

Autologous Biologics Training Series

January 19th, 2019.

**BMA - PureBMC and PurePRP SupraPhysiologic
Ultrasound Didactic/Hands-on Cadaver Program.**

6.75 CMEs

Gulf Coast Biologics, 4331 Veronica S. Shoemaker Blvd, Fort Myers FL, 33916



LEARNING OBJECTIVES

- To enhance the knowledge of regenerative medicine using a detailed course agenda.
- To provide the latest technology in advanced autologous biologics, to include PurePRP and clinical platelet rich plasma and PureBMC bone marrow stem cells.
- To practice ultrasound guided bone marrow aspiration on cadaver specimen.
- To practice ultrasound imaging on live model.

PROFICIENCY OBJECTIVES

- Safely perform PurePRP procedures in MSK sports medicine applications.
- Review the advantages of dual spin vs. single spin devices and the differences in formulations.
- Assessing the potential of viable platelets towards clinical PRP definition.
- Examine the detrimental effects of erythrocytes in biological preparations and the consequences of plasma free hemoglobin, free iron, and ferric-Hb on patient tissues and learning how to minimize these.
- Evaluate the advantages of using guided ultrasound BMA aspiration.
- Review the difference in protocols and biological activities of BMC components, and the gap in standardization.
- Review evidence-based outcomes in biological cell therapeutics.



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MORNING PROGRAM

8.30am:	Welcome and introductions.	Peter A. Everts, PhD.
8.45am:	<p>General introduction to Platelet-Rich Plasma: Introducing PurePRP SupraPhysiologic and clinical PRP.</p> <ul style="list-style-type: none"> ▪ Anti-coagulation, proper blood draw, PRP concentrations. ▪ Roles and functions of platelets and white blood cells; defining Clinical PRP. ▪ Effects of erythrocytes, eryptosis, plasma free hemoglobin, MIF in biological cell preparations. 	Peter A. Everts, PhD.
9.45am:	<i>Short break</i>	
10.00am:	<p>General introduction to Bone Marrow Aspirate and Concentration:</p> <ul style="list-style-type: none"> ▪ Introducing a novel bone marrow aspiration needle technique, cell concentrations. ▪ Stem cell niches, CFU/F, role of platelets and PRP, concentration effects. ▪ Convincing evidence on BMA centrifugation/concentration and literature references. ▪ Bio-Cellular Validation and case report data evaluations. ▪ Q&A 	Peter A. Everts, PhD.
11.00am:	<i>Break</i>	
11.15am:	<p>Sonography:</p> <ul style="list-style-type: none"> ▪ Key Features of using ultrasound in ortho-biology. ▪ Typical features of the ultrasound imaging. ▪ How to do ultra sound guided BMA aspirations ▪ Case studies & Q&A 	Josh B. Rothenberg, DO.
12.45pm:	<i>Lunch</i>	

AFTERNOON PROGRAM

1.15pm:	<p>Three workstations: alternating schedule:</p> <p>Station 1: Demo/hands-on and clinical protocols: PurePRP & PureBMC preparation techniques; BMA /BMC Preparation Protocols;</p>	Peter A. Everts, PhD.
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	Differences in biologic preparations	
	Station 2: Hands-On: BMA aspiration PSIS with ultrasound guidance on cadaver specimen.	Josh B. Rothenberg, DO.
	Station 3: Hands-On: Sonography techniques with 2 different devices on live model	Alfredo Ferreyra, R ASAR. RMSK's, ASAR.
4.15pm:	Wrap up: Questionnaire and Certificate.	
4.30pm:	Adjourn.	

<p>Program Director: Peter A. Everts, PhD. Director & Chief Scientific Officer Gulf Coast Biologics, Fort Myers FL.</p>	<p>Faculty: Joshua B. Rothenberg, DO. Director of Regenerative Medicine Boca Raton, FL.</p> <p>Alfredo Ferreyra, RDMS, RMSK's, ASAR. MSK Sonographer, RegenTx Ft. Lauderdale, FL.</p>
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NOTE: Please wear scrubs or be prepared to change into your scrubs before the workshops.

Registration: www.gulfcoastbiologics.com

Processing Fees: \$145.00.

Breakfast and Lunch included.

Certificate issued upon completion of program.

Location:

Gulf Coast Biologics

4331 Veronica S. Shoemaker Blvd, Suite 2

Fort Myers FL, 33916

P: 239 481-7725



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Accreditation Statement:

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Albert Einstein College of Medicine and Gulf Coast Biologics. The Albert Einstein College of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation:

Albert Einstein College of Medicine designates this live activity for a maximum of 6.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in this activity.