

# FOCUS ON VALUE



Cataract surgery necessitates technologies that improve surgical efficiency and can be enhanced for safety<sup>1</sup>



**Anterior chamber stability** is a key to successful outcomes for patients undergoing cataract surgery<sup>2</sup>



**Imbalance in fluid flow** during phacoemulsification can lead to anterior chamber instability and increase the risk of complications<sup>2</sup>



**Post-occlusion surge (POS)** is a main source of chamber instability during cataract surgery<sup>1,3</sup>

The VERITAS™ Vision System is optimized for fluidics management



**Advanced Tubing System** enhances aspiration pump to maintain chamber stability<sup>4,5</sup>



**Peristaltic and venturi Dual Pump** capability offers flexibility for optimal fluidics management<sup>4,5</sup>



**Chamber Stabilization Intelligence** automatically regulates vacuum to reduce POS<sup>4,5</sup>



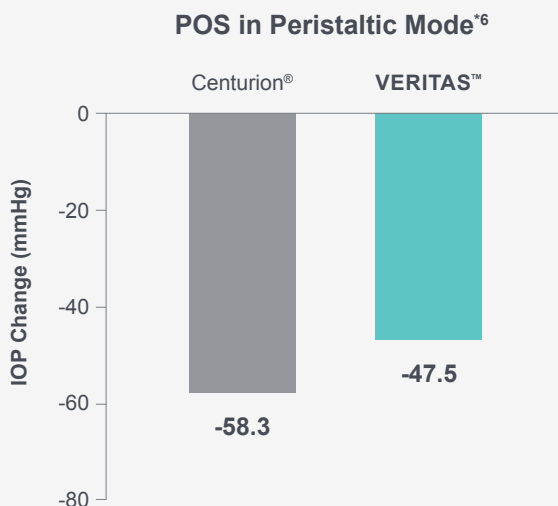
**WHITESTAR™ Micropulse Technology** enables ultra-efficient lens extraction with less energy<sup>4,5</sup>

\* Chamber Stabilization Environment (CASE) intelligence cannot be engaged in all surgical situations.

† Modulated pulses of energy interrupted by brief cooling periods introduce less energy into the eye compared to continuous use of energy.

# VERITAS™ Vision System is the next-generation phacoemulsification system

## The VERITAS™ System exceeds the Centurion® System in post-occlusion surge performance\*<sup>6</sup>



**18.5% less change in intraocular pressure (IOP)** was observed with the VERITAS™ System compared to the Centurion® System, indicating significantly better POS performance\*<sup>6</sup>

\* Simulated test anterior chamber: A rigid body, leak-tight fixture with an attached pressure sensor to measure the simulated IOP. Test method: An ELLIPS™ FX handpiece with a LAMINAR™ Flow Phaco Tip 20 Gauge (G), 0°, and 20G tip/High-flow sleeve was used with the VERITAS™ System. A Centurion® OZil® handpiece with 0.9 mm 45° ABS Intrepid Balanced Tip and Sleeve was used with the Centurion® system. The IOP in Centurion® system was set at 65 mmHg, while an effective bottle height of 57 cm was selected for the VERITAS™ System. Both systems had approximately the same static IOP. A maximum vacuum of 400 mmHg and an aspiration flow of 30 cc/min were chosen for both systems. The IOP waveform was measured and recorded continuously during occlusion and occlusion break. The POS process was repeated three times to collect multiple occlusions. Data collection: CASE mode was enabled at a vacuum of 280 mmHg in the VERITAS™ System. The POS performance of the VERITAS™ system with VRT-AF/AI packs and 20G tip/High-flow sleeve was significantly better (18.5%) in IOP change compared to the Centurion® system (47.5 mmHg [SD 2.6] vs. 58.3 mmHg [SD 3.3], respectively; P < 0.05). Abbreviations: CASE = Chamber Stabilization Environment; IOP = intraocular pressure; POS = post-occlusion surge.

## Optimal fluidics management may reduce complication rates<sup>2,7</sup>

Literature reports that **controlling large fluctuations in pressure** can reduce complications and ocular discomfort<sup>2</sup>

Literature reports that establishing **anterior chamber stability** helps to deliver a high standard of cataract surgery outcomes<sup>7</sup>

Literature review supports reduced pressure change and post-occlusion surge performance are beneficial to phaco cataract surgery<sup>2,7</sup>



#### REFERENCES:

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4. **VERITAS** Vision System Operator Manual Z370584 Rev. E, 02/2021. REF2021OTH4304.
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7. Benjamin L. Fluidics and rheology in phaco surgery: what matters and what is the hype? *Eye* 2018; 32: 204-209. REF2021CT4113.

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