LENSTAR LS 900 Calibration

Weekly nullification - SUCCESSFUL

Keratometry

Ocular surface (improvement necessary?) - NORMAL
K1 & K2 SD (maximum value, each eye) - ±0.25 D
Avg K power difference (between eyes) - < 1.25 D
Avg K power (each eye) > 40.00 D and < 48.00 D
Steep meridian SD - < 3.5°
AST (maximum value, each eye) - < 4.00 D
Reflected LED images (all meridians) - GOOD QUALITY
Soft contact lenses (at least 1 week) - OUT
RGP contact lenses (until topography & Rx are stable) - OUT

T-cone Topography

Calibration - SUCCESSFUL
All measurements - CORRECTLY CENTERED
Topo maps (AC, T, E & Rings) - GOOD QUALITY
K1, K2 & A1 (all five measurements) - CONSISTENT

Axial Measurements

Measurement mode (phakic, silicone oil, etc.) - CORRECT
Fixation light (confirm visualization by patient) - STEADY
5 consistent measurements - CONFIRMED
Caliper placement (cornea, lens & retina) - CORRECT
CCT (prior myopic LASIK / PRK?) - > 480 µm and < 620 µm
Phakic ACD (each eye) - > 1.9 mm and < 4.5 mm
Lens thickness (each eye) - > 3.0 mm and < 6.2 mm
OD & OS axial length - WITHIN 0.30 mm
AL consistent with oldest Rx SphEq - CONFIRMED
Outliers (either eye) - DELETE & REPEAT

White to White

Limbus ring - ADJUST AS REQUIRED
Avg WTW (unusual Ks, ACD or AL?) - > 10.0 and < 13.0 mm
Avg WTW (each eye) - WITHIN 0.1 mm
Avg WTW (between eyes) - WITHIN 0.2 mm

Additional Validation / Studies

Phakic ACD > 4.5 mm or < 1.9 mm - MD CONFIRMS
OD / OS AL difference > 0.30 mm - MD CONFIRMS
OD / OS avg K power > 1.25 D - MD CONFIRMS
AST > 4.25 D (KCN or PMD®) - TOPOGRAPHIC AXIAL MAP
Avg K power > 48.00 D or < 40.00 D - MD CONFIRMS

Warren E. Hill, MD - LENSTAR LS 900