- Convergence
 - Both eyes adduct independent with each other
 - Accompanies accommodation (AC/A ratio)
 - Used to maintain fixation on near targets
 - Quantified by measuring convergence amplitudes and near point of convergence
 - Dysfunctional convergence is seen in Exophoria and Exotropia
 - When accompanies exophoria, sensory fusion may be able to be strengthened by convergence exercises
 - Convergence insufficiency can occur without strabismus

Convergence Amplitudes

- Testing requires sensory fusion
- With a fixation target at near and distance with a 20/40 target, look through progressively larger base out prisms until diplopia occurs.
 - $^\circ$ The break point is the prism value where diplopia occurs
 - $\circ\,$ The recovery point is the prism value where sensory fusion is re-established
- Normal measurements for break point:
 - $\circ\,$ Near: 30 Δ to 40 Δ
 - $\,\circ\,$ Distance: 20 Δ to 30 Δ

Near Point of Convergence

- Point in space directly in front of the eyes where maximal convergence is used
- Practically defined as the distance from nose where diplopia occurs
- Can use a Prince rule or any ruler with an accommodative target to measure
- Normal near point:
 - 4cm to 10cm

Prince Rule



Photo courtesy AAO

strabismus, convergence

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