EVALUATION OF DRY EYE SEVERITY AND THERAPEUTIC ADHERENCE OF PATIENTS ON AUTOLOGOUS SERUM EYE DROPS

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OBJECTIVES

To characterize
- Patients treated with ASC
- Their dry eye severity
- Their adherence to treatment despite all the constraints

BACKGROUND

Autologous serum eye drops (ASC) = preparation in last resort in the most severe forms of dry eyes

Only a few hospitals are able to manufacture and dispense this treatment

Important logistical constraints including blood samplings for the preparation, frozen storage (including during transport) and monthly or bi-monthly dispensing

MATERIAL AND METHOD

- Multicentric study, 4 hospitals in France
- Prospective, non interventionnal
- Inclusion criteria:
  - Patients ≥ 18 years
  - Patients with current treatment by ASC (with two different doses 20 or 50 %)
- Composite form, given to each outpatient coming to collect his ASC at hospital pharmacy, composed of:
  - OSDI form: Ocular Surface Disease Index to evaluate intensity of dry eye syndrome
  - GIRERD form adapted to eye drops for adherence to treatment

RESULTS

99 forms were recovered and 65 were entered for analyze at this time

Sex ratio H/F : 33/67
Average age : 56 years [19;88] (1 no response NR)
Standard profile : middle age woman

Patients were treated since 31.9 months [0.75;120] (around 2.5 years) in average (3 NR)

OSDI score and dry eye severity:
- 12 questions
- 6 possible answers:
  - Always (4 pts)
  - Most of the times (3 pts)
  - Half the time (2 pts)
  - From time to time (1 pt)
  - Never (0 pt)
  - Not concerned

GIRERD score and therapeutic adherence:

- Do you feel that the number of eye drops you have to take daily is to high ?
- Have you ever decided not to take your treatment because of side effects?
- Have you ever missed your treatment because of bad memory?
- Have you ever taken your treatment with delay in comparison with usual schedule?
- Since the last visit, have you been run out of treatment?
- This morning, did you omit to take your treatment?

DISCUSSION

This study showed us that more than 80% of patients treated with ASC suffered from moderate to severe dry eye syndrome. The only 23% of patients with good compliance and the almost 50% of patients took their treatment with delay in comparison with usual schedule force us to work on therapeutic adherence. This work continues with all the forms unanalysed, two new participating hospitals and quality of life evaluation with NEI VFQ 25 form exploitation.

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