TREATMENT OF RECURRENT OTOMYCOSIS WITH LOCAL APPLICATION OF A COMPOUNDED FORMULATION OF VORICONAZOLE EAR DROPS: CASE SERIES

L. Carrasco Piernavieja¹, E. Zhan Zhou¹, M. Domínguez Bachiller¹, A.M. Martín de Rosales Cabrera¹, M.S. Marcos Salazar², M. Pérez Encinas¹

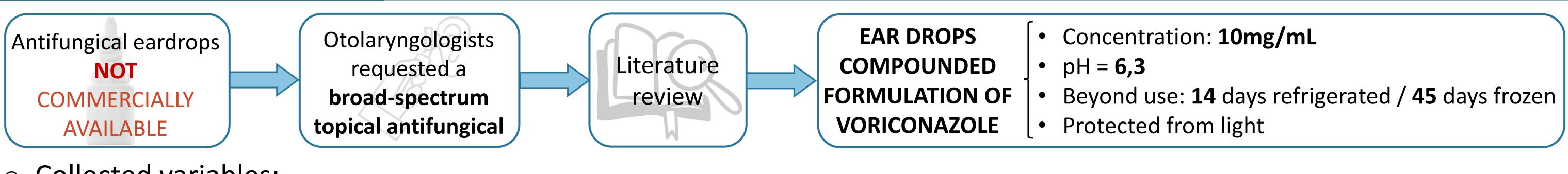


BACKGROUND

·Hospital pharmacy. ²Otorhinolaryngology. Hospital Universitario Fundación Alcorcón, Madrid, Spain ATC code: J02 - Antimycotics for systemic use

Otomycosis are suppurative fungal infections that affect the external auditory canal. Patients have a high rate of recurrence and prone to invasive fungal infections after receiving limited therapeutic options with low response.

To describe the use of a sterile formulation of topical voriconazole eardrops (VE) for the treatment of otomycosis and analyze its effectiveness and safety.



Collected variables:

From clinical history

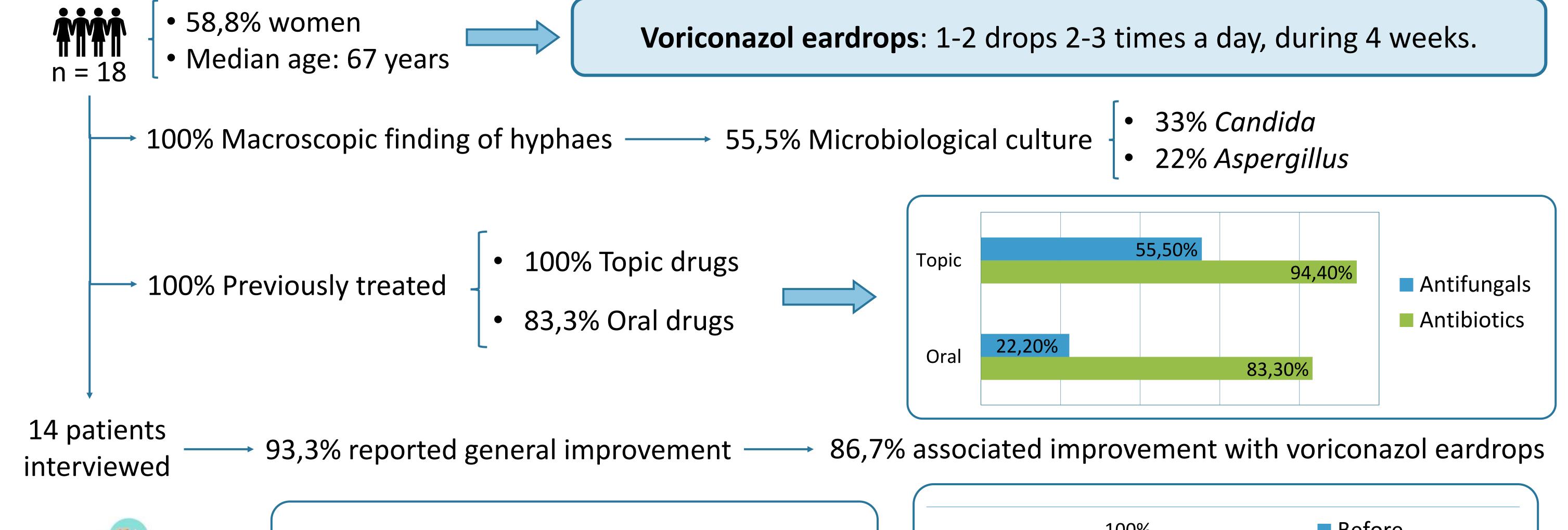
- Gender
- Age
- Microbiological culture
- Previous treatments (topic and oral)
- Treatment time with Voriconazole ear drops

Through an interview by pharmacist

- Outcomes (before/after)
- Humidity
- Otorrhea
- Aerache
- Itching
- Loss of hearing
- Adverse effects

- Patients consent was requested.
- Statistical analysis: SPSS v19. 0 and STATA, using the McNemar test of paired data.

RESULTS





- experienced significant Patients improvement in humidity, otorrhea, earache and itching (p < 0.05).
- 36.4% perceived an improvement hearing loss (p > 0.05).
- Mild tingling was the only AE recorded.

Before 100% 88,20% After 41,20% 41,20% 13,30% 6,70% 6,70% Itching Humidity Otorrhea Earache

Voriconazole eardrops seems an effective and safe option that significantly reduces symptoms in patients with recurrent otomycosis which failed to other therapeutic alternatives. Further prospective studies are needed to confirm these findings.

