FLEX-TIP ENDOTRACHEAL TUBE CLINICAL STUDIES SUMMARY

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1. THE PARKER FLEX-TIP TUBE VERSUS A STANDARD TUBE FOR FIBEROPTIC OROTRACHEAL INTUBATION: A RANDOMIZED DOUBLE-BLIND STUDY

Conclusions:
During oral fiberoptic intubation, the use of the Parker Flex-Tip tube is associated with greater incidence of initial success of passage of the tube into trachea when compared to a standard endotracheal tube.

Kristensen MS. The Parker Flex-Tip tube versus a standard tube for fiberoptic orotracheal intubation: a randomized double-blind study. Anesthesiology. 2003 Feb;98(2):354-8.

DOI: 10.1097/00000542-200302000-00014
PMID: 12552193

2. WIRE REINFORCED ENDOTRACHEAL TUBE COMPARED WITH PARKER FLEX-TIP TUBE FOR ORAL FIBEROPTIC INTUBATION: A RANDOMIZED CLINICAL TRIAL

Conclusions:
Advancement of the ETT over a fiberoptic bronchoscope was easier with the PFT tube and with a posteriorly positioned wire-reinforced tube than with an anteriorly positioned wire-reinforced tube.

Jafari A, Gharaei B, Kamranmanesh MR, Aghamohammadi H, Nobahar MR, Poorzamany M, Shahrabi M, Solhpour A. Wire reinforced endotracheal tube compared with Parker Flex-Tip tube for oral fiberoptic intubation: a randomized clinical trial. Minerva Anestesiol. 2014 Mar;80(3):324-9. Epub 2013 Oct 31.

PMID: 24193173

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3. A STUDY TO EVALUATE AND COMPARE PARKER FLEX-TIP TUBE AND POLYVINYL CHLORIDE ENDOTRACHEAL TUBE FOR HEMODYNAMIC RESPONSE DURING INTUBATION

Conclusions:
Parker Flex-Tip tube is beneficial in controlling the hemodynamic response during laryngoscopy and intubation. This effect is significantly evident in HR and DBP.

Bansal, Teena; Singhal, Suresh; Aggarwal, Ajay. A study to evaluate and compare Parker Flex-Tip tube and polyvinyl chloride endotracheal tube for hemodynamic response during intubation. The Indian Anaesthetists' Forum 25(1):p 35-41, Jan–Jun 2024.

DOI: 10.4103/TheIAForum.TheIAForum_147_23

4. THE PARKER FLEX-TIP TUBE FOR NASOTRACHEAL INTUBATION: THE INFLUENCE ON NASAL MUCOSAL TRAUMA

Conclusions:
The Flex-Tip tracheal tube thus appeared to reduce the incidence of nasal mucosal trauma during nasotracheal intubation and the incidence of post-intubation nasal pain, compared with the conventional tip tracheal tube.

Sanuki, T.; Hirokane, M.; Matsuda, Y.; Sugioka, S.; Kotani, J. The Parker Flex-Tip tube for nasotracheal intubation: the influence on nasal mucosal trauma. Association of Anaesthetists. Anaesthesia, 2010, 65, pages 8–11.

DOI: 10.1111/j.1365-2044.2009.06123.x

5. A COMPARATIVE STUDY OF THE PARKER FLEX-TIP TUBE VERSUS STANDARD PORTEX TUBE FOR ORAL FIBEROPTIC INTUBATION IN BRONCHOSCOPY PERFORMED BY PULMONOLOGISTS WITH LIMITED EXPERIENCE

Conclusions:
For pulmonologists with limited experience who perform FTI in bronchoscopy, intubation using PFT versus PTT is faster and easier, without an increase in complications.

Yamauchi, Hiroyoshi; Nakayama, Masayuki; Yamamoto, Shinichi; Sata, Masafumi; Mato, Naoko; Bando, Masashi; Hagiwara, Koichi. A comparative study of the Parker Flex-Tip tube versus standard Portex tube for oral fiberoptic intubation in bronchoscopy performed by pulmonologists with limited experience. Respiratory Investigation Volume 59, Issue 2, March 2021, pages 223–227

DOI: 10.1016/j.resinv.2020.09.009

6. COMPARISON OF CONVENTIONAL WITH PARKER FLEX-TIP TRACHEAL TUBE FOR INTUBATION THROUGH AIR-Q INTUBATING LARYNGEAL AIRWAY

Conclusions:
Unique design of the Parker Flex-tip TT resulted in increase in success rate, first attempt success rate and ease of intubation in group B in present study.

Lal, Jatin; Bansal, Teena; Dhawan, Gaurav; Taxak, Susheela; Smriti, Manu1; Sharma, Jyoti; Thaper, Deepali2. Comparison of conventional with Parker flex-tip tracheal tube for intubation through air-Q intubating laryngeal airway. Journal of Anaesthesiology Clinical Pharmacology 36(1):p 43-48, Jan–Mar 2020.

DOI: 10.4103/joacp.JOACP_227_18

7. COMPARISON OF CONVENTIONAL ENDOTRACHEAL TUBE WITH PARKER FLEX-TIP TUBE FOR TRACHEAL INTUBATION THROUGH I-GEL

Conclusions:
We recommend to preferably use Parker Flex-tip ETT over conventional PVC ETT for blind intubation through I-Gel.

Duggal, Geetika; Chhabra, Ankit; Midha, Rahul; Agarwal, Rishabh; Preet Kour, Arvin; Singh, Ajaydeep. Comparison of conventional endotracheal tube with Parker Flex-Tip tube for tracheal intubation through I-Gel. Int J Acad Med Pharm 2023; 5 (4); 255-261

DOI: 10.47009/jamp.2023.5.4.53

8. EFFICACY AND AIRWAY COMPLICATIONS OF PARKER FLEX-TIP TUBES AND STANDARD ENDOTRACHEAL TUBES DURING AIRWAY MANIPULATION: A META-ANALYSIS AND TRIAL SEQUENTIAL ANALYSIS

Conclusions:
The use of PFT tubes for airway manipulation was associated with a shorter intubation time compared with the standard polyvinylchloride tubes. The results of trial sequential analysis suggest the need for further trials and meta-analysis to compare other intubation outcomes associated with the two devices.

Hung KC, Chen JY, Feng IJ, et al. Efficacy and airway complications of Parker Flex-Tip tubes and standard endotracheal tubes during airway manipulation: A meta-analysis and trial sequential analysis. European Journal of Anaesthesiology. 2021 Aug;38(8):813-824.

PMID: 34001761
DOI: 10.1097/eja.0000000000001539

9. A RANDOMIZED COMPARISON OF A PARKER ENDOTRACHEAL TUBE AND A STANDARD TUBE ORIENTED 90° COUNTERCLOCKWISE

Conclusions:
When advancing an ETT over an oral fiberoptic scope and into the trachea, a Parker curved flex tip ETT is statistically more likely to be placed successfully on the first pass than is a standard ETT oriented 90° counterclockwise.

Weigel, W. and Dean, T. (2012) A Randomized Comparison of a Parker Endotracheal Tube and a Standard Tube Oriented 90° Counterclockwise. Open Journal of Anesthesiology, 2, 219-223.

DOI: 10.4236/ojanes.2012.25050

10. COMPARISON OF CONVENTIONAL WITH PARKER FLEX-TIP TRACHEAL TUBE FOR INTUBATION THROUGH AIR-Q INTUBATING LARYNGEAL AIRWAY

Conclusions:
Unique design of the Parker Flex-tip TT resulted in increase in success rate, first attempt success rate and ease of intubation in group B in present study.

Lal, Jatin & Bansal, Teena & Dhawan, Gaurav & Taxak, Susheela & Smriti, Manu & Sharma, Jyoti & Thaper, Deepali. (2020). Comparison of conventional with Parker flex-tip tracheal tube for intubation through air-Q intubating laryngeal airway. Journal of Anaesthesiology Clinical Pharmacology. 36. 43.

DOI: 10.4103/joacp.JOACP_227_18

11. PARKER FLEX-TIP AND STANDARD-TIP ENDOTRACHEAL TUBES: A COMPARISON DURING NASOTRACHEAL INTUBATION

Conclusions:
This study suggests that the PFT tube design may be safer by causing less trauma and bleeding than standard tube designs for nasotracheal intubation.

Prior, S., Heaton, J., Jatana, K. R., & Rashid, R. G. (2010). Parker flex-tip and standard-tip endotracheal tubes: a comparison during nasotracheal intubation. Anesthesia progress, 57(1), 18-24.

DOI: 10.2344/0003-3006-57.1.18