

Fundamentals of Endoscopic Surgery (FES) Written Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

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- 1. What does Lugol's solution stain in esophageal tissue?**
 - A. Normative squamous mucosal cells**
 - B. Absorptive intestinal epithelium**
 - C. Neoplastic tissue**
 - D. Glycogen-containing squamous mucosal cells**
- 2. Which technique is associated with the lowest morbidity for CBD stone removal?**
 - A. Laparoscopic transcystic CBD exploration**
 - B. Open CBD exploration**
 - C. Endoscopic retrograde cholangiopancreatography (ERCP)**
 - D. Laparoscopic choledochotomy**
- 3. Which of the following is an indication for PEG placement?**
 - A. Severe dysphagia**
 - B. Management of gastric pyrosis**
 - C. Unable to take enteral nutrition independently**
 - D. Food intolerance**
- 4. In the context of bile duct cannulation, which method has been shown to be beneficial?**
 - A. Random multiple attempts**
 - B. Guided approach with a stent or guidewire**
 - C. Blind cannulation**
 - D. Synchronous approach**
- 5. What is a primary indication for performing ERCP?**
 - A. Esophageal strictures**
 - B. Cholangitis**
 - C. Peptic ulcers**
 - D. Hernias**
- 6. What is the average rate of post ERCP pancreatitis?**
 - A. 1-2%**
 - B. 3-5%**
 - C. 6-8%**
 - D. 10%**

- 7. How should pressure be applied during biliary sphincterotomy?**
- A. Toward the 3 o'clock direction**
 - B. Toward the 11 o'clock direction**
 - C. Directly toward the common bile duct**
 - D. Toward the patient's feet**
- 8. Which patient age category is associated with an increased risk of complications after endoscopic procedures?**
- A. Under 30 years**
 - B. 30-49 years**
 - C. 50-60 years**
 - D. Over 60 years**
- 9. What is the recommended screening timeline for familial adenomatous polyposis (FAP)?**
- A. Starting in early childhood with a single endoscopy**
 - B. Lower and upper endoscopy starting in the early teen years**
 - C. Only colonoscopy at age 25**
 - D. Every 5 years starting at age 50**
- 10. What maneuver helps achieve retroflexion in the rectum during an endoscopic procedure?**
- A. Advancing the scope while twisting**
 - B. Withdrawing the scope into the rectal vault and turning the tip upwards**
 - C. Applying pressure to the colon**
 - D. Rotating the scope clockwise**

Answers

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- 1. D**
- 2. A**
- 3. C**
- 4. B**
- 5. B**
- 6. B**
- 7. B**
- 8. D**
- 9. B**
- 10. B**

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Explanations

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1. What does Lugol's solution stain in esophageal tissue?

- A. Normative squamous mucosal cells
- B. Absorptive intestinal epithelium
- C. Neoplastic tissue
- D. Glycogen-containing squamous mucosal cells**

Lugol's solution is an iodine-based staining agent that reacts specifically with tissues containing glycogen. In the esophagus, the normal squamous mucosal cells, particularly in the stratified epithelium, store glycogen. When Lugol's solution is applied, these glycogen-rich cells will stain a rich brown color, highlighting their presence in the tissue. The staining mechanism of Lugol's solution creates a distinct differentiation that can be useful during histological examinations. This reaction allows for the identification of the normal squamous epithelium of the esophagus, providing critical information about the tissue's glycogen content, which can indicate health or pathological changes. Understanding this specificity can aid in distinguishing between normal physiological conditions and more neoplastic processes, which may not retain the stain in the same manner. Thus, recognizing that Lugol's solution targets glycogen-containing squamous mucosal cells is crucial in interpreting esophageal tissue samples within the context of endoscopic evaluations.

2. Which technique is associated with the lowest morbidity for CBD stone removal?

- A. Laparoscopic transcystic CBD exploration**
- B. Open CBD exploration
- C. Endoscopic retrograde cholangiopancreatography (ERCP)
- D. Laparoscopic choledochotomy

Laparoscopic transcystic CBD exploration is associated with the lowest morbidity for common bile duct (CBD) stone removal due to its minimally invasive nature. This technique allows for access to the CBD through the cystic duct without needing to make a larger incision, which is typical in open surgery approaches. The advantages of this method include a reduced risk of complications such as infection, bleeding, and longer recovery times associated with more invasive procedures. By avoiding a more extensive surgical intervention, patients often experience less postoperative pain, shorter hospital stays, and quicker returns to normal activities. Additionally, the transcystic approach can be performed using laparoscopic techniques that benefit from the advantage of visualization and magnified views of the surgical field, allowing for precise stone retrieval while minimizing damage to surrounding structures. In comparison, while other techniques may also be effective for CBD stone removal, they tend to come with higher associated morbidity levels. For instance, open CBD exploration generally involves a longer recovery period and higher risks of complications. Endoscopic retrograde cholangiopancreatography (ERCP), while useful, can lead to complications such as pancreatitis and infection. Laparoscopic choledochotomy, although less invasive than open surgery, is still more invasive than the transcystic

3. Which of the following is an indication for PEG placement?

- A. Severe dysphagia
- B. Management of gastric pyrosis
- C. Unable to take enteral nutrition independently**
- D. Food intolerance

The rationale for selecting the option related to being unable to take enteral nutrition independently as an indication for PEG (Percutaneous Endoscopic Gastrostomy) placement is grounded in the primary purpose of this intervention. PEG placement is primarily indicated in patients who require long-term enteral feeding but are unable to achieve adequate nutritional intake through oral means. When a patient cannot take enteral nutrition independently due to various conditions—such as neurological disorders, head and neck cancers, or other medical issues—they may need a PEG tube for nutritional support. This method allows for a direct route to the stomach for feeding, bypassing the need for oral intake, which may not be possible due to swallowing difficulties or other contributing factors. Severe dysphagia, while it can be a reason for PEG placement, often depends on the overall context and the patient's specific situation. Many patients with dysphagia can still manage to take some oral nutrition; thus, this condition alone does not automatically necessitate a PEG. The management of gastric pyrosis and food intolerance does not directly indicate the need for a PEG tube, as these conditions may be managed through dietary modifications or medication rather than a surgical intervention for nutritional support. Overall, the option regarding the inability to take enteral

4. In the context of bile duct cannulation, which method has been shown to be beneficial?

- A. Random multiple attempts
- B. Guided approach with a stent or guidewire**
- C. Blind cannulation
- D. Synchronous approach

In bile duct cannulation, the guided approach using a stent or guidewire is considered beneficial because it enhances the likelihood of successful cannulation and reduces the risk of complications. This method provides visual and tactile feedback, which helps the clinician maneuver accurately within the complex anatomy of the bile duct system. By using a guidewire, the operator can navigate through strictures or anomalies more effectively, facilitating the placement of the cannula in the desired location. Utilizing a stent or guidewire also allows for the establishment of access to the duct before attempting further interventions, such as balloon dilation or the passage of therapeutic instruments. This method is particularly advantageous when dealing with challenging cases, where other techniques may lead to failure or injury. Furthermore, the guided approach mitigates the risks associated with random or blind attempts, which can result in complications such as pancreatitis, perforation, or injury to surrounding structures. In contrast, other methods like random multiple attempts or blind cannulation often lack precision and can increase the likelihood of adverse outcomes, making them less favorable choices in clinical practice.

5. What is a primary indication for performing ERCP?

- A. Esophageal strictures
- B. Cholangitis**
- C. Peptic ulcers
- D. Hernias

Endoscopic retrograde cholangiopancreatography (ERCP) is primarily indicated for the diagnosis and treatment of conditions related to the bile ducts and pancreatic duct. Cholangitis, which is an infection of the bile duct usually caused by obstruction (commonly due to gallstones), is a crucial scenario where ERCP is extremely beneficial. The procedure allows for both visualization and intervention to relieve the obstruction, drain infected bile, and facilitate appropriate management, including stone extraction or placement of biliary stents. Cholangitis can lead to severe complications if not treated promptly. Thus, performing an ERCP in this context provides both diagnostic and therapeutic options, making it a primary indication for the procedure. This is distinct from the other conditions listed, as they do not specifically relate to the biliary or pancreatic ductal complications that ERCP is designed to address.

6. What is the average rate of post ERCP pancreatitis?

- A. 1-2%
- B. 3-5%**
- C. 6-8%
- D. 10%

The average rate of post-ERCP pancreatitis falls within the range of 3-5%. This condition is one of the most common complications following Endoscopic Retrograde Cholangiopancreatography (ERCP), which is a procedure used to examine and treat conditions of the biliary and pancreatic ducts. Several factors contribute to the incidence rate of post-ERCP pancreatitis, including the complexity of the procedure, the patient's underlying condition, and techniques used during the procedure. Research has shown that the risk of developing pancreatitis post-ERCP usually aligns with the 3-5% range for average patients undergoing this procedure. This understanding is important for medical professionals as it aids in assessing patient risk and preparing for potential complications during and after ERCP. While higher rates of pancreatitis do exist, they are typically associated with specific patient factors or procedural difficulties, which is why maintaining awareness of the 3-5% average is crucial for clinicians performing ERCPs.

7. How should pressure be applied during biliary sphincterotomy?

- A. Toward the 3 o'clock direction**
- B. Toward the 11 o'clock direction**
- C. Directly toward the common bile duct**
- D. Toward the patient's feet**

Applying pressure during biliary sphincterotomy is essential for successful cannulation and to effectively manage any resistance that may occur. In this procedure, directing pressure toward the 11 o'clock direction is optimal because this positioning helps to lift the ampulla of Vater and provides better access to the common bile duct. This technique facilitates the entry of instruments through the duodenum and aligns the sphincterotomy with the anatomy of the biliary system, ensuring that the process is effective. Proper placement of pressure in this direction minimizes the risk of complications and enhances the likelihood of successful ductal access. In contrast, applying pressure in other directions may not achieve the same anatomical alignment or could create unnecessary complications. For instance, directing pressure toward the 3 o'clock position may impede access rather than facilitate it, while directing it directly toward the common bile duct can risk injury to surrounding structures. Similarly, pressure towards the patient's feet is not anatomically conducive during this type of procedure. In summary, utilizing the 11 o'clock direction during biliary sphincterotomy maximizes access and safety, aligning with the intraoperative anatomical considerations critical for a successful outcome.

8. Which patient age category is associated with an increased risk of complications after endoscopic procedures?

- A. Under 30 years**
- B. 30-49 years**
- C. 50-60 years**
- D. Over 60 years**

The association of increased risk of complications after endoscopic procedures with the patient age category over 60 years can be attributed to several physiological and health-related factors that accompany aging. Firstly, older adults often have multiple comorbidities, such as cardiovascular diseases, diabetes, and respiratory conditions, which can complicate not only the procedure itself but also recovery and postoperative care. The presence of these conditions can increase the likelihood of adverse events, such as bleeding, infection, or respiratory issues. Secondly, anatomical and physiological changes that occur with aging can complicate endoscopic procedures. Older patients may have reduced elasticity and vascularity of their tissues, which can lead to greater fragility and a higher risk of perforation or bleeding during manipulation. Furthermore, elderly patients may have more intricate variations in anatomy, which can present additional challenges during an endoscopic approach. Finally, older patients may respond differently to sedation and anesthesia, often requiring more careful titration and monitoring. This can make the procedural planning more complex and increase the risks associated with sedation-related complications. In summary, the increased risk of complications in patients over 60 years of age is primarily due to a combination of comorbidities, anatomical changes, and altered pharmacokinetics, necessitating a careful

9. What is the recommended screening timeline for familial adenomatous polyposis (FAP)?

- A. Starting in early childhood with a single endoscopy**
- B. Lower and upper endoscopy starting in the early teen years**
- C. Only colonoscopy at age 25**
- D. Every 5 years starting at age 50**

Familial adenomatous polyposis (FAP) is a hereditary condition that significantly increases the risk of colorectal cancer due to the development of numerous polyps in the colon and rectum. The recommended screening timeline for individuals at risk of FAP involves early and regular evaluations to detect and manage these polyps effectively. Beginning screening in the early teen years with both lower and upper endoscopy is crucial. This age range is typically when polyps begin to develop, and early intervention can prevent progression to cancer. By regularly conducting both lower and upper endoscopies during this period, healthcare providers can monitor for polyp formation, remove any existing polyps, and provide appropriate surveillance. Screening protocols emphasize the importance of early detection and intervention in this high-risk group, as the polyp burden often increases dramatically with time, making it imperative to establish a proactive screening routine. Regular endoscopic evaluations ensure that changes can be managed timely, significantly lowering the risk of colorectal cancer associated with FAP.

10. What maneuver helps achieve retroflexion in the rectum during an endoscopic procedure?

- A. Advancing the scope while twisting**
- B. Withdrawing the scope into the rectal vault and turning the tip upwards**
- C. Applying pressure to the colon**
- D. Rotating the scope clockwise**

The maneuver that helps achieve retroflexion in the rectum during an endoscopic procedure involves withdrawing the scope into the rectal vault and turning the tip upwards. This action allows the endoscope to flex back while simultaneously navigating the anatomical curvature of the rectum. By elevating the tip of the scope, the clinician can visualize the rectal anatomy more thoroughly and assess for any pathologies that may be present in the posterior wall or upper rectal region. Understanding the anatomy is crucial, as the rectum has a natural curvature which requires specific maneuvering to visualize effectively. Proper retroflexion enables better evaluation and intervention in a rectal examination, fostering successful outcomes in diagnostic and therapeutic procedures. Other methods of maneuvering may assist in certain procedural aspects, but they do not provide the same degree of retroflexion necessary for adequate visualization in the rectum as effectively as withdrawing and angling the scope.