A Case of Mumps with Acute Laryngeal Edema

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We report herein on a case of mumps associated with laryngeal edema. The patient was an 18-year-old man who was referred by a nearby doctor with complaints of dyspnea and swelling of the submandibular and parotid glands. We suspected that the patient was suffering from mumps associated with laryngeal edema. The patient was hospitalized and started on treatment with intravenous steroids. Because the laryngeal edema did not improve with this treatment approach, a tracheostomy was performed. The diagnosis of mumps was confirmed by the elevated serum antibody titers. There have been about 15 reports of mumps associated with laryngeal edema especially from Japan. It is essential to examine the airway by laryngoscopy in case of mumps with swelling of the submandibular and parotid glands.

Keywords : mumps, acute laryngeal edema, tracheostomy

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Laryngeal findings at the first medical examination
Swelling of the tongue base and epiglottis is recognized from the fiberscopy findings.

Laryngeal findings at seven day after surgery
The swelling of the tongue base and epiglottis has subsided completely.

Past reports of mumps associated with laryngeal edema

Author	year	age/sex	infection history	vaccinated history	mandibular swelling	period of cure	steroid therapy	tracheostomy	waiting period for operation
Kato ³⁾	2002	34/female	—	—	+	5 days	+	+	1 day
same as above	2002	32/female	—	—	+	4 days	+	—	—
Tonouchi ⁴⁾	2002	47/male	—	—	+	7 days	+	+	0 day
Ishida ⁵⁾	2006	43/female	+	—	+	3 days	+	—	—
same as above	2006	36/female	+	—	+	3 days	+	+	2 days
same as above	2006	23/female	—	—	+	8 days	+	+	0 day
Kimura ⁶⁾	2006	26/male	—	+	+	5 days	+	—	—
same as above	2006	36/female	—	—	+	6 days	+	—	—
Matsuda ⁷⁾	2007	33/female	—	—	+	4 days	+	—	—
Kobayashi ⁸⁾	2008	23/female	—	—	+	4 days	+	—	—
Sasaki ⁹⁾	2009	30/male	—	—	+	1 day	+	—	—
Yamamura ¹⁰⁾	2009	18/male	—	—	+	3 days	+	—	—
Yamauchi ¹¹⁾	2010	87/male	—	—	+	1 day	+	—	—
Matsuki ¹²⁾	2011	31/male	—	—	+	4 days	+	—	—
same as above	2011	24/female	—	—	+	3 days	+	—	—
same as above	2011	46/female	—	—	+	4 days	+	—	—
same as above	2011	76/female	—	—	+	2 days	+	—	—
Baba ¹³⁾	2011	25/male	—	unknown	+	2 days	+	—	—
same as above	2011	31/female	—	—	+	6 days	+	—	—
same as above	2011	16/male	—	+	+	5 days	+	—	—
same as above	2011	32/female	—	±	+	1 day	+	—	—
same as above	2011	40/female	—	—	+	4 days	+	—	—
Matsumi ¹⁴⁾	2011	29/female	—	—	+	2 days	+	—	—
Kumai ¹⁵⁾	2012	39/male	—	—	+	3 days	+	—	—
same as above	2012	23/female	—	—	+	4 days	+	—	—
same as above	2012	29/female	—	+	+	2 days	+	+	0 day
same as above	2012	31/female	—	+	+	3 days	+	—	—
our report	2013	18/male	—	—	+	7 days	+	+	0 day