

## Endoscopy Use in Abdominal Surgery

1. What term describes medical procedures with little operative trauma?
  - a. Low-risk
  - b. Noninvasive
  - c. Low-cost
  - d. Minimally invasive
2. Minimally invasive surgery usually takes \_\_\_\_\_ due to a smaller incision and worse orientation.
  - a. a shorter time
  - b. a longer time
  - c. the same time
  - d. none of the above
3. Which of the following is needed for minimally invasive abdominal surgery?
  - a. Endoscope
  - b. Trocars
  - c. Surgical instruments
  - d. All the above
4. What is placed in the body for a fast exchange of instruments?
  - a. Endoscope
  - b. Retractor
  - c. Trocar
  - d. Laparoscope
5. The workflow of an endoscopic procedure is described by \_\_\_\_\_ steps.
  - a. Four
  - b. Five
  - c. Six
  - d. Seven
6. What gas is used to inflate the abdomen during an endoscopic procedure?
  - a. Nitrous
  - b. Oxygen
  - c. Carbon dioxide
  - d. Helium
7. What allows a more stable image acquisition because it excludes any jitter induced by a human?
  - a. Endoscopy assistant
  - b. Endoscopy holder
  - c. Endoscopy instrument
  - d. A & C
8. What is one of the most widespread robotic systems?
  - a. General Electric system
  - b. Phillips system
  - c. Da Vinci system
  - d. Fuji system
9. During minimally invasive surgery the orientation and navigation within the body depends on the experience of the \_\_\_\_\_.
  - a. Surgeon
  - b. Scrub nurse
  - c. Staff
  - d. Assistant

10. Which of the following is a popular acquisition technique for endoscopic images?
  - a. Stereo vision setups
  - b. Structural light
  - c. Time-to-flight
  - d. All the above
11. What is described as an intuitive acquisition technique that is similar to human vision and depth estimation?
  - a. Time-of-flight
  - b. Stereo vision
  - c. Structural light
  - d. 3-D point
12. At the time the text was written, what was the only commercially available 3-D endoscope?
  - a. Stereo endoscope
  - b. Time-to-flight endoscope
  - c. Structural light endoscope
  - d. Segmented endoscope
13. True or false. At the time the text was written minimally invasive structured light systems were not available.
  - a. True
  - b. False
14. Which of the following tackles 3-D reconstruction from a completely different view?
  - a. Time-of-flight
  - b. Stereo vision
  - c. Structural light
  - d. Image molding
15. Current time-of-flight devices exhibit low data quality and \_\_\_\_\_.
  - a. Low image resolution
  - b. Low image contrast
  - c. Low image detail
  - d. Low image brightness