Lightning Learning: Oxygen Delivery Devices

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WHAT?

NASAL CANNULAE: low flow O_2 delivery device (0.5-4l)

Higher flows make it uncomfortable for the patient.

VENTURI MASK: designed to entrain a set amount of O_2 and air, which combine to produce a set flow of O_2 (**the % stated on the venturi**)

It is **NOT the l/min** stated on the venturi that is delivered to the patient.

NON-REBREATHER MASK: only use flows 10-15l/min

If lower O_2 flows are used the bag can deflate during inspiration; there will be a lower concentration of O_2 delivered and the patient can re-breathe CO_2

WHY?

NASAL CANNULAE: for patients that require low flow O_2 to maintain saturations.

More comfortable than a mask – does not restrict vision or mouth.

VENTURI MASK: for patients that required a fixed amount of O_2 e.g. COPD where too much O_2 can be dangerous.

Makes weaning O_2 easier – the venturi can be changed to reduce O_2 in a stepwise way.

NON-REBREATHER MASK: for patients with low O_2 saturations requiring high flow rates.

Do not use long term as can cause complications such as O_2 toxicity and reabsorption atelectasis.

HOW?

Non-rebreathing Oxygen Mask *(LITFL)*
http://bit.ly/2qWTexQ

Guideline for Oxygen Administration *(NUH)*
http://bit.ly/2pZqJ4y

Emergency Oxygen Use in Adults *(BTS)*
http://bit.ly/2pqBYPr

Author: Pandora Spilman-Henham *Date: 15.03.17* *Version 1.1*

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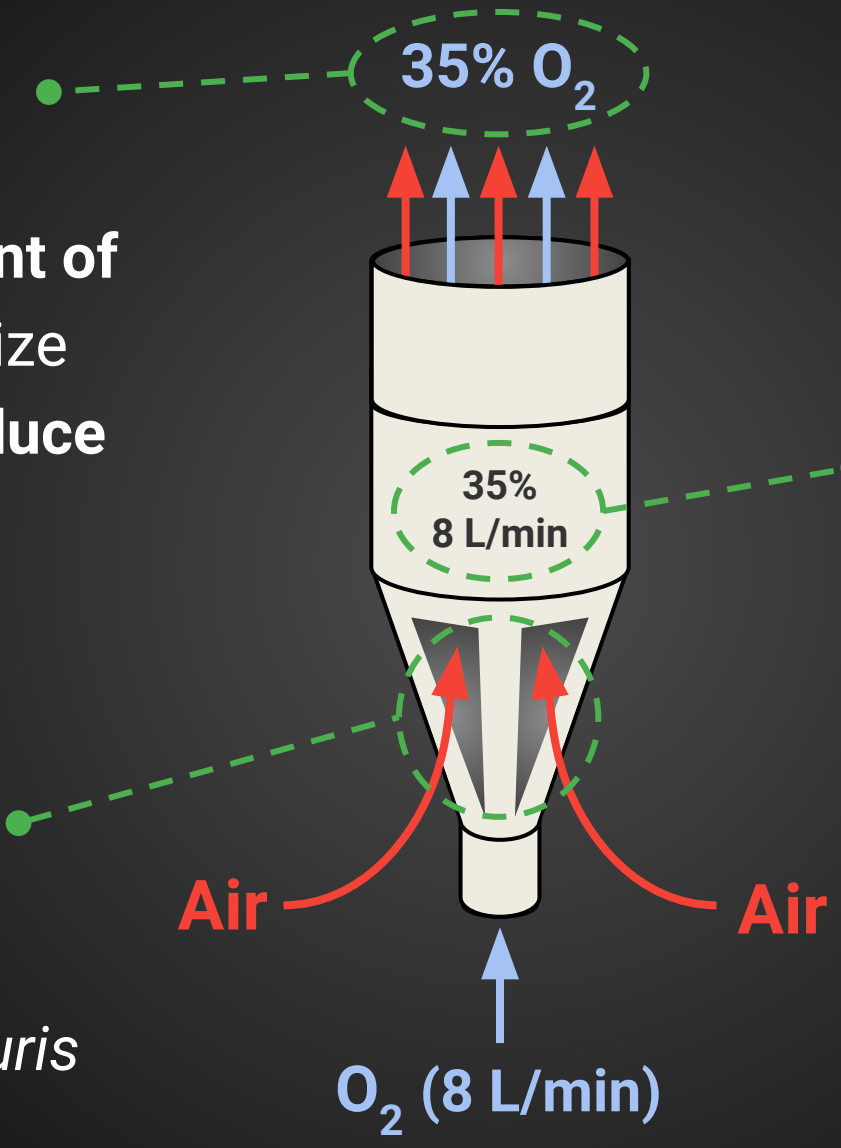
A set flow of *O_2 L/min* **mixes with a set amount of air** (defined by size of inlets) **to produce a fixed** *% O_2*



The flow of *O_2 L/min* **required to produce the specific** *O_2 %*

The size of the inlets for air changes for the different *% venturis*

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