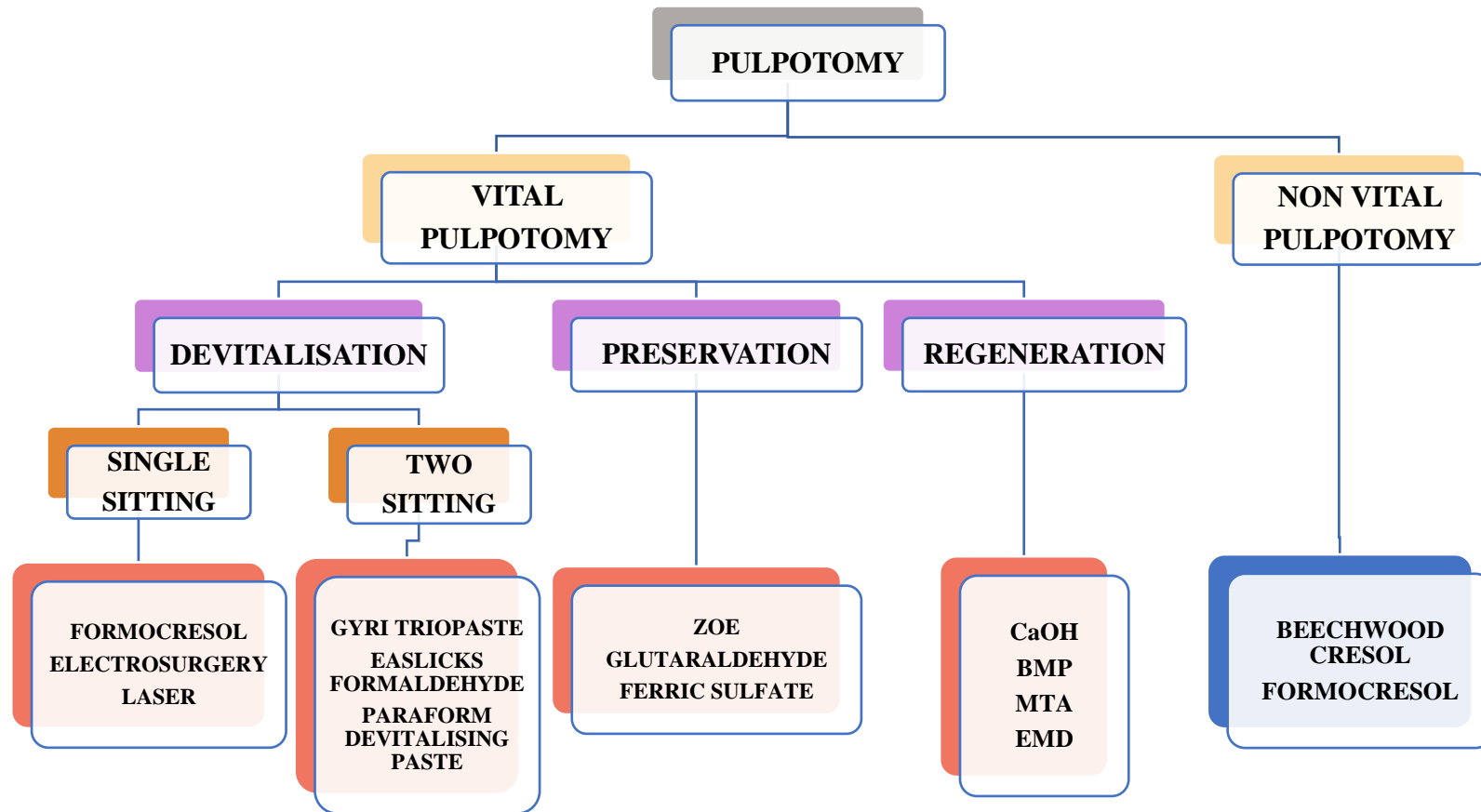


# PULPOTOMY

**DEFINITION:** Complete removal of coronal portion of dental pulp followed by placement of a suitable medicament that will promote healing and preserve vitality of the teeth. (*FINN 1959*)

## CLASSIFICATION:



## PROCEDURE

Anesthetize the tooth and isolate with rubber dam

Remove the carious tooth structure with high speed round bur

Enlarge the exposed area and deroof the pulp chamber

Remove any ledges and overhanging enamel with slow speed bur

### **FORMOCRESOL PULPOTOMY**

Sharp spoon excavators are used to scoop out coronal pulp and pulp remnants

Place a cotton pellet over the pulp stumps in order to achieve hemostasis

Using a cotton pellet apply diluted formocresol to the pulp for 4 mins

Remove cotton pellet and check the fixation

### **ELECTROSURGERY PULPOTOMY**

Electrode was set to 40% power (12 watt). Electric arc - 1 sec followed by 5 sec cool down period

Pulp stumps appear dry and completely blackened

### **LASER PULPOTOMY**

Use diode laser 810nm wavelength set at 3W of power in continuous wave. The laser was delivered through 400 $\mu$ m optical fiber in non-contact mode

Directly apply the beam on amputated pulp stumps with all necessary laser precautions.

Apply till ablation and hemostasis is achieved but not exceeding 2-3min

### **NON-VITAL PULPOTOMY**

Pulp chamber irrigated with saline and dried with cotton pellet

Infected radicular pulp is treated with beechwood cresol

Seal the cavity with temporary cement for 1-2 weeks

Place ZOE cement in the pulp chamber

Recall after one week and restore with permanent restoration if patient is asymptomatic

Place a stainless steel crown