

## Peer Review File

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### Reviewer A Comments

The bleeding into cystic space of thyroid tumor is not rare and is experienced often. The most bleeding has not clear reason to occur and suddenly occur with enlargement of cystic mass and often with pain and/or dysphagia and /or dyspnea.

-Thank you for your comment. The case was considered rare as we have a high volume endocrine surgery center and we have only 1-3 cases of thyroid hemorrhage per year.

### Reviewer B Comments

I want to congratulate the authors for their work in which they presented an interesting case report of a spontaneous thyroid hemorrhage, infrequent situation in clinical practice. The case is well presented , even though in some aspects providing excessiva data that is not pertinent to the reader.

1. A thorough grammar review by an English language native would be a big improvement to the text.

-The manuscript was revised and edited by a native language speaker. Thank you for the comment.

2. Some major changes must be done to the manuscript in order to achieve the standards for publication in “Annals of Thyroid” :

- 1) The CARE checklist was not well filled , namely in the abstract fields and must be changed.
- 2) Title (line 2) –“ Clinical case” must be replaced by “case report “ according CARE statements.
- 3) Keywords also should include “case report”.

-Thank you. We added all of the recommendation. The CARE checklist was changed to a newer one.

3. Introduction – How rare is the case? Authors should provide some background about incidence of the phenomenon, , giving context to their case.

-There is no exact incidence on spontaneous thyroid hemorrhage as there are only a few case reports in the literature. We added this information in the text.

4. Case presentation - the absence of trauma history must be clearly stated as well the relevant previous pathology and medications.

-Thank you. We added a line “The patient did not report any trauma, medication or chronic conditions.”

5. Discussion – this section must be changed, decreasing the generic sentences about neck masses and thyroid tumors and expanding the discussion about the management of the case , and lessons provided by the case

-We made several changes and paid more attention to the management of these cases.

6. The interesting management algorithm presented (Figure 2) should have more relevance in the discussion, and a sentence as “the authors present an algorithm for the management o the situation” must be added to the main text.

If the algorithm is not designed by the authors, the author must be quoted.

-The algorithm is designed by the authors. We indicated this in the text.

### **Reviewer C Comments**

1. Spontaneous bleeding within thyroid nodules is not uncommon. I agreed with authors that most patients are successfully treated with conservative treatment. Surgery is rarely necessary when conservative treatment fails, like this reported cases.

-Thank you for your comment. The case was considered rare as we have a high volume endocrine surgery center and we have only 1-3 cases of thyroid hemorrhage per year.

2. CT scan is better than ultrasonography to delineate the trachea compression.

-We discuss the necessity of CT scan in a stable patients. As the patients condition deteriorated she undergone emergency surgery.

### **Reviewer D Comments**

This is an interesting case report of a rare hemorrhage of a thyroid mass. The case was clearly described and the discussion was sufficiently written. There are only a few comments to improve the paper.

1. Histological descriptions were provided. It would be beneficial to readers if histological images are provided.

-Unfortunately we did not add figures as there are already several figures in this case report.

2. Thyroidea ima artery, although it is a rare anatomical variation (3.8% prevalence) (Yurasakpong et al., 2022 in Annals of Anatomy), can pose a risk for hemorrhage to a non suspecting surgeon. Please add this variant artery to the discussion as a possible cause of hemorrhage during thyroid surgery.

-Thank you we added this citation and discussion.

3. Abstract and Case presentation: Change to “a 42-year-old”

-Corrected.

4. Line 98: Do not use a colon in this sentence “During a planned histological examination: in the tissue of the right lobe of the thyroid gland, ……”

-Corrected.