

## NCC 'FUTURE GENERATION 2024' PAPER Abstracts SCIENTIFIC SESSION IN COOPERATION WITH THE BCLA

## NCC 'Future generation 2024' Organization Section: NCC/ BCLA PAPER Abstracts

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## Evaluating the Success of Habitual Multifocal Soft Lens Wearers when Refit with a Progressive Multifocal Lens System

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Purpose: To evaluate the ease and
predictability of fit and success when
switching habitual, multifocal (MF)
wearers from a somofilcon A (som-A)
multifocal 2-Add system to a som-A 3-Add
system.

**Method**: Presbyopic habitual MF wearers were recruited to a crossover, daily wear, subject-masked study. At first, participants were fit and dispensed bilaterally with som-A 2-Add (CooperVision) lenses and power optimizations were permitted at the fitting visit and the 1-week visit. The optimal lens powers were worn for 2weeks. Next, som-A 3-Add (CooperVision) was fit and worn following the same visit schedule. Visual acuity and subjective ratings (0-10 scale;10=best) were collected after each lens wear period and preference ratings were completed at study exit (5-point Likert).

Results: Fifty-eight participants (mean age 53.5±6.2 years, 46F:12M) completed the study. Mean refraction OD: Sph - 1.11±2.44D [-4.75D to +3.50D], Cyl - 0.27±0.25D [-0.75D to 0.00D], near addition +2.05±0.36D [+1.25D to +2.50D]. There was no difference between lenses for satisfaction with comfort (p=0.76), vision quality (p=0.78), or overall satisfaction (p=0.94). The only statistical difference among preferences related to

vision clarity for near tasks, where som-A 3-Add was preferred (p=0.03). After 2-weeks, LogMAR acuity was significantly better with som-A 3-Add for distance vision (p<0.01) and near vision (p=0.02), but not different for intermediate vision (p=0.10).

When strictly following the fitting guides, som-A 2-Add was successful with the first pair of lenses in 59% of participants, whereas som-A 3-Add was successful with the first pair in 80% of participants (p=0.03).

Conclusions: The performance of som-A 3-Add either matched or exceeded that of som-A 2-Add based on visual acuity, participant ratings and participant preferences. The 3-Add lens system had a higher rate of success with the first lens pair than the 2-Add system. Results indicate that switching som-A 2-Add wearers to the updated som-A 3-Add lens system was successful and well accepted. Research funding received: Funding for this research project was provided by CooperVision.

