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Surgical Instrumentation and terminology

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| **Across**  **3.** Forceps that have longitudinal grooves and are designed for larger pedicles  **4.** Hinged, sharp-tipped, are commonly used to retract muscle and skin during approaches to the spine or long bones  **5.** Angled metal tube allows very fine control of suction but produces maximal trauma when misused; used during neurosurgery or orthopedic procedures  **6.** Suction tip protected by a fenestrated cover -preventing inadvertent suction trauma; are used during abdominal procedures  **7.** Scalpel handles used most commonly in small animal surgery  **11.** Scissors used in delicate tissue only  **15.** Wide, flexible retractor that may be bent to any angle to facilitate retraction; most often used in abdominal surgery to retract friable organs such as the liver  **18.** These forceps are used primarily in grasping skin  **22.** Retractor with one rake-like end and one smooth end These are often used during muscle retraction in orthopedic approaches  **23.** Scissors used for cutting dense connective tissue (fascia)  **24.** The most common application of this blade would be to initiate an incision into the ureter  **26.** Have a basket shaped tip with multiple holes to allow directed suction, but minimize suction trauma - used in thoracic surgery  **27.** Atraumatic forceps used in grasping blood vessels or delicate organs such as the bladder or bowel  **28.** Fixation  **29.** Short fine needle holders that are held in pencil grip fashion allowing suturing of delicate tissues. They are used most commonly in ophthalmologic procedures  **30.** Blade used primarily in stab incisions into hollow viscera such as the bladder or intestine  **31.** Forceps used most commonly in small animal surgery | **Down**  **1.** Self-retaining abdominal retractor used commonly during exploratory celiotomy  **2.** Self-retaining rib retractors used during thoracotomy  **8.** Formed or shaped  **9.** Scalpel handle used in large animal surgery, compatible with #20 blades  **10.** Suffix meaning suture  **12.** Medium sized needle holders most commonly used in small animal surgery  **13.** Suffix for binding  **14.** Needle drivers similar to Mayo-Hegar but have a scissor mechanism just distal to the box lock  **16.** These retractors have blunt + right angled ends  **17.** Creation of a stoma or mouth- usually a long term opening  **19.** Have an hourglass shape, these retractors are used to lever the tibia cranially during stifle arthrotomy, facilitating evaluation of the menisci  **20.** These large convex blades and are designed for linear incisions in skin or other connective tissue  **21.** To pierce  **25.** To excise or remove |