

Local Anesthetics

Composition

- Vasoconstrictor
- Antiseptic (Tyroline mixture: JMI, sodium borate, sodium acetate buffer)
- Sodium hydroxide (Sodium I)
- Sodium chloride (sodium)



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Local Anesthetics Agents



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LOCAL ANESTHETIC AGENTS
color coding

Always identify color for each agent
in order to avoid any confusion

AGENT	COLOR
Articaine - 4% with 1:100,000 Epinephrine	Red
Bupivacaine - 0.5% with 1:200,000 Epinephrine	Green
Chlorbutol	Blue
Prilocaine - 4% with 1:100,000 Epinephrine	Yellow
Proparacaine - 0.5%	Orange
Prilocaine - 4% with 1:100,000 Epinephrine	Light Blue
Prilocaine - 4% with 1:200,000 Epinephrine	Dark Blue
Prilocaine - 4% with 1:400,000 Epinephrine	Light Green
Prilocaine - 4% with 1:800,000 Epinephrine	Dark Green

Always identify color for each agent in order to avoid any confusion

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Agents

Articaine

- Longacting, Metabolized by Hydrolysis in Plasma
- Active in the bloodstream
- Also active in the fat

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Agents

Etomidate

- Metabolized in the plasma in the bloodstream
- Not in contact with organs
- Toxic

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Agents

Other

- Dextrose
- Unique structure

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Local Anesthetics

Vasodilators

- Adrenergic Agents (e.g., Epinephrine)
- Increased duration
- Hemolysis
- Reduced toxicity
- Can cause (all)



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Choices, choices...

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