The science of stem cell advancement in cosmetic and plastic procedural treatments

An expensive problem:
- The treatment of wounds and associated complications exceeds $20 billion annually in the US.
- Chronic and nonhealing wounds are costly because they require repetitive treatments; for example, a diabetic foot ulcer typically costs $50,000 to treat.
- Chronic wounds affect 1% of the population at any given time.

Old technologies unsuccessful:
- Current technologies remain partially effective in their ability to restore other skin structures, for example the dermis, which is critical to the overall long-term appearance and function of the skin.

Cell-based options are the answer:
- **For Scars**
  - Transplanted hMSCs significantly inhibited scar formation and increased the tensile strength of the wounds.
  - Adipose tissue-derived stromal cells inhibit contraction in scar-derived fibroblasts, in a paracrine fashion.
- **For Burns & Wound Healing**
  - Adipose-derived stromal cells accelerate wound healing.
- **For Skin Rejuvenation**
  - Autologous Stem cells treatment may have a useful therapeutic effect for salvaging photodamaged skin.
  - Adipose Stem Cells produce many useful growth factors, increase collagen production in animal study, and reverse skin aging.

Mystem® kits allow the physician to collect ARFs (Autologous Regenerative Fraction) rich in Autologous Stem Cells in fast, sterile and affordable way.