



大连医科大学附属第一医院

THE FIRST AFFILIATED HOSPITAL OF DALIAN MEDICAL UNIVERSITY

Online scenario simulation teaching in airway management for undergraduate anesthesia students

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聚焦医疗前沿，注重患者感受

弘道笃行 精诚大医

建设国内一流、国际知名的 医疗研究型大学附属医院



In this presentation, we will provide a demonstration some of online scenario simulation teaching components discussed in the article.





Online scenario simulation teaching for difficult airway management during thyroid surgery.





Patient Cases

- ◆ A 60-year-old woman.
- ◆ Health ,no abnormalities in all examinations.
- ◆ Radical surgery for thyroid cancer under general anesthesia.



13:30 Upon arrival in the operating room, Bp 120/80 mmHg, HR 80 bpm, SpO₂ 96%.

13:35 Oxygen was supplied via a mask at a flow rate of 6 /min, which successfully increased the SpO₂ to 98%. Anesthesia was induced three minutes later using a combination of midazolam 1 mg, propofol 100 mg, sufentanil 20 µg, and rocuronium bromide 45 mg.

13:42 A direct laryngoscopic intubation was performed.



13:43 Post-laryngoscopic Visualization of Vocal Folds Reveals the Following Image:



What are you gonna do?



Following the unsuccessful attempt at intubation with a standard laryngoscope, a video laryngoscope was employed in an effort to improve visualization. However, despite these efforts, the vocal folds could not be adequately exposed, resulting in a continued failure to intubate and a consequent decline in oxygen saturation levels.

13:50

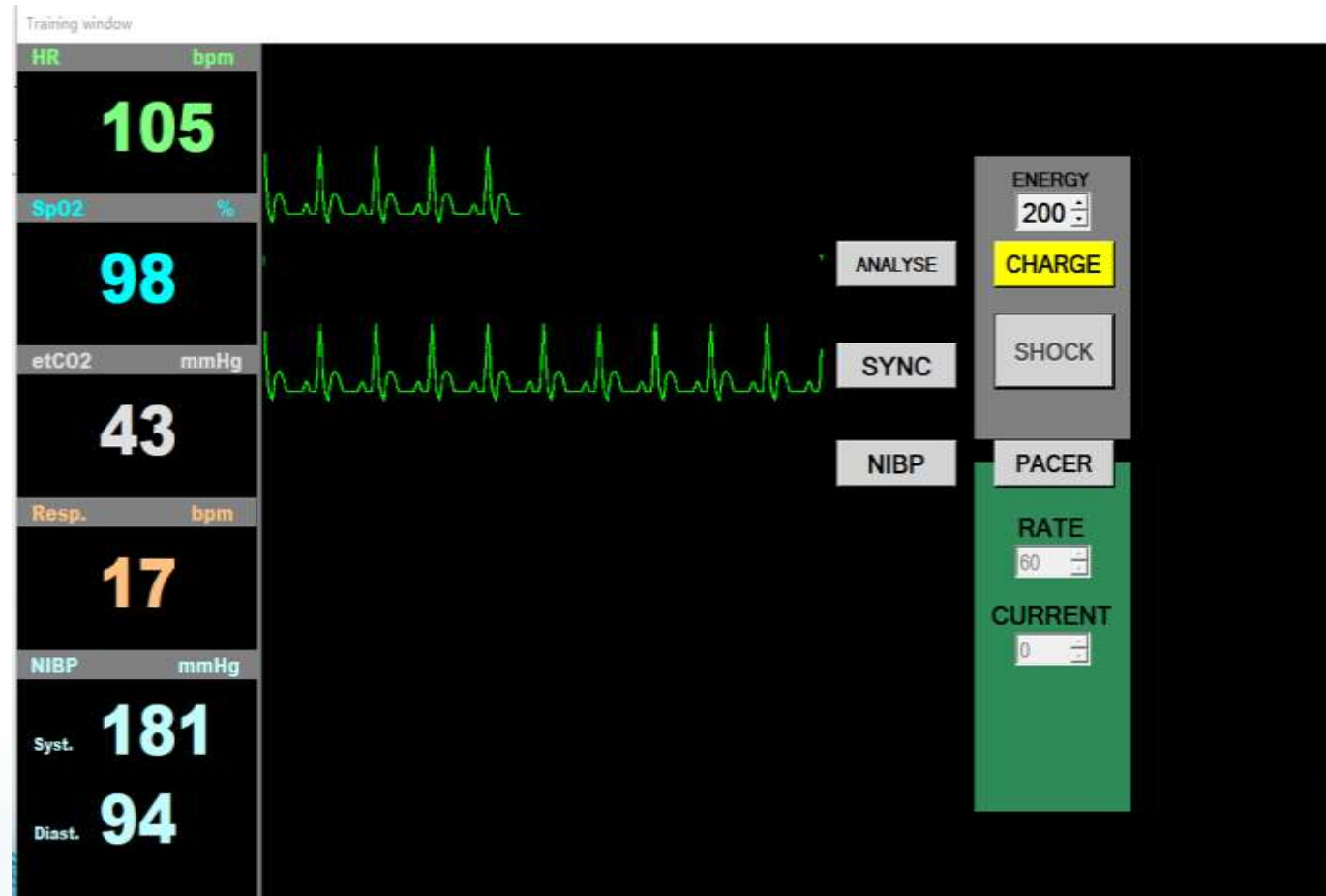


What are you gonna do?



After withholding intubation for mask ventilation, the vital signs were as follows:

13:55



What are you gonna do?



14:00 Post-treatment, the patient's vital signs were stable.

14:06 A subsequent attempt to intubate using a video laryngoscope was unsuccessful. Consequently, a face mask was utilized for manual ventilation. This intervention was met with increased resistance to air entry, and auscultation revealed crackling sounds (rales) in both lungs. Additionally, there was a notable decline in oxygen saturation levels.



What happened to the patient?

What are you gonna do?



Call the supervising physician , and what medication would you use to relieve bronchospasm?

14:15



What are you gonna do?



14:25 Following all attempts, the patient's vital signs were successfully stabilized, and the supervising physician successfully performed the tracheal intubation.

