

Continue





Nerve	Teeth	Soft Tissue
Inferior alveolar nerve	All mandibular teeth	Buccal soft tissue of premolars, canine, and incisors
Lingual nerve	None	Lingual soft tissue of all teeth
Long buccal nerve	None	Buccal soft tissue of molars
Anterior superior alveolar nerve	Maxillary incisors and canine tooth	Buccal soft tissue of incisors and canine
Middle superior alveolar nerve	Maxillary premolars and portion of first molar tooth	Buccal soft tissue of premolars
Posterior superior alveolar nerve	Maxillary molars except for portion of first molar tooth	Buccal soft tissue of molars
Anterior palatine nerve	None	Lingual soft tissue of molars and premolars
Nasopalatine nerve	None	Lingual soft tissue of incisors and canine



**PERI-OPERATIVE RECORD**  
Page 1 of 3

AFFIX PATIENT INFO LABEL HERE

Patient Name \_\_\_\_\_ MR# \_\_\_\_\_

Date	Patient In Room	Anesthesia Start	Time Out/Procedure Start
_____	_____	_____	_____

Pre-Op Assessment reviewed by Circulating RN  
 H & P reviewed by Circulating RN/Pre-Op Anesthetist

Circulating RN Time: \_\_\_\_\_  
 Anesthetic Name: \_\_\_\_\_  
 Completed: \_\_\_\_\_

**WOUND CLASS**  Clean  Clean/Contaminated  Contaminated  Dirty/Infected

**ANESTHESIA** General  Local  Sedation  General

**LEVEL OF CONSCIOUSNESS** Alert  Other  Deep  Sedated/Unconscious

**EMOTIONAL STATUS** Calm  Cooperative  Nervous  Agitated  Crying

**PHYSICAL / SENSORY DISABILITIES** None  Other

**ALLERGIES** None  (Specify) \_\_\_\_\_

**NPO AFTER MONITORING** Yes  No (Specify) \_\_\_\_\_

**SKIN CONDITION** Intact  Abrasions  Flushed  Dry  Diaphoretic  Eds

**PROSTHETIC DEVICES** None  Other (Specify) \_\_\_\_\_

**DISEASE HISTORY** None  Other (Specify) \_\_\_\_\_

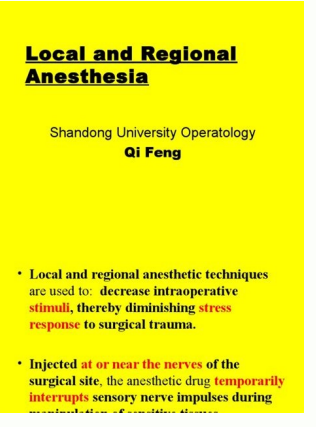
**PRE-OPERATIVE DIAGNOSIS:**  
 \_\_\_\_\_

**OPERATIVE PROCEDURES:**  
 \_\_\_\_\_

**POST-OPERATIVE DIAGNOSIS:**  
 \_\_\_\_\_

Surgeon: \_\_\_\_\_ Anesthesia Provider/Assistant: \_\_\_\_\_  
 Other Personnel/Other Personnel: \_\_\_\_\_

SN 8821 Rev. 01/08 Peri-Operative Record, OR PAGE 1 of 3



Local anesthesia drugs. Local anesthesia mechanism of action. Local anesthesia definition. Local anesthesia dental. Local anesthesia side effects. Local anesthesia classification. Local anesthesia slideshare. Local anesthesia in dentistry.

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For proper administration of local anesthetics, consider the individual characteristics of the patient, dose of local anesthetic to be administered, presence or absence of epinephrine, speed of administration, local tissue vascularity, and technique of administration. In each case, physicians should strive to find the smallest dose possible administered over the longest period of time that achieves adequate anesthesia. Dosages are presented in the table below. Table. Dosages of Local Anesthetics (Open Table in a new window) Drug Onset Maximum Dose (with Epinephrine) Duration (with Epinephrine) Lidocaine Rapid 4.5 mg/kg (7 mg/kg) 120 min (240 min) Mepivacaine Rapid 5 mg/kg (7 mg/kg) 180 min (360 min) Bupivacaine/Ropivacaine/Levobupivacaine Slow/Medium/Medium 2.5 mg/kg (3 mg/kg)/2-3 mg/kg/2.0 mg/kg or 400mg in 24 hrs 4 hours (8 h)/4-6 hours (8-12 h) Procaine Slow 8 mg/kg (10 mg/kg) 45 min (90 min) Chlorprocaine Rapid 10 mg/kg (15 mg/kg) 30 min (90 min) Etidocaine Rapid 2.5 mg/kg (4 mg/kg) 4 hours (8 h) Prilocaine Medium 5 mg/kg (7.5 mg/kg) 90 min (360 min) Tetracaine Slow 1.5 mg/kg (2.5 mg/kg) 3 hours (10 h) The surgeon should calculate the maximum tolerable dose by giving consideration to the dose to be used, patient weight, and any history of heart disease. Although the anesthesiologist is a useful person to consult regarding maximum dose allowable in a particular patient, ultimately, the responsibility of deciding what dose is safe and taking care not to exceed that dose lies with the surgeon. [7, 8] Dilution of the concentration of local anesthetic may aid in decreasing the total dose required to establish adequate anesthesia. Commercial preparations of local anesthetics are typically produced in bottles of 1% or 2% concentrations. These concentrations are higher than those required to produce the desired effect in most individuals. By diluting the solution with sterile injectable saline, the surgeon can decrease concentration to 0.25%, 0.5%, or other concentrations. This provides additional volume for injection over a larger operative field and with the concomitant use of halothane anesthesia. Hypertension may develop in patients with a preexisting history of hypertension or with hyperthyroidism. In some cases, hypertension may be severe and actually trigger a hypertensive crisis. Epinephrine has also been demonstrated to be detrimental to the survival of delayed or expanded flaps, since the new vessels present in these flaps appear to be exquisitely sensitive to the effects of epinephrine. Some authors prefer not to use local anesthetic solutions containing epinephrine on the helix of the ear or nasal ala, although this author has never encountered problems with its use in these locations. Bicarbonate is another drug that is commonly added to local anesthetic solutions, particularly when the patient is awake. Because the pH of local anesthetic solutions is generally 4-5 to prolong shelf life, patients often experience burning on injection. Addition of 1 cc of a 1 mEq/mL solution of bicarbonate for every 9 cc of local anesthetic can alleviate this burning and improve patient comfort. Speed of administration is also important because toxicity develops as a result of peak serum concentration. When multiple areas are to be anesthetized with local anesthetic, inject each site sequentially rather than all at once at the beginning of the procedure. If an area will not be operated on at the beginning of the procedure, wait to inject it until ready to extend the procedure to that site. This spreads the total dose of local anesthetic over a longer period, leading to lower peak serum levels. Tissue vascularity is another important consideration. Nasal mucosa, oral mucosa, the scalp, and the skin of the head and neck have a tremendous blood supply. This leads to rapid absorption of local anesthetics into the serum, which may precipitate an adverse reaction. When working in these areas, inject the area more slowly and wait longer between injections. Technique of injection is important for safety reasons and for patient comfort. Always aspirate before injecting. This prevents inadvertent direct intravascular injection of the local anesthetic, which leads to an abrupt rise in serum levels and may precipitate an adverse reaction. Using the smallest needle possible decreases the pain of injection. The author prefers a 22- or 25-gauge needle for the scalp and a 25- or 27-gauge needle for the face and neck. Warming the local anesthetic solution and injecting slowly decrease patient discomfort, since much of the discomfort is produced by rapid distention of tissues by the volume of the local anesthetic solution. Some surgeons use solutions containing more than one local anesthetic to take advantage of the unique properties of each. For example, using a short-acting local anesthetic with a long-acting one can provide prolonged anesthesia without causing toxicity from either agent. The toxicity of the mixture does not exceed the individual toxicity of each agent; toxicity of multiple agents in a solution is not additive. However, if liposomal bupivacaine is admixed with any other local anesthetics, uncontrolled, immediate release of bupivacaine may result.

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