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ACNS Guidelines Practice Exam Questions With Complete Solutions

Guideline 1: Minimum Technical Requirements for Performing Clinical EEG correct answer: Digital equipment has many advantages over analog equipment and is now used for EEG in most facilities. Some recommendations in this guideline have changed to reflect the greater functionality of digital equipment, including the ability to record good quality signal with nontraditional electrodes and slightly higher impedances. The list of basic patient information has been expanded to include more factors that can influence the EEG. The sections on calibration, sensitivity, filters, and recording montages have been updated to maintain relevance for digital systems. Newly added sections include those discussing the utility of longer recordings, sleep deprivation, and simultaneous video recording. Other new sections include material on photic stimulation procedure, interpreting physician notification of critical EEG results, and data storage.

Guideline 2 for Standard Electrode Position Nomenclature correct answer: Previously guideline 5
Although the 10-10 system of electrode position nomenclature has been accepted internationally for almost two decades, it has not been used universally. The reasons for this and clinical scenarios when the 10-10 system provides additional localizing information are discussed in this revision. In addition, section IV elaborates on situations in which AF1/2, AF5/6, PO1/2, and PO5/6 electrode positions may be used for EEG recording.

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Nursing ANCC Adult Health Clinical Nurse Specialist Certification (ACNS) Sample Questions (Q58-Q63):

NEW QUESTION # 58

Where are most patients extubated after surgery?

- A. patient room
- B. ICU
- C. at home
- D. operating room

Answer: D

Explanation:

Most patients who undergo surgery and require intubation are typically extubated in the operating room or the recovery room. Extubation refers to the process of removing the endotracheal tube, which is used to maintain an open airway and deliver anesthetic gases and oxygen during surgery. This procedure is generally performed once the patient regains adequate respiratory function and consciousness.

The primary reason for choosing the operating room or the recovery room for extubation is to ensure that the patient is still under the care of the anesthesiologist and surgical team, who are equipped to handle any immediate complications that may arise during or after the removal of the tube. These complications can include airway obstruction, hypoventilation, and aspiration, among others. Immediate access to resuscitative equipment and trained personnel is crucial.

In some cases, particularly where the surgery or the patient's pre-existing conditions complicate immediate extubation, the patient may be transferred to the Intensive Care Unit (ICU) with the endotracheal tube still in place. Extubation in the ICU is generally performed when the patient is stable and shows sustained ability to breathe independently and maintain adequate oxygen levels. This is often referred to as "delayed extubation" or "prolonged intubation," and is managed based on a careful assessment of the patient's respiratory function and overall health status.

Extubation in the ICU is also considered when the medical team anticipates potential respiratory complications or when the patient requires closer monitoring that is available in a more controlled environment like the ICU. This approach is part of a broader strategy known as rapid weaning, where the goal is to reduce the time a patient spends intubated to minimize the risks associated with prolonged intubation, such as infections, lung damage, and increased healthcare costs.

In conclusion, while most surgical patients are extubated in the operating or recovery room, some cases require extubation in the ICU. The decision on where and when to extubate is made by the medical team based on the specific needs and condition of the patient to ensure safety and optimize recovery.

NEW QUESTION # 59

Read the following and score the patient's level of consciousness using Glasgow Coma Scale. Eye opening - to pain; Speech - incomprehensible; Motor function - abnormal extension.

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:

The Glasgow Coma Scale (GCS) is an objective tool used by healthcare professionals to assess a patient's level of consciousness after a brain injury. It evaluates three aspects of a patient's responsiveness: eye opening, verbal response, and motor response. Each category has a set of criteria with assigned points based on the patient's ability to respond. The total GCS score can range from 3 to 15, where higher scores indicate better neurological function.

For the category of 'Eye Opening': - Spontaneous eye opening scores 4 points. - Eye opening to verbal commands scores 3 points.

- Eye opening to pain scores 2 points. - No eye opening scores 1 point.

In the category of 'Verbal Response': - Oriented communication scores 5 points. - Confused conversation scores 4 points. - Inappropriate words score 3 points. - Incomprehensible sounds score 2 points. - No verbal response scores 1 point.

For 'Motor Response': - Obeys commands for movement scores 6 points. - Purposeful movement to painful stimulus scores 5 points. - Withdraws from pain scores 4 points. - Abnormal flexion to pain (decorticate response) scores 3 points. - Abnormal extension to pain (decerebrate response) scores 2 points. - No motor response scores 1 point.

In the clinical scenario provided: - The patient's eye opening response is "to pain," which scores 2 points. - The verbal response is "incomprehensible," scoring 2 points. - The motor response is "abnormal extension," also scoring 2 points.

Adding these scores together, the patient's total Glasgow Coma Scale score is 6. This indicates a severe decrease in the patient's level of consciousness, suggesting significant impairment. Such a score warrants immediate medical attention and possibly intensive care to address underlying causes and prevent further neurological damage.

NEW QUESTION # 60

When weaning a patient from mechanical ventilation, you should consider returning the patient to the ventilator if which of the following occurs?

- A. O₂ desaturation by blood gas analysis or pulse oximetry
- B. increasing PaCO₂
- C. all of the above
- D. decreased VT

Answer: C

Explanation:

When weaning a patient from mechanical ventilation, there are several physiological changes and clinical signs that must be closely monitored to determine if the patient is ready to breathe independently or if they should be returned to ventilatory support. The process of weaning should be carefully managed, considering various factors that may indicate the patient's inability to maintain adequate respiratory function without assistance. Here are the key considerations:

****Decreased Tidal Volume (VT):**** Tidal volume is the volume of air moved into and out of the lungs during each respiratory cycle. A significant decrease in tidal volume can be a sign that the patient is struggling to maintain adequate ventilation. This might happen due to muscle fatigue or worsening of the underlying respiratory condition. If the tidal volume falls below a critical threshold, it could lead to inadequate gas exchange and respiratory acidosis, necessitating the return to mechanical support.

****Increasing PaCO₂:** An increase in arterial carbon dioxide (PaCO₂) levels is a direct indicator of hypoventilation. During the weaning process, if the patient's PaCO₂ levels begin to rise, it suggests that they are not able to adequately exhale CO₂ due to reduced respiratory drive or muscle strength. This retention of CO₂ can lead to respiratory acidosis, a dangerous condition requiring immediate intervention, potentially including reinstatement of mechanical ventilation.

****O₂ Desaturation:** Monitoring oxygen saturation is crucial during the weaning process. Desaturation, detected either through blood gas analysis or pulse oximetry, indicates that the patient is not receiving enough oxygen. This could be due to a variety of reasons including inadequate lung mechanics, increased work of breathing, or underlying pulmonary pathology. Persistent low oxygen levels can cause vital organs to suffer from hypoxia, which is detrimental and necessitates reevaluation of the patient's readiness for weaning.

****Other Indications:**** Besides the specific signs mentioned, several other clinical indicators should prompt consideration of returning a patient to ventilatory support. These include the development of new or worsening cardiac dysrhythmias, significant changes in blood pressure or heart rate, or other hemodynamic instability. These changes can reflect the patient's overall struggle or failure to adapt to reduced ventilatory support, indicating that the weaning process may be too aggressive or premature.

****Conclusion:**** When considering whether to return a patient to mechanical ventilation, one must evaluate all these factors collectively. The choice to continue weaning or to reinstate mechanical support should be based on a comprehensive assessment of the patient's respiratory and cardiovascular status, ensuring that the decision supports the best possible outcome for the patient. Thus, when faced with the question of whether to return a patient to the ventilator, considering 'all of the above' reasons is a prudent approach.

NEW QUESTION # 61

How many daily servings of fruit should a patient on the 2,000 calorie ADA diet consume?

- A. 3 servings.
- B. 6 servings.
- C. 2 servings.
- D. 5 servings.

Answer: A

Explanation:

The correct answer for the number of daily servings of fruit that a patient on a 2,000 calorie American Diabetes Association (ADA) diet should consume is 3 servings.

This recommendation is primarily based on the carbohydrate content of fruits. In managing diabetes, controlling carbohydrate intake is crucial because carbohydrates directly influence blood sugar levels. Fruits, while nutritious and rich in vitamins, minerals, and fiber, also contain sugars that contribute to their total carbohydrate content.

A standard serving size is defined as either one small whole fruit, such as an apple or an orange, or ½ cup of canned or chopped fruit. However, it is important to note that the carbohydrate content can vary between different types of fruits. For example, berries typically have less sugar compared to fruits like bananas or mangoes.

To aid patients in adhering to their dietary restrictions without compromising nutrition, healthcare providers often recommend the use of an exchange list. This list categorizes foods with similar carbohydrate, protein, fat, and calorie contents, making it easier for patients to make substitutions in their diet while maintaining the appropriate intake of carbohydrates.

It is also beneficial for patients to spread their fruit servings throughout the day rather than consuming them all at once, to avoid spikes in blood sugar levels. Incorporating fruits into meals or having them as part of snacks is a good strategy to manage blood sugar levels effectively.

Ultimately, while the 3 servings recommendation serves as a guideline, individual needs might vary. Patients should consult with a healthcare provider or a registered dietitian to tailor their fruit intake according to their specific health requirements, dietary needs, and blood sugar control.

NEW QUESTION # 62

Before proceeding with a craniotomy, which drug is normally administered to relax the brain?

- A. Dornase alfa.
- B. Aspirin.
- C. Corticosteroids.
- **D. Mannitol.**

Answer: D

Explanation:

A craniotomy is a surgical procedure where a portion of the skull, called a bone flap, is removed to access the brain. This operation is typically indicated for various reasons, such as to remove brain tumors, alleviate pressure from bleeding or swelling in the brain, or to repair damaged areas.

Before performing a craniotomy, it is crucial to ensure that the brain is as relaxed and as safe as possible from injury during the surgery. One of the medications commonly used to achieve these conditions is Mannitol. Mannitol is an osmotic diuretic, which means it works by increasing the amount of water expelled from the body in the urine. When administered, Mannitol works by drawing excess fluid out of the brain and into the bloodstream. This process reduces cerebral edema, or swelling in the brain, which can occur when the brain is injured or when a tumor is present.

By decreasing swelling, Mannitol effectively reduces the intracranial pressure (ICP), which is the pressure within the skull. Lowering the ICP is crucial during brain surgery because it enhances the safety of the procedure by providing more room for the surgeon to work, minimizing the risk of further brain injury due to compression or other surgical manipulations. Additionally, a relaxed brain allows for clearer demarcation of healthy tissue versus pathological areas, which is particularly important when removing tumors. Mannitol is administered intravenously before and sometimes during the craniotomy to maintain optimal brain conditions. Its effects are rapid, making it an ideal choice in acute settings. However, the use of Mannitol must be carefully monitored as it can also lead to dehydration and electrolyte imbalances, which need to be managed appropriately to avoid new complications.

In summary, Mannitol plays a crucial role in the preparation and ongoing management of patients undergoing a craniotomy, primarily to reduce intracranial pressure and prevent surgical complications by relaxing the brain tissue. This allows for a safer surgical environment and contributes significantly to the overall success of the procedure.

NEW QUESTION # 63

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