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Palm Beach Equine Clinic on the Cutting Edge of Regenerative Medicine

Regenerative Medicine Results at Palm Beach Equine Clinic

Palm Beach Equine Clinic veterinarians employ regenerative therapies to encourage the body of the horse to self-heal through stimulating naturally occurring biologic processes. Used to treat and/or prevent joint disease and soft tissue injuries, regenerative therapies offer a method of targeting and impacting the inflammatory response without the use of steroids that may cause long-term negative effects on cartilage with repeated, frequent use. Furthermore, many regenerative therapies allow horses to return to full training and competition faster with a shorter window of drug detection than traditional intra-articular steroids. Regenerative medicine is an area that is actively being researched and improved upon in human and animal medicine.



A PBEC patient's blood in a high-speed centrifuge, which will produce a concentrated solution of platelets suspended in plasma. Photo courtesy of PBEC

Several regenerative therapies can be complementary, such as PRP, IRAP or Pro-Stride treatments. These blood-derived biologic therapies may be combined with alternative therapies such as extracorporeal shock wave or laser therapy for an enhanced, synergistic effect. Palm Beach Equine Clinic's veterinary team carefully assesses each horse to determine which therapies would be the most beneficial and customize a unique treatment plan.

Regenerative Therapies Offered by Palm Beach Equine Clinic

Platelet Rich Plasma (PRP)

Platelet Rich Plasma (PRP) is a blood-derived biologic agent that contains a concentration of platelets and seven fundamental growth factors that accelerate tissue healing. PRP is useful for treating a variety of injuries such as wounds, tendons, ligaments, and non-healing fractures. To form PRP, the veterinarian draws blood from the horse and processes it in a centrifuge that returns a concentrated solution of platelets suspended in plasma. This solution can be injected into an affected area to stimulate growth factors that will enhance and accelerate the body's own healing mechanisms.



A PRP injection into the tendon of a PBEC patient. Photo courtesy of PBEC

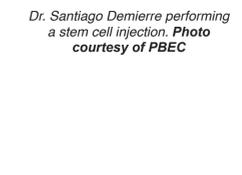
Interleukin-1 Receptor Antagonist Protein (IRAP) / Autologous Conditioned Serum (ACS)

IRAP is an autologous (self-derived) conditioned serum containing concentrated amounts of the anti-inflammatory protein Interleukin-1 Receptor Antagonist Protein (IRAP). In a healthy joint, interleukin-1 (IL-1) and interleukin-1 receptor antagonist (IL-1Ra) have balanced concentrations. In cases of osteoarthritis, there is insufficient IL-1Ra production to block the destructive effects of the increased IL-1. This results in inflammation, joint pain, and eventual cartilage destruction. IRAP works to counteract these destructive effects by blocking the cycle of inflammation in the horse's joints.

With this therapy, a veterinarian draws blood from the horse and incubates it for 24 hours to stimulate the release of the regenerative and anti-inflammatory proteins. The protein is extracted and then injected back into the horse's joint. Since IRAP therapy is a natural anti-inflammatory, it can be used repeatedly and is often utilized as preventative maintenance for joint disease as it can slow the early development and progression of osteoarthritis.

Stem Cells

Stem cells are essentially 'blank slate' cells that have the potential to differentiate into nearly every type of tissue, such as tendon, ligament, bone, cartilage, and muscle. Stem cells are collected from bone marrow or adipose (fat) tissue and processed in a laboratory. Once the cells have been cultured and multiplied, the veterinarian will inject them into an affected area to allow the body to heal with decreased production of scar tissue. Stem cell therapy used early after an injury can promote more aligned fibers in tendons or ligaments to result in stronger, healthier tissue.



Dr. Santiago Demierre performing a stem cell injection. Photo courtesy of PBEC

Determining the Best Regenerative Therapy for Your Horse

Palm Beach Equine Clinic strives to better serve sports horses and stay current with the development of cutting-edge regenerative therapies. PBEC veterinarians are nationally and internationally recognized as leaders in sport horse medicine and work in a collaborative environment that brings together diverse, comprehensive veterinary care for your horse.

Dr. Bryan Dubynsky is one PBEC veterinarian who focuses on helping horses stay in top condition and feeling their best with regenerative therapies. Dr. Dubynsky offers PRP, IRAP, ACS, Stem Cell treatments, and more at PBEC.

Talk to your PBEC veterinarian about the best regenerative medicine treatment plan for your horse's individual needs by calling 561-793-1599.

[Learn More](#)



Dr. Bryan Dubynsky. Photo by Jump Media

Meet the PBEC Team

Dr. Sidney Chanutin

Local Florida native, Dr. Sidney Chanutin always aspired to become a veterinarian. She decided to dedicate her life to horses and has been immersed in the equine industry since before owning her first horse at age eight.

Dr. Chanutin completed her undergraduate studies in Biology at Florida Atlantic University, graduating with Summa Cum Laude honors. During and after college, Dr. Chanutin worked as a veterinary technician for a south Florida based equine practice where she assisted with patient treatments, administrative tasks, and USEF drug testing during the Winter Equestrian Festival show season. She pursued her dream of becoming a veterinarian by obtaining her doctorate at the University of Florida where she took part in the Florida Veterinary Scholars Program.

Dr. Chanutin holds a certificate as an Artificial Insemination Technician and is Category II accredited through the USDA. In addition to being an active member of the American Association of Equine Practitioners and the American Veterinary Medical Association, Dr. Chanutin is a FEI (International Federation of Equestrian Sports) Permitted Treating Veterinarian and a USEF Drug Testing Technician.

Dr. Chanutin enjoys spending her days working outdoors traveling to treat a variety of equine patients. Her primary veterinary interests include sports medicine and ophthalmology while she finds it especially rewarding to work on surgical and intensive care cases. Outside of the hospital, she enjoys her time in the saddle riding her personal horses or going fishing with her fiancé Shawn.

[Learn More About Dr. Chanutin](#)



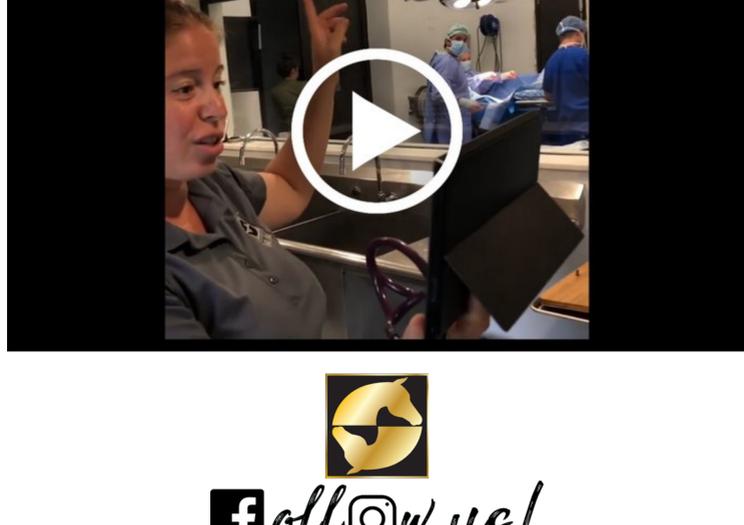
Dr. Sidney Chanutin. Photo courtesy of PBEC



Dr. Sidney Chanutin on the job. Photo courtesy of PBEC

Inspiring the Next Generation of Equine Veterinarians

Dr. Greenfield Davis took the children of Yavneh Day School in Los Gatos, California, on a virtual field trip through the Equine Hospital. The team at Palm Beach Equine Clinic is always happy to play a part in inspiring future generations of veterinarians!



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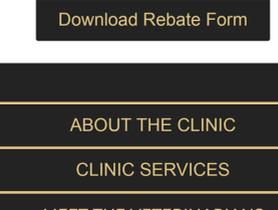
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