

RENASYS[®] Negative Pressure Wound Therapy System (tNPWT) and V.A.C.[™] NPWT show comparable wound outcomes in patients with acute and chronic postsurgical wounds

Hurd T, Rossington A, Trueman P, Smith J. A retrospective comparison of the performance of two negative pressure wound therapy systems in the management of wounds of mixed etiology. *Adv Wound Care*. 2017;6(1):33–37.

Available at: [Advances in Wound Care](#)

Key points

With use of RENASYS tNPWT or V.A.C.[™] NPWT:

≥90%
of patients achieved treatment goals
(93.6% with RENASYS tNPWT and 90.0% with V.A.C.[™] NPWT)

Comparable reductions in mean wound area during, and at end of treatment

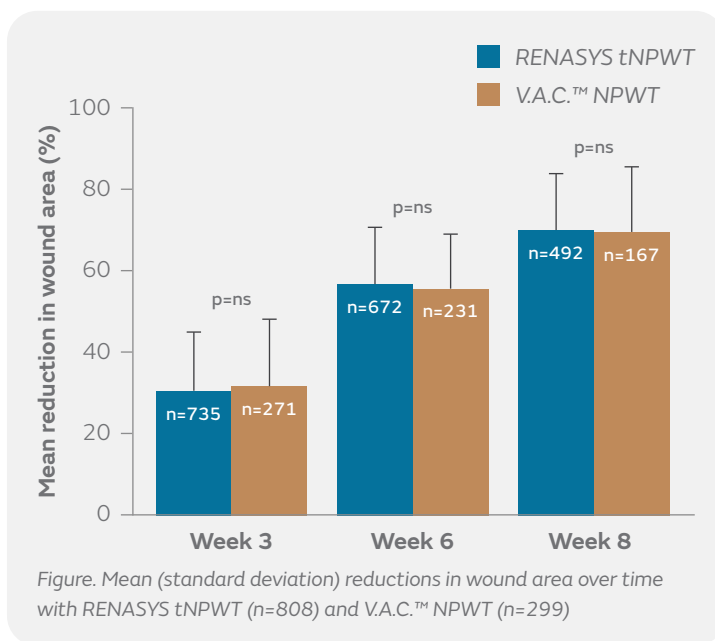
8 weeks
Median time to achieve treatment goal

Overview

- A retrospective review of acute and chronic postsurgical wounds treated with NPWT (Aug 2009 to Jul 2012) at two community-based organisations and four acute care hospitals in Canada
- Patients received either RENASYS tNPWT (n=808) or V.A.C.[™] NPWT (KCI Inc., San Antonio, TX, USA; n=299)
 - Use of foam, gauze and pressure settings were determined by individual practitioners
 - Adjunctive therapies were used according to local protocols
- Patient demographics and baseline wound characteristics were similar in both groups
- For wounds with large fluid volumes, after 2 weeks of therapy with continuous NPWT and once drainage was controlled, intermittent NPWT was applied for the remainder of the therapy
- Performance criteria included wound area reduction at weeks 3, 6, and 8, and the proportion of patients meeting predefined treatment goals

Results

- Proportions of patients achieving treatment goals were similar with RENASYS tNPWT (93.6%) and V.A.C.[™] NPWT (90.0%)
 - Median time to achieve treatment goal was 8 weeks in both groups
- Mean reduction in wound area at Week 8 was similar with RENASYS tNPWT (65.3%) and V.A.C.[™] NPWT (64.2%; Figure)
 - Mean weekly reductions in wound area were 9.4% and 9.7%, respectively (p=ns)
- In a subanalysis of wounds with suspected infection that received ACTICOAT[®] FLEX 3 Antimicrobial Barrier Dressing with RENASYS tNPWT (n=291) or V.A.C.[™] NPWT (n=88), patients achieving treatment goals and mean reductions in wound area were comparable in both groups and to the total patient population



Conclusions

Use of RENASYS tNPWT or V.A.C.[™] NPWT to manage acute and chronic postsurgical wounds resulted in similar proportions of patients achieving treatment goals and comparable reductions in mean wound area.

For detailed product information, including indications for use, contraindications, precautions and warnings, please consult the product's applicable Instructions for Use (IFU) prior to use.