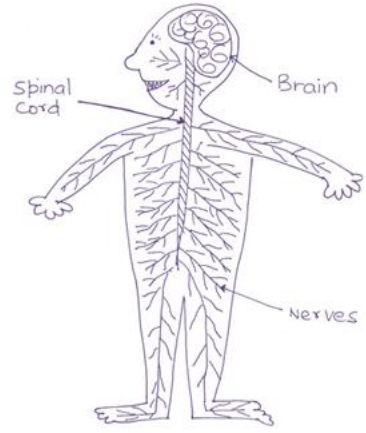


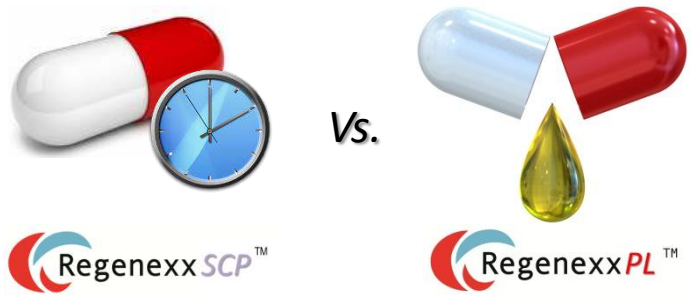
How do we get more growth factors on the ground?

What is PL?

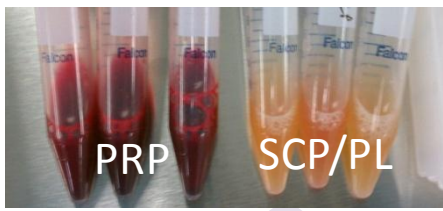
PL stands for "Platelet Lysate". We take our novel Super Concentrated Platelet (SCP) mix and break open all of the platelets to get the growth factors out. Why? Just like an immediate release pill, sometimes it's better to have more growth factors on the ground to help stimulate cells toward repair. So while SCP is like a timed released pill which releases growth factors slowly, PL is like an immediate release pill. With experience extending back to 2005, we have found that PL works best around nerves.



PL is better for injections around nerves.

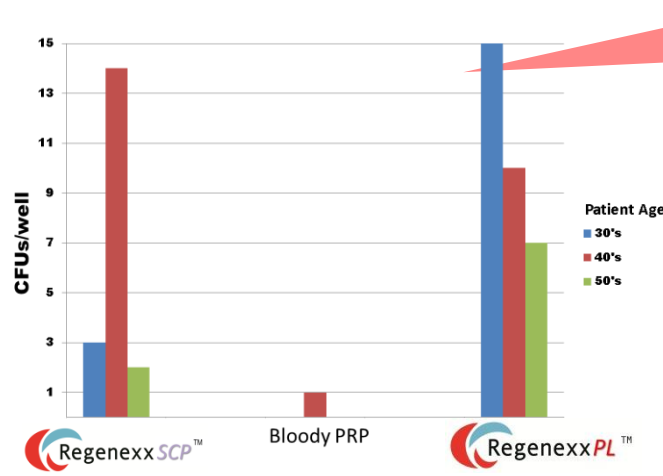


Are You being Injected with Bloody PRP?



What does all this mean? The top picture illustrates our clinical experience that PL works well when injected around nerves. As a result, we use the Regenexx-PL procedure to help reduce swelling and pain in patients with bulging or herniated discs pressing on nerves or when nerves have become trapped and need to be hydro-dissected through exacting injection under ultrasound guidance. **The graph below** represents the response of stem cells to various platelet preparations. The height of the bars represent just how well the platelets are able to energize stem cells. Note that PL, because it has all of it's growth factors immediately available, is able to stimulate more stem cell growth out of the gate. While SCP will eventually catch up after it releases all of it's growth factors, also note that the bloody PRP commonly used by doctors under performs both Regenexx procedures.

Why should I care? If the PRP you're being injected with is red, then it has far too many red and likely white blood cells. This will not only cause excessive inflammation, but it also inhibits the response of your local stem cells. You want the platelet prep being used to do the opposite-stimulate your own local stem cells! As a result, the injection should be amber in color. Regenexx-PL, like Regenexx-SCP, is without red blood cells but also has the pro-inflammatory platelet bodies removed. Both of these things make it ideal for use around nerves.



Caution! This is in-vitro data, which is not the same as a controlled trial in patients. This means it was collected in a lab experiment.



The Regenexx-PL procedure removes the concentrated healing growth factors from platelets and makes them immediately available to cells.

Three patients of differing ages had their platelet preps used to culture similar age human allogeneic MSC samples [1]. The same MSC samples were used with both Machine PRP and SCP. CFU's (Colony Forming Units) are a standard metric for measuring the proliferation of MSCs. Platelet concentration was kept constant between the samples. [1]-MSCs cultured monolayer using A-MEM plus the tested platelet prep and cultured at 5%O2/CO2 for 6 days. CFU's counted using microscopy.