

COMPLICATIONS AND SIDE EFFECTS

Local Complications

Needle Breakage

Causes

Management

Pain on Injection

Causes

Management

Burning on Injection

Causes

Management

Paresthesia def.: persistent anesthesia

Causes

Management

Trismus def.: prolonged tetanic spasm of jaw muscles by which normal opening of mouth is restricted

Causes

Management

Hematoma def: subdermal hemorrhage (“bruise”)

Causes

Management

Infection

Causes

Management

Edema

Causes

Management

Sloughing of Tissues

Causes

Management

Soft Tissue Injury

Causes

Management

Facial Nerve Paralysis

Causes

Management

Postanesthetic Intraoral Lesions

Causes

Management

Systemic Complications

A. Toxic Overdose

1. Local Anesthetic Overdose

Causes:

Clinical Manifestations:

1. Mild Overdose / *Slow Onset* (≥ 5 minutes following administration)

2. Mild Overdose / *Slower Onset* (≥ 15 minutes following administration)

3. Severe Overdose / *Rapid Onset* (within 1 minute)

4. Severe Overdose / *Slow Onset* (5-15 minutes)

Management

1. Mild Overdose / *Slow Onset*

2. Mild Overdose / *Slower Onset*

3. Severe Overdose / *Rapid Onset*

4. Severe Overdose / *Slow Onset*

2. Epinephrine Overdose

Causes:

Clinical Manifestations:

Management:

B. Allergy

Clinical Manifestations

Dermatologic

Urticaria (hives, wheals)

Edema (swelling)

Pruritis (intense itching)

Erythema (redness)
Respiratory
Bronchospasm
Laryngeal Edema
Generalized Anaphylaxis
Management
Dermatologic Reactions
Delayed
Immediate
Respiratory Reactions
Bronchospasm
Laryngeal edema
Generalized Anaphylaxis
Signs of allergy present
No signs of allergy present
C. Idiosyncrasy
Genetic

NEXT WEEK'S INJECTIONS

1. Inferior Alveolar Nerve Block (IA, mandibular block)
region anesthetized:
needle length:
needle gauge:
volume of anesthetic:
depth of penetration:
2. Long Buccal Nerve Block (Buccal nerve block, LB)
region anesthetized:
needle length:
needle gauge:
volume of anesthetic:
depth of penetration: