Thyroid epidermal cysts in a developing community

Abstract
The epidermoid cyst is a benign lesion which characteristically consists of a cyst lined by squamous epithelium and contains keratinous debris. With regard to the thyroid gland, it is usually not diagnosed until biopsy is undertaken. Therefore, this paper presents 3 cases from a histopathology data pool serving the Ibo/Igbo ethnic group domiciled in a developing community. It is usually misdiagnosed until biopsy confirms the nature of the lesion.

Keywords: thyroid, swelling, biopsy, cyst, squamous lining, keratinous contents

Introduction
The epidermoid cyst is a benign lesion which characteristically consists of a cyst lined by squamous epithelium and contains keratinous debris. With regard to the thyroid gland, it is usually not diagnosed until biopsy is undertaken. Therefore, this paper presents 3 cases from a histopathology data pool serving the Ibo/Igbo ethnic group domiciled in a developing community. It is usually misdiagnosed until biopsy confirms the nature of the lesion.

Investigation
The Laboratory Request Form was made available to the local practitioners. They were encouraged to send specimens in adequate formol-saline and adequate data, consisting of name, age, sex, complaints, duration, examinations, biopsy, doctor and provisional diagnosis. The stored reports were scrutinized strictly and documented duly so as to obtain the data for epidemiological analysis (Table 1). (Figure 1).

Table 1  Epidemiologic details

<table>
<thead>
<tr>
<th>S/No.</th>
<th>Lab No.</th>
<th>Initials</th>
<th>Sex</th>
<th>Age (yr)</th>
<th>Duration (yr)</th>
<th>Diagnosis</th>
<th>Cyst content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>961269</td>
<td>KN</td>
<td>F</td>
<td>28</td>
<td>7</td>
<td>Thyroid nodule</td>
<td>Smelly</td>
</tr>
<tr>
<td>2</td>
<td>H 113/03</td>
<td>IC</td>
<td>M</td>
<td>5</td>
<td>3</td>
<td>Aberrant thyroid</td>
<td>Friable</td>
</tr>
<tr>
<td>3</td>
<td>H 204/07</td>
<td>OO</td>
<td>M</td>
<td>4</td>
<td>3</td>
<td>Ectopic thyroid</td>
<td>Murky</td>
</tr>
</tbody>
</table>

What stands out in the Table above is that the younger elements were males. This is in keeping with their preference among local mothers. Likewise, the female attended quite old probably because of the tendency of this sex to worry increasingly about one’s appearance as years roll by Batten AJ.

Discussion
In this community, vulvae epidermis cysts first attracted attention as an aftermath of the deplored female circumcision. A curious outcome of this practice was the formation of vaginal stone. Another presentation was the ophthalmological one.

Now that the thyroid relationship has been presented above, was comparison noted with the literature cases? Certainly, ultrasound was undertaken in Case 2 but it was reported as “aberrant thyroid.” Thus, as in the Netherland’s case, ultrasound guided cytological analysis was inconclusive. Likewise, in the USA case, sonographic examination ran thus: “The appearance of the lesion was atypical with a faint, crescent, slightly hyper echoic anterior surface, not acrogenic enough to suggest calcification, and with deep posterior acoustic attenuation, making it impossible to evaluate the internal structure.”

In the Indian case, in which “Careful preoperative imaging and fine needle aspiration suggested the non-thyroid origin of the mass,” it was “complete surgical excision of the mass (that) revealed the final pathology as an epidermal inclusion cyst.” This particular conclusion was my local experience.

Conclusion
Long ago, Strome & Eraklis made the point that cysts in the neck may be of thymic origin. As they stressed, “heightened awareness of this clinical entity should enable preservation of the normal thymus gland.” As it turned out, none of the present specimens contained thymic tissue. Likewise, it is to be noted that the specimen was not that of a thyro-glossal cyst, which is regarded as the most common cause of midline neck masses.
**Acknowledgments**

None.

**Conflicts of interest**

Author declares that there is no conflicts of interest.

**References**


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