

HIGH-FREQUENCY OSCILLATORY VENTILATION AND AN INTERVENTIONAL LUNG ASSIST DEVICE TO TREAT HYPOXAEMIA AND HYPERCAPNIA

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Objective

Case report on combined use of iLA and high frequency oscillation.

Study Design

Case report.

Study Population

1 patient with severe acute respiratory failure after aspirating burning paraffin oil when performing as a fire-eater.

Methods

Measurement of ABG, ventilator settings, clinical course.

Results

Severe ARDS and consecutive renal failure developed within 24 hours after aspiration of burning paraffin oil (paO_2/FiO_2 ratio 10.7 KPa, $paCO_2$ 12 KPa, $pH < 7.2$). HFO was not capable of controlling CO_2 and pH , therefore iLA was initiated to enable lung protective ventilation while normalizing $paCO_2$ and pH . No iLA associate complications occurred during the 13 day treatment with iLA. The patient survived and was discharged from hospital.

Commentary

This case report demonstrates the benefit of combining iLA and HFO in severe acute respiratory failure.

