

FOCUS ON VALUE



Cataract surgery necessitates technologies that improve surgical efficiency and can be enhanced for safety¹



Anterior chamber stability is a key to successful outcomes for patients undergoing cataract surgery²



Imbalance in fluid flow during phacoemulsification can lead to anterior chamber instability and increase the risk of complications²



Post-occlusion surge (POS) is a main source of chamber instability during cataract surgery^{1,3}

The VERITAS™ Vision System is optimized for fluidics management



Advanced Tubing System enhances aspiration pump to maintain chamber stability^{4,5}



Peristaltic and venturi Dual Pump capability offers flexibility for optimal fluidics management^{4,5}



Chamber Stabilization Intelligence automatically regulates vacuum to reduce POS^{4,5}



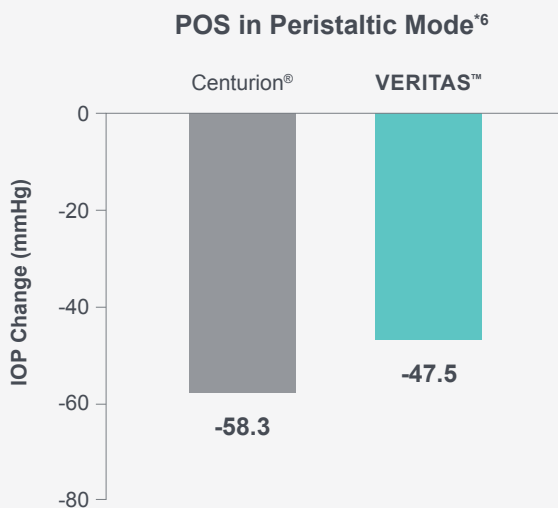
WHITESTAR™ Micropulse Technology enables ultra-efficient lens extraction with less energy^{4,5}

* 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*⁶



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

* 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^{2,7}

Literature reports that **controlling large fluctuations in pressure** can reduce complications and ocular discomfort²

Literature reports that establishing **anterior chamber stability** helps to deliver a high standard of cataract surgery outcomes⁷

Literature review supports reduced pressure change and post-occlusion surge performance are beneficial to phaco cataract surgery^{2,7}



REFERENCES:

1. Chang D. Improving Surgical Safety with Modern Phaco Technology. *Cat Refr Surg Today* 2008;11; 1-3. REF2021CT4112.
2. Nicoli M, et al. Experimental anterior chamber maintenance in active versus passive phacoemulsification fluidics systems. *J Cataract Refract Surg* 2016;42:157-162. REF2021CT4111.
3. Zeng M, et al. Effectiveness of operative intraocular lens use on improving surgical safety for dense cataract phacoemulsification: a randomized controlled trial. *Sci Rep* 2020; 10, 1600. doi.org/10.1038/s41598-020-58597-0. REF2021CT4114.
4. **VERITAS** Vision System Operator Manual Z370584 Rev. E, 02/2021. REF2021OTH4304.
5. **VERITAS™** System Claims Matrix. PP2021CT4706.
6. DOF2021MLT4002 – Post-occlusion Surge Comparison Study: Intraocular Pressure Change in Signature Pro with OPO71 and OPO73N packs, **VERITAS** system with VRI-AF and VRT-AI packs, and Centurion with active FMS packs. Mar. 8, 2021.
7. Benjamin L. Fluidics and rheology in phaco surgery: what matters and what is the hype? *Eye* 2018; 32: 204-209. REF2021CT4113.

For healthcare professionals only.

Please reference the Instructions for Use for a complete list of Indications and Important Safety Information and contact our specialists in case of any question.

All third-party trademarks are the intellectual property of their respective owners.

©Johnson & Johnson Surgical Vision, Inc. 2022 | PP2021CT4869

Hellobook_02/2022