**Impact Statement of Skin Spray Gun**

For burn patients and their plastic surgeons who have limited options for covering the large burn wounds, it’s a challenging to achieve successful transplantation from patient’s own healthy skin. Today, their best option is skin grafting, which suffers from limited graft to wound area coverage ratio of 1:4 our approach will offer 1:30 wound area. An alternative would be to use xenograft or artificial skin or cadaver to cover the wound, leading to high risk of rejection. Additionally, the current standard of care required multiple stage surgery to cover large wound in stages yielding to prolong hospital stay. Thus, there is a need to cover large wound with limited healthy skin, which if solved, would have the impact nearly 9 million burn injuries annually and reducing hospitalization time. We are able to address/accomplish this by spraying stamp size donor skin uniformly on the wound, by innovative processing and delivery device using the technology of spray atomization of skin particles. We will demonstrate an 80% reduction of the donor area, fewer procedure, shorter surgery time, better functional outcomes and shorter length of stay.