Clinical Evaluation of Varilux[®] Physio[®] vs. Individualized DS PAL

Research conducted by independent eyecare research organization (London, UK) May 2006 - June 2007



PURPOSE

To evaluate and compare the performance of Varilux Physio and an Individualized DS PAL for everyday use.

Varilux Physio - 1.67 traditionally surfaced with Wavefront Advanced Vision Enhancement Technology™

Individualized DS PAL - 1.67 digitally surfaced with design individualized to fitting characteristics

METHODS

- •Comparative, double-masked, dispensing study (each lens design worn 3 weeks)
- •Evaluation of each lens design recorded through questionnaire after wearing period & comparative questionnaire at the end of the test

Fitting parameters:

monocular Pds

- •FRP @ center pupil
- Individualized lens was individualized according to manufacturer's paramaters (PD, vd, panto, neardist.)

Each subject subjectively compared designs for:

- Intermediate Vision
- Near Vision
- Dynamic Vision (subject moving / world moving)
- Visual Fatigue
- Zone Transition
- Adaptation
- Overall Preference

SUBJECTS

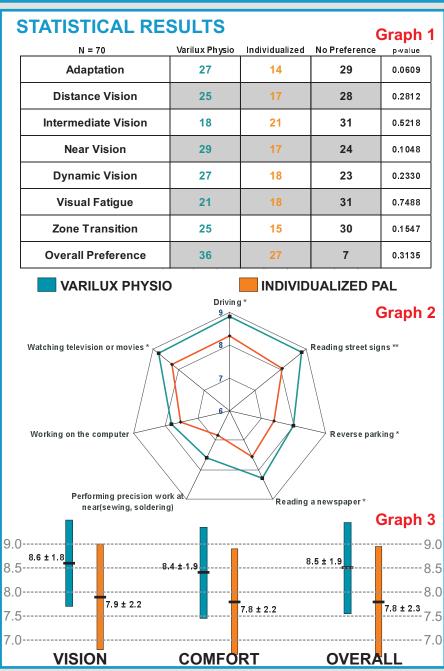
N = 70 subjects Refractive Condition:

Myopes	-6.00 to -4.00	-4.00 to -2.00	<-2.00
	5	9	11
		TOTAL 25	
Hyperopes	+6.00 to +4.00	+4.00 to +2.00	<+2.00
	2	13	30
		TOTAL 45	
Median ADD: +2.00 ADD (r= +0.75 to +2.75)			
Inclusion Criteria:			
<±0.50 change from previous Rx			
Corrected V.A. 6/6 (10/10) each eye			
PAL wearer for > 6 months			
Exclusion Criteria:			
systemic condition having influence on VA			
medical treatment/medication influencing VA			

CONCLUSIONS

Overall, subjects preferred Varilux[®] Physio[®] 4:3 over Individualized PAL. Varilux Physio was also preferred by more subjects in 6/7 of the specific areas measured (Graph 1). Qualitatively, subjects had a higher evaluation of Varilux Physio for every specific activity measured (Graph 2). Qualitative evaluations were significantly better for vision, comfort, and overall satisfaction (Graph 3).

The data indicates Varilux Physio provides superior performance for everyday visual activities when compared to the individualized DS PAL.



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