

Importance of Contact Lenses Use on Low Vision Patient

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Abstract

Many are the possible benefits from the utilization of contact lenses in the rehabilitation process of low vision patients. Among such benefits, it can be mentioned: decrease of Incapacitant Photophobia through the use of filtering lenses with specific colorization, color perception improvement among color blind patients, improving reading efficiency by decreasing nystagmus velocity, qualitative improvement in vision acuity, and last, but not least, self esteem improvement through treatment towards leukoma and visual corneal scars.

Keywords: Contact Lenses; Patient

Possible hardships that may arise from such exam and adaptation can be relieved through careful clinic evaluation, which includes: accurate visual exam with proper acuity charts, visual functions appraisal (i.e: contrast sensibility, visual field, and glare research). It is of great importance to emphasize the use of proof frames with the intention of favoring the utilization of the reminiscent visual field.

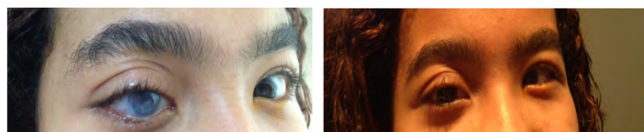
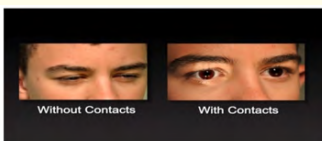
With this explanation, alongside with the exemplification of clinical cases, we intend to break Contact lenses shall be remembered as an important asset for the success of visual rehabilitation among low vision patients.

Contact lenses use possibilities on low vision patients:

- Diminish anisokonia: monocular aphakia
- Incrise visual acuity
- Diminish glare and photophobia(filter funtion) acromatopsia,cone dysthoffy,albinism
- Improve the use of low vision aids: hight ametropia
- Improve colour perception
- Reading efficiency: nystagmus reduction
- Self esteen: leukoma,scars

Exam

- Visual acuity – distance and near test
- Refraction- use of trial frames to solve possibility of anomalous head position
- Visual field
- Glare test
- Others: topography,keratometry



Image

How to optimize Score?

- Think about contact lenses!
- Forget 20/20 goal
- Think about qualitative incomes
- Refraction with trial frames, lesser distance exam
- Make facilities: cases with different colours, mirrors
- Return evaluation – close contact

Photophobia

- Causes: retina, cornea, lens iris, uvea
- Conduction: filter lenses (attenuation or cut type)

Characteristics of filter contact lenses for photophobia

- Annual exchange
- Different from esthetic lenses- tinted pupil area
- Both eyes
- Patients older than 4 years
- Specially indoors photophobia

How to choose a filter contact lens?

- Colour: depends of the intensity of photophobia and colour of the patient eyes E.g : extreme photophobia (black+ red colour); blue eyes (brown/amber lenses colour); brown eyes (red or brown/amber).
- Size of the painted area: pupil size or all iris depends of the pupil diameter.

Why use red lens?

Red is in the end of the visual spectral. This wave has low frequency which diminishes destabilization of the photoreceptors [1-5].

Conclusion

Contact lenses shall always be remembered as an important asset for the success of visual rehabilitation among low vision patients.

Bibliography

1. Godinho C., *et al.* "Adaptação de Lentes de contato em Visão Subnormal. O Padrão CG em lentes de contato. 2 ed. (2010): 139-41
2. Sampaio MW, *et al.* "MOC: Baixa visão e cegueira: Os caminhos para a reabilitação, a educação e a inclusão (2010).
3. Bradley JK and Kathleen BD. "Diagnosis, pathophysiology, and treatment of photophobia (Major Review)". *Survey of Ophthalmology* 6 (2016): 466-477.
4. Fernandes LC and Urbano LCV. "Lentes de contato filtrantes coloridas na discromatopsias". *Relato de casos. Arq. Bras Oftalmol* 66 (2003): 381-384.
5. Faye EE. Guide to selecting low vision optical devices. In: Faye EE *Clinical Low Vision* 2 ed. (1984).

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