

Autologous Platelet Concentrate and Vacuum-Assisted Closure Device Use in a Nonhealing Total Knee Replacement

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Abstract: Following a total knee replacement surgery, a 51-year-old insulin-dependent patient presented with complications of impaired healing and postoperative trauma to the wound site. The inability of this leg wound to heal placed this patient at risk of amputation. Vacuum-assisted closure therapy was initiated at postoperative day 53; after 100 days of protracted wound history a series of treatments with topical platelet concentrates were

added to the vacuum assisted closure therapy and conventional wound care therapy. The previous nonhealing wound presented with good granulation and margination that enabled a skin graft with good take on postoperative day 150. **Keywords:** platelet concentrate, nonhealing diabetic wound, vacuum-assisted closure. *JECT. 2006;38:44-47*
