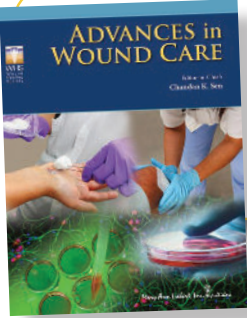


REAL WORLD EVIDENCE STUDY



Reduced Hospitalizations and Amputations in Patients with Diabetic Foot Ulcers Treated with Cyclical Pressurized Topical Wound Oxygen Therapy: Real-World Outcomes

Jessica Izhakoff Yellin, Julia A. Gaebler, Frank F. Zhou, Timothy Niecko, Olivia Novins, Amelia Ockert, Darcy Krzynowek, Matthew G. Garoufalis, Aliza M. Lee, and Robert G. Frykberg

#1 Ranked Journal in Wound Care

RESULTS:

OUTCOMES: Unmatched Cohort at 360 Days

88%

REDUCTION in Hospitalizations

71%

REDUCTION in Amputations

- Unmatched cohort representing the real world heterogenic mix of patients treated for DFU

82%

REDUCTION in Hospitalizations

73%

REDUCTION in Amputations

- Matched cohort of DFU patients with balanced covariants demonstrates similar outcomes to unmatched cohort

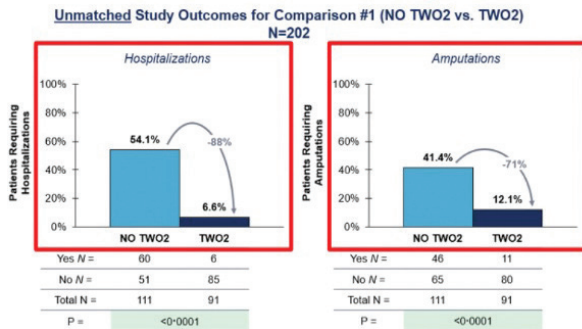
9X

HIGHER RISK of Hospitalization

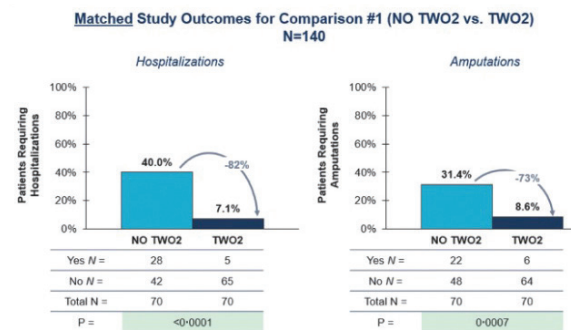
5X

HIGHER RISK of Amputation

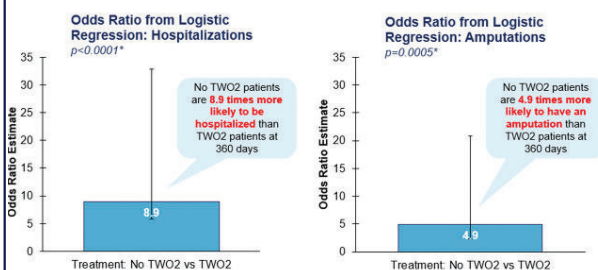
- The logistic regression of matched cohorts demonstrate the odds of hospitalization and amputation when **not** treated with TWO₂



OUTCOMES: Matched Cohort at 360 Days



ODDS RATIO from Logistic Regression



RESEARCH DESIGN:

- Study was performed at two U.S. Veterans Affairs hospitals.
- Medical records were reviewed for demographic information such as age, sex, ethnicity, wound characteristics, wound duration, Wagner classification, wound area, CVD, PVD, kidney disease, HbA1c, history of amputation, and neuropathy.
- The Primary Outcomes were patients requiring hospitalization and/or amputation within 360 days of initial wound documentation.

UNMATCHED Cohorts **202**

91 received TWO₂ therapy, 111 did NOT receive TWO₂.

MATCHED Cohorts **140**

70 received TWO₂ therapy, 70 did NOT receive TWO₂.

BOTH cohorts received Standard of Care (SOC) and may have received adjunct therapies including negative pressure wound therapy (NPWT), skin substitutes (SS), and/or growth factors (GF).

CONCLUSION: This retrospective cohort study demonstrates that **treating patients with DFU with TWO₂ is associated with significant reductions in hospitalizations and amputations in the real-world setting.**

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OXYGEN

Higher pressure delivery results in greater tissue diffusion, upregulating wound metabolism, resulting in **faster and more durable healing.**



COMPRESSION

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HUMIDIFICATION

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REFERENCE:

- Reduced Hospitalizations and Amputations in Patients with Diabetic Foot Ulcers Treated with Cyclical Pressurized Topical Wound Oxygen Therapy: Real-World Outcomes; *Advances in Wound Care*; 2021

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