

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

CHAPRON P.¹ ; DORY A.² ; HELOURY J.³ ; BONSERGENT M.¹ ; OLIVIER E.¹ ; DELAUNAY C.¹ ; ORIGNAC I.⁴ ; LEPELLETIER A.¹ ; LEGENDRE P.⁵ ; HUON J-F.^{1,6}



¹ Nantes Université, CHU Nantes, Pharmacie, F-44000, France.

² Pharmacy, Teaching Hospital, Strasbourg, France.

³ Pharmacy, Teaching Hospital, Bordeaux, France.

⁴ Ophthalmology, Teaching Hospital, Nantes, France.

⁵ Pharmacy, Teaching Hospital, Rennes, France

⁶ INSERM, UMR 1246 SPHERE, Nantes, France.



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

OBJECTIVES

To characterize

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

MATERIAL AND METHOD

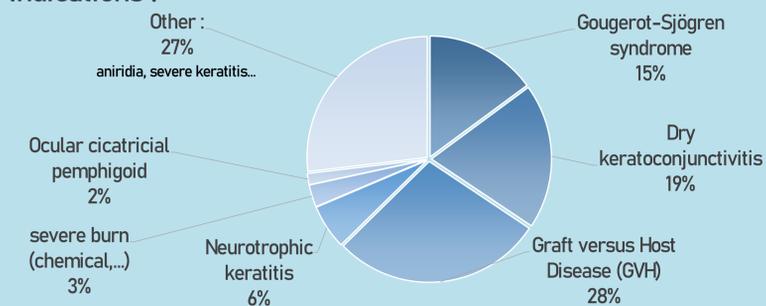
- Multicentric study, 4 hospitals in France
- Prospective, non interventional
- Inclusion criteria :
 - Patients ≥ 18 years
 - Patients with current treatment by ASC (with two different doses 20 or 50 %)
- Composite form, given to each outpatient coming to collect his ASC at hospital pharmacy, composed 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)

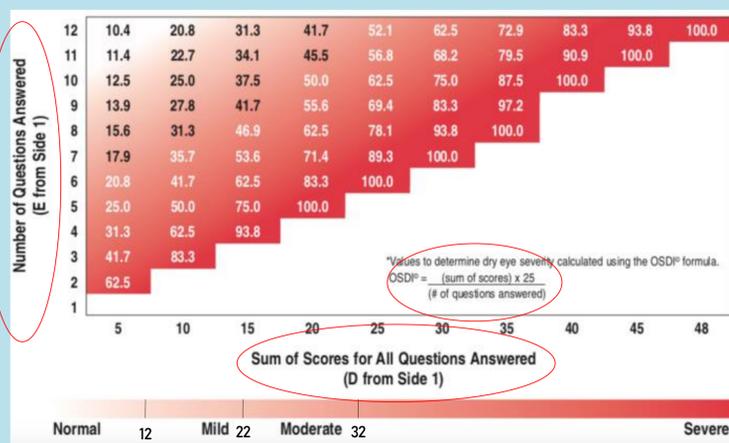
Indications :



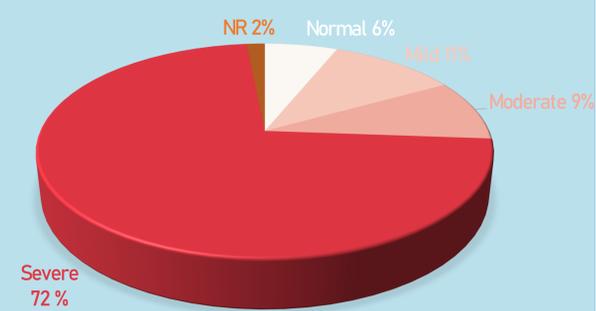
OSDI score and dry eye severity :

- 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

For example :
 • 11 responses/12 questions
 • Sum of scores : 9 pts
 $OSDI = \frac{9 \times 25}{11} = 20,5$ (mild)

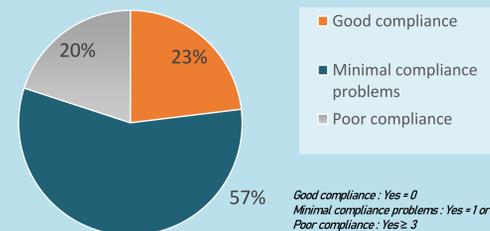
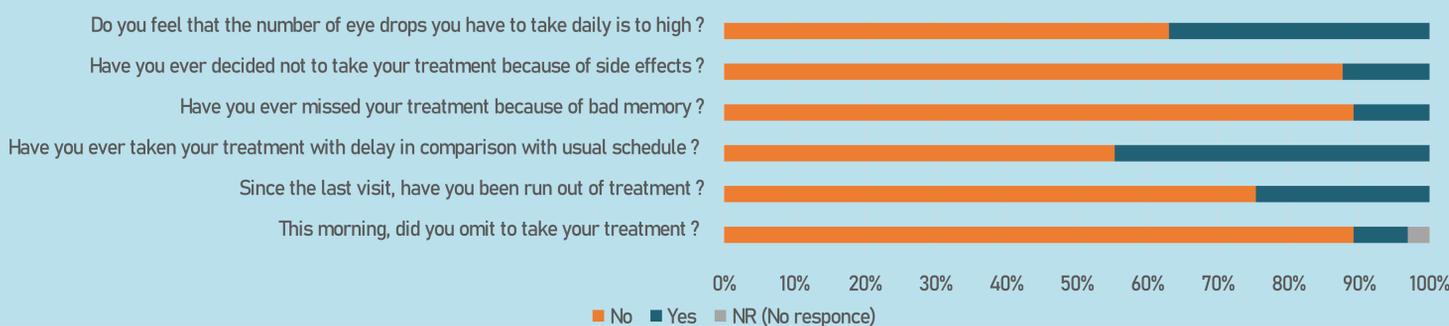


SEVERITY OF DRY EYE SYNDROME ACCORDING TO OSDI SCORE



GIRERD score and therapeutic adherence :

GIRERD form results



Good compliance : Yes = 0
 Minimal compliance problems : Yes = 1 or 2
 Poor compliance : Yes ≥ 3

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.