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Área de Gestión Sanitaria Campo de Gibraltar Oeste



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OFF-LABEL USE OF INTERFERON ALPHA 2B EYE DROPS IN CORNEAL INTRAEPITHELIAL NEOPLASIA: A CASE REPORT

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BACKGROUND AND IMPORTANCE

Corneal Intraepithelial Neoplasia (CIN) is the most frequent tumor of the ocular surface. Treatment options include excisional

biopsy and topical adjuvant eye drops: mitomycin (MMC), 5-fluorouracil (5FU) and interferon alpha-2B. The use of interferon alpha-2B eye drops confers advantages such as its availability, safety and efficacy, in addition to the absence of serious side effects compared to 5FU and MMC. The usual dosage regimen for interferon alpha-2B eye drops is 1 drop 2-3 times per day.



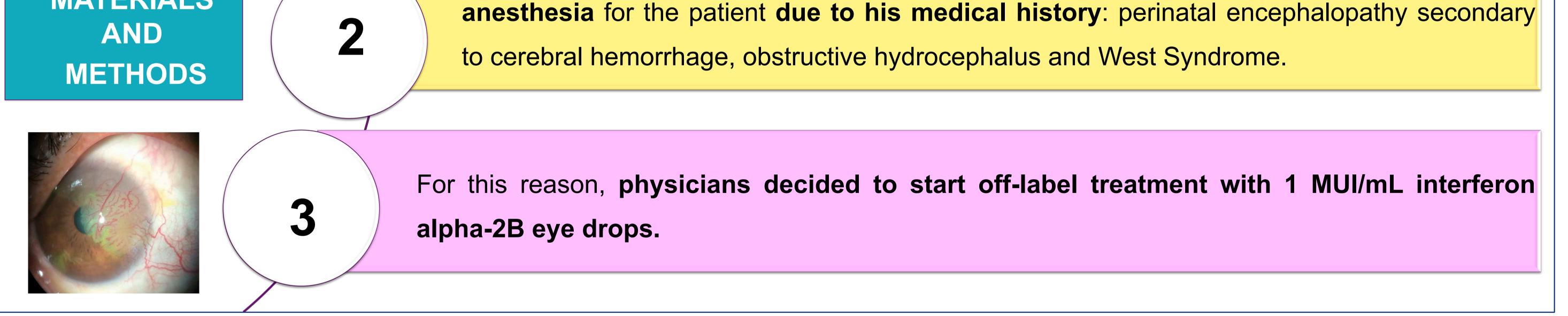
MATERIALS

AIM AND OBJETIVES

To describe interferon alpha-2B eye drops preparation as a magistral formula as well as to evaluate the effectiveness and safety of this treatment in a patient with CIN.

We ran a descriptive study of a 39-year-old man diagnosed with CIN in the left eye.

In February 2024, surgical intervention was ruled out due to the high risk of general





The elaboration was carried out taking 1mL (5 MUI) from the reconstituted vial of interferon alpha-2B and filling it out with sterile water for injections to get a final volume of 5 mL, resulting in a 1 MUI/mL concentration. The mixture was prepared in a horizontal laminar flow hood. It was filtered through a 0.22µm filter and placed in a sterile eye drop bottle. The preparation was kept in cold storage (2-8°C) and an expiration date of 7 days was assigned once opened.

A total of 28 interferon alpha-2B eye drops were dispensed from March to October 2024. The patient presented good tolerance

(no adverse effects) but no reduction of lesions and symptoms after 3 months of starting treatment. However, in July 2024

improvements in lesions were observed so it was decided to continue with treatment. In October 2024, the patient shows no

improvement and surgery was considered.

CONCLUSION AND RELEVANCE

The formulation was simple and did not require much preparation time. Our experience shows that interferon alpha-2B eye

drops appear to have moderate efficacy in patients with CIN with a safe adverse effect profile, although further studies are

required.