



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 leukemia and visual corneal scares.

Keywords: Contact Lenses; Low Vision

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 dysthofhy, albinism
- Improve the use of low vision aids: hight ametropia
- Improve colour perception
- Reading efficiency: nystagmus reduction
- Self esteen: leukoma, scars
- Incrise visual acuity e.g. Corneal astigmatism,keratoconus
- Improve colour perception by the use of red contact lenses in congenital green-red dyschromatopsia [6]
- · Reading efficiency: diminish the velocity of nystagmus by the use of rigid contact lenses

Exam

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

How to optimize Score?

- Think about contact lenses!
- Forget 20/20 goal
- Think about qualitativies incomes
- Refration 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)

Caracteristcs of filter contact lenses for photophobia

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

How to choose a filter contact lense?

- 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 ou brown/amber)
- Size of the painted area: pupil size or all iris dependes of the pupil diameter

Why use red lense?

Red is in the end of the visual spectral. This wave has low frequency wich diminish desestabilitation of the photorreceptors [1-5].

Conclusion

Contact lenses shall always be remembered as a import asset for the success of visual reabilitation among low vision patients.

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