Leser fragen – Experten antworten

Hustenreiz nach intravenöser Applikation von Opioiden

Prof. Dr. med. Michael Schäfer • Susanne Keilig • PD Dr. med. Alexander Brack • Prof. Dr. med. Peter Kranke

1 Böhrer HF, Fleischer F, Werning P. Tussive effect of a fentanyl bolus administered through a central venous catheter. Anaesthesia 1990; 45: 18–21


5 Yemen TA. Small doses of sufentanil will produce violent coughing in young children. Anesthesiology 1998; 89: 271–272


8 Mutolo D, Bongianni F, Cinelli E et al. Modulation of the cough reflex by antitussive agents within the caudal aspect of the nucleus tractus solitarii in the rabbit. Am J Physiol Regul Integr Comp Physiol 2008; 295: R243–251

9 Krajnik M, Schäfer M, Sobanski P et al. Enkephalin, its precursor, processing enzymes, and receptor as part of a local opioid network throughout the respiratory system of lung cancer patients. Hum Pathol 2009 [im Druck]


14 Inoue K, Samodelov LF, Arndt JO. Fentanyl activates a particular population of vagal efferents which are cardioinhibitory. Naunyn Schmiedebergs Arch Pharmacol 1980; 312: 57–61


