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Educational questions.

"Host response to mechanical ventilation for viral respiratory tract infection"

1. Which of the following statements is/are true?

Respiratory syncytial virus (RSV) infection does not cause acute respiratory tract illnesses in adults. Almost all children have been infected with RSV at the age of two. RSV infection related respiratory insufficiency is the most frequent cause of non-elective paediatric intensive care unit admission in infants during winter.

2. Which of the following statements is/are true?

Mechanical ventilation induces or aggravates pulmonary inflammation and lung injury. Ventilator induced lung injury results from alveolar and airway overdistension, loss of surfactant and/or mechanical tissue damage. Ventilator induced lung injury is attenuated by hypercapnic acidosis in non-infectious models.

3. Which of the following statements is/are true?

Murine RSV infection induces a robust innate immune response characterized by differential expression of chemokines, interferon responses and antigen processing pathways. The murine host response to RSV infection is characterised by marked enrichment of the innate immune response and stress response pathways. Mechanical ventilation of mock-inoculated mice is characterised by distinct molecular stress and acute inflammatory response.

4. Which of the following statements is/are true for RSV-infected ventilated mice?

Mechanical ventilation aggravates the host innate immune response while adding a distinct molecular stress response. Mechanical ventilation adds a distinct molecular stress response to virus-induced innate immune activation with little interaction. Mechanical ventilation induces a host response dissimilar from spontaneous breathing RSV-infected and/or mechanically ventilated mock-inoculated mice.

5. Which of the following statements is/are true?

Induced hypercapnic acidosis does not modulate ventilator- or virus-induced inflammation in RSV-infected ventilated mice. Induced hypercapnic acidosis attenuates ventilator-induced lung injury in RSV-infected ventilated mice. Virus-induced inflammation is aggravated by induced hypercapnic acidosis in RSV infected ventilated mice.