American Board of Colon & Rectal Surgery

November 2016

Instructions For Question Writers
# American Board of Colon and Rectal Surgery

## Instructions for Question Writers

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Introduction

The preparation of good examination questions is much more difficult than most critics think. The natural tendency of new question writers is to prepare questions that are extremely difficult and which test small bits of obscure, rare information. Questions of this nature perform very poorly. Likewise, questions that are too easy perform poorly because they don’t discriminate between test takers. This guide has been designed to help question writers prepare better questions and incorporate question theory as well as validity in question writing. Please review this guide carefully prior to writing your question as it contains important information that should be taken into consideration during the question writing process.

Guidelines for Submitting Items

1. Review this entire booklet before beginning your assignment.

2. The items you are writing and reviewing are secure materials and should not be discussed with, or shown to, others. Please keep your items in a secure place, such as a locked file cabinet, when you are not working with them.

If you have any questions, please contact:

Crystal Jacobs
The American Board of Colon and Rectal Surgery
20600 Eureka Road, #600
Taylor, MI  48180
Phone: (734) 282-9400    Fax: (734) 282-9402
Email:  cjacobs@abcrs.org
Instructions for Entering Assigned Question on Website

1. Go to www.abcrs.org

2. Click on “Login Services”

3. Enter your Username and Password

4. Click on the “Write/Edit/View Written Exam Questions” link in the upper left corner

5. You will see the question template and the topics that have been assigned to you. All new questions numbers are designated “Temp”

6. Click on the question number to create your question
   
   ● Select a “Category” from the drop-down list
   ● Enter the “Key Concept” in the appropriate box
   ● Enter the stem in the “Question” box
   ● Enter at least two references in the “References” box
   ● Enter the correct answers and three distracters in the “Answer” boxes
   ● Click on the radio button next to the correct answer to highlight

7. If images are included, click “Browse” to add the image

8. If you have not completed your question and wish to make additional revisions at a later time, click on “Save Only”. This will allow you to re-enter the question.

9. To return to the “Manage Questions” page, click “Close Window”

10. After you entered and reviewed all the information, click “Submit for Review.” Please note: Once you’ve officially submitted your question, you will no longer be able to edit it.

11. To view the number of assignments you received/submitted, click on the “My Assignments” button in the upper left hand corner of the “Manage Assignments” window.

12. **Important** Please remember to update your information listed on your “Profile Tab”. This information must be current in order for us to communicate with you in a timely manner.
One of the first things you are asked to do when you create a question in the database is to select a “category” that is assigned to that question. The category delineates the educational pillar the subject is covered under as well as potential subcategories as outlined below. Normally you will receive an assignment to write questions for a specific category/subcategory but if you are writing a question outside of your assignment you will need to be familiar with this classification. It is available in a drop down menu as you begin the initiation of the question writing process.

1. **Perioperative considerations and colonoscopy**
   a. Prophylaxis (cardiac, VTE, SSI)
   b. Bowel Prep
   c. Pharmacology, fluids and electrolytes
      i. Antibiotics
      ii. Local anesthetics
      iii. Conscious sedation
      iv. Pain control (epidural, PCA, NSAIDS)
   v. Enhanced Recovery Pathways and principles
   vi. Ileus prevention
   vii. Electrolyte imbalances
   d. Intraoperative complications
      i. Hypotension
      ii. Ventilation issues
      iii. Hypercarbia and laparoscopy
      iv. Bleeding
   e. Colonoscopy
      i. Bowel prep
      ii. Screening
      iii. Tattooing/marking
      iv. Polypectomy indications
      v. Pedunculated polyps/Haggitt’s levels
      vi. Sessile polyps/lift techniques
      vii. Complications
         1. Perforation
         2. Bleeding

2. **Anorectal**
   a. Hemorrhoids
      i. Etiology/pathogenesis
      ii. Non-operative management (banding, infrared, sclerotherapy)
      iii. Operative treatment and complications
      iv. Pregnancy
      v. Immunocompromised patients (leukemia, cirrhosis)
      vi. Complications
         1. Pelvic Sepsis
         2. Bleeding
   b. Anal Fissure
      i. Etiology/pathogenesis
      ii. Nonoperative treatment
      iii. Operative strategies
iv. Concomitant fissures/suppuration
v. Complications
c. Abscess/fistula
   i. Etiology/pathogenesis
   ii. Assessment in office/OR
   iii. Drainage strategies—office/OR
   iv. Fistula location/assessment
   v. Rectovaginal fistula
   vi. Fournier’s gangrene
   vii. Hidradenitis
d. Pilonidal Disease
e. Pruritis ani and dermatoses (idiopathic, lichen planus sclerosis)
   i. Etiology
   ii. Diagnosis
   iii. Medical treatment
f. Sexually transmitted diseases
   i. Bacterial (chlamydia, syphilis, gonorrhea)
   ii. Viral (HPV, LGV, HIV, HSV)
g. Anorectal trauma
   i. Foreign body
   ii. Childbirth injury/perineal laceration (acute)

3. Pelvic Floor, Fecal Incontinence, Lower Gl motility/Constipation
   a. Fecal incontinence
      i. Evaluation (assessment of severity)
      ii. Non-operative treatment (biofeedback)
      iii. Operative therapy (overlapping sphincteroplasty, sacral nerve stimulation)
   b. Rectal prolapse
      i. Etiology/pathogenesis
      ii. Diagnosis and workup of problem
      iii. Operative treatment
         1. Transanal approaches
         2. Transabominal approaches
      iv. Complications
      v. Recurrence
   c. Solitary Rectal Ulcer
      i. Diagnosis
      ii. Treatment
      iii. Complications
   d. Obstructed defecation
      i. Rectocele
         1. Diagnosis and Evaluation
         2. Treatment (operative and non-operative)
      ii. Paradoxic puborectalis syndrome and levator ani syndrome
         1. Diagnosis and evaluation
         2. Treatment
   e. Constipation
      i. Functional constipation
      ii. Slow transit constipation
         1. Evaluation and diagnosis
2. Treatment/indication for surgery

4. Benign Disease and IBD
   a. Crohn’s Disease
      i. Evaluation and Diagnosis
         1. Pathology
      ii. Medical management
      iii. Nutrition
      iv. Anorectal Crohn’s
         1. Abscess
         2. Fistula
         3. Fissure
         4. Complications of surgery
   v. Small Bowel and Crohn’s
      1. Duodenal Crohn’s
      2. Surgery
      3. Short gut
      4. Complications of surgery
   vi. Colonic Crohn’s
      1. Surgery
      2. Complications of surgery
   vii. Extraintestinal manifestations
   b. Ulcerative Colitis
      i. Evaluation and diagnosis
         1. Pathology
         2. Surveillance
         3. Indeterminate colitis
         4. Infectious complications
      ii. Medical management
      iii. Nutrition
      iv. Cancer risk
      v. Surgery
         1. Indications
         2. IPAA
            a. Contraindications
            b. Complications
            c. Pouchitis
      vi. Extraintestinal manifestations
   c. Infectious Colitis
      i. C. difficile
         1. Medical management
         2. Surgical indications
      ii. Other infectious colitidies
         1. CMV
         2. Tuberculosis
         3. Campylobacter
         4. Yersinia
         5. Salmonella
   d. Radiation Enteritis
      1. Radiation proctitis
   e. Neutropenic enteritis
1. Typhlitis
f. Diversion colitis
g. Microscopic colitis
   1. Lymphocytic
   2. Collagenous
h. Ischemic colitis
i. Diverticular Disease
   i. Diverticular disease
      1. Etiology and pathogenesis
      2. Epidemiology
   ii. Diverticulitis
      1. Uncomplicated
         a. Medical management
         b. Indications for surgery
      2. Complicated
         a. Medical management
         b. Surgical management
i. Perforation
ii. Abscess
iii. Fistula
iv. Chronic persistent
j. Appendicitis
   i. Acute
   ii. Chronic
   iii. Crohn’s
k. Bowel Obstruction
   i. Small bowel obstruction
   ii. Large bowel obstruction
      1. Evaluation and diagnosis
      2. Etiology
         a. Cancer
         b. Diverticulitis
         c. Stercoral obstruction
         d. Endometriosis
         e. Volvulus
            i. Cecal
            ii. Sigmoid
         f. Pseudo-obstruction (Ogilvie’s)
      3. Colonic stent
      4. Surgery
l. Endometriosis
   i. Obstruction
   ii. Bleeding
m. Stomas
   i. Ileostomy
      1. High output
      2. Obstructed
   ii. Colostomy
      1. Retraction
      2. Ischemia
n. Lower GI Bleed
5. **Neoplasia**
   a. Colon cancer
      i. Incidence
      ii. Etiology
      iii. Epidemiology
      iv. Diagnosis
      v. Staging
         1. Pathology
            a. Histopathologic markers
            b. Mismatch repair testing
            c. K-ras
            d. BRAF
         2. Imaging
      vi. Surgical therapy
         1. Complications
         2. Locally advanced
         3. Recurrent
            a. Anastomotic recurrence
            b. Retroperitoneal recurrence
         4. Chemotherapy
   b. Rectal Cancer
      i. Incidence
      ii. Etiology
      iii. Epidemiology
      iv. Diagnosis
      v. Staging
         1. Pathology
         2. Imaging
      vi. Early stage rectal cancer
         1. Surgery
            a. Local excision
               i. Neoadjuvant chemotherapy and radiation
            b. Radical resection
         2. Complications
         3. Local recurrence
      vii. Advanced rectal cancer
         1. Neoadjuvant chemotherapy and radiation
         2. Surgery
            a. Low anterior resection
               i. Complications
               ii. Function
b. Abdominoperineal resection
   i. Complications
   ii. Tissue Flap
  c. Local invasion
d. Recurrent
viii. Metastatic colorectal cancer
   1. Liver metastases
   2. Multivisceral metastases
   3. Palliation
c. Hereditary Colorectal Cancer
   i. Lynch Syndrome/HNPCC
      1. Diagnosis
      2. Incidence
      3. Genetics
      4. Surgery
      5. Extra-gastrointestinal manifestations
   ii. Familial Polyposis
      1. Diagnosis
      2. Incidence
      3. Genetics
      4. Surgery
      5. Extra-gastrointestinal manifestations
         a. Desmoids
   iii. MYH
   iv. Peutz-Jaegers
d. Anal Neoplasms
   i. AIN
   ii. Paget's Disease of the Anus
   iii. Squamous cell carcinoma
      1. Chemotherapy and radiation
      2. Surgery
      3. Recurrence
   iv. Melanoma
e. Desmoids
f. Presacral tumors
   i. Benign
   ii. Malignant
   iii. Complications
g. Small bowel neoplasms
   i. Carcinoid
   ii. Gastrointestinal stromal tumor
   iii. Lymphoma
   iv. Appendiceal

6. Miscellaneous
   a. Statistics
   b. Quality
   c. Ethics
d. Patient safety


**Writing an Effective Key Concept**

The anchor to writing an acceptable question is having an effective key concept. The key concept is a statement of fact upon which the stem and distractors are based. The key concept should have a subject (i.e. the clinical problem) and action (i.e. the treatment). Key concepts are those that experts in the field agree should be common knowledge for board certified physicians. The key concept should be concise and definitive.

Common Difficulties with the Key Concept:

a) Incomplete subject/action  
   a. Treatment of anal fissure (unacceptable) → the treatment of a chronic anal fissure is lateral internal sphincterotomy (acceptable)  
   b. Adjuvant chemotherapy for colon cancer → Resected Stage III colon cancer is treated with adjuvant chemotherapy

b) Verbose/Esoteric  
   a. The treatment of colon cancer in patients with no metastatic disease based on preoperative CT scan, and elevated preoperative CEA and a first degree relative is surgery → The treatment of resectable nonmetastatic colon cancer is segmental colectomy

b) Controversial  
   a. The treatment of FAP is prophylactic two stage restorative proctocolectomy

Examples of acceptable Key Concepts:

- The treatment of prolapsed, incarcerated gangrenous hemorrhoids is excision
- Stapled hemorrhoidopexy is associated with a higher rate of early recurrence compared to hemorrhoidectomy at one year.
- A minimum of 12 lymph nodes should be resected/examined for colon cancer for acceptably staging accuracy.
- Optimal resection of a colon cancer includes resection of a segment of colon with a 5 cm margin and en bloc mesorectal excision of the complete nodal basin with high ligation.
- Injury to nervi erigentes at level of middle hemorrhoidal artery will lead to erectile dysfunction.
- Gaining length for a pouch to reach may involve mobilization to the 3rd portion of the duodenum, serial “scoring” of the mesentery, and selective division of the mesenteric arcades, along with change in pouch configuration from J to S-pouch.

**Writing an Effective Stem**

As a question writer for the American Board of Colon and Rectal Surgery, your goal should be to provide the highest-quality test material possible to ensure that all examinees that become certified are knowledgeable in our field, not just test-wise. Well-written and appropriately edited examination material is critical for all examinees to demonstrate the depth and breadth of their knowledge.
Writing high-quality, effective test questions is difficult. In fact, many test questions we have been exposed to are NOT well written. This can include questions that appear on elementary school tests, as well as on recent continuing medical education examinations. When basic question writing principles are not used, test questions may be confusing or otherwise unclear, verbose, esoteric, or not as effective as they could be. These instructions can help you avoid these problems when writing questions for The American Board of Colon and Rectal Surgery.

This Question Writing Guide provides instruction in effective question writing. It gives samples of questions that are well constructed as well as those that are not. Because the Examination Committee does not accept most flawed questions, the time you spend writing them is wasted. Therefore, the extra effort you put toward well-constructed questions not only expedites the review process, but also improves the quality of the examination and helps ensure the qualifications of the candidates who pass.

**Application of Knowledge**

What is application of knowledge?

Test questions can be written in two basic ways. By requiring:

1. Mere recall of facts (1st order)
2. Application of knowledge to answer the question (2nd order)

A question requiring application of knowledge (2nd order) provide a specific scenario and asks the examinees to apply their knowledge in interpreting this information and recalling appropriate facts to determine the correct answer. In contrast, recall questions (1st order) simply require knowledge of isolated facts to determine the correct answer. While a written exam will certainly include questions that require recall of facts, it also requires application of knowledge (2nd order questions).

How do you write a 2nd order question?

One of the most common approaches to writing this type of question involves composing a clinical vignette. The vignette should provide some or all of the following information: initial symptoms, underlying conditions, other appropriate clinical findings, and appropriate laboratory studies. The lead-in for this type of question would ask a question pertaining to diagnosis, management, related findings, or other information. This type of question requires an examinee to apply his or her knowledge, as would be done in a clinical situation. The largest flaw with a second order question is including information that is not required to answer the question. Information should be included if it is important to answer the question or provides clarifying information required to answer the question.

Questions that test application of knowledge should be structured to ask for a specific piece of information and are driven by the key concept. The STEM can be structured to ask for:
► Associated clinical findings
► Optimal treatment
► Implications of a given clinical decision
► Complications of a disease process or treatment

Writing A-Type Items

An A-type question utilizes the multiple-choice format, which involves a single best answer. Four answer choices should be provided (one correct answer and three distractors), with there being only one best answer as agreed upon amongst experts in the field. While the distractors may be partially true, the single best answer must be the most appropriate response. Options should be lettered A, B, C, and D.

Basic Rules

1. **The key concept drives the STEM and options.** Key concepts should involve situations that would be encountered in a typical practice. Avoid trivial, tricky, or unnecessarily complex key concepts.

2. **Focus the STEM on testing application of knowledge, not an isolated fact.** Using a clinical vignette provides a good background for testing application of knowledge.

3. **Write a STEM that is focused, and poses a clear question.** The examinee should be able to formulate an answer to the question without looking at the options. If the examinee must read every option to gather additional information before being able to answer the question, the item is not well focused and should be rewritten.

4. **Write options that are homogeneous, with all options falling into the same category as the correct answer** (e.g., all diagnoses, treatments, associated conditions, etc.). All distractors should be viable; they should all be grammatically consistent, logically compatible, and approximately the same length. If the answers involve therapeutic options, generally they are listed from least to most invasive.

5. **Write the stem to contain all the information needed to answer the question.** Options should be relatively short and should not contain additional background information, only the completion of the statement or question posed in the stem. The examinees should be able to formulate an answer the question without looking at the options.

6. **List options in logical or alphabetical order.** For example, questions asking for procedures should start with least invasive and work down to most invasive procedures. Diagnoses can be listed alphabetically.

   Do NOT write any items asking “Which of the following is true?” or “Each of the following is true EXCEPT” these items are almost always unfocused with options that are not homogeneous and will not be accepted by the board.

If your questions follow all of these rules, they most likely are well phrased and focused on an appropriate subject.
Avoiding Common Question Flaws

A number of question flaws can benefit test-wise examinees. People who are not candidates for this examination should not be able to answer the questions correctly on the basis of their construction alone. Typical item flaws include:

✓ **Absolute terms** in options, such as *always, never, or only*

✓ **Subjective and nonspecific terms** such as *may, might, can, could, common(ly), frequent(ly), usually, sometimes, and rarely*; these terms are too vague to be used for questions with one best answer and have different meanings to different people. Adding the term “most” to frequent or likely (e.g., The **most likely diagnosis**) actually helps focus and clarify the item.

✓ **Logical clues**, or giving a subset of options that allows the examinee to rule out the distractors

✓ **Repetition of words or phrases** in the stem and options (this refers to the test taking jargon as “clanging”)

✓ **Making the correct option the longest one.** The most detailed option is usually the correct answer.

✓ **Grammatical clues.** An option that does not grammatically fit the stem is usually not the correct answer.

✓ **Convergence.** The correct answer includes elements that are common to the distractors.

✓ **Unnecessary difficulty.** Tricky or complicated stems; long, complicated options – remember options should be of the same length.

✓ **Negative terms** in stem or options, which require reverse thinking, should not be used. Use of negative terms in options, especially in association with a negatively phrased question (Each of the following EXCEPT) can be confusing and tricky. In many cases, options with negative terms are not homogeneous.

Use only one term or concept per option. Using “and” or “or” in the stem or some options is either asking more than one question or asking for more than one answer. In options, these terms often clue one option as correct or incorrect. If used in the stem, the question is testing more than one concept.
Avoid instructional information. The examinee should have the background knowledge necessary to answer the item; if the instruction is needed, the item may not be appropriate for the examination.

Do not use multiple true/false items, such as “Each of the following is true EXCEPT” items. In addition to the problems associated with negative items, asking multiple true-false statements is not the best way to test knowledge of examinees. In addition, the negative format requires the candidate to use reverse thinking twice, which makes an item unnecessarily tricky. Options for these items are almost always not focused and not parallel.

Avoid using statistical information or comparisons in options, as neither tests application of knowledge and both usually results in options not being homogeneous.

**Writing Stems and Lead-ins**

When composing questions using clinical vignettes, use realistic scenarios involving situations likely to develop in a typical practice. The stem should identify a patient and any pertinent information needed to answer the question. This information may include some or all of the following:

- Patient age
- Patient gender (use man, woman, boy, girl, infant) – and only use gender if it is pertinent to formulating the answer
- Presenting symptom(s) or underlying condition and duration
- Findings on physical examination
- Findings on laboratory evaluation
- Results of other diagnostic testing
- Issues arising during surgery

*The stem should not include unnecessary information,* however, a question may be more readable if it includes patient information, such as “A 45-year-old patient” even if age and gender are not important to the question.

The stem should not include information about culture, race, socioeconomics, or sexual preferences unless this information is *absolutely necessary* to answer the question.

When composing questions that do not contain vignettes, keep all information relevant. Some items may be short and not contain a vignette but still test application of knowledge. Some vignettes may be quite brief, while others may be more detailed. Occasionally, recall of information is important to test, as in anatomy questions.

The language used in the stem and options should be clear and concise. Avoid jargon and inflated diction. Test items should be written with the purpose of effectively measuring the examinees understanding and ability to apply principles.

If you are including an image to be assessed as part of your question, there is an opportunity to upload it as an attachment to your question in the database. It is imperative that you submit
images of high resolution. One of the most frequent criticisms by examinees is that the image was unclear. The best way to avoid this is to submit images of high quality ensuring that all identifying patient information that is HIPPA protected is removed. If there is concern with the image during the review process, the author will be contacted.

**Commonly used lead-ins are listed below:**

**Basic Science; Mechanisms**

Which of the following is the most likely mechanism of action?
Which of the following is the most likely explanation for these findings?
Which of the following is the most likely additional finding?
Which of the following is the most likely site of the lesion?
Which structure is most likely to be involved?
Laboratory evaluation is most likely to show
This agent acts at the receptor for

**Diagnosis**

Which of the following is the most likely diagnosis?
These findings are most consistent with
Which of the following is the most likely associated condition?
Which of the following is the most likely site of the lesion?
This patient is at increased risk for (development of)

**Management/Therapy**

Which of the following is the most appropriate next step?
Which of the following is the treatment of choice?
Which of the following is the most likely outcome of [specify treatment]?
Which of the following is the most likely result of interaction between these drugs?
Which of the following is the most appropriate treatment? [e.g., pharmacotherapy]
Which of the following is the most appropriate management? [e.g., management other than pharmacotherapy or a mix of pharmacologic, surgical, or other types of therapy or observation]
Writing Options

Options consist of the correct answer and three distractors, or incorrect answers. Distractors should be plausible, with none standing out as obviously incorrect. In a well-constructed question, each distractor will be chosen by at least a few examinees. Potential sources of distractors include faulty reasoning and common misconceptions and errors. Distractors should not contain information that could give clues to the correct answer.

Well-written distractors should be:

✓ Homogeneous with the correct answer; all should be diagnoses, treatment options, laboratory studies or values, etc.
✓ Plausible to an uninformed examinee
✓ Incorrect or significantly inferior to the correct answer
✓ Similar to the correct answer in length and construction
  ✓ Ordered in a logical way, e.g. from least to most invasive, alphabetically
  ✓ Grammatically consistent with the stem

Well-written distractors should NOT:

✓ Give a clue to the correct answer
✓ Use ambiguous or non-specific terms such as never, frequently, almost, etc…
✓ Use “all of the above” or “none of the above”
✓ Be mutually exclusive

Distractors affect the difficulty of the item. For example, review the following option sets that accompany the same question:

1. Which of the following companies manufactures sildenafil citrate (Viagra)?
   A. General Mills
   B. General Motors
   C. IBM
   D. Pfizer

2. Which of the following companies manufactures sildenafil citrate (Viagra)?
   A. Eli-Lilly
   B. Glaxo-Wellcome
   C. Novartis
   D. Pfizer

In the first example, the options are quite different, with only one pharmaceutical company listed. Someone who knows very little about this subject could easily answer this correctly.

In the second example, the question becomes more difficult because of the homogeneity of the options. Someone with limited knowledge would find all of the options to be plausible.
Item Examples

Well-Written A-Type Items

Examples of well-written A-type items are given below:

1. Levatoroplasty is indicated for management of anal incontinence associated with

   A. imperforate anus
   B. rectal procidentia
   C. radiation therapy
   D. solitary rectal ulcer

   Answer: B

   *This item involves recall of information, but it is well constructed and is an appropriate way to ask for the condition that is effectively managed by this procedure.*

2. A 30-year-old woman has an anovaginal fistula with incontinence of liquid stool following an injury during childbirth. Endoanal ultrasonography indicates a sphincter defect. Which of the following is the most appropriate management?

   A. Endorectal advancement flap repair
   B. Overlapping sphincteroplasty
   C. Biofeedback followed by endorectal advancement flap repair
   D. Inversion of the fistula with layered closure transvaginally

   Answer: B

   *This item follows suggested item writing guidelines. An improvement would include putting options in either alphabetical or logical (least to most invasive) order.*

3. A 31-year-old man has poorly localized pain at the base of the spine with radiation to the buttocks. Digital rectal examination reveals a palpable presacral mass. Radiographs show scimitar sacral deformity. Which of the following is the most likely diagnosis?

   A. Anterior sacral meningocele
   B. Chordoma
   C. Neurofibroma
   D. Osteogenic sarcoma

   Answer: A

   *This item sample is ideal: The stem contains a vignette and a focused lead-in; the options are homogeneous and similar in length.*

*The above examples all pass “the cover test”: the question can be answered without looking at the answers.*
Flawed A-Type Items

Examples of flawed A-type items with suggested revisions are given below:

1. Each of the following statements about pudendal nerve injury during childbirth is true EXCEPT

   A. it may be associated with a third degree tear during childbirth
   B. it is more common in multiparous women than primigravid women
   C. forceps delivery decreases the likelihood of injury
   D. epidural anesthesia, superficial episiotomy, and caesarian section do not cause injury

   Answer: C

   *While this item appears to test knowledge of several different points, it has a number of flaws. The stem is not focused; the examinee cannot answer the question without looking at the options. The stem asks a multiple true-false question. A negative term is used in the stem. There is no indication of what the question seeks to test (risk factors, associated findings, sequela, comparisons, etc. Options are not homogeneous. Use of nonspecific terms in options (may, almost, more common) makes the option ambiguous and subject to individual interpretation. Comparisons (than) should not be used in options. Negative terms should not be used in options and are particularly confusing when combined with a negatively-phrased question. D is not parallel to others as multiple options are given. To revise, this item should focus on one aspect, such as associated findings or causes of injury.*

   **Suggested Revision:**

   The most appropriate management/procedure for repair of pudendal nerve injury is

   - *Revise options to be viable managements*

   Or,

   Pudendal nerve injury primarily manifests as

   - *Revise options to be presenting symptoms*

   Or, for application of knowledge:

   A ___-year-old woman has ____________________________ [symptoms of pudendal nerve injury]. Which of the following is the most likely associated feature/condition? [Or as for the most likely diagnosis, unless this would be too easy with the symptoms listed]

   - *Revise options to fit new stem (associated features, conditions, or symptoms; or, viable diagnoses)*
2. When evaluating anorectal function after low anterior resection

A. resting and squeeze pressures are markedly lower in patients with tensesmus and soiling
B. the rectoanal inhibitory reflex may be preserved
C. radiation therapy significantly affects resting and squeeze pressures
D. the capacity and compliance of the neorectum are not affected by radiation therapy

Answer: B

Once again, this item appears to test several points of knowledge, but by doing so it becomes unfocused; items should test only one concept. The stem is not focused; the examinee cannot answer the question without looking at the options. Options are not homogeneous and are longer and more detailed than the stem. Options contain nonspecific terms, comparisons, multiple answers within the same option, and negative terms. To revise, this item should focus on one aspect, such as most likely sequela.

Suggested Revision:

Which of the following is the most likely adverse finding following low anterior resection of the rectum?

- Revise options to fit stem

Or, use a patient vignette, e.g.,

A ____-year-old patient is undergoing low anterior resection of the rectum. Which of the following is the most likely postoperative complication [or, finding]?

- Revise options to fit stem

**Conclusion**

The American Board of Colon and Rectal Surgery thanks you for taking the time to participate in this very important process. The ABCRS also strongly suggests that you participate in question writing workshops that normally take place during the annual ASCRS meeting. The ABCRS thanks you for your work in writing examination items.