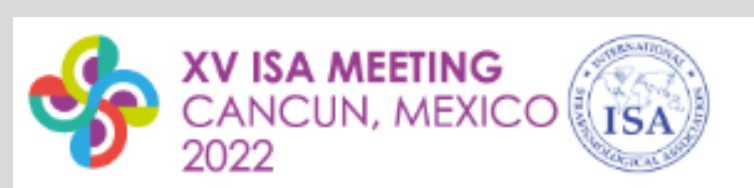


Are Retinofilms practical at preverbal stages?

Dr. D. Fdez-Agrafojo (PhD), H. Morales, LI. Bielsa

Instituto INOF. Centro Médico Teknon. Barcelona



These studies are conducted without any commercial interests.

Objective: The objective of this study was to establish a relationship between the retinoscope using animated films “Retinofilms” and the retinoscope with cycloplegic.



What is Retinofilms?

- Retinoscopy using animated movies
- These movies contain pictures
- Short movies that interest children
- Movies accompanied by music
- Stimulus to keep the child's attention

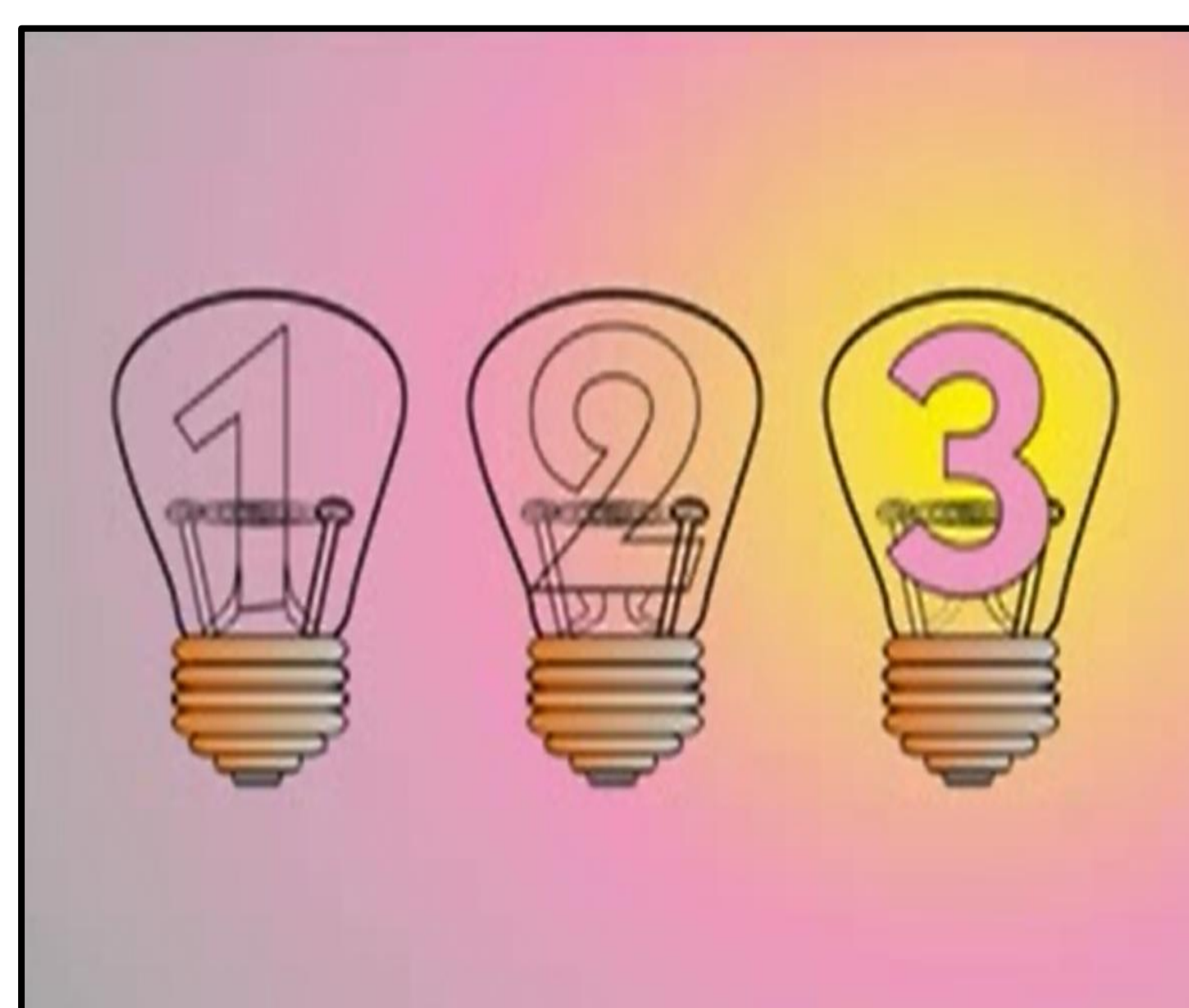
Using de Retinoscopy

- It allows a better clinical evaluation of the visual system of preverbal children.
- The retinofilms allow the child to maintain his/her vision fixed at a distant target and so the accommodation relaxes

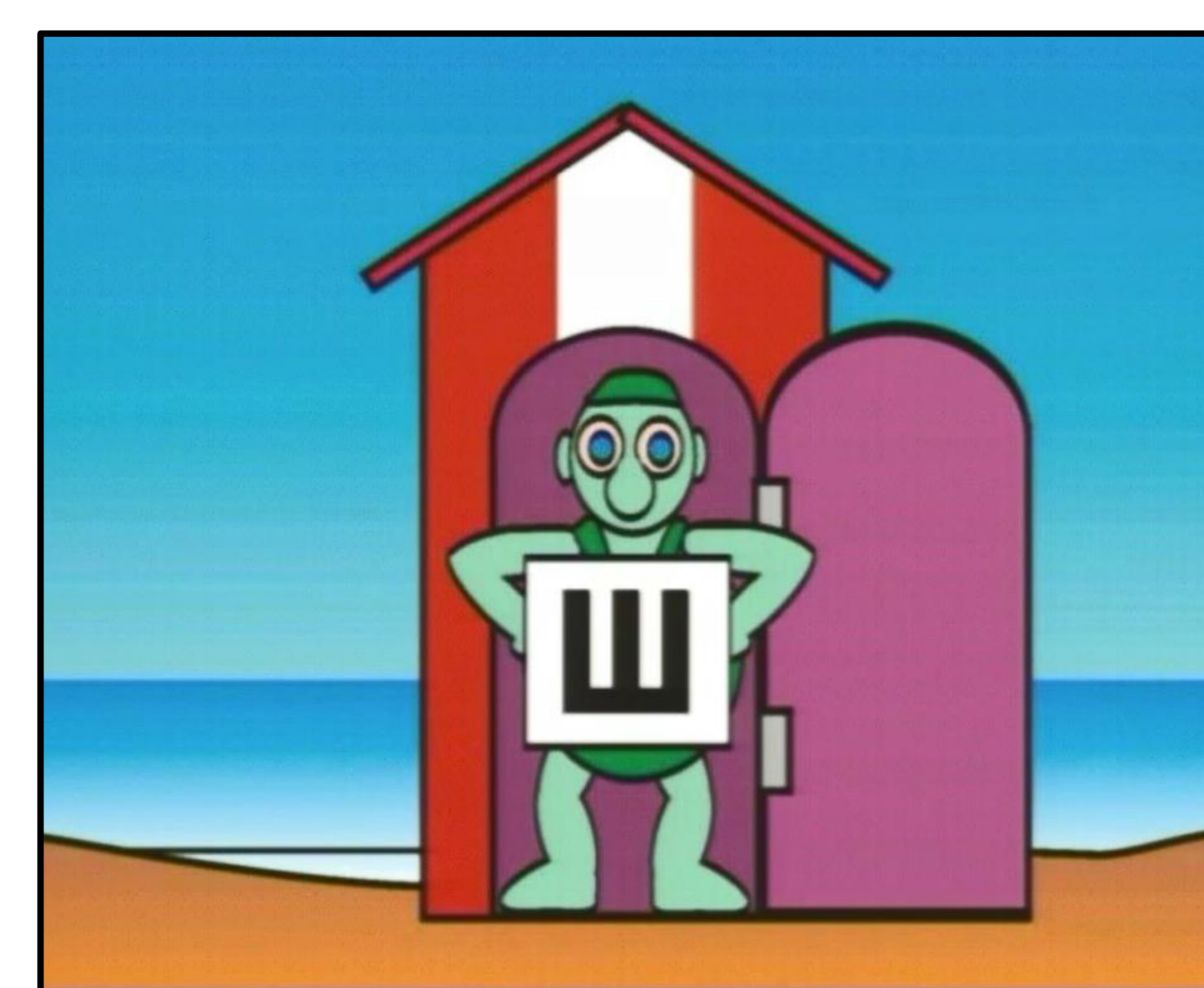
Illustrations: Lluís Bielsa



Canal Youtube Centro INOF de la Dra. Fdez-Agrafojo:
Retinoscopia con retinopeli «El pingüino»



Canal Youtube Centro INOF de la Dra. Fdez-Agrafojo:
Retinoscopia con retinopeli «Las Bombillas»



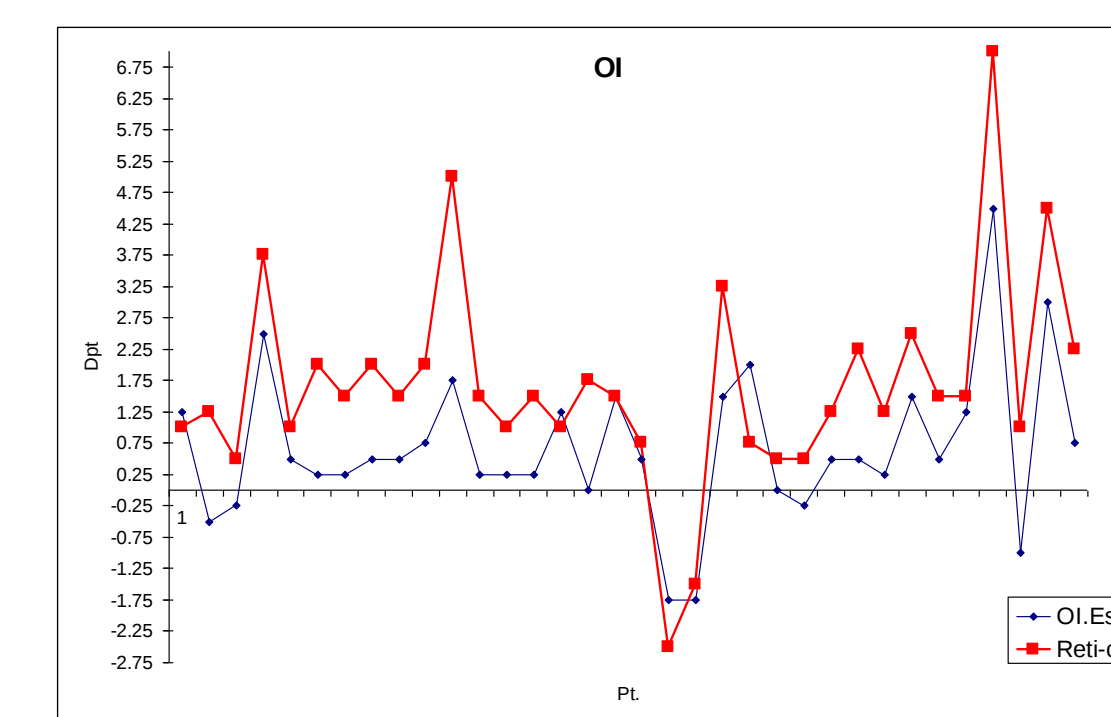
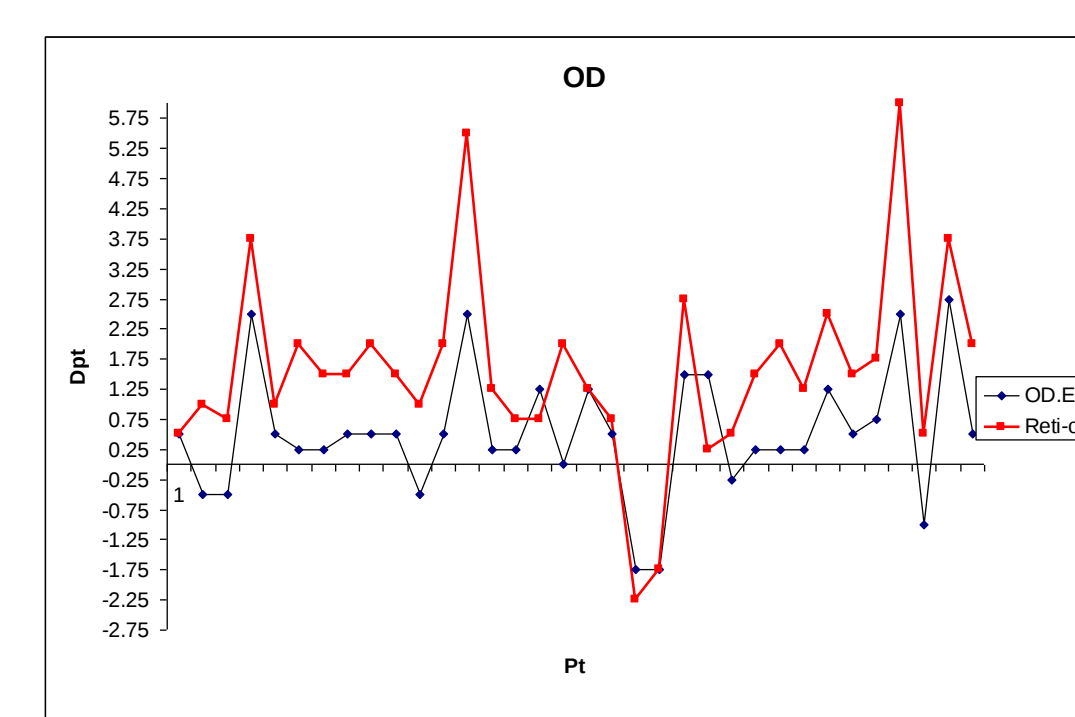
Canal Youtube Centro INOF de la Dra. Fdez-Agrafojo:
Retinoscopia con retinopeli «El marcià»

Method

- (n) 50 children
- Ages between three and seven.
- Were studied using the retinofilms and subsequently the retinoscope with cycloplegic.
- It is important to note that these children do not show any eye disorders.
- We put one drop of cyclopentolate 0,5% in each eye one hour before the retinoscopy, and again after 30 minutes
- A correlation formula was used to establish a relationship between both sets of results.

Results

- 64% of the results are related ($r^2 = 0,64$)
- The relation between both tests is of 0,75 diopters ($r=0.8$)
- When testing astigmatism, results are astonishing, between 70 to 82% of the cases, the axes coincide in both tests, which makes retinofilms more credible.



Conclusions

- We concluded that adding 0.75 diopters to the results of the retinofilms allows us to obtain the same results as those of the retinoscope with cyclopentolate.
- Although one method does not exclude the other, it is interesting to have an alternative and obtain the retinoscope without dilation in some cases.