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General & Local Anesthetics

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| **Across**  **3.** \_\_\_\_\_\_\_\_\_\_\_ affect neurons at various cellular locations, but the primary focus has been on the synapse.  **4.** It is often avoided for techniques that demand high volumes of concentrated anesthetic.  **5.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is principally used for the short-term sedation of intubated and ventilated patients in ICU setting.  **8.** The characteristic state observed after an induction dose of \_\_\_\_\_\_\_\_ is known as "dissociative anesthesia".  **12.** \_\_\_\_\_ fibers fire at a slower rate and have a shorter action potential duration.  **16.** Is added to minimize the discomfort associated with injection of local anesthesia and the surgical manipulations.  **18.** It produces dose-dependent CNS depression ranging from sedation to general anesthesia when administered as bolus injection.  **19.** Etomidate, like most other IV anesthetics, is highly protein bound (70%0, primarily to \_\_\_\_\_\_\_.  **21.** \_\_\_\_\_\_\_\_\_\_\_ is a water-soluble of prodrug Propofol, rapidly metabolized by alkaline phosphates, and producing propofol, phosphate, and formaldehyde.  **22.** The anesthetic state is achieved when the partial pressure of the anesthetic in the brain reaches a threshold concentration determined by its \_\_\_\_\_\_\_.  **23.** The easiest anesthetic end point to measure.  **24.** Its common use is to facilitate induction of general anesthesia by bolus injection of 1-2.5 mg/kg IV.  **26.** Is similar to a light state of general anesthesia characterized by decreased consciousness from which the patient is not easily aroused.  **28.** The elimination half-life for dexmedetomidine is \_\_\_\_.  **29.** Benzodiazepines are unique among the group of intravenous anesthesia in that their action can readily be terminated by administration of their selective antagonist, \_\_\_\_\_\_\_\_\_\_.  **30.** Propofol is a potent respiratory depressant and generally produces \_\_\_\_\_ after an induction dose. | **Down**  **1.** The clearance for dexmedetomidine is \_\_\_\_.  **2.** \_\_\_\_\_\_\_\_\_ is effective for premedication, sedation during regional anesthesia, and brief therapeutic procedures.  **6.** \_\_\_\_\_\_\_\_\_\_\_\_ has a shorter elimination half-life than thiopental due to its larger plasma clearance.  **7.** Had an excellent record as an intermediate duration anesthetic, and remains the reference standard against which most anesthetics are compared.  **9.** \_\_\_\_\_\_\_\_\_ is an intravenous anesthetic with hypnotic but not analgesic effects and is often chosen for its minimal hemodynamic effects.  **10.** An acute toxicity which occurs when the metabolism of enflurane and sevoflurane may generate compounds that are potentially nephrotoxic.  **11.** \_\_\_\_\_\_\_ are analgesic agents and are distinct from general anesthetics and hypnotics.  **13.** Current clinical use of \_\_\_\_\_\_\_ is largely restricted to topical anesthesia for ear, nose, and throat procedures, where its intense vasoconstriction can serve to reduce bleeding.  **14.** \_\_\_\_\_\_\_ fibers have a high firing rate and relatively long action potential duration.  **15.** The most feared complications associated with local anesthetic administration result from the profound effects these agents can have on cardiac conduction and function.  **17.** \_\_\_\_\_\_\_\_\_ is a spinal anesthetic formulation cantaining procaine.  **20.** Ketamine's MOA is \_\_\_\_\_\_\_.  **25.** Ketamine is considered to be a cerebral vasodilator that \_\_\_\_\_\_\_\_\_ cerebral blood flow.  **27.** \_\_\_\_\_\_\_ anesthetics is a volatile as well as gaseous, are taken up through gas exchange in the alveoli of the lung. |