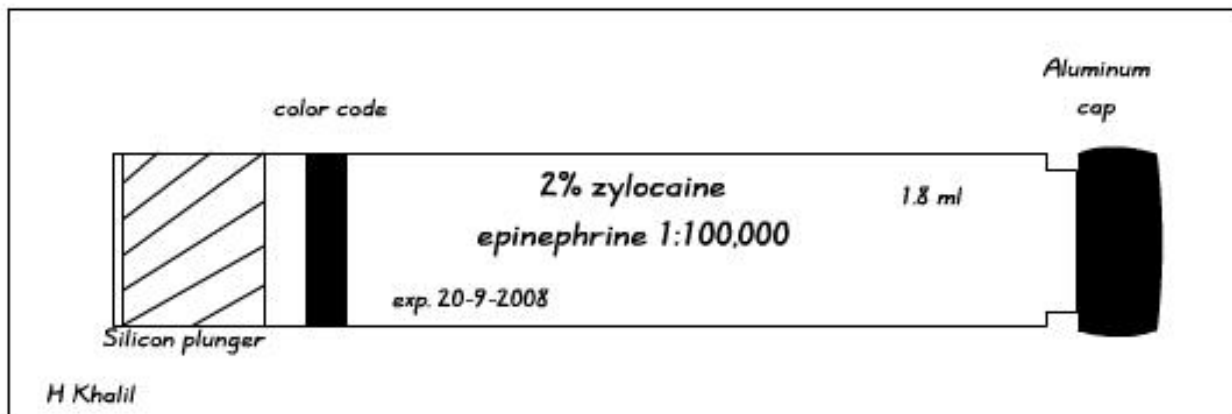


## Clinic

### Local Anesthesia (Instruments)

- **Cartridge** (READ BEFORE YOU USE !!!!!!!!!!!!!!!!!!!!!!!)



- Contents:
  - LA solution (2% ? what does it mean? How to calculate)
  - Vasoconstrictor
  - Water
  - Sodium Chloride (isotonicity)
  - Antioxidant (Sodium Bisulfite)
  - Methylparaben !! (Bacteriostatic, preservative)
- Vasoconstrictor
  - LA is a vasodilator
  - Increase duration
  - Decrease toxicity
  - Decrease bleeding
- pH
  - + vasoconstrictor more acidic (pH= 3.3 -4.0)
  - - vasoconstrictor (pH= 5.5-6.0)