

# Respiratory Complications during General Anesthesia in Children with History of Bronchial Asthma

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**Abstract :** We retrospectively studied respiratory complications in children less than 15 years of age with a history of bronchial asthma who were managed with general anesthesia and operated on during 22-year period. The children were analyzed with respect to the presence of respiratory complications, the severity of preoperative bronchial asthma, methods of general anesthesia, and used drugs. During the period, 492 patients with bronchial asthma were managed with general anesthesia. Respiratory complications occurred in 24 (4.9%). Sixty-three per cent of the respiratory complications occurred during the induction of anesthesia. Although isoflurane showed a higher tendency to provoke respiratory complications, there were no statistically significant differences in the incidences of respiratory complications among volatile anesthetics. As a result, no respiratory complications were observed in children who were managed with intravenous anesthetics.

**Key words :** Pediatric patients, Bronchial asthma, General anesthesia, Respiratory complications