BioCUE
Blood and Bone Marrow Aspirate (bBMA) Concentration System
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Designed to process a mixture of autologous whole blood and bone marrow aspirate, the BioCUE BMA Concentration System represents an evolution in this technique. The system includes all the components to ASPIRATE blood and bone marrow, easily PROCESS the disposable system, and produce an autologous PRP output* to HYDRATE the surgeon’s choice of autograft and/or allograft.

PRP Output* Concentrations

- 77.5% recovery of nucleated cells¹
- 71% recovery of available platelets¹
- 7.2x concentration of available platelets¹
- 7.9x concentration of available nucleated cells¹

TECHNIQUE MATTERS

When aspirating bone marrow with the BMA needle provided with the BioCUE System, keep these best practices in mind:

The 6 holes at the distal tip allow for more efficient collection of aspirate from different angles within the bone inside the cortical wall.²

While maintaining a 1:5 ratio of ACD-A to BMA in the aspirating syringe, add a little extra anticoagulant to flush the BMA needle with ACD-A as well.
Whole blood and bone marrow contain many components which play a key role in bone formation. Cells are able to proliferate and differentiate into a number of different hard and soft tissues. Growth factors and signaling proteins from platelets stimulate the osteoprogenitor cells, as part of the bone remodeling process.\textsuperscript{3}

Platelet-rich plasma (PRP) prepared from a mixture of whole blood and bone marrow may contain higher levels of plasma free hemoglobin than platelet-rich plasma (PRP) prepared from whole blood.
Examples of Autograft/Allograft Bone Grafting Applications

The PRP output* from the BioCUE BBMA Platelet Concentration System can be mixed with autograft and/or allograft bone prior to application to an orthopedic site.

*The platelet-rich plasma (PRP) prepared by this device has not been evaluated for any clinical indications. The safety and effectiveness of this device for in vivo indications for use, such as bone healing and hemostasis, have not been established.

References

1. Data on file at Biomet Biologics, LLC.
2. Akikazu Ishihara, BVSc, PhD; Holly J. Helbig, BS; Rebekah B. Sanchez-Hodge, BS; Maxey L. Wellman, DVM, PhD; Matthew D. Landrigan, PhD; Alicia L. Bertone, DVM, PhD. Performance of a gravitational marrow separator, multidirectional bone marrow aspiration needle, and repeated bone marrow collections on the production of concentrated bone marrow and separation of mesenchymal stem cells in horses. AJVR, Vol 74, No. 6, June 2013.

Responsible Manufacturer
Biomet, Inc.
P.O. Box 567
56 E. Bell Drive
Warsaw, Indiana 46581-0567 USA
www.biomet.com

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