



## **Combination treatments with Cellenis®PRP**

Clinical evidence has shown that combining PRP with other rejuvenation techniques, such as fillers, mesotherapy and laser treatments induces a synergistic beneficial effect.

### Micro Needling:

- "Our study showed that the combined use of skin needling and PRP is more effective than skin needling alone in improving acne scars" (Fabbrocini et al, 2011)
- "The combination of PRP infusion with micro needling quantify the stimulation of new collagen synthesis and cell formation exactly where it is needed, right at the dermal layer". (Greco, 2006)

### Laser:

- "Needle-free PRP treatments can be used in selected individuals, with the right equipment (fractional CO2 laser), to significantly improve skin quality". (Shoaib, 2013)
- "PRP with fractional laser treatment is a good combination therapy for skin rejuvenation". (Shin et al, 2012)
- "Intradermal RF combined with autologous PRP appears to be an effective treatment for striae distensae" (Kim et al, 2012)
- "Treatment with PRP after ablative CO2 fractional resurfacing enhances recovery of laser-damaged skin and synergistically improves the clinical appearance of acne scarring". (Lee et al, 2011)

### Combination of platelet rich plasma (PRP) and Hyaluronic acid (HA)

The combination of platelet rich plasma (PRP) and Hyaluronic acid (HA) therapies may create a synergistic effect, as the HA acts as a scaffold upon which the PRP induces collagen and adipocyte generation. This will result in both augmentation and maintaining of tissue volumizing effect. Promising aesthetic results have been demonstrated using this technique, and studies are ongoing. The combination of PRP and filler provides a custom designer procedure that leaves patients looking more youthful for longer than traditional procedures.

As our goal with the PRP treatment is to accelerate the healing process and reduce the pain accompanied with the injury, we need to isolate and purify the main cells that are known to adverse the anabolic effect, and help with the rejuvenation path. These are mainly the platelets which upon activation will release the growth factors and other bioactive proteins stored in their granules. In the presence of HA, platelets will get activated to release their granules content (growth factors and bio-effecting proteins). If HA meets the whole blood, i.e before PRP separation/centrifuge, it will cause the activation of various blood cells leading to the release of catabolic mediators as well.