

如何成功進行壓喉輔助 標準氣管內管置放及換氣

Ying C. Huang, MD, MS

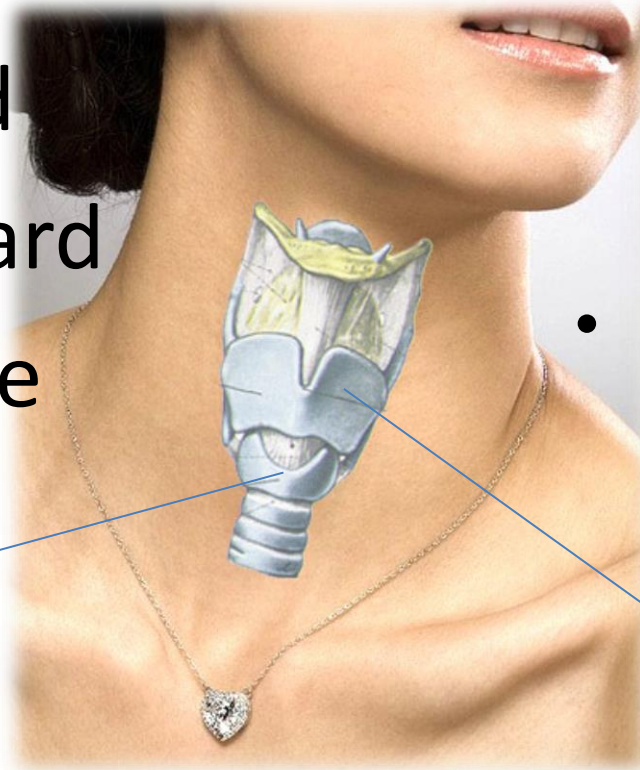
Consultant, Department of Emergency Medicine, Chiayi Christian Hospital
Clinical Associate Professor, Medical Center & School of Medicine, Kaohsiung Medical University

BURP

- **B**ackward
- **U**pward
- **R**ightward
- **P**ressure

- 插管者以右手食指與拇指施壓於甲狀軟骨(環狀軟骨)上，調整位置讓聲門得以看見
- 看到後由助手接手，插管者右手拿氣管內管，進行插管

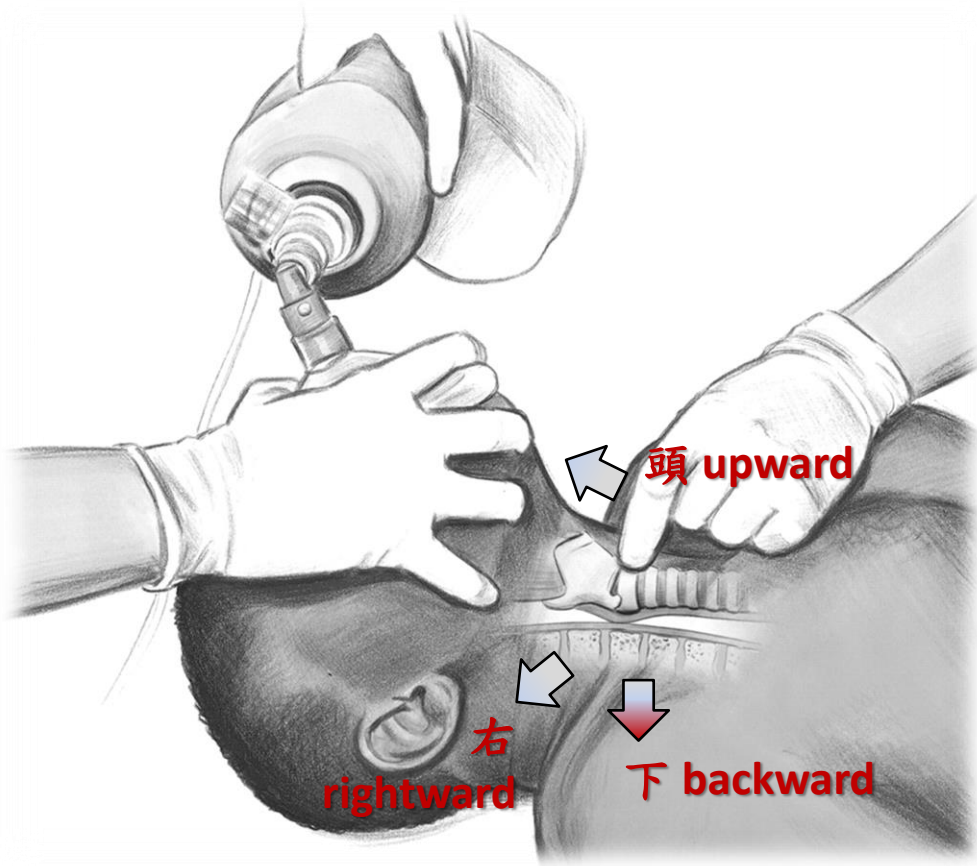
環狀軟骨
cricoid cartilage



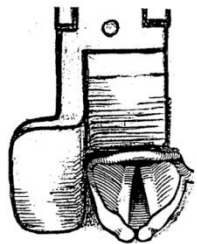
甲狀軟骨
thyroid cartilage

- Knill RL. Difficult laryngoscopy made easy with a "BURP". Can J Anaesth. 1993;40:279-82.
- Benumof JL, et al. Quantitative improvement in laryngoscopic view by optimal external laryngeal manipulation. J Clin Anesth. 1996;8:136-40.
- Takahata O, et al. The efficacy of the "BURP" maneuver during a difficult laryngoscopy. Anesth Analg. 1997;84:719-21.

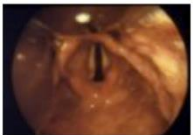
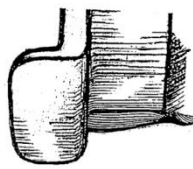
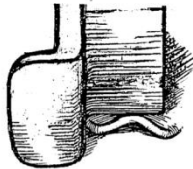
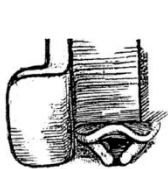
成效



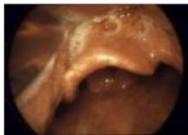
- 1996, USA
 - 181 位全麻患者
 - 全部患者皆獲改善
- 1997, Japan
 - 630 位全麻患者
 - 100% Cormack 3 $\Rightarrow$ 2
 - Cormack 2
 - 下壓即改善： 176/261
 - BURP 改善更多： 42/85



Laryngoscopy View: Cormack Grading



Grade 1



Grade 2



Grade 3



Grade 4

- Benumof JL, et al. Quantitative improvement in laryngoscopic view by optimal external laryngeal manipulation. J Clin Anesth. 1996;8:136-40.
- Takahata O, et al. The efficacy of the "BURP" maneuver during a difficult laryngoscopy. Anesth Analg. 1997;84:719-21.



影片欣賞

- 講解 (360p; 6:25)
 - <http://www.youtube.com/watch?v=RMXfGXCwm0E>
- 實戰版 (480p; 1:27)
 - <http://www.youtube.com/watch?v=LgSrtspeONg>

