

# CERVOS™

## Bone Marrow Aspiration Device



## QUALITY WITHOUT COMPROMISE.

**ASPIRATE TO APPLICATION™:** Without leaving the sterile field. **No centrifugation.**

**HIGH-QUALITY ASPIRATE:** Innovative closed distal tip design aspirates from multiple geographies while limiting peripheral blood dilution to extract high-quality, high-cell-count marrow

**BETTER PATIENT EXPERIENCE:** Lower overall aspirate volume and single access site supporting efficient aspirate recovery

OVERCOME THE DISADVANTAGES OF TRADITIONAL TROCAR NEEDLES

### MORE CELLS WITH CERVOS BMA™

Aspirate from multiple geographies while limiting peripheral blood collection



#### CERVOS BMA

Closed distal tip with optimized side ports captures higher cell counts without peripheral blood contamination



#### TRADITIONAL NEEDLES

Open distal tip allows peripheral blood dilution

- 2.5x-10x higher CFU-f counts vs. traditional BMA needles and centrifuge-based systems<sup>1-4</sup>
- Precise, mechanical aspiration at 1cc-2cc intervals for improved consistency and reproducibility
- NO centrifugation required; only 8 mL of marrow and a 2 to 3-minute draw time

### CERVOS BMA VS. CENTRIFUGATION SYSTEMS & TRADITIONAL ASPIRATION NEEDLE (CFU-f per mL)

**3,160**  
Cervos BMA<sup>5</sup>

**1,270**  
Harvest  
BMAC<sup>4</sup>

**506**  
Arteriocyte  
Magellan<sup>5</sup>

**134**  
Biomet  
BioCUE<sup>4</sup>

**356**  
Traditional  
Trocac<sup>2</sup>

# OPTIMIZE EVERY ASPECT OF BONE MARROW HARVESTING

## A Higher-Quality Biologic

Obtains a clinically significant volume of regenerative cell; more than industry-leading centrifuge-based systems.

## No Centrifugation Required

Cervos System NEVER leaves the sterile field, eliminating the contamination risk associated with sterile-field transfer.

## Eliminate the Need to Filter

No filter required, over 50% of cells may be lost during filtration, reducing regenerative potential.

## Minimize O/R Time and Overhead

Centrifuge systems require the collection of up to 6x more marrow than Cervos BMA and 20 minutes or more of processing time.

No additional O/R staff involvement (Perfusion and or Circulating Nurse) as with centrifuge systems.

## Minimize Sample Waste

Cervos BMA utilizes 100% of the marrow aspirated, providing for the regenerative capacity of all aspirated cellular components.

Centrifuge systems typically discard 80% of the aspirate with significant cell loss (~40%).



VA Vendor #	DoD Vendor #	OEM #	Gauge	Length	Description
CLIN0389	DLIN3165	SM2IN	13G	2in	BMA Device w/ graft delivery & accessories
CLIN0390	DLIN3166	SM3.5IN	11G	3.5in	BMA Device w/ graft delivery & accessories
CLIN0391	DLIN3167	SM4.5IN	11G	4.5in	BMA Device w/ graft delivery & accessories
CLIN0392	DLIN3168	SM2INB	13G	2in	BMA Device w/ Bone Core & graft delivery/accessories
CLIN0393	DLIN3169	SM3.5INB	11G	3.5in	BMA Device w/ Bone Core & graft delivery/accessories
CLIN0394	DLIN3170	SM4.5INB	11G	4.5in	BMA Device w/ Bone Core & graft delivery/accessories
CLIN0068	DLIN3747	SPN-8G-Dowel	8G		Bone Harvester
CLIN0067	DLIN3746	SPN-11G-Dowel	11G		Bone Harvester

**References:** **1.** Scarpone M, et al. Marrow cellu bone marrow aspiration system and related concentrations of stem and progenitor cells. White Paper 2015. **2.** McLain R, et al. Aspiration of osteoprogenitor cells for augmenting spinal fusion: comparison of progenitor cell concentrations from the vertebral body and iliac crest. *J Bone Joint Surg Am.* 2005;87(12):2655-2661. **3.** Hernigou P, et al. Benefits of small volume and small syringe for bone marrow aspirations of mesenchymal stem cells. *Int Orthop* 2013;37(11): 2279-2287. **4.** Hegde M, et al. A prospective comparison of three approved systems for autologous bone marrow concentration demonstrated non-equivalency in progenitor cell number and concentration. *J Orthop Trauma.* 28(10):591-598. **5.** Bieri M, et al. "Phase I and registry study of autologous bone marrow concentrate evaluated in PDE5 inhibitor refractory erectile dysfunction." *Journal of Trans Med.* 18:24.

510K Information: FDA 510k Cleared: K150563

## LEARN MORE:

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