Use of chalazion clamp for minor salivary gland biopsy in the diagnosis of Sjögren’s syndrome

ABSTRACT

Minor salivary gland biopsy is essential for the diagnosis of Sjögren’s syndrome. The authors demonstrate the use of chalazion clamp to facilitate this procedure. Chalazion clamp retains the lip mucosal bleeding and exposes the salivary glands more easily for their dissection and excision individually, which facilitates the removal of various glands to histopathological examination.

Keywords: Sjögren’s syndrome, biopsy, chalazion, surgical instruments, minor salivary glands.

INTRODUCTION

Surgical procedures in the oral cavity, even small ones, present heavy bleeding and difficult access, which makes necessary the help of an assistant. The authors present the use of chalazion clamp to facilitate the accomplishment of minor surgical procedures in the oral cavity in daily practice, particular the minor salivary gland biopsy to assist in the Sjogren’s syndrome diagnosis.

OBJECTIVE

Our proposal is to demonstrate the technique of minor salivary gland biopsy with the aid of chalazion clamp.

METHOD

The biopsy should be performed on the lower labial mucosa, right or left, in the middle portion between the lower gingival sulcus and the vermilion border of the lips, and between the midline and the labial commissure.

1. Mental nerve block by infiltration on lower gingival sulcus at the side that will be biopsied;
2. Placement of chalazion clamp at the site to be performed the procedure (Figure 1);
3. Horizontal incision of approximately 1 cm in the mucosa only;
4. Dissection and removal with tweezers and scissors of minor salivary glands in numbers of 4 to 7 (Figures 2 and 3);
5. Sutured with 5-0 catgut.

DISCUSSION

Dermatologic procedures in the oral cavity, though small, require the presence of an assistant to their achievement. In 1970, Garcia and Davis demonstrated the use of chalazion clamp to assist small dermatological procedures in the dermatologist’s daily practice. Since then, this “great help” was no longer mentioned in the literature for these procedures, and many physicians do not use it by forgetfulness or lack of habit.

Sjögren’s syndrome is characterized by keratoconjunctivitis sicca, xerostomia associated with immune-mesenquimal condition or other systemic disease. Biopsy of labial salivary gland is important for the diagnosis. Typically, there is a dense lymphocytic infiltrate with many plasma cells and a small number of histiocytes aggregated into small foci.
Use of chalazion clamp for minor salivary

With this technique described by Daniels, glands are dissected and removed separately, providing an adequate number of glands for histopathologic analysis, with less chance of damaging the labial sensitive vessels and nerves. With the use of chalazion clamp, the bleeding is contained by the pressure supplied by the clamp lower plate and upper loop. The salivary glands are more exposed and easily dissected, providing the appropriate number of glands for histopathologic study.

CONCLUSION

The chalazion clamp should be an ever present device in a dermatologist surgical material.

REFERENCES