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User Satisfaction in Rama-Chest Mouthpiece for Flexible Bronchoscopy in Ramathibodi Hospital

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Abstract : Background: Some limitations and complications have been found associated with commercial mouthpiece in bronchoscopic procedure. Therefore, we invented the Rama-chest mouthpiece from plastic normal saline bottle. Objective: The aim of this study was to compare user satisfaction in Rama-chest mouthpiece with the commercial mouthpiece. Methods: A prospective randomized controlled trial between commercial mouthpiece and Rama-chest mouthpiece was conducted on patients who were underwent bronchoscopy and required mouthpiece insertion from May to June 2014. The questionnaire about satisfaction was completed by the bronchoscopists, assistant nurses, and patients. Results: Thirty procedures in both groups were investigated. Mean satisfaction scores filled by the bronchoscopists and assistant nurses were not different between both groups. However, higher satisfaction score filled by the patients was found in Rama-chest mouthpiece than the comparator (p=0.011). Complications such as abrasion, pain, and itching were observed in commercial mouthpiece but not found in Rama-chest mouthpiece. Conclusion: We have introduced Rama-chest mouthpiece and proved its usefulness comparable to the commercial mouthpiece.

Keywords : mouthpiece, bronchoscopist, bronchology, pulmonology and respiratory diseases
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