

Pulmonary System Conversions

NOTE: For patients on a mask, use what is specified on the venturi mask first.

Conversion Table for FiO₂ when on mask or cannula	
Nasal Cannula	
100 % O₂ flow rate (L/min)	FiO₂ %
1	24
2	28
3	32
4	36
5	40
6	44
Oxygen Mask	
100 % O₂ flow rate (L/min)	FiO₂ %
5-6	40
6-7	50
7-8	60
9	90
10	99+
Mask with Reservoir Bag	
100 % O₂ flow rate (L/min)	FiO₂ %
6	60
7	70
8	80

AARC Clinical Practice Guideline, In Vitro pH and Blood Gas Analysis and Hemoximetry, Respiratory Care, 38:505-510, 1993