

LOCAL ANESTHETIC CONSIDERATIONS
(According to Malamed's 7th Edition)

Medical History	Contraindication	Treatment Consideration
Documented LA Allergy (very rare)	Same class LA	LA of a different class
Sulfa drugs	None	Any LA or Topical
Sulfite Allergy	Vasoconstrictor	4% Citanest /3% Scandnest Plain
Atypical Plasma Cholinesterase	Topical with esters (Benzocaine)	Topical amides
Methemoglobinemia	Benzocaine Prilocaine, Oraqix *(in large quantities, all LA's can produce Meth)	Other amide or ester products
Liver Dysfunction (ASA III)	Use Articaine with caution	Other amide product
Renal Dysfunction (ASA III)	none	Amides and esters MAY be used but judiciously
Non-specific beta blockers, MAOI's, Levodopa, Anti-rhythmic drugs, Tricyclic Antidepressants	High concentration of epinephrine (in elderly on TCA's, avoid Levenordefrin as it enhances pressor effect 5X's)	Limit vasoconstrictor; use cardiac dose (.04 mg/appt)
CV Disease (ASA III)	High concentrations of epinephrine	LA with low VC concentration or 4% Citanest Plain
Recent myocardial infarction within 6 mos	Avoid all dental care	N/A
Hyperthyroidism	High concentrations of VC	4% Citanest Plain or LA with 1:200,000
UNCONTROLLED high BP, angina, arrhythmias, hyperthyroidism	Avoid dental care	N/A

Asthma (steroid dependent)	vasoconstrictors	LA with NO vasoconstrictor (ie, Citanest Plain)
Malignant Hyperthermia	None	Amides with vasoconstrictor may be used
Cocaine/Meth/Cannabis users	Relative contraindication to Vasoconstrictor	4% Citanest/3% Scandonest Plain
Clients on Dialysis	Avoid large amts of any LA	Appoint on non-dialysis day as residual heparin may make hemostasis difficult. Next day is usually recommended. Contact the nephrologist!
Pregnancy	None with MD's permission	Conservative approach is Lidocaine/Articaine during second trimester
Breastfeeding	Relative contra-indication to VC's	Articaine due to short shelf-life
Clients taking phenacetin or acetaminophen	Prilocaine (produces elevations in methemoglobin)	3% Mepivacaine (Plain)
Children < 4 years/pediatrics	Oraqix, Articaine (relative contra-indication)	Other amide
Glaucoma (acute narrow angle)	None	LA with or without VC can be used
Clients with Hemophilia	Avoid nerve blocks	Use infiltrations (penetrations are less deep in tissues)
Inflamed & infected areas	LA with epinephrine	LA ineffective due to low PH -> use 3% Mepivacaine Plain (has lowest pka) or 4% Citanest or use a block instead of Infiltration

September 2020