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Background:

A 28-year-old female with no past medical or surgical history presented to the Emergency room for RUQ abdominal pain associated with nausea and vomiting. The patient was diagnosed with acute cholecystitis on CT imaging, admitted as an inpatient and consented for robotic assisted laparoscopic cholecystectomy.

Case Report:

Preoperatively, IV access with an 18G cannula was secured and the patient was premedicated with IV midazolam and transdermal scopolamine patch. In the operating room, standard monitoring equipment was connected and induction of anesthesia achieved with fentanyl, lidocaine, and propofol; succinylcholine was administered to facilitate oral endotracheal intubation and anesthesia maintained with oxygen and 2 percent sevoflurane. For intubation a Mac three blade was used for direct laryngoscopy. A grade one view of the cords was visualized, and no difficulties arose during the airway management. The endotracheal tube was fixed to the right side of the mouth via skin tape without any pressure to the cheeks. Cefazolin was administered prior to first incision. Dexamethasone, ondansetron, and ketorolac were administered in the perioperative period, and rocuronium was titrated throughout the case for muscle relaxation. At the conclusion of the procedure, muscle relaxation was reversed with neostigmine and glycopyrrolate, and the patient was extubated in the immediate postoperative period without complications. The immediate postoperative course was uneventful and the patient was admitted overnight for observation.

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Acute Transient Sialadenitis Following Robotic Assisted Laparoscopic Cholecystectomy Matthew Schepel, M.D., Austin Smith, D.O., Nicholas Nedeff, M.D. Department of Anesthesiology Kendall Regional Medical Center





Results:

Approximately 15 hours postoperatively, the patient started developing right-sided neck swelling. The swelling progressed initially over the next 24 hours with a reported increase in difficulty swallowing and pain on mandibular movement, but no respiratory distress. Anesthesia was consulted for a postoperative check. Anesthesia service recommended the use of steroids and to consider consulting ENT for further workup. The swelling gradually subsided over the next 24 hours with conservative management via steroids and self-massage and the patient was discharged home.

Discussion:

Acute sialadenitis is a rare complication that can arise postoperatively in patients undergoing general anesthesia, characterized by a transient and often painful swelling of the salivary glands. While there is not a direct cause for this complication, some ideas have been proposed: The use of muscle relaxation can predispose these glands to air trapping during mechanical ventilation

- stagnation of salivary flow
- tube can predispose to outflow tract blockage act to reduce inflammation massage, or antibiotics.

References:

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• The use of medications with anti-sialagogue effects, as in our case scopolamine and glycopyrrolate, can cause relative reduction and

 Mechanical irritation or trauma to the laryngeal structures during intubation, or duct obstruction via compression with an endotracheal Pain can be in most cases effectively controlled with NSAIDs, which also

Acute postoperative sialadenitis has a self-limiting course and excellent prognosis given respiratory compromise does not occur and can be managed conservatively in most cases with sialagogues, steroids,

1. Fazio, S. B. & K. E. (2021, April 20). Salivary Gland Stones (L. Kunins, Ed.) Retrieved April 28, 2021, from https://www.uptodate.com/contents/salivary-gland-stones