

El Dorado County Emergency Medical Services Agency

Quick Reference

Revised Date: July 1, 2020

Medication Profile

Nitrous Oxide (Nitronox, N2O:O2)

Class:

Analgesic gas

Action:

Produces rapid, reversible relief from pain

Onset: 2-5 minutes

Duration: 2-5 minutes

Adult & Pediatric Administration:

Nitrous Oxide is self-administered and can be administered to any age patient that is able to follow instructions and hold mouthpiece/mask.

- 1. Set up equipment outside ambulance
- 2. Explain the procedure to the patient
- 3. Instruct the patient to do the following:
 - a. Hold the facemask securely over nose and mouth
 - b. Breath normally until the pain is relieved
 - c. Discontinue if Patient becomes drowsy or experiences side effects
- 4. Turn off nitrous oxide once patient is secured within ambulance

Higher elevations require higher concentrations of Nitrous Oxide:

Above 4000ft: 60/40Below 4000ft: 50/50

Indications:

Fractures, sprains, soft tissue injuries, burns Amputations

Low back pain (below level of thoracic spine)

Snake bites

Kidney stones

Contact base station for other uses

Contraindications:

Administration in ambulance or small spaces Patient unable to hold mask/mouthpiece

Severe COPD

Decompression Sickness

Head injury

GCS less than 14

Hypotension

Pregnancy

Sedated or intoxicated patients

Pneumothorax

Bowel obstruction

Chronic ear or sinus infection

Chest/upper back pain from any cause

Side Effects:

Hypotension, Dizziness/ lightheadedness, ALOC,

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Nausea/Vomiting

Pregnancy: Category X

Notes:

Nitrous Oxide is a schedule III medication: Controlled substance Act of 1970.