

# CERTIFICATE

## OF ENGLISH LANGUAGE EDITING



### Effects of Sufentanil Combined with Remifentanil on Hemodynamics during General Anesthesia Induction and Postoperative Recovery Quality in Preschool Children Undergoing Tonsillectomy and Adenoidectomy

**Purpose:** This study was designed to assess the effects of sufentanil combined with remifentanil on hemodynamics during general anesthesia induction and postoperative recovery quality in preschool children undergoing tonsillectomy and adenoidectomy. **Methods:** A total of 90 pediatric patients undergoing tonsillectomy and adenoidectomy under general anesthesia from July 2024 to March 2025 were included and randomly stratified to receive either sufentanil combined with remifentanil (Group R, n = 45) or sufentanil alone (Group S, n = 45). In Group R, anesthesia induction used sufentanil (0.2 µg/kg) combined with remifentanil (2 µg/kg), while only sufentanil (0.4 µg/kg) was used for anesthesia induction in Group S. The rest of the induction drugs were the same in both groups. After drug administration, patient vital signs, such as heart rate (HR) and mean arterial pressure (MAP), ...

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