**Oxygen Delivery**

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| Oxygen Administration Reference Chart | | |
| Method | Flow Rate  (in liters per minute) | % Oxygen Delivered |
| Room Air |  | 21 |
| Nasal Cannula | 1  2  4 | 24  28  31 |
| Face Mask  (simple) | 6  10 | 35-40  40-50 |
| Non-rebreather  Face Mask \*(1) | 12  15 | 80  90 |
| Face Mask with Oxygen Reservoir Bag | 10-12 | 90 |
| Pocket Mask | 10  15 | 50  80 \*(2) |
| Bag Valve Mask | Room Air  12 | 21  40-90\*(3) |
| \*(1) Delivery system of choice for patients with inadequate breathing and patients who are cyanotic, cool, clammy, short of breath or suffering chest pain, suffering severe injuries, or displaying an altered mental status, or being transported.  \*(2) This is accomplished by plugging the breathing port with the thumb while using the oxygen inlet version for supplemental oxygen delivery.  \*(3) Depends on brand of bag valve mask and provisions for occluding room air inlet. | | |
| Notes:   1. Administration rates by nasal cannula of over 4 L/min are uncomfortable. 2. Use humidified oxygen, when possible, on infants, children, suspected respiratory tract burns and transports exceeding one hour duration. 3. Percentages of delivered oxygen listed above are based on optimal conditions. Altitude, equipment, etc. may decrease percentages of delivered oxygen. | | |

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| Oxygen Bottle Volume and Flow | | | | |
| Bottle Size | Volume in Liters | Time  @ 5 L/min. | Time  @ 10 L/min. | Time  @ 15 L/min. |
| D | 360 | 1hr. 12 min. | 36 min. | 24 min. |
| E | 625 | 2 hrs. 5 min. | 1 hr. 3 min. | 42 min. |
| M | 3,200 | 10 hrs. | 5 hrs. | 3 hrs. 20 min. |
| G | 5,300 | 17 hrs. 40 min. | 8 hrs. 50 min. | 5 hrs. 53 min. |
| H | 6.900 | 23 hrs. | 11 hrs. 30 min. | 7 hrs. 40 min. |
| 1. The above values are based on full bottle (2,000 to 2200 psi.) @ 70 degrees F. 2. Allow for pressure drop of 5 psi for every 1 degree drop in temperature below 70 degrees F. | | | | |