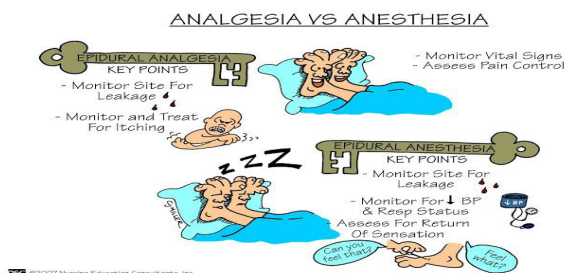




## Analgesia vs Anesthesia

Scott Alan Miller\*

Analgesia is a pain-free condition, whereas anesthesia is a state attained when there's a loss of touch, pain, and temperature, sensations with or without loss of awareness. Anesthesia is associated with some grade of analgesia but not vice versa.



### Mechanism of Action of Analgesics and Anesthetics

The most widely used class of analgesics namely, NSAIDs, Opioids etc. which help to reduce the stimulation of free nerve endings and blocks the transmission of pain signals. On the other hand, it acts on both the peripheral nerves and the brain and alters pain perception [1].

When local anesthetics are injected around a nerve, they block the sodium channels present on the nerve. This blocking effect is voltage-dependent, which means that thin nerve fibers that conduct signals faster, such as the pain fibers, are blocked significantly more effectively than larger nerves [1]. General anesthetics can be administered as a gas or intravenously. They produce a loss of pain, touch, temperature, and reflexes accompanied by loss of memory and consciousness. General

anesthetics depress the central nervous system mainly through their effects on the inhibitory neurotransmitter GABA [1].

### Combining Analgesia and Anesthesia

General anesthetics are rarely administered as sole agents for advanced operative procedures. A mix of adjuvants, like analgesics and/or muscle relaxants, are administered to realize the specified state of surgical anesthesia. Local and regional anesthesia may be used as another or additionally to standard pain management throughout and when surgery and also the immediate amount when birth. Analgesic opioids given as regional analgesia and blood vessel patient-controlled analgesia (PCA) have been effective management of surgical pain [2,3]. Epidural analgesia also can be used because the primary analgesic for surgeries and may be used because the primary analgesic for surgeries from the chest to the lower extremities. This methodology of mixing opioid/non-opioid analgesics with anesthesia helps to reduce the pain with the dose and side effects of opioid analgesics, like nausea, vomiting, retardation of bowel movements resulting in constipation, and sedation [4,5].

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\*Corresponding author: Scott Alan Miller, Department of Neuroanesthesiology, Wake Forest Baptist Medical Center, USA, E-mail: scmill@wakehealth.edu

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### Author Affiliation

Department of Neuroanesthesiology, Wake Forest Baptist Medical Center, USA