

Oxygen therapy, artificial ventilation/Repetitorium

 For more information see oxygen therapy, hyperbaric oxygen therapy.

Oxygen therapy

- normobaric – increase in oxygen concentration in the inhaled mixture at atmospheric pressure (101.325 kPa);
- hyperbaric – supply of oxygen under pressure higher than atmospheric (baro chamber).

Dangers of oxygen therapy

1. formation of radicals;
2. decrease in ventilation – especially in patients with high P_{CO_2} , where the main stimulus for breathing was hypoxia; for example, in chronic obstructive pulmonary disease – type "blue bloaters";
3. lung irritation – exudation, congestion, edema;
4. atelectasis – surfactant, as a result of resorption of air from closed spaces, alveoli collapse;
5. convulsions – when breathing O_2 under high barometric pressure – inhibition of enzymes in the CNS.

Artificial ventilation

 For more information see Artificial pulmonary ventilation .

Advantages and disadvantages of volume and pressure controlled UV

- volume-controlled – stable delivery of the determined tidal volume vs. risk of leaks, intrapulmonary pressure changes during compliance changes, barotrauma; decreased venous return and decreased cardiac output;
- pressure-controlled – reaching the specified pressure in the airways (inspiratory pressure level) vs. risk of volume change when compliance changes;
- PEEP (positive end expiratory pressure);
- the possibility of triggering inflation by the patient's efforts.

Terminating UV

Support ventilation

Links

Related articles

External links

https://en.wikipedia.org/wiki/Oxygen_therapy https://en.wikipedia.org/wiki/Hyperbaric_oxygen_therapy

Zdroj

- VÍZEK, Martin. *Repetitorium* [online]. [cit. 2012-01-08]. <<https://web.archive.org/web/20130512032641/http://pf.lf2.cuni.cz/vyuka/repetitorium.html>>.

References

recommended literature

- LONGO, Dan L. (Dan Louis). *Harrison's principles of internal medicine. Volume II, [Chapters 224-397]*. 18. edition. New York, N.Y : McGraw-Hill, Medical Publishing Division, c2012. ISBN 9780071748872.

Recommended reading

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