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Case Study:
BURN – ENGLERT

APPLICATION OF HIGH- FREQUENCY OSCILLATORY THERAPY IN-LINE

with mechanical ventilator for secretion removal
in burn patients with smoke inhalation injuries

OVERVIEW

Subjects treated with The MetaNeb® System as an adjunct to CPT for at least 48 hours.

- Data collected from ABG samples using PaO_2 and $\text{PaO}_2/\text{FiO}_2$ (P/F) ratio.
- CHFO at 230 cycles/min with manometer pressures at 20–30 cm H₂O initiated.
- Physiological parameters, including delivered tidal volume, respiratory rates and PEEP, are specified.
- Albuterol 2.5 mg with normal saline and 2 ml acetylcysteine 20% administered every 2 hours and 6 hours, respectively, for 48 or more hours.
- Suctioning performed as needed.

6

burn unit patients
with inhalation injury

OUTCOMES

48 hours after initiation of The MetaNeb System treatment:



56% ABGs showed average increase in PaO_2 from 80.5 mmHg to 96.5 mmHg.



302% 5 of 6 subjects had average increase in P/F ratio from 158 to 234.8.



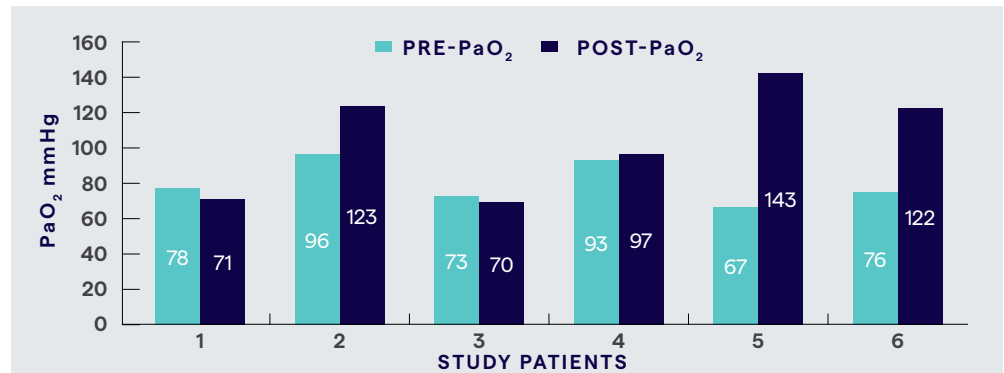
10% FiO_2 requirements average decrease from 0.53–0.48.



All 6 had documented increase in suctioned secretion volume after 24–48 hours of The MetaNeb System.

EVIDENCE

Changes in PaO₂ pre- and post-MetaNeb® System



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For more information, please contact your Hillrom sales representative at 1-800-426-4224.

respiratorycare.hill-rom.com

References

¹ Englert W, Patel P, Morella T, et al. Application of high frequency oscillatory therapy in-line with mechanical ventilator for secretion removal in burn patients. ATS Conference. 2017.

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