

# Prism Adaptation for Esotropia

- Prism Adaptation Study
  - Randomized controlled trial
  - Provides an evidence based paradigm for treatment

## Candidates

- Acquired Esotropia
- Partially Accommodative Esotropia
- Esotropia with Near > Distance
- Exotropia has not been investigated thoroughly with this procedure

## Procedure

- Add Fresnel prism to glasses
- Try to split prism equally with larger prism over eye with worse acuity if needed

## Possible Outcomes

- **Non-Responder**
  - Orthotropic but no sensory response
    - Keep prisms on and check immediately before surgery
  - Exotropia of any size
  - Stop and do surgery for entry angle
- **Responder**
  - $\leq 8$  Prism Diopters on Simultaneous prism cover test at distance and near and
  - Peripheral fusion on Worth 4 Dot test or
  - Stereo response on Titmus Stereo test
  - Surgery for angle at response
- **Builder**
  - $> 8$  Prism Diopters on Simultaneous prism cover test
  - Add more prism and recheck in a week

## Surgical Dose Table

Target Angle (PD)	BMRC	LRs (one eye)
12 - 15	3.0	-
16 - 20	3.5	-

<b>Target Angle (PD)</b>	<b>BMRc</b>	<b>LRs (one eye)</b>
21 - 25	4.0	-
26 - 30	4.5	-
31 - 35	5.0	-
36 - 40	5.5	-
41 - 45	6.0	-
46 - 50	5.0	5.0
51 - 55	5.0	6.0
56 - 60	5.0	7.0

## References

- [Prism adaption for Acquired Esotropia \(6 months outcome data\)](#)
- [One-Year Surgical Outcome after Prism Adaptation for Acquired Esotropia](#)

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<https://childreneye.org/wiki/> - **Children's Eye Wiki**

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