



Nature's healing pyramid

"Natural forces within us are the true healers of disease."

Those words were uttered, not by a modern stem cell researcher, but 2,300 years ago by the Greek physician Hippocrates. The "Father of Medicine" observed that while "healing is a matter of time, it is sometimes also a matter of opportunity." Twenty-three centuries later, such an opportunity has arrived in the form of regenerative medicine.

The idea of harnessing the body's innate ability to heal itself has evolved from ancient assumption to modern reality—with the veterinary world helping lead the way. Near the forefront of this revolution is the world's largest animal stem cell company, MediVet.

Jeremy Delk, armed with an M.A. in finance and a four-decade family history of racehorse ownership, brought the science to this country and made it available last year. According to Delk, the company's three core goals are: 1) Help millions of animals suffering from degenerative ailments; 2) Accomplish this by using drug-free, natural methods; and 3) Make those treatments affordable across the demographic spectrum.

MediVet offers a multistep pyramid of treatment options. While all are designed to rally the body's self-repair troops, there are differences in potency levels, processing methods, and price points. In ascending order, from starter level to cutting edge, these options are as follows:

Platelet rich plasma (PRP)—Platelets are cell fragments in the blood that secrete growth factors. Blood is spun in a centrifuge to isolate platelet-rich components, resulting in a concentrated source of proteins (cytokines) that stimulate healing and combat inflammation. Each sample produces one to two doses, and cost per treatment ranges from \$300 to \$400.

Studies show that PRP can be more effective than cortisone in treating cartilage and tendon tissues and without the damaging side-effects.

Autologous conditioned serum (ACS)—The blood is incubated, then activated with MediVet's L.E.D. technology to stimulate release of antagonist proteins that block inflammation. The concentration of healing cytokines in ACS is higher than that of PRP, and thus provides a stronger anti-inflammatory effect. Multiple doses are produced from a single sample.

SGF-1000—Derived from ovine placental extract, this serves up a concentrated medley of growth factors and repair proteins. The extract can be broken down and filtered in ways to meet the specific needs of a patient—be it an injured racehorse, a stallion with declining fertility, or a mare who has trouble carrying a foal to term.

Adipose-derived stem cell therapy—This process isolates and "awakens" millions of dormant, nondifferentiated adult stem cells capable of mutating into a broad range of other cell types, including bone, cartilage, and ligament—the big-three of orthopedic injuries. Fat tissue provides up to 1,000 times more stem cells than bone marrow, and can be processed within hours—rather than the weeks required to grow therapeutic levels of marrow cells.

Today, regenerative therapies are revolutionizing medicine in a way not seen since the development of antibiotics. This blending of nature and science provides treatment options for once incurable problems—that are increasingly being used in place of drugs and surgery.

As Aristotle put it: "If one way be better than another, that you may be sure is nature's way."



World's Largest Animal Stem Cell Company
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THOROUGHBRED TIMES TODAY JOCKEY OF THE WEEK®

Ramon Dominguez

Boosted by winning his fifth and sixth Grade 1 races of the year on Saturday at Belmont Park, Ramon Dominguez led all North American jockeys by purse earnings for the week ended October 4

Dominguez guided Stacelita (Fr) to victory in the Flower Bowl Invitational Stakes (G1) and later rode Horse of the Year candidate Havre de Grace to a win in the Beldame Invitational Stakes (G1).

Dominguez currently leads all North American jockeys by purse earnings for the year through Tuesday with \$14,383,631, more than \$1-million more than his closest pursuer, John Velazquez.

The 34-year-old rider will be in Lexington this weekend to

ride three-time champion Gio Ponti in the Shadwell Turf Mile Stakes (G1) on Saturday at Keeneland Race Course.

North American leading jockey by earnings (September 28 through October 4)

Jockey	Strs	Wnrs	Earnings	Leading Earner
Ramon A. Dominguez	34	10	\$927,812	Stacelita (Fr) (\$300,000)
Rafael Bejarano	16	7	798,790	Plum Pretty (\$430,500)
Alex O. Solis	18	2	590,402	Flat Out (\$450,000)
Joel Rosario	24	5	551,540	Dubawi Heights (GB) (\$150,000)
Julien R. Lejaroux	12	5	535,165	Wilburn (\$300,409)
Jose Lezcano	19	4	435,952	Drosselmeyer (\$150,000)
Emma-Jayne Wilson	32	9	387,452	City Wolf (\$85,725)
John R. Velazquez	26	5	359,910	Uncle Mo (\$120,000)
Cornelio H. Velazquez	20	2	352,460	Giant Ryan (\$210,000)
Jamie P. Spencer	1	1	300,000	Cape Blanco (Ire) (\$300,000)