

## Rare complication of upper gastrointestinal endoscopy : bilateral swelling of parotid glands

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### Letter to Editor,

Gastrointestinal endoscopic procedures are used quite frequently in clinical practice and have very rare complications. Possible complications include ; infections, piercing or tearing of an organ, excessive bleeding, an allergic reaction to the anaesthetic. Swelling of the parotid glands has previously been reported as a rare complication of peroral endoscopy. Mechanism of this is unclear but retention of secretions may cause a blockage of salivary duct or duo to the dehydration secretions can get thicker that occlude salivary gland (1,3). In this article, development of bilateral parotid glands swelling after upper gastrointestinal endoscopy is presented.

54 years old man who had a total gastrectomy duo to the menietier disease is admitted to our clinic with dysphagia. After gastrectomy operation, stent had been implanted to the stricture that developed on the anastomosis at oesophageal junction in other medical center. He applied to our clinic with dysphagia for two days. upper gastrointestinal endoscopy was performed and residue of eating was seen on the proximal end of the stent. It was taken out by basket in this procedure. Just after the procedure we noted swelling of his bilateral parotid glands (Fig. a,b). A firm mass was palpated with no crepitation and erythema on the parotid glands. No significant pathology was found except swelling of parotid glands. We hidrated him and after 3 hours his swelling is totally get reduced (Fig. c,d). The problem has not recurred since.

Swelling of the salivary glands after upper gastrointestinal endoscopy is a rare condition. It has been reported after endotracheal intubation for general anesthesia, bronchoscopy, and upper gastrointestinal endoscopy. The etiology is unclear. But this is a benign, spontaneously resolving, though significant, finding, which is usually treated with adequate hydration and observation (2). Knowledge of the benign nature of this condition may help relieve any apprehension that the patient or the endoscopist may have.



Fig. 1. — a,b. Left and Right parotid enlargement ; c,d. Four hours after the procedure, complete resolution parotid enlargement.

### References

1. SLAUGHTER R.L. Parotid gland swelling developing during peroral endoscopy. *Gastrointest. Endosc.*, 1975, **22** : 38-9.

2. BAHADUR S., FAYYAZ M., MEHBOOB S. Salivary gland swelling developing after endoscopy : "anesthesia mumps". *Gastrointest. Endosc.*, 2006, **63** : 345-7.
3. KEKILLI M., ONAL I.K., KURT M. et al. Parotitis during oral double-balloon enteroscopy : an unexpected but benign finding. *Am. J. Gastroenterol.*, 2009, **104** : 533-4.

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