



COMPOUNDING TOPICAL ANESTHETICS

By Melissa Merrell, PharmD, PCCA Director of Formulations and Pharmacy Consultant

There are many procedures and medical situations in which topical anesthetics are necessary. Fortunately, there are many compounding opportunities that are available to help patients and practitioners. Below are commonly requested formulas for these applications.

LASER PROCEDURES (tattoo removal, cosmetic procedures, laser hair removal)	
PCCA Formula #10117	Benzocaine 20%/Lidocaine 6%/Tetracaine 4% Topical Ointment (Plasticized™)
PCCA Formula #5733	Lidocaine 6%/Tetracaine 6%/Benzocaine 4% Topical Gel
PCCA Formula #10129	Lidocaine 7%/Tetracaine 7% Topical Occlusaderm® (Pliaglis®)
NON-LASER PROCEDURES (tattoos, cosmetic procedures, needle sticks, pre-dermatology or skin procedures)	
PCCA Formula #9445	Benzocaine 20%/Lidocaine 6%/Tetracaine 4% Topical Lipoderm® (BUD Study)
PCCA Formula #9872	Benzocaine 20%/Lidocaine 6%/Tetracaine 4%/DMSO 10% Topical Lipoderm® (BUD Study)
PCCA Formula #3927	Benzocaine 20%/Lidocaine 6%/Tetracaine 4%/Phenylephrine HCl 0.01% Topical PLO
DENTAL	
PCCA Formula #9957	Lidocaine HCl 10%/Prilocaine HCl 10%/Tetracaine HCl 4% Dental Gel (BUD Study)
PCCA Formula #9849	Lidocaine HCl 10%/Phenylephrine HCl 2%/Prilocaine HCl 10%/Tetracaine HCl 4% Dental Gel

OPHTHALMIC	
PCCA Formula #3996	Tetracaine HCl 0.25% Ophthalmic Solution
PEDIATRIC (to reduce pain of wound closures)	
A new article was recently published that reviewed the use of topical LET (Lidocaine/Epinephrine/Tetracaine) gel to reduce pain prior to wound closure with tissue adhesive or “skin glue.” The results showed that children aged three months to 17 years who received the analgesic before wound closure reported less pain. ¹	
PCCA Formula #10054	Lidocaine HCl 4%/Tetracaine HCl 0.5%/Epinephrine HCl 0.05% Topical Gel (BUD Study)
PCCA Formula #9242	Lidocaine HCl 4%/Tetracaine HCl 0.5%/Epinephrine HCl 0.05% Topical Spray

For additional information on toxicities associated with the use of topical anesthetics, please refer to the Resources > Documents section of the Members-only Website for **PCCA Document #97181**, Toxicities Associated with Topical Anesthetics (February 2005), and **#98628**, Toxicities of Topical Anesthetics (August 2013).

REFERENCE:

1. Harman S, Zemek R, Duncan MJ, Ying Y, Petrlich W. Efficacy of pain control with topical lidocaine-epinephrine-tetracaine during laceration repair with tissue adhesive in children: a randomized controlled trial. *CMAJ*. 2013 Jul 29.

Always make sure you have checked the PCCA Formula Database and are following the most up-to-date version of a formula as changes are continuously made to existing formulations to provide the highest quality.