

Patient/client monitoring at UPV/SŠ (nurse)

Clinical surveillance

- Chest movements:
 - Symmetry of movements - do both sides of the chest rise the same during inhalation?
 - Synchronization with the respiratory cycle of the ventilator - does the curve recorded on the monitor agree with the respiratory manifestations of P/K?
- Skin Color:
 - Cyanosis - peripheral or central?
- Listening phenomena:
 - Wheezing, wheezing, "bubbling" - bronchospasm, development of pulmonary edema .
 - Administration of breathing mixture in case of balloon leakage - foamy sputum from the mouth.
- Engagement of accessory respiratory muscles indicates P/K difficulties with ventilation.

Monitoring gas exchange

- Pulse oximetry, oxygen saturation:
 - Beware of CO or cyanide intoxications → increase oxygen saturation values.
 - Methemoglobinemia - the saturation value is recorded lower than it actually is.
 - Attention to the reduction of peripheral circulation caused by P/K cold, administration of catecholamines or e.g. during fever etc.
- Capnometry and capnography
 - EtCO₂ values are given in different units - kPa, %, mmHg.
 - The capnograph should display a waveform similar to that recorded by the ventilator.
- Investigation according to ASTRUP :
 - Sampling of arterial, capillary, venous blood → the results can be compared, the oxygen consumption of the periphery can be evaluated.



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Monitoring physiological functions

- EKG :
 - Tachycardia occurs during difficulties.
 - Rhythm disorders.
- Blood pressure , hemodynamic invasive monitoring:
 - Increase in blood pressure during exercise, after rehabilitation, etc.
- Breathing frequency:
 - Tachypnea , apnoeic pauses, pathological breathing.
 - Hyperventilation during fevers, tremors, during exertion.
- Body temperature:
 - TT increases during exertion, tachypnea, hyperventilation occurs during fevers.
- State of consciousness :
 - The depth of relaxation, the quality and quantity of consciousness - evaluation of the condition according to the requirements for the ventilation mode.

Technology monitoring

- Recording the values shown by the fan, the monitor.
- Fan synchronization monitoring - P/K.

Links

Related Articles

- Cardiopulmonary monitoring
- Overview of airway management
- Intubation - in children
- Endotracheal intubation
- Difficult intubation
- Tracheostomy
- Coniotomy
- Laryngospasm
- Non-invasive pulmonary ventilation/SŠ (nurse)

- Artificial pulmonary ventilation/SŠ (nurse)
- Oxygen therapy
- PEEP
- Lung volumes

References

- DOSTÁL, Pavel, et al. *Fundamentals of artificial lung ventilation*. 2nd, expanded edition. Prague: Maxdorf Jessenius, 2005. ISBN 80-7345-059-3 Category :high school Nurse Nursing