EVALUATION OF OXYGEN BLEED-IN LOCATION DURING CPAP WHEN 

**Introduction**

CPAP is applied with different interfaces to patients. While on CPAP, according to our data there is little difference among the three full face masks studied. Oxygen should be monitored carefully when oxygen is entrained at the CPAP machine. Since the procedure is a closed circuit, does it truly matter where the oxygen is entrained? The purpose of this evaluation was to see if there is a difference in F\textsubscript{O\textsubscript{2}} while on CPAP. If the incorrect F\textsubscript{O\textsubscript{2}} settings. It is crucial that patients receive the correct F\textsubscript{O\textsubscript{2}} pressure (CPAP) with entrained oxygen in the hospital and home. 

**Method**

The effect of bleed-in location was evaluated with two different masks, at four different O\textsubscript{2} saturation, it can be bled into the circuit through the tubing or the mask.

**Results**

Paykel FlexiFit 431 and Respironics Comfort Full 2 via a standard 6 foot circuit. The mask was calibrated with an auto-calibration feature within the unit and allowed to run uninterrupted for 30 minutes. The ResMed VPAP III was connected to a ResMed Ultra Mirage Full Face, Fisher & Paykel FlexiFit 431, Respironics Medium Comfort Full 2, and ResMed Medium Ultra Mirage FF.

Data Collection Procedure

A three point difference in oxygen percentage between the entrainment points. Overall patient change in oxygen liter flow.

**Conclusion**

It is vital that patients receive the correct amount of entrained oxygen while using CPAP. According to our data there is little difference among the three full face masks studied: Home-use CPAP machines deliver set pressures, while on CPAP. As shown in the tables, the F\textsubscript{O\textsubscript{2}} percentage was as follows: the ResMed Ultra Mirage FF, at 5 cm H\textsubscript{2}O, 60% O\textsubscript{2}; at 10 cm H\textsubscript{2}O, 60% O\textsubscript{2}; at 15 cm H\textsubscript{2}O, 60% O\textsubscript{2}; at 20 cm H\textsubscript{2}O, 60% O\textsubscript{2}. If supplemental O\textsubscript{2} is delivered to a patient, s/he has the risk of becoming hypoxemic and increasing the work on the heart. Patients

| Settings for the ResMed VPAP III: CPAP 5, 10, 15, 20 cm H\textsubscript{2}O. If the incorrect F\textsubscript{O\textsubscript{2}} (HR 1101). The ResMed VPAP III was set in CPAP mode.