



AMBLYOPIA THERAPY ATROPINE and PATCHING

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Definition

❖ **Amblyopia (lazy eye):**

- Is a disorders of sight;
- In an eye;
- Out of proportion to associated structural problems of the eye.

❖ **AAO (American Academy of Ophthalmology):**

- < 3 y.o : V.A $< 20/50$
- 4-10 y.o : V.A $< 20/40$
- > 10 y.o : V.A $< 20/25$ or 2 line difference

Epidemiology

- ❖ **1 – 5% of preschool / school age children.**
- ❖ **95% unilateral amblyopia.**
- ❖ **Risk factors:**
 - Smoking, drugs, alcohol during pregnancy;
 - Premature children (4 times)
 - Children with delay mile stones (6 times)

Classification - Causes

Strabismus

Refractive



Fig. 2 Right eye deviated outward, exotropic.

Deprivation



Signs



Treatment

1. Eliminating any obstacle to vision:



Treatment

2. Correcting refractive error:



Treatment

3. Forcing use of the poorer eye:





PEDIG AMBLYOPIA STUDIES

PEDID Amblyopia Studies

❖ **PEDIG:**

- Pediatric Eye Disease Investigator Group;
- is funded by the Nation Eye Institute;
- collaborative network dedicated to facilitating multicenter clinical;
- research in strabismus, amblyopia and others eye disorders that affect children.

PEDID Amblyopia Studies

- ❖ **17 trials enrolling;**
- ❖ **3.624 children from 3 to 17 y.o;**
- ❖ **from 2002 up to now;**
- ❖ **follow up: 1 – 24 months;**
- ❖ **Source:**
<http://www.pedig.jaeb.org/Publications.aspx>

PEDID Amblyopia Studies

Patching



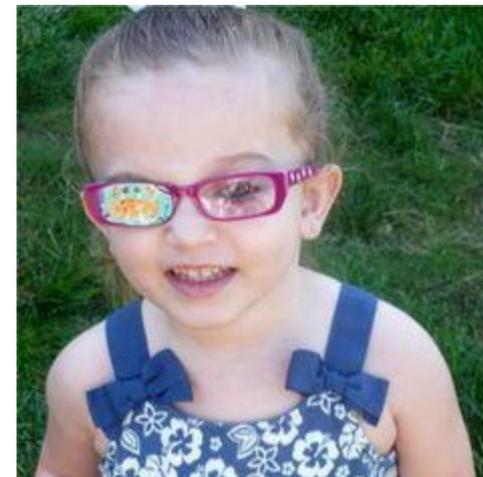
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Atropine



PEDID Amblyopia Studies



6
HOURS

=

ONLY 2 HOURS

PEDID Amblyopia Studies

Atropine



= Weekend

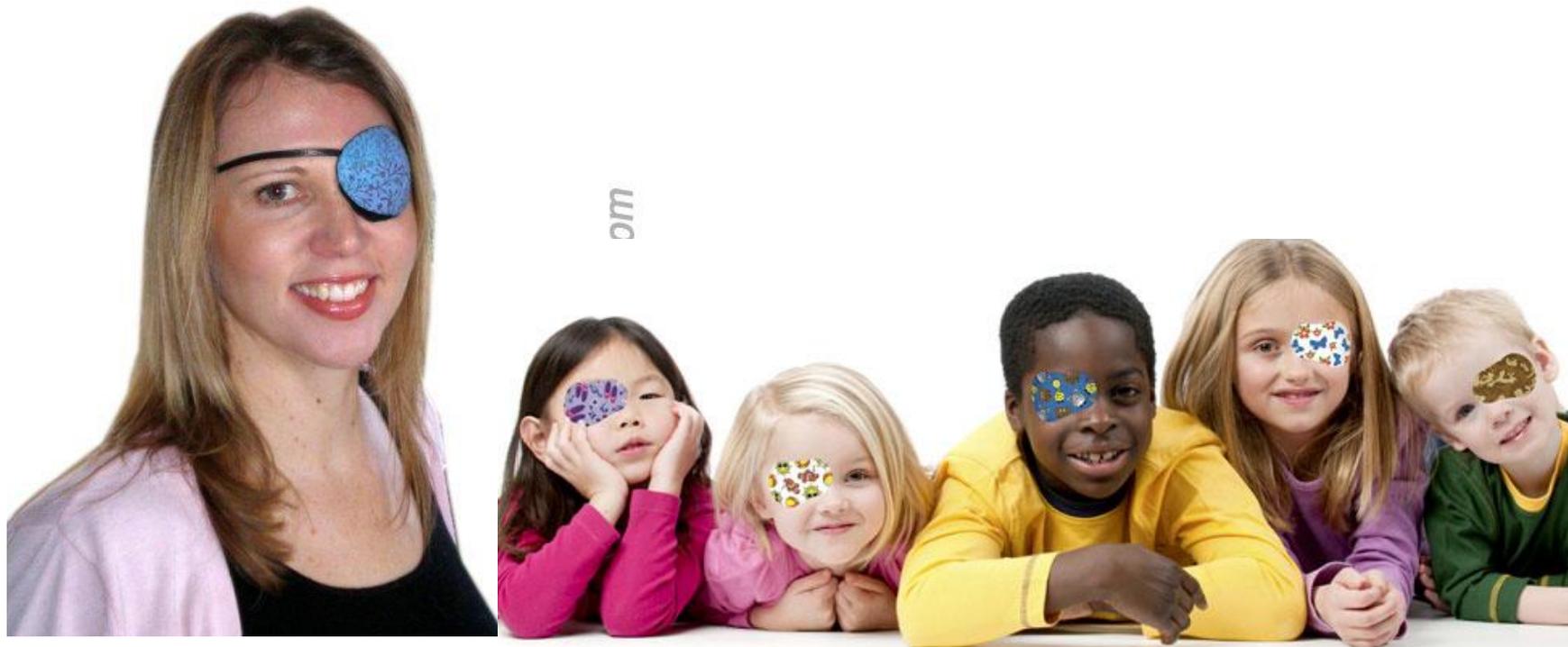
PEDID Amblyopia Studies

Refractive correction ALONE improves V.A in 1/3 cases.



PEDID Amblyopia Studies

Up to 17 y.o





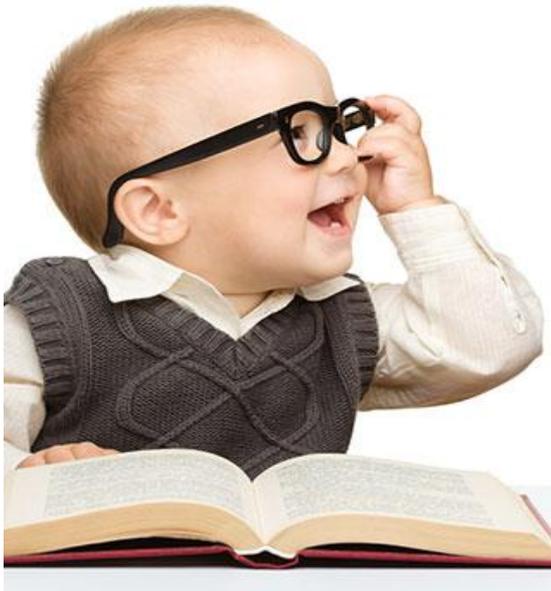
CONCLUSION

CONCLUSION

**Amblyopia:
Early Detection
Can Help
Reduce Risk of
Impaired Vision**

CONCLUSION

AMBLYOPIA: CAN BE TREATED !



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