

# OSCE Veterinary Nursing Instrument Identification Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. Negus Forceps are useful in which type of veterinary surgical procedure?**
  - A. Orthopedic surgery**
  - B. Soft tissue surgery**
  - C. Ophthalmic surgery**
  - D. Dental surgery**
- 2. What type of procedure would utilize a pin cutter?**
  - A. Bone cutting**
  - B. Tissue sampling**
  - C. Eye surgery**
  - D. Suturing**
- 3. Kilner Needle Holders are typically utilized in which situation?**
  - A. For clamping tissues**
  - B. During suturing procedures**
  - C. For cutting delicate structures**
  - D. For retracting tissues**
- 4. Jacobs chuck and key are primarily used for which purpose?**
  - A. To hold bone securely**
  - B. Introducing IM pins**
  - C. Repairing fractures**
  - D. Fixation of small fragments**
- 5. Which instrument would you use to retract tissue during joint surgery?**
  - A. Gigli wire**
  - B. Liston bone cutters**
  - C. Hohmann retractor**
  - D. McPhail's needle holder**

- 6. What is the primary function of a Meyerding retractor?**
- A. To hold back soft tissues during surgery**
  - B. To assist in reducing fractures**
  - C. To measure the length of bones**
  - D. To manipulate bone fragments**
- 7. What is the main application of a cortical screw?**
- A. Bone cutting**
  - B. Bone fixation**
  - C. Joint retraction**
  - D. Screwing into cancellous bone**
- 8. Adson forceps are primarily designed for what purpose?**
- A. To grasp fine tissue**
  - B. To tie sutures**
  - C. To stabilize fractures**
  - D. To secure bones**
- 9. Which instrument is specifically designed for holding needles securely during suturing procedures?**
- A. Youngs Tongue Forceps**
  - B. Derf Needle Holder**
  - C. Strabismus Scissors**
  - D. Dieffenbach/Bulldog Clamps**
- 10. What is the main use of callipers during veterinary surgeries?**
- A. Handling wires safely**
  - B. Measuring the dimensions of bones or gaps**
  - C. Cutting through soft tissue**
  - D. Manipulating bone fragments**

## **Answers**

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

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## **Explanations**

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**1. Negus Forceps are useful in which type of veterinary surgical procedure?**

- A. Orthopedic surgery**
- B. Soft tissue surgery**
- C. Ophthalmic surgery**
- D. Dental surgery**

Negus Forceps are specifically designed for use in soft tissue surgery. They are versatile instruments used to manipulate and hold delicate tissues during surgical procedures that require precision and care, such as in surgeries involving the abdominal cavity or other soft tissue structures. Their design allows for a secure grip on tissue without causing excessive trauma, making them suitable for surgeries where maintaining tissue integrity is crucial. In contrast, other types of surgeries, like orthopedic or ophthalmic procedures, require different specialized instruments that cater to the needs of those specific tissues and bones. For example, orthopedic instruments are designed to handle bone structures and alignments, while ophthalmic tools are tailored for the intricate needs of eye surgeries. Dental surgeries likewise involve instruments designed for managing teeth and gums, which differ significantly from those used in soft tissue surgical procedures. This specialization is key in veterinary medicine, where the objectives of different types of surgeries dictate the types of instruments required.

**2. What type of procedure would utilize a pin cutter?**

- A. Bone cutting**
- B. Tissue sampling**
- C. Eye surgery**
- D. Suturing**

A pin cutter is specifically designed for cutting through hard materials, which makes it ideally suited for procedures involving bones. In veterinary practices, pin cutters are commonly employed during surgical operations that require the removal of pins, such as orthopedic surgeries that address fractures or bone alignment issues. The ability of the pin cutter to exert a strong force allows it to cleanly snap and cut through metal or bone pins without damaging surrounding tissues, which is crucial in maintaining the integrity of the surgical site and ensuring a successful outcome. While other instruments may be utilized in tissue sampling, eye surgery, or suturing, these procedures have different requirements in terms of instrument design and functionality. Only a pin cutter's mechanism is appropriate for the specific demands of bone cutting, making this the correct choice for the question.

**3. Kilner Needle Holders are typically utilized in which situation?**

- A. For clamping tissues**
- B. During suturing procedures**
- C. For cutting delicate structures**
- D. For retracting tissues**

Kilner needle holders are specifically designed for handling and manipulating needles during suturing procedures. Their unique construction, featuring a locking mechanism and serrated jaws, allows for a secure grip on the needle, providing the precision and control needed to guide the needle through tissues while placing sutures. This tool is fundamental in surgical settings where accurate suture placement is critical in ensuring proper wound closure and healing. The other options do not accurately describe the primary function of Kilner needle holders. Clamping tissues is typically performed with hemostatic forceps, while cutting delicate structures requires scissors designed specifically for that purpose. Tissue retraction is generally done with retractors, which are tools specifically designed to hold back tissues to provide better visibility and access to the surgical area. Thus, the use of Kilner needle holders is notably aligned with suturing procedures, making this the correct choice.

**4. Jacobs chuck and key are primarily used for which purpose?**

- A. To hold bone securely**
- B. Introducing IM pins**
- C. Repairing fractures**
- D. Fixation of small fragments**

The Jacobs chuck and key are specialized instruments primarily used for introducing intramedullary (IM) pins during orthopedic procedures. This instrument facilitates the secure handling and deployment of pins within the medullary cavity of bones, which is essential in stabilizing fractures or in supporting weak areas of bone structure. The design of the Jacobs chuck allows it to grip the pin firmly, ensuring that it can be accurately placed into the bone with precision, minimizing the risk of slippage or misalignment. While the other options mentioned involve various aspects of orthopedic practice, they do not specifically highlight the primary function of the Jacobs chuck and key. The primary role of these tools is to efficiently introduce IM pins, making them crucial in many bone stabilization surgeries.

**5. Which instrument would you use to retract tissue during joint surgery?**

- A. Gigli wire**
- B. Liston bone cutters**
- C. Hohmann retractor**
- D. McPhail's needle holder**

The Hohmann retractor is specifically designed for use in orthopedic surgeries, including joint surgeries, where it is essential to retract tissue effectively to allow a clear view and access to the surgical site. Its shape and mechanism are tailored to gently hold back muscles and other soft tissues, providing the surgeon with a stable field to work in without causing excessive trauma to surrounding structures. This is particularly important in joint procedures, where precision is crucial for the integrity of the joint and surrounding tissues. In contrast, Gigli wire is primarily used for cutting bone, while Liston bone cutters are specialized instruments for cutting through bone as well. McPhail's needle holder, designed for holding needles during suturing, does not serve the purpose of retraction. Each of these instruments has its specific application, which is why the Hohmann retractor stands out as the appropriate choice for tissue retraction during joint surgery.

**6. What is the primary function of a Meyerding retractor?**

- A. To hold back soft tissues during surgery**
- B. To assist in reducing fractures**
- C. To measure the length of bones**
- D. To manipulate bone fragments**

The primary function of a Meyerding retractor is to hold back soft tissues during surgery. This instrument is specifically designed to provide visibility and access to the surgical site by retracting layers of skin, muscle, and other soft tissues away from the area being operated on. The design of the Meyerding retractor allows it to effectively maintain tension and hold tissues aside, which is crucial for the safety and efficiency of surgical procedures. This ensures that the surgeon has a clear field to work in, minimizing the risk of complications that can arise from obstructed views or unintentional damage to surrounding structures. The other options describe functions that are not related to the characteristics or intended use of the Meyerding retractor. For example, assisting in reducing fractures pertains to a different category of instruments designed for orthopedic procedures. Similarly, measuring the length of bones or manipulating bone fragments are tasks for specialized tools, not for retractors whose primary purpose is tissue retraction.

## 7. What is the main application of a cortical screw?

- A. Bone cutting
- B. Bone fixation**
- C. Joint retraction
- D. Screwing into cancellous bone

A cortical screw is specifically designed to provide stability in bone fixation. Its primary application is to hold fractured bones together to ensure proper alignment during the healing process. These screws achieve this by engaging the dense outer cortex of the bone, creating a secure hold that prevents movement at the fracture site. Cortical screws have a finer thread and a smooth shank compared to other types of screws, which helps them grip the hard cortical bone effectively. This characteristic makes them ideal for situations where a high degree of stability is necessary, such as in orthopedic surgeries to repair fractures or to stabilize osteotomies. While other options touch on aspects related to bones and their treatment, they do not align with the specific function of a cortical screw, which is focused solely on providing fixation through secure anchoring in the cortical bone, ensuring the integrity and stability of the bone structure during the healing process.

## 8. Adson forceps are primarily designed for what purpose?

- A. To grasp fine tissue**
- B. To tie sutures
- C. To stabilize fractures
- D. To secure bones

Adson forceps are primarily designed for grasping fine tissue, which makes them an essential tool in surgical procedures. They have a fine-tipped design with serrated or textured surfaces that allow for a secure grip on delicate tissues without causing excessive trauma. This feature is particularly important when working in sensitive areas where precision is critical, such as during suturing or the dissection of soft tissues. The other options, while relevant to surgical instruments in general, do not align with the specific function of Adson forceps. For instance, tying sutures typically involves instruments designed specifically for that purpose, such as needle holders. Stabilizing fractures and securing bones usually require tools like splints or screws rather than forceps. Thus, Adson forceps are uniquely suited for tasks that require careful manipulation of fine tissues, highlighting their role in maintaining the integrity of delicate structures during surgery.

**9. Which instrument is specifically designed for holding needles securely during suturing procedures?**

- A. Youngs Tongue Forceps**
- B. Derf Needle Holder**
- C. Strabismus Scissors**
- D. Dieffenbach/Bulldog Clamps**

The instrument designed specifically for holding needles securely during suturing procedures is the Derf Needle Holder. This specialized tool features a ratcheted mechanism that allows the user to grip the needle firmly, providing better control and precision while suturing tissues. The design of the Derf Needle Holder ensures that the needle is held at the optimal angle and allows for smoother handling of the needle during the suturing process, which is essential for achieving accurate and effective closure of wounds. In contrast, Young's Tongue Forceps are primarily used for grasping and manipulating tissues, not for holding needles. Strabismus Scissors are designed for cutting tissue and are not equipped to hold needles securely. Dieffenbach or Bulldog Clamps are used to occlude blood vessels or tissues but do not provide the necessary stability for needle handling during suturing. Therefore, the Derf Needle Holder stands out as the preferred instrument for this specific purpose, ensuring efficiency and precision in surgical procedures involving sutures.

**10. What is the main use of callipers during veterinary surgeries?**

- A. Handling wires safely**
- B. Measuring the dimensions of bones or gaps**
- C. Cutting through soft tissue**
- D. Manipulating bone fragments**

The main use of callipers during veterinary surgeries is to measure the dimensions of bones or gaps. Callipers are precision instruments designed to provide accurate measurements, which is crucial in various surgical procedures. They allow veterinarians to obtain measurements of bone length, width, and depth, aiding in the assessment and planning of surgeries, such as fractures, joint surgery, or implant placements. By ensuring proper sizing, callipers help to ensure that implants fit well and that the alignment of bones is correct, promoting optimal healing and recovery. Using correct measurements can also reduce complications during surgery, as precise fitting can minimize the risk of further injury to the surrounding tissues. Thus, callipers play a vital role in enhancing the accuracy and effectiveness of veterinary surgical practices.