INSULIN EYE DROP FORMULATION: EFFECTIVENESS, SAFETY AND PATIENT SATISFACTION

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BACKGROUND AND IMPORTANCE

- Recently, the insulin eye drops formulation 1 IU/ml has been included in the Pharmacotherapeutic Guide. Recent studies demonstrate its efficacy and safety in the treatment of keratitis and dry eye.

AIM AND OBJECTIVES

- To analyze the patient profile and describe the characteristics of insulin eye drops treatment, as well as its effectiveness, tolerance and patient satisfaction.

MATERIAL AND METHODS

A retrospective observational study in a tertiary hospital. Patients treated with insulin eye drops during the period January-September 2021

RESULTS

- Variables collected:
  - Demographics
  - Indication and duration of treatment
  - Line of treatment
  - Clinical response
  - Adverse effects
  - Patient satisfaction

  "Treatment Satisfaction Questionnaire for Medication" version 1.4
  14 questions, distributed in:
  - Effectiveness
  - Side effects
  - Convenience
  - Overall satisfaction

  A descriptive statistical analysis was performed with measures of central tendency and dispersion for quantitative variables (mean and standard deviation [SD]) and absolute frequencies for categorical variables.

- Duration of the treatment: 120.01 days (SD: 43.81)
- 34 patients treated with insulin eye drops 1 UI/ml
- Mean age 58.89 years (SD: 15.79)
  - 47.10% women

- Line of treatment:
  - First: 2.94%
  - Second: 8.82%
  - Third: 17.65%
  - Fourth or successive: 70.59%

- 91.18% responded to treatment
- 8.82% showed toxicity

- Patients were satisfied or superior in terms of:
  - Effectiveness: 91.17%
  - Side effects: 8.53%
  - ConvenienCe: 88.23%
  - Overall satisfaction: 94.12%

CONCLUSION AND RELEVANCE

- The insulin eye drops formulation 1 IU/ml is a good therapeutic alternative as a rescue treatment in patients refractory to the usual treatments. The preparation, by the pharmacist, of formulas, allows to cover possible therapeutic gaps in the treatment of herpetic and non-herpetic keratitis.

4. Historical research

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