

## EFFECT OF HYPEROXYGENATION DURING POSTURAL DRAINAGE AND PERCUSSION ON OXYGEN SATURATION IN MECHANICALLY VENTILATED NEONATE.

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The purpose of this quasi-experimental research was to study effect of hyperoxygenation during postural drainage and percussion on oxygen saturation in mechanically ventilated neonate. Purposive sampling was used to select 12 mechanically ventilated neonates whom body-weight were between 1,200-3,000 grams. The 12 mechanically ventilated neonates acted as their own controls in a repeated-measure for two days. Each subject was randomly assigned to the sequence of two methods: hyperoxygenation with an oxygen concentration of 10% higher than baseline level (experimental method) and the same oxygen maintenance level (control method) before and after postural drainage and percussion. All subjects were observed twice each day. The results revealed that the mean oxygen saturation before postural drainage and percussion in both methods were significantly higher than after postural drainage and percussion. The mean oxygen saturation in experimental method was significantly higher than control method before and after postural drainage. Recommendation from the study is that hyperoxygenation with an oxygen concentration of 10% higher than baseline level before postural drainage and percussion is effective in preventing hypoxemia in mechanically ventilated neonates after postural drainage and percussion.

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