

中文題目：使用標靶輸注 propofol 麻醉鏡檢時藥物劑量麻醉深度及安全性評估

英文題目：The safety concern regarding the application of target-controlled infusion of propofol during endoscopy anesthesia

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Background: Propofol appears as an agent of choice for sedation of painless endoscopy. Target-controlled infusion system automatically adjusts the rate of infusion of propofol to maintain a desired concentration and offer steady sedation during endoscopy. The aim of this study was to determine the target plasma concentration for painless endoscopy.

Method: A total of 136 consecutive patients undergoing painless endoscopy in KMUH were sedated by using a propofol target-controlled infusion system by an anesthesiologist. They were randomized into low Ce(1.5~2.5) and high Ce(3.0-4.0) in 1 to 2 ratio. Patient movement, vital sign, respiratory event were record during procedure. Patient was interviewed in the next day to check up the satisfaction with sedation and recall of pain.

Results: sedation quality and safety were same between these tow group.

Conclusion: A target-controlled infusion systemt for administration of propofol provide safe and effective sedation during painless endoscopy. Target plasma propofol concentration(Ce) around 1.5 to 2.5 is adequate for painless endoscopy.