This is a retrospective case study of three patients utilizing vacuum socket technology to heal open wounds on their residual limbs. Traditionally, when an amputee develops any type of open wound, they are instructed to discontinue use of the prosthesis until the wound is healed. This leads to dehabilitation and allows sedentary types of diseases to progress. The patients ranged in age from 16 years to 78 years old. One patient has diabetes, one patient has a non-malignant tumor, and one patient has PVD and lupus. Two of the patients were bilateral and one was a unilateral amputee. Vacuum was applied at 18 inHg or higher on all patients. Each patient ambulated with their prosthesis during the heal phase. All wounds healed in 9 weeks or less time frame. In conclusion, all patients were able to utilize their vacuum socket prosthesis to maintain their functional level, while at the same time healing the open wounds.