

**ACTION:** Analgesic; produces rapid but reversible pain relief

**INDICATIONS:**

1. Chest pain
2. Musculoskeletal injuries
3. Burns without inhalation injury

**CONTRAINDICATIONS:**

1. Allergy or known hypersensitivity to nitrous oxide
2. Head injuries
3. Decreased level of consciousness
4. COPD
5. Severe maxillofacial injuries
6. Suspected pneumothorax or thoracic trauma
7. Ear infections
8. Distended abdomen, suspected bowel obstruction, or abdominal trauma

**PRECAUTIONS:**

1. NitroNox® is a patient-controlled treatment. Paramedical personnel must not hold it on the patient's face.
2. Is not flammable but will support combustion in the same manner as oxygen.

**ADVERSE REACTIONS/SIDE EFFECTS:**

1. Lightheadedness or drowsiness
2. Blood pressure and pulse tend to remain constant.
3. No effect on pupils

**ADMINISTRATION:**

1. Assure that ambulance is well ventilated.
2. Treatment may be initiated prior to medical control contact.
3. Administer through demand valve mask or mouthpiece held by patient. Administration is triggered by negative pressure generated by patient inhalation.
4. Document start and finish times, and record vital signs during and after treatment.
5. Notify medical control that NitroNox® is being used.
6. NitroNox® is a controlled substance and its use must be documented according to the "Controlled Substance" policy.

**PEDIATRIC CONSIDERATIONS:**

1. Do not give to patients < 12 years without physician order.

**SPECIAL NOTES:**

1. Provides analgesia with minimal anesthesia; 50:50 mixture of nitrous oxide and oxygen.
2. Is equivalent to 15-20 mg of morphine sulfate.