

IMPACT OF OPHTHALMOLOGICAL PREPARATIONS IN THE PHARMACY SERVICE OF A REFERENCE HOSPITAL

I. Salar Valverde¹, N. Manresa Ramon¹, M. Gil Candel¹, M. Onteniente Candela¹, C. Pastor Mondejar¹, C. Caballero Requejo¹, C. Iniesta Navalon¹, M. García Coronel¹, E. Urbieta Sanz¹.

¹Hospital General Universitario Reina Sofía, Hospital Pharmacy, Murcia, Spain

3PC-051



Background

There are many medicinal products that, although having shown efficacy and safety in different ophthalmological indication, they are not authorized or commercially available for ophthalmic administration.

Purpose

To evaluate the elaborations of ophthalmological medicines which must be prepared in the Pharmacy Service.

Material and methods

Retrospective study of ophthalmological preparations in a reference hospital.

January 2016 ↔ December 2017

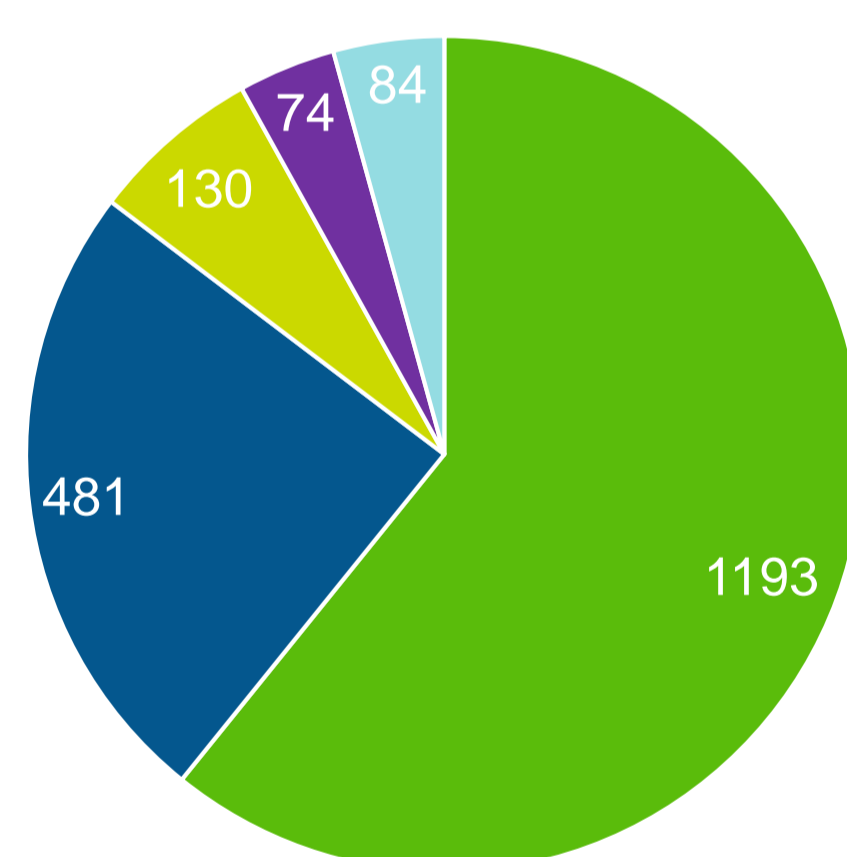
Data source: **SAVAC**[®] computer system

The parameters measured

- Treatment
- Administration (eye drops or intraocular injections)
- Economic impact

	2016	2017
total ophthalmological preparations	17188	20430
eye drops	13990	16838
intraocular injections	3128	3592

Intraocular injections

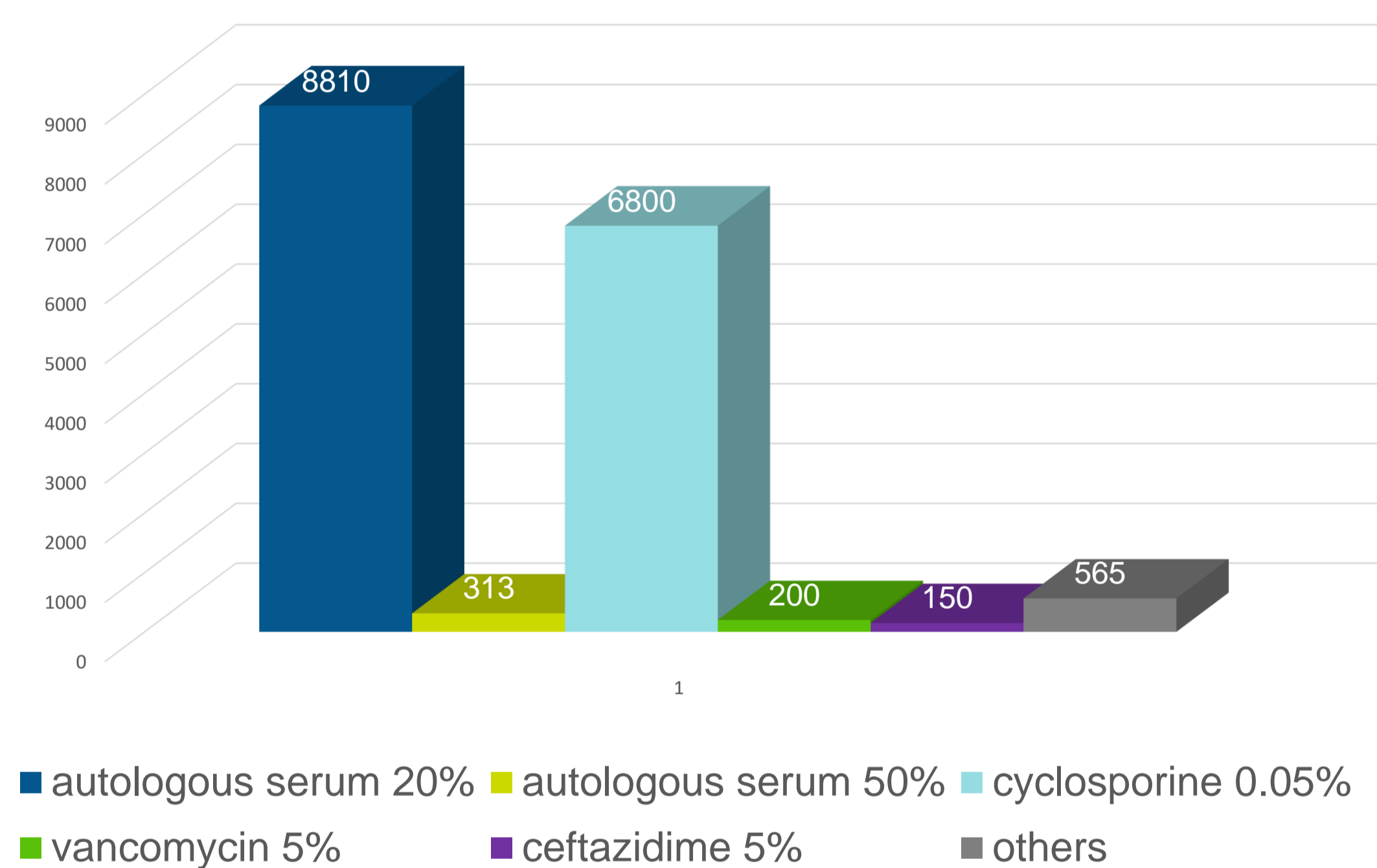


■ cefuroxime 1mg/0.1ml ■ aflibercept 2mg/0.05m ■ vancomycin 1mg/0.1ml
■ ceftazidime 2mg/0.1ml ■ bevacizumab 5mg/0.2ml ■ others

The main increase was concentrated in saving of aflibercept 2mg/0.05ml intraocular injections.

Results

Eye drops



The main increase was concentrated in autologous serum 20% eye drops and cyclosporine 0.05% eye drops (17% and 20%, respectively)

bevacizumab 2.5% eye drops (12,008,4 €/year)
 +
 intravitreal syringes of aflibercept 2mg / 0.05ml (244,920 €/year)
 = 98% of the total expense (260,920€)

Conclusion

The ophthalmological preparations in pharmacy hospital have **increased a 19%**. Autologous serum 20% and cyclosporine 0.05% were impacted of 92% eye drops, including the longest storage duration tested. They must be prepared in the Pharmacy Service according to quality criteria to ensure its effectiveness, stability and sterility¹ and **supposed a high economic impact (260,816.76€)**

References

Fuentes-Irigoyen R, Martín de Rosales Cabrera AM, Riestra AC, Vila MN, Davila-Pousa C, Alonso Herreros JM, et al. Consenso SEO-SEFH sobre recomendaciones de utilización y elaboración de preparaciones oftálmicas. Farmacia hospitalaria.2018; 42(2): 82-88.

