

NaturalVue Multifocal and Binocular Accommodative Disorder

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History:

JR is a 15-year-old who presented for a routine exam. He was previously diagnosed with convergence insufficiency (CI) and was treated with vision therapy when he was 8. He came in complaining of end-of-day frontal headaches only on school days, slow processing when reading, blur at distance and near, and misjudging the baseball in the outfield. With symptoms like these, we should be sure to check for signs of binocular and accommodative issues and appropriately test for them.

Examination Results:

Unaided acuity was 20/30 OU at distance and 20/60 OD 20/40 OS at near. Cover testing showed orthophoria at distance and near. Near point of convergence was break at 2 inches, recover at 3. Stereopsis was 200 seconds of arc, and Worth-4-Dot showed intermittent OD suppression distance and near. Subjective refraction was -0.50 OU to 20/25 OD 20/20- OS. Binocular testing resulted in near vergences BI -/28/20, BO -/12/-2, and NRA/PRA was +0.50/-0.50. Best attained near acuity during testing was 20/40 OU.



Diagnosis/Recommended Intervention:

JR has a mild CI adding to his deficient focusing skills. I recommended another course of VT, which was not an option due to his baseball schedule. I therefore prescribed NaturalVue® Enhanced Multifocal contacts -0.50 NVMF OU. After the 10-minute settling period, distance was 20/20 and near was also 20/20! JR's stereopsis improved to 40 sec of arc, and his NRA/PRA improved to +2.50/-2.50. His mother noticed his face was much more relaxed when he read! During his one-week follow-up, he stated he was no longer struggling with reading, no more headaches, and he could now catch a baseball without hesitation.

This is just one example of the power of NaturalVue® Enhanced Multifocal lenses on the binocular and accommodative systems. The amount of plus power this lens has in the periphery reduces the lag of accommodation and increases accommodative amplitudes. This leads to not only better acuity at near, but to a more relaxed visual system, and a better quality of life. This patient's symptoms were resolved completely. The NaturalVue®

Multifocal should be considered when kids are struggling with reading/schoolwork, even when vision therapy can be completed. Having this lens in our toolbox truly benefits our patients.

For additional information, please contact VTI Technical Consultation **1-844-VTI-LENS (1-844-884-5367)**, ext. 102, or TechnicalConsultation@vtivision.com