Troubleshooting guide for myopic orthokeratology with OMEGA CL contact lenses

The following indications must be considered exclusively as a supplement to the practitioner's professional knowledge and skills. The issues often have multifactorial causes.

VISION ISSUES

At distance, neutralized with a negative sphere	Wait a few more days Increase "T" parameter value (more negative)

At distance, does not neutralize with a negative sphere	Epithelial defect
	Higher order aberrations
	Residual astigmatism:
	    • Concurrent corneal toricity:
	        ○ Switch to OMEGA TORIC geometry
	        ○ Switch to OMEGA DOUBLE TORIC geometry (technical assistance)
	    • Internal astigmatism:
	        ○ Switch to OMEGA DOUBLE TORIC geometry (technical assistance)

At distance, neutralized with a positive sphere	Reduction of parameter "T" value (less negative) Lens adhesion

At distance, worsening vision in the evening	Scotopic conditions:
	    • Pupillary diameter
	    • Treatment area diameter
	    • Decentered treatment
	Treatment regression:
	    • Increase in parameter "T" value (more negative)

Worse upon awakening	Ocular surface problem Edema
At near, neutralized with positive	Overcorrection: • Reduction of parameter "T" value (less negative) Glasses for near
At near, does not neutralize with positive	Multifactorial etiology

TREATMENT AREA ISSUES

Downward decentralization	Increase the value of parameter "C" Switch to OMEGA TORIC geometry If after a long period of wearing: • Check lens surface quality and lens care regimen • Avoid prolonged use with open eyes
Upward decentralization	Decrease the value of parameter "C" Switch to OMEGA TORIC geometry Increase the total diameter If after a long period of wearing: • Check lens surface quality and lens care regimen • Avoid prolonged use with open eyes
Decentralization towards the nose / temple	Decrease the value of parameter "C" Switch to OMEGA TORIC geometry Increase the total diameter If after a long period of wearing: • Check lens surface quality and lens care regimen • Avoid prolonged use with open eyes Switch to OMEGA ASYMM (technical support)
Treatment area too small (difficult to resolve)	Increase the value of parameter "C" Decrease height of OZ
Central island in topography	Check cornea epithelial integrity Increase height of OZ

FITTING ISSUES

Excessive central pooling	Increase the value of parameter "C" Decrease height of OZ
Excessive central bearing	Reduce the value of parameter "C" Increase height of OZ
Incomplete alignment	Reduce the value of parameter "C" Evaluate OMEGA TORIC geometry
Excessive movement	Excess tearing, wait Reduce the value of parameter "C" Increase the total diameter Evaluate OMEGA TORIC geometry
Limited movement	Increase the value of parameter "C" Reduce the total diameter If OMEGA TORIC, reduce toricity
Limited fluorescein penetration under the lens	Increase the value of parameter "C" Reduce the total diameter If OMEGA TORIC, reduce toricity
Presence of bubbles under the lens	Improve application proficiency Apply lens with more viscous solution If alignment is incomplete, consider OMEGA TORIC geometry
Difficulty with removal	Check for signs of lens adhesion Increase the value of parameter "C" Reduce the diameter If OMEGA TORIC, reduce toricity

OCULAR SURFACE ISSUES

Central epithelial staining	Excessive central bearing: • Reduce the value of parameter "C" • Increase height of OZ Deposits on the lens: • Check lens care regimen Epithelial fragility: • Wait a few nights • Apply lens with more viscous solution
Diffused punctate epithelial staining	Check maintenance procedures / products
Epithelial staining in the area of alignment	Check lens care regimen Increase the value of parameter "C" Reduce the total diameter If OMEGA TORIC, reduce toricity
Impression of lens	Increase the value of parameter "C" Reduce the total diameter If OMEGA TORIC, reduce toricity
Corneal infiltrates	Discontinue treatment and manage condition
Sharp red eye (particularly if monocular)	Discontinue treatment and manage condition
Occasional discomfort	Foreign body Damaged lens Check lens surface quality and lens care regimen