# ALTEON®

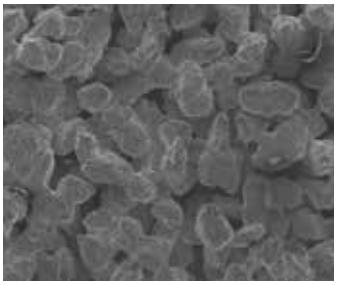
## ALTEON® CUP AND XLE® LINER

advita ORTHO

Advancing: **Life**

# ALTEON®

Seamlessly integrated with the Alteon® Platform system, the Alteon Cup is beauty refined. This acetabular system provides multiple cup implant configurations and bearing options which can be used for various surgical applications. The unique TAC Porous Technology™ supports initial and biological fixation. When combined with Advita's XLE® Vitamin E polyethylene liners this acetabular system is certain to compliment your surgical ensemble.



## ASYMMETRIC POROUS COATING

The TAC Porous Technology strikes a balance between material strength, pore size and porosity. The TAC proprietary process creates a unique 3-D structural lattice of irregular shaped particles with increased average pore size and greater porosity than traditional spherical beads.[1]

## VITAMIN E LINERS

Alteon® XLE® highly crosslinked vitamin E acetabular liners are designed to provide low wear while maintaining mechanical strength, reducing the free radicals, and oxidative degradation.[2,3] Liners are available in Neutral, Extended Coverage, +5 Lateralized, and Face Changing configurations.

## OPTIMIZED HEAD/CUP ASPECT RATIO

This allows one to achieve the maximum head/cup combination while still maintaining polyethene thickness.[4]

## THREE-PART LOCKING MECHANISM

The Alteon Cup features a three-part locking mechanism with more than 15 years of clinical use.[5] It consists of an apical tab intended to prevent liner translation and pull-out, recessed scallops intended to provide rotational control, and a fully congruent liner/shell designed to virtually eliminate micromotion.[6,7]

## STREAMLINED INSTRUMENTATION

Instruments designed to complement the overall surgical workflow.


**REFERENCES**

1. Data available upon request.
2. **Oral, E, Muratoglu, O.** "The effects of high dose irradiation on the cross-linking of vitamin E-blended ultrahigh molecular weight polyethylene," Biomaterials 29 (2008) 3557-3560
3. **Oral, E, Muratoglu, O.** "Vitamin E diffused, highly crosslinked UHMWPE: a review," Int Orthop. 2011 Feb; 35(2): 215-223.
4. Data available upon request. TM-2019-0009. Alteon Cup Head/Liner to Cup Aspect Ratio and Resulting Polyethylene Thickness.
5. Data available upon request.
6. Data available upon request. 711-01-81. Thermal Effects of Polyethylene on Shell/Liner Congruency.
7. Data available upon request. 711-03-40 Rev. A Connexion GXL® Design Rationale



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