

Kazunori Kageyama<sup>1,2\*</sup>, Yutaka Watanuki<sup>2</sup>, Katsumi Endo<sup>3</sup> and Makoto Daimon<sup>1</sup>

<sup>1</sup>Department of Endocrinology and Metabolism, Hirosaki University Graduate School of Medicine, 5 Zaifu-cho, Hirosaki, Aomori 036-8562, Japan

<sup>2</sup>Department of Endocrinology and Metabolism, Odate Municipal General Hospital, 3-1 Yutaka-cho, Odate 017-8550, Japan

<sup>3</sup>Endo Clinic, 15-3 Kaerimichi, Takanosu, Kitaakita 018-3331, Japan

**Dates:** Received: 07 May, 2015; Accepted: 22 May, 2015; Published: 24 May, 2015

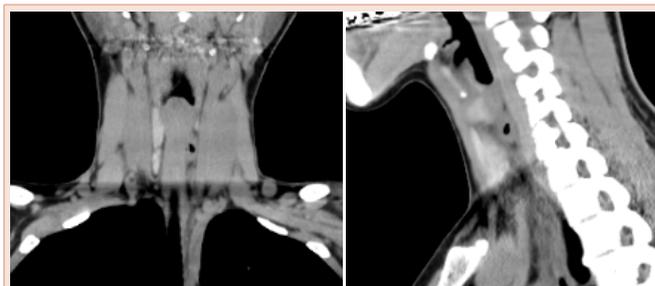
**\*Corresponding author:** Kazunori Kageyama, M.D, Department of Endocrinology and Metabolism, Hirosaki University Graduate School of Medicine, 5 Zaifu-cho, Hirosaki, Aomori 036-8562, Japan, Tel: +81-172-39-5062; Fax: +81-172-39-5063; E-mail: kkageyama@hkg.odn.ne.jp

[www.peertechz.com](http://www.peertechz.com)

**Keywords:** Pharyngoesophageal diverticulum; Thyroid; Esophagus

## Case Report

# Killian-Jamieson Diverticulum Mimicking a Thyroid Tumor



**Figure 2:** Computed tomography of the neck with contrast enhancement demonstrated a soft tissue mass with internal air between the left back side of the thyroid and esophagus.

## Dear Editor

A 42-year-old woman was referred to us for evaluation of a suspicious mass in her left thyroid gland. She had experienced left anterior neck pain and odynophagia for a few weeks. Ultrasonography (US) demonstrated a heterogenous and hypoechoic mass with bright internal hyperechoic foci and a partial surrounding halo involving the posterior aspect of the left thyroid lobe (Figure 1). Computed tomography (CT) of the neck with contrast enhancement demonstrated a soft tissue mass with internal air between the left



**Figure 1:** Sonographic examination demonstrated a heterogenous and hypoechoic mass with bright internal hyperechoic foci and a partial surrounding halo involving the posterior aspect of the left thyroid lobe.



**Figure 3:** Barium swallow pharyngoesophagography showed a barium-filled sac protruding from the left anterolateral wall of the cervical esophagus.

back side of the thyroid and esophagus (Figure 2). Barium swallow pharyngoesophagography showed a barium-filled sac protruding from the left anterolateral wall of the cervical esophagus (Figure 3).

We herein report a case of Killian-Jamieson diverticulum mimicking a thyroid tumor. Killian-Jamieson diverticulum is a rare form of hypopharyngeal pulsion diverticulum resulting from herniation of mucosa and submucosa through an area of weakened musculature [1]. The diverticulum is caudal to that of the more common Zenker's diverticulum [2]. These hypopharyngeal diverticula that cause dysphagia sometimes mimic a thyroid tumor incidentally detected on neck US [3,4], because it looks like a hyperechoic mass



with calcifications in the thyroid. For a differential diagnosis, it may be important to show mobility of the mass by swallowing and moving the head. Kim et al. proposed to show changes in the shape of a mass after drinking soda [5].

In the present case, diagnosis by pharyngoesophagography and CT images, together with US, prevented an unnecessary fine needle-aspiration biopsy. Such a fine needle-aspiration biopsy could have been potentially harmful in the context of Killian-Jamieson diverticulum. Clinicians should pay attention to the presence of the diverticulum.

### Disclosure

None of the authors have anything to disclose.

### References

1. Shanker BA, Davidov T, Young J, Chang EI, Trooskin SZ (2010) Zenker's diverticulum presenting as a thyroid nodule. *Thyroid* 20: 439-440.
2. Rodgers PJ, Armstrong WB, Dana E (2000) Killian-Jamieson diverticulum: a case report and a review of the literature. *Ann Otol Rhinol Laryngol* 109: 1087-1091.
3. Lee F, Leung CH, Huang WC, Cheng SP (2012) Killian-Jamieson diverticulum masquerading as a thyroid mass. *Intern Med* 51: 1141-1142.
4. Pang JC, Chong S, Na HI, Kim YS, Park SJ, et al. (2009) Killian-Jamieson diverticulum mimicking a suspicious thyroid nodule: sonographic diagnosis. *J Clin Ultrasound* 37: 528-530.
5. Kim TH, Kim S, Chang KS (2015) Simple method of using soda for distinguishing Killian-Jamieson diverticulum from a thyroid nodule. *Endocrine* 48: 351-352.

**Copyright:** © 2015 Kageyama K, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

**Citation:** Kageyama K, Watanuki Y, Endo K (2015) Killian-Jamieson Diverticulum Mimicking a Thyroid Tumor. *Int J Clin Endocrinol Metab* 1(1): 007-008.