

Medical Oxygen

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| Generic Name: Medical Oxygen |
| Trade Name: |
| Classification: medicinal gas |
| Supplied: compressed gas cylinder |
| Actions (Pharmacodynamics): <ul style="list-style-type: none"> • Colorless, odorless, tasteless gas essential to respiration • At sea level, oxygen makes up approximately 10% - 16% of venous blood and 17% - 21% of arterial blood • Transported from the lungs to the body's tissues attached to hemoglobin in the red blood cells • Inhalation/administration will increase arterial oxygen tension (PaO₂) and hemoglobin saturation |
| Indications: <ul style="list-style-type: none"> • Hypoxia from any cause • Chest pain due to cardiac ischemia to an SpO₂ saturation of < 94% • Altered level of consciousness |
| Dosage: Nasal Cannula: @ 2-6 L/min (Provides 24% - 40% O ₂ concentration) Simple & Pocket Mask: @ 6 – 10 L/min (Provides 40% - 60% O ₂ concentration) Partial/ Non-Rebreather (NRB): @ 10 – 15 L/min (Provides up to 98% O ₂ concentration) Bag-Valve Mask (BVM): @ 10 – 15 L/min (Provides up to 100% O ₂ concentration) Route: Inhalation |
| Contraindications: <ul style="list-style-type: none"> • None for emergency use. |
| Precautions: <ul style="list-style-type: none"> • <i>Respiratory:</i> In some cases of COPD, oxygen administration may reduce the patient's respiratory drive Note: This is not a reason to withhold oxygen, but be prepared to assist ventilations. <ul style="list-style-type: none"> • Oxygen that is not humidified may dry out or irritate mucous membranes |