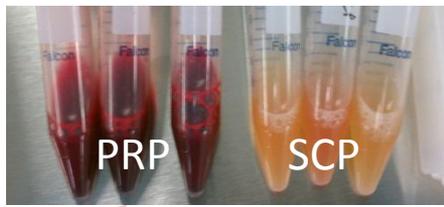


# How does --SCP compare to bedside centrifuges?



**What's the difference between bloody PRP made in a bedside machine and SCP?**  
 Doctors make PRP in small bedside centrifuges because it's easy. You put the blood in and press the button-what you get out is mass produced PRP that has it's limitations. The Regenexx network doctors make their PRP by hand in a sophisticated clean hood, so that what comes out is better.

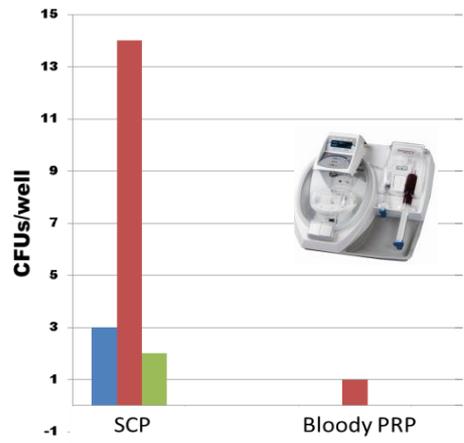
Are You being Injected with Bloody PRP?



**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 more unneeded 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. How do you get the better amber PRP? Make it by hand in a hood.



The Regenexx-SCP procedure produces a mixture of super concentrated platelets to promote healing.



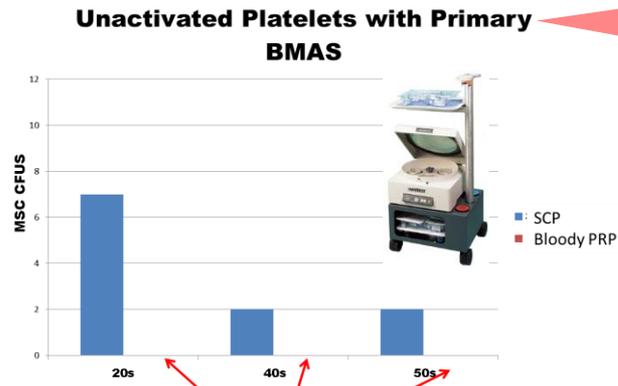
**Caution!** This is in-vitro data, which is not the same as a controlled trial in patients This means it was collected in a lab experiment

**What does this mean?**  
 The different colored bars represent the age of the patient samples (i.e. "30s" means a sample from a patient between age 30-40).

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.

**What do these two graphs mean?** The top graph shows the ability of SCP to out-perform one of the best selling machine made, bloody PRPs. The height of the bars represent the number of stem cell colonies that were stimulated to grow by each platelet prep-the higher the bar the better the stem cell growth. The graph below shows SCP against another bedside machine producing bloody PRP. The height of the bars means the degree of growth of stem cells,, note that the machine made PRP produced no detectable growth in stem cells while the SCP did produce growth. This experiment was checked twice. The age of the patients from whom the samples were taken is listed along the bottom of the graph.

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PRP RBC+ was processed according to manufacturers instructions to yield 10mL of PRP from 60 mLs of whole blood.  
 PRP RBC- was generated from 60mLs of whole blood according to SOPs, yielding platelet-containing volumes from 10-12 mLs (individual dependent).  
 In each case, the platelet product was used to supplement DMEM media to 10%.  
 12-well culture plates were seeded at 1 million nucleated cells/cm<sup>2</sup> with cryo-preserved nucleated cell portion of bone-marrow aspirate from individuals in the respective age range per blood donor.  
 Each sample was tested under the condition of un-activated and activated platelets.  
 Activation by Thrombin and CaCl<sub>2</sub>  
 Cultures were expanded for 6 days

No stem cell growth with bloody PRP from Machine 2