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- 1 Fast versus gradual adaptation of soft monthly contact lenses in neophyte
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- 3
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65 Abstract

66 **Aim:** To determine if a gradual adaptation period is necessary for neophytes when 67 fitted with modern hydrogel or silicone hydrogel reusable disposable contact lenses.

Method: Across four sites, 74 neophytes (18-28 years) were randomly assigned to a 68 reusable lens: Proclear[®] (hydrogel) or Biofinity[®] (silicone hydrogel) and an adaptation 69 70 schedule: fast (10 hours wear from the first day) or gradual (4 hours on the first day, 71 increasing their wear time by 2 hours on each subsequent day until they had reached 72 10 hours). Masked investigators graded ocular surface physiology and non-invasive 73 tear breakup time (NIBUT) and a range of comfort, vision and lens handling subjective 74 ratings (0-100 visual analogue scales) were recorded at the baseline visit and after 10 75 hours of lens wear, 4-6 days and 12-14 days after lens fitting. Subjective scores were 76 also repeated after 7 days.

Results: There was no difference (p>0.05) in ocular surface physiology or NIBUT between fast and gradual adaptation groups at any time point in either lens type with the exception of increased corneal staining (p=0.019) in the silicone hydrogel fast adaptation group after 4-6 days. Subjective scores were also similar across the visits and lens types with the exception of 'lens awareness' (p=0.019) which was less in the gradual versus the fast adaptation silicone hydrogel lens group at 12-14 days.

Conclusion: There seems to be no clinical benefit for recommending a gradual adaptation period in new wearers fitted with modern soft reusable disposable contact lenses. The findings of this work add to a growing body of evidence suggesting that such advice is unnecessary in regular soft contact lens wear, which has important ramifications for the initial clinical management of these patients.

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89 Key words: Soft contact lens, reusable, adaptation, neophyte, fast, gradual

91 **1. Introduction**

Currently, conventional practice advocates a cautious 'easing-in' approach for 92 93 adapting new contact lens wearers (neophytes)[1]. In daily lens wear, this usually 94 involves wear schedules of 2 to 4 hours on the first day followed by increases of 1-2 95 hours daily until the desired wear time is achieved. Whilst this is likely to be beneficial 96 for newly-adapting rigid lens wearers, it is less likely to be important for wearers of soft 97 contact lenses. Soft lenses have a much lower modulus than rigid lenses [2, 3] and 98 have less interaction with the upper eyelid due to a larger diameter and reduced lens 99 movement, which makes them significantly more comfortable from the very first application. For this reason, many patients use soft lenses on an occasional basis 100 101 and the concept of building-up of wear time in the traditional sense seems redundant 102 under these circumstances.

103

Previous work from this group [4] comparing fast to gradual adaptation in neophyte 104 105 daily disposable lens wearers showed no significant differences in ocular physiology 106 over the first two weeks of lens wear. Limbal, bulbar and palpebral conjunctival 107 redness as well as corneal staining were found to be similar for the two groups with 108 both contemporary hydrogel and silicone hydrogel daily disposable lenses. This 109 finding lends weight to the hypothesis that the oxygen transmissibility of a lens is not 110 relevant in deciding if a gradual adaptation period is required in a soft lens. 111 Furthermore, the work showed that subjective comfort, vision and lens handling were 112 not negatively impacted by a fast adaptation schedule; in fact, lens awareness and 113 ease of lens removal were *improved* in the fast compared to the gradual adapters in 114 the hydrogel lens wearers.

115

116 The report was the first to provide evidence that eve care practitioners could eliminate 117 gradual adaptation periods in soft lenses - at least for daily disposable wearers. However, it remains unknown whether the same principle can be applied to reusable 118 119 daily wear soft contact lenses which remain the most widely prescribed lens category 120 across the world, currently making-up up 44% of lens fits globally [5]. There are 121 additional complexities which could influence comfort and adaptation with reusable 122 lenses compared with daily disposable lenses, such as the interaction of the care 123 regimen with the ocular surface [6, 7] as well as the potential for increased levels of 124 deposition and its effect on ocular physiology [8].

This work set out to build upon the findings of previous work[4] and sought to gain a better understanding of whether the recommendation of gradual adaptation was supported for reusable daily wear hydrogel and silicone hydrogel contact lenses. Specifically, the work aimed to investigate if there were differences in ocular surface physiology and subjective performance in contact lens neophytes prescribed reusable lenses who underwent a fast versus a gradual adaptation schedule in the first two weeks of lens wear.

133

134 **2. Methods**

135 **2.1** Study lenses and care regimen

The two monthly reusable lenses investigated in this work were Proclear® and Biofinity® (CooperVision Inc.) (Table 1). These lenses were selected based on the similarity of their design (e.g. lens edge shape) and as representative examples of commonly prescribed hydrogel and silicone hydrogel monthly reusable lenses. Participants were fitted with one of the two lens types and worn bilaterally (as a matching lens pair) on a daily wear, reusable basis for a period of 12-14 days.

142

All participants used Opti-Free[®] Puremoist[®] multi-purpose contact lens solution (Alcon 143 144 Laboratories Inc.) throughout the study together with the manufacturer-provided flat 145 lens case. The care regimen is described as a buffered solution containing the dual disinfectants/preservatives POLYQUAD[®] (polyquartanium-1) 0.001% and ALDOX[®] 146 (myristamidopropyl dimethylamine) 0.0006%[9]. Two wetting agents; Tetronic 1304 147 (BASF Corporation) and a proprietary linear diblock copolymer composed of 148 poly(oxyethylene)-poly-(oxybutylene) named EOBO, HydraGlyde[®] Moisture Matrix 149 are present as well as sodium citrate, sodium chloride, boric acid, sorbitol, 150 151 aminomethylpropanol and disodium EDTA. Participants were instructed to use the 152 solution following the manufacturer guidelines which also included a rub-and-rinse 153 step.

154

155 **2.2 Study Design**

156 This was a prospective, parallel-group, randomised, investigator-masked, multi-site 157 study based at four academic institutions: Aston University (Birmingham, UK), 158 University of Bradford (Bradford, UK), Cardiff University (Cardiff, UK), and Glasgow 159 Caledonian University (Glasgow, UK). All four sites received human ethics approval 160 from their respective institutional research ethics committee. The study conformed to 161 the tenets of the Declaration of Helsinki and all participants provided written informed 162 consent prior to enrolment.

163

164 Inclusion criteria included being aged between 18-40 years with astigmatism $\leq 0.75 \text{DC}$, 165 being deemed suitable for contact lens wear following anterior eye assessment and 166 being in possession of an in-date spectacle prescription. Participants were excluded if 167 they had a history of contact lens wear within the previous six months, were pregnant or breast-feeding, had had recent refractive surgery, had a known hypersensitivity to 168 169 saline or sodium fluorescein, took medications known to affect contact lens wear or 170 had a systemic or ocular condition that could affect lens wear. The sample size of 171 participants required for the study was estimated using power calculations from a 172 previous study using daily disposable lenses[4]: 10 participants in each 173 adaptation/lens material group would have 80% power to detect a difference of at least 174 10 points on a 0-100 grading scale for subjective scores.

175

176 Participants attended three visits. At the initial visit, baseline investigations included 177 refraction, visual acuity, non-invasive tear breakup time (NIBUT) using either a 178 Tearscope Plus (Keeler, Windsor, UK) or keratometry mires (Bausch and Lomb 179 Rochester NY, USA) and slit lamp examination of the ocular surface: bulbar, limbal 180 and palpebral conjunctival hyperaemia, palpebral roughness, and corneal staining 181 were graded to the nearest 0.1 units using Efron grading scales[10]. The assessment 182 was performed using 16x magnification under white light with the addition of sodium 183 fluorescein (1.5 mg impregnated strips) for the observation of corneal staining using 184 blue light together with a yellow enhancement filter in front of the observation 185 system[11].

186

All eligible participants at each site were assigned to one of the two lenses for the investigation, with each site only fitting one of the lens types. Lens fit was assessed using the simplified approach proposed by Wolffsohn and colleagues[12]. An unacceptable fit was identified by the presence of limbal excursion or if there were two or more minus grading values for the fitting parameters. Subjective responses were reported using 0-100 visual analogue scales where 0 indicated a very poor or negative experience and 100 indicated a very positive experience. At initial lens dispensing the
following were recorded: 'comfort before lens application', 'overall comfort' and 'visual
quality'.

196

197 Participants were then randomly allocated to one of two adaptation schedules; i) no 198 build-up of wearing time (fast adaptation) where participants would wear lenses for 10 199 hours from the first day or ii) a more gradual build-up (gradual adaptation) where 200 participants would wear lenses for 4 hours on the first day and increase their wear 201 time by 2 hours on each subsequent each day until they reached 10 hours. 202 Investigators collecting data were masked to the adaptation schedule group. All 203 participants were instructed fully on contact lens application and removal and given 204 full instructions on how to care for their lenses, including the use of the care regimen. 205

Participants returned to the clinic for two further follow-up visits once they had reached 206 10 hours of lens wear: i) 4-6 days and ii) 12-14 days after fitting. Slit lamp 207 208 biomicroscopy and NIBUT assessments were carried out at both visits similarly to the 209 initial baseline visit. The following subjective scores were recorded using 0-100 visual 210 analogue scales: 'comfort prior to lens application', 'overall comfort', 'vision quality', 211 'lens awareness throughout the day', 'end-of-day comfort', 'ease of lens application' 212 and 'ease of lens removal'. Participants were also asked to record these same 213 parameters after wearing the lenses for 7 days and to return the completed 214 questionnaire at the final visit.

215

216 2.3 Statistical Analysis

Statistical analyses were performed using IBM SPSS Statistics (v23 IBM Corp. Chicago, Illinois, USA). The data were not found to be normally distributed (Kolmogorov-Smirnov Test p<0.05) therefore Mann-Whitney U tests were used to investigate the differences between the gradual and fast adaptation groups at each visit. The statistical significance level was set at p<0.05.

222 223

224 **3. Results**

Seventy-four participants were enrolled and the demographics of the study groups are shown in Table 2. Overall the age range of all the study cohorts remained similar between 18-28 years, and the range of refractive error (spherical equivalent) was between +0.25 and -6.50 DS. All recruited participants completed the study and no adverse events occurred. No lens fits were deemed 'unacceptable'.

230

3.1 Ocular surface physiology and tear film stability

There were no statistically significant differences (p>0.05) in ocular surface physiology or NIBUT measurements between the two adaptation schedule groups at baseline, or at the two follow-up visits for the hydrogel or silicone-hydrogel wearers (Tables 3 and 4); the only exception was after 4-6 days of wear, when the gradual adaptation silicone hydrogel wearers demonstrated significantly lower scores for corneal staining compared to the fast adaptation group (p=0.019; Table 4), but this difference was not sustained after 12-14 days of lens wear.

- 239
- 240 **3.2** Subjective assessments

At baseline there were no statistically significant differences (p>0.05) in subjective scores between the two adaptation schedule groups for both the hydrogel (Table 5) and silicone hydrogel (Table 6) wearers. This was also true at 4-6 days and day 7 after lens wear commenced. After 12-14 days of silicone hydrogel lens wear, 'lens awareness' (p=0.02) was significantly better in the gradual compared to the fast adaptors, but there were no other differences between the adaptation schedules (Table 5 and Table 6).

248

4. Discussion

This study built upon the knowledge gained from the first investigation on this topic which compared the effect of a fast compared to a more traditional gradual adaptation schedule on ocular surface physiology and subjective acceptance in neophyte daily disposable lens wearers[4]. As far as possible the same methodology and statistical analyses were repeated for the current second sister study, this time, using reusable daily wear contact lenses. Overall, the results from the present work are similar to those found in the previous study. Neither a fast nor a gradual adaptation schedule had any major impact on the short-term ocular surface physiology or tear film stability
with modern hydrogel or silicone hydrogel reusable contact lenses.

259

260 In hydrogel lens wear there were no differences between adaptation groups for bulbar, 261 limbal or palpebral hyperaemia across time points and this was also the case for palpebral roughness and corneal staining. Similar results were seen in the silicone 262 263 hydrogel lens wearers except that the gradual adaptation group demonstrated 264 reduced levels of corneal staining after 4-6 days compared with the fast group. Given 265 that the corneal staining scores were 0.3 versus 0.1 Efron grading units (fast vs. gradual adaptation groups, respectively), it seems reasonable to conclude that these 266 267 differences are not clinically significant since their magnitude lies within the 'normal' 268 range on this grading scale[13]. Any differences between the two groups in this 269 parameter had disappeared by 12-14 days.

270

271 Contact lens wear causes disruption to the normal tear film structure and function [14-272 16] which is thought to be a significant factor in negatively impacting ocular discomfort 273 despite the lack of conclusive evidence linking the two. No differences were observed 274 between the two adaptation schedules for NIBUT in either lens type at either visit 275 which suggests that tear film stability is not adversely affected as a result of how 276 quickly the wearing time in built up in reusable lenses. Overall, these results are very 277 similar to earlier findings investigating adaptation schedule in daily disposable 278 wearers[4] with the exception that in the daily disposable work a longer NIBUT was 279 found in those undergoing a gradual adaptation in silicone hydrogel lenses at the 12-14 day visit. 280

281

282 In terms of subjective comfort-related responses, there were no statistically significant 283 differences between the two adaptation groups in the hydrogel lens wearers. Interestingly, in hydrogel daily disposable wearers 'lens awareness' and 'end-of-day' 284 285 comfort were shown to be better in the fast versus the gradual adaptation group after 7 and 12-14 days, respectively[4]. No such differences have been demonstrated in the 286 287 current work which could be as a result of the particular hydrogel lens design chosen, 288 lens deposition differences or factors related to the lens/solution combination. This 289 lack of comfort-related symptoms difference between the two adaptation groups is in line with no differences being observed in ocular physiology and NIBUT in this lenstype.

292

293 In the silicone hydrogel wearers, 'lens awareness' scores were better (i.e. scores were 294 higher which corresponded to reduced lens awareness) in the gradual adaptation 295 versus the fast adaptation group at the 12-14 day visit and this difference (86 vs. 71) 296 is quite marked. The gradual adaptors also presented with significantly reduced 297 corneal staining at the 4-6 day time point and it is not clear if this could have 298 contributed to the subsequent lens awareness increases in this group at the following 299 visit. Previous work has shown a link between comfort and levels of SICS staining[17-300 19], yet it is unlikely that the use of other lens care solutions such as hydrogen peroxide 301 would have reduced the level of corneal staining observed or changed the study 302 outcome as the frequency of cleaning was the same between the fast and gradual 303 adaptation groups. It would be interesting to investigate whether or not this 'lens 304 awareness' difference persists longer-term, but the difference between the two 305 adaptation groups in this lens type is somewhat offset by there being no other 306 differences in subjective comfort scores over the two-week study period.

307

308 Visual quality was similar for the adaptation groups in both lens types at all time points 309 across the two-week period, which is in line with previous findings for daily disposable 310 lenses. This study also evaluated subjective handling aspects relating to 'ease of 311 application' and 'ease of removal' at each follow-up visit; as with the daily disposable 312 lens study, no significant differences were found between the fast and gradual 313 adaptation groups at any of the time points or for either lens type. This result is not 314 unexpected given that the total amount of handling time is the same whichever 315 adaptation schedule is followed i.e. participants would be applying and removing the 316 lenses once per day.

317

Overall, the results from this work suggest that gradual adaptation to modern spherical reusable disposable soft lenses is unnecessary, regardless of the oxygen permeability of the material. As has been previously stated, this does not mean that wearers should be instructed to wear their lenses for 10 hours from the start regardless, but rather a sensible approach would be to instruct patients to wear them for as long as they are comfortable up to a suggested maximum. The first few weeks of lens wear are very

- important in terms of the long-term success of a new contact lens wearer so the patient
 should be followed up to determine whether they have any issues that need
 addressing[20].
- 327

This work with reusable soft contact lenses has added to the growing body of evidence showing that gradual adaptation in neophytes has little clinical benefit compared to a fast adaptation approach in both hydrogel and silicone hydrogel lenses. These findings have important ramifications for the clinical management of these patients in the initial lens wear period.

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Lens name	Biofinity®	Proclear®			
Manufacturer	CooperVision Inc.	CooperVision Inc.			
Material	Comfilcon A	Omafilcon B			
Base Curve (mm)	8.6	8.6			
Total Diameter (mm)	14.0	14.2			
Water content (%)	48	62			
Oxygen permeability (ISO units)	96	20			
Back vertex power range (BVP)	+8.00 to -12.00D	+6.50 to -20.00D			

Table 1: Study lenses (parameters from the ACLM Yearbook)[21]

Lens	Experimental Group	Participants	Age (years)	Male/Female Ratio	Refraction (Spherical equivalent in dioptres)
Biofinity®	Gradual	17	18 - 23	4 / 13	+0.25 to -6.50D
ыопппту	Fast	18	18 - 28	1 / 17	+0.25 to -4.50D
	Gradual	20	18 - 27	3 / 17	+0.50 to -5.25D
Proclear®	Fast	19	18 - 28	6 / 13	+0.50 to -6.50D

Table 2: Demographic and refractive details of the study participants.

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		Baselir	ne		Day 4-	6		Day 12-1		
		Mean	SD	р	Mean	SD	р	Mean	SD	р
Bulbar Hyperaemia	Fast	0.8	±0.6	0.970	0.7	±0.7	0.265	1.0	±0.7	0.251
	Gradual	0.8	±0.8	0.879	0.9	±0.6	0.365	0.7	±0.8	0.351
Limbal	Fast	0.6	±0.4	0.045	0.8	±0.4	0.000	0.7	±0.6	0 000
Hyperaemia	Gradual	0.6	±0.6	0.945	0.6	±0.6	0.322	0.5	±0.6	0.322
Palpebral	Fast	0.8	±0.5		0.8	±0.7	0.771	0.8	±0.6	0.513
Hyperaemia	Gradual	0.7	±0.6	0.728	0.8	±0.6		0.7	±0.7	
Palaohral	Fast	0.7	±0.5	0.444	0.6	±0.6	0.879	0.6	±0.7	0.513
Palpebral Roughness	Gradual	0.6	±0.5	0.444	0.6	±0.5		0.4	±0.5	
Corpool	Fast	0.3	±0.4	0 774	0.5	±0.5	0.550	0.5	±0.4	0.708
Corneal Staining	Gradual	0.1	±0.2	0.771	0.3	±0.4	0.559	0.5	±0.4	
Non-invasive	Fast	9.1	±1.4	0.000	8.2	±1.1	0.070	7.6	±1.3	0.351
breakup time (s)	Gradual	9.0	±1.6	0.999	8.7	±1.2	0.270	8.1	±1.6	

Table 3: Comparison of ocular physiology in fast and gradual adaptation of 403 neophytes fitted with reusable hydrogel soft contact lenses. Efron scale grading 404 between 0 and 4 units, using 0.1 increments. SD = standard deviation; p = significance 405 value. (bold indicates level <0.05).

		Baseli	ne		Day 4-6			Day 12-1		
		Mean	SD	р	Mean	SD	р	Mean	SD	р
Bulbar	Fast	0.6	±0.4	0.335	0.8	±0.4	0.173	0.9	±0.4	0.883
Hyperaemia	Gradual	0.7	±0.4	0.000	0.8	±0.4	0.175	0.9	±0.4	0.000
Limbal	Fast	0.5	±0.4	0.636	0.6	±0.4	0.883	0.7	±0.3	0.660
Hyperaemia	Gradual	0.5	±0.4	0.636	0.5	±0.3	0.005	0.8	±0.4	
Palpebral	Fast	0.4	±0.3	0.590	0.4	±0.4	0.393	0.5	±0.5	0.405
Hyperaemia	Gradual	0.5	±0.4		0.5	±0.4		0.6	±0.5	
Palpebral	Fast	0.4	±0.2	0.732	0.4	±0.2	- 0.463	0.5	±0.3	0.935
Roughness	Gradual	0.3	±0.2	0.752	0.5	±0.4		0.5	±0.4	
Corpoal	Fast	0.2	±0.3	0.000	0.3	±0.3	0.010	0.3	±0.4	0.351
Corneal Staining	Gradual	0.1	±0.2	0.999	0.1	±0.2	0.019	0.2	±0.3	
	Fast	11.1	±3.2	0.500	10.1	±2.0	0.070	9.6	±2.9	0.613
Non-invasive breakup time (s)	Gradual	11.1	±2.3	0.590	10.4	±2.6	0.270	10.1	±4.2	

Table 4: Comparison of ocular physiology in fast and gradual adaptation of 410 neophytes fitted with reusable silicone hydrogel soft contact lenses. Efron scale 411 grading between 0 and 4 units, using 0.1 increments. SD = standard deviation; p =412 significance value. (bold indicates level <0.05).

		Baseline					Day 4-6 Day 7						
		Me an	SD	р	Me an	SD	р	Me an	SD	р	Me an	SD	р
Comfort		97.	±4.		96.	±7.		97.	±5.		98.	±3.	
prior	Fast	9	2	_	1	6	0.41	1	6	_	7	3	-
to lens	Grad	99.	±4.	0.4	97.	±7.	1	96.	±7.	0.92	96.	±8.	0.74
wear	ual	0	5	28	5	3		8	8	3	3	7	9
		85.	±9.		81.	±15		78.	±17		82.	±13	
	Fast	5	1	_	_1	.4	0.46	7	.5	_	4	.3	-
Overall	Grad	86.	±11	0.7	85.	±13	1	83.	±16	047	86.	±12	0.35
comfort	ual	0	.4	08	0	.2		0	.2	8	0	.3	1
		93.	±8.		94.	±7.		91.	±10		95.	±6.	
	Fast	2	0	_	2	9	0.12	6	.5	_	3	3	-
Visual	Grad	91.	±15	0.6	85.	±17	7	86.	±14	0.33	88.	±16	0.28
quality	ual	5	.2	87	5	.5		5	.5	6	8	.7	3
Lens					77.	±16	0.62	76.	±18	0.47	76.	±22	0.51
Awarene	Fast			_	9	.3	7	7	.8	8	6	.1	3
SS	Grad				75.	±18		73.	±17		74.	±18	
	ual				0	.9		6	.4		5	.3	
End of					72.	<u>+22</u>	0.83	70.	±24	0.94	70.	<u>+22</u>	0.96
Day	Fast			-	9	.6	5	3	.4	5	8	.7	7
Comfort	Grad				75.	±22		73.	±20		72.	±17	
	ual				0	.9		5	.7		8	.3	
Ease					84.	±12	0.84	85.	±15	0.98	88.	±14	0.68
Applicati	Fast			-	7	.9	6	8	.2	9	9	.4	7
on	Grad				90.	±11		87.	±10		88.	±12	
	ual				5	.0		8	.2		3	.2	
Ease					89.	±11	0.27	92.	±11	0.96	91.	±10	0.56
Removal	Fast			-	7	.0	0	6	.9	7	8	.3	9
	Grad				94.	<u>+</u> 8.		92.	±12		94.	±7.	
	ual				3	5		5	.0		8	7	

Table 5: Comparison of subjective ratings in fast and gradual adaptation of 417 neophytes fitted with reusable hydrogel soft contact lenses using visual analogue 418 scales (0-100). SD = standard deviation; p = significance value (bold indicates level 419 <0.05).

		Baseline					Da	ay 7	Day 12-14				
		Me an	SD	р	Me an	SD	р	Me an	SD	р	Me an	SD	р
Comfort		92.	±9.		88.	±13		93.	±9.		93.	±7.	
prior	Fast	0	9		9	.7	0.83	1	0	0.96	6	7	0.5
to lens	Grad	93.	±9.	0.6	91.	±9.	2	93.	±8.	1	95.	±7.	46
wear	ual	7	3	60	7	0	-	2	8	·	3	3	
		77.	±20		74.	±21		81.	±15		79.	±17	
	Fast	5	.9		4	.4	0.52	5	.8	0.83	8	.9	0.3
Overall	Grad	80.	±20	0.6	80.	±13	5	84.	±9.	2	87.	±10	18
comfort	ual	8	.4	13	6	.8		6	8		5	.0	
		88.	±11		79.	±18		87.	±6.		89.	±9.	
	Fast	8	.0	_	4	.8	0.50	9	5	0.90	1	1	0.
Visual	Grad	83.	±17	0.5	82.	±20	3	84.	±16	9	88.	±13	08
quality	ual	2	.4	46	2	.0		6	.3		3	.4	
Lens					74.	±28		78.	±21		71.	±21	
Awarene	Fast				7	.1	0.61	0	.7	0.73	0	.3	0.0
SS	Grad				74.	±19	8	76.	<u>+22</u>	2	86.	±11	19
	ual				7	.5		1	.1		1	.5	
End of					70.	±26		73.	±20		76.	±17	
Day	Fast			_	6	.4	0.98	4	.5	0.96	1	.1	0.3
Comfort	Grad				74.	±18	7	72.	±19	1	81.	±17	69
_	ual				3	.1		7	.3		3	.3	
Ease					81.	±15		82.	±14		90.	±9.	
Applicati	Fast			-	3	.2	0.16	9	.9	0.99	3	8	0.7
on	Grad				69.	±21	3	81.	±15	9	87.	±13	32
F	ual			_	6	.5		8	.9		4	.2	
Ease	Feet				83.	±17	0.50	87. 7	±13	0.00	93.	±8.	~ ~
Removal	Fast			-	0	.4	0.52	7	.4	0.93	6	8	0.6
	Grad				80. 7	±15	5	87. 5	±13	5	90. 4	±13	13
	ual				1	.3		5	.6		4	.3	

Table 6: Comparison of fast and gradual adaptation of neophytes fitted with 425 reusable silicone hydrogel soft contact lenses using visual analogue scales (0-100).

426 SD = standard deviation; p = significance value. (bold indicates level <0.05).