# Wound Infection Mitigation

## Cost-savings Analysis

Researchers sponsored by USUHS have estimated the cost-savings associated with using the SC2i-developed WounDx tool. WounDx, a validated CDS tool, is designed to guide the timing of wound closure in traumatic wounds as well as to establish criteria for both the number and frequency of wound debridement, on a wound-specific basis. Conclusions from the analysis suggest national cost-savings of $1.09 billion annually. Applied retrospectively to OIF and OEF, the cost-savings to MHS would have been around $470 million. A second analysis looking at the operational benefits of using a MTP during a conventional war scenario points to substantial logistical savings: ~30,000 red blood cell units, ~17,000 fresh-frozen plasma units, ~1,500 apheresis platelet units, ~12,000 cryoprecipitate units, as well as 34,500 gallons of aviation fuel (i.e. avoidable resupply missions). Additional analyses for SC2i-funded initiatives (e.g., Severe TBI, Monitoring of Physiologic Decompensation) will be developed and released in FY15. Employing CDS tools such as WounDx has the potential to bring spiraling costs under control through personalized, biology-driven care that provides the appropriate care at the appropriate time, rather than over-treating on the premise that more treatment itself will lead to better outcomes.