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UNISOFT

MEDICAL CORPORATION

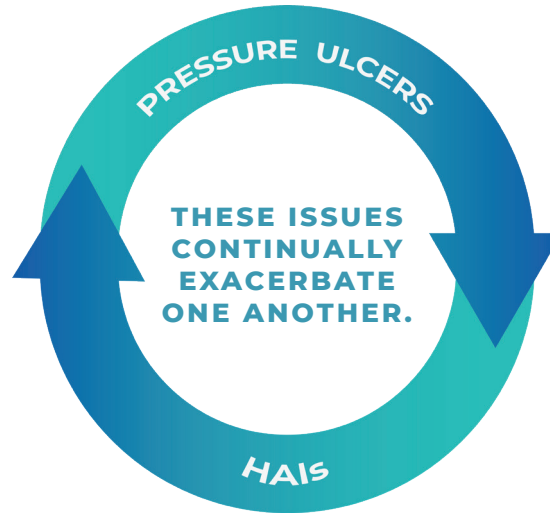
Clean • Comfortable • Care

www.unisoftmedical.com

The Problem

PRESSURE ULCERS

- » 3 million patients affected annually.
- » 60,000 deaths.
- » 17,000 lawsuits.
- » \$26.8 billion in costs.



HEALTHCARE ASSOCIATED INFECTIONS (HAIs)

- » Contributed to by **contaminated**, impracticable to clean health care mattresses.
- » Primary cause of **preventable death**.
- » **\$4.6 billion** in costs.
- » **30%** of hospital mattresses have invisible damage.

The Solution

The Unisoft One Mattress System is the **first** healthcare mattress designed for optimal infection control and the prevention and treatment of pressure ulcers.

Clean.
Comfortable.
Care.



“Unisoft Medical’s ‘goal [is] to provide a . . . hospital mattress that meets the medical device cleaning requirements to prevent hospital acquired infections. [This] is an unmet need within the industry.”

**PATENT EXAMINER,
U.S. PATENT OFFICE**



WE'RE
CHANGING
HEALTHCARE,
*one mattress
at a time.*

UNISOFT MEDICAL CORPORATION

Who We Are

Unisoft Medical uses proprietary heat-sealing technology to produce the **first** cost-effective, recyclable healthcare mattress designed to prevent and treat pressure injuries *and* provide optimal infection control.

- » Unisoft Medical is **a woman-owned company**, spun off from Trlby Innovative, a design and engineering company, in **October of 2015**.
- » UMC currently occupies a **25,000 sqft facility** in Torrington, Connecticut, and has **10 full-time employees**.
- » UMC equipment was designed and built in-house and **embodies extensive proprietary IP**.
- » Currently, our Gen. I Mattress Equipment is complete and producing approx. **6,000 units annually/shift**.



the Data behind the Problem

PRESSURE ULCERS

- » Annually, an estimated **3 million patients** in the United States are treated for pressure injuries.¹
- » Pressure injuries cost the U.S. healthcare industry around **\$26.8 billion per year**² and an estimated additional cost of **\$43,180 per hospital stay**.³
- » More than **17,000 lawsuits** related to pressure injuries are filed annually, making them the **second most common** healthcare lawsuit subject after wrongful death.³
- » **60,000 U.S. patients die annually** as a direct result of pressure ulcers.³

HEALTHCARE-ASSOCIATED INFECTIONS

- » Each day, **1 in 31 U.S. hospital patients** develops at least one healthcare-associated infection.⁴
- » HAIs are the **primary cause of preventable death** among patients in the United States.⁵
- » Using a mattress previously used by a patient with an infection **increases one's own risk by 583%**.⁶

CONTAMINATED MATTRESSES

- » **30% of hospital mattresses have invisible damage**, which allows pathogens to infiltrate the mattress interior.⁷
- » In 2013, **the FDA released a safety alert**, warning healthcare workers and care providers of the dangers and risks of worn and damaged medical bed covers.⁸

SOURCES

1. Hajhosseini B, Longaker MT, Gurtner GC. Pressure Injury. Ann Surg. 2020 Apr;271(4):671-679. doi: 10.1097/SLA.0000000000003567. PMID: 31460882.
2. Padula, WV, Delarmente, BA. The national cost of hospital-acquired pressure injuries in the United States. Int Wound J. 2019; 16: 634– 640. <https://doi.org/10.1111/iwj.13071>
3. 1. Are we ready for this change?. Content last reviewed October 2014. Agency for Healthcare Research and Quality, Rockville, MD. <https://www.ahrq.gov/patient-safety/settings/hospital/resource/pressureulcer/tool/pu1.html>
4. "HAI and Antibiotic Use Prevalence Survey." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, 26 Mar. 2014, www.cdc.gov/hai/eip/antibiotic-use.html#:~:text=U.S.%20healthcare%20facilities-,Overview,%2Femotional%2C%20and%20financial%20health.
5. Centers for Disease Control and Prevention. 2014 National and State Healthcare-Associated Infections Progress Report. Published March, 2016. Available at www.cdc.gov/hai/progress-report/index.html.
6. Cohen B, Liu J, Cohen AR, Larson E. Association Between Healthcare-Associated Infection and Exposure to Hospital Roommates and Previous Bed Occupants with the Same Organism. Infect Control Hosp Epidemiol. 2018 May;39(5):541-546. doi: 10.1017/ice.2018.22. Epub 2018 Feb 28. PMID: 29486805; PMCID: PMC5935247.
7. Bradbury SL, Mack D, Crofts T, Ellison RT 3rd. Potential bloodborne pathogen exposure from occult mattress damage. Am J Infect Control. 2014 Apr;42(4):421-2. doi: 10.1016/j.ajic.2013.10.011. Epub 2014 Feb 20. PMID: 24559597.
8. "FDA Safety Communication: Damaged or Worn Covers for Medical Bed Mattresses Pose Risk of Contamination and Patient Infection." Effective Medicine, U.S. Food & Drug Administration, 19 Apr. 2013, www.effectivemedicine.org/2013/04/19/fda-safety-communication-damaged-or-worn-covers-for-medical-bed-mattresses-pose-risk-of-contamination-and-patient-infection/.

The Unisoft One

The solution - designed to prevent and treat pressure ulcers and provide cost-effective, optimal infection control.



Protective

Unique design and structure provide comfortable pressure redistribution for the **prevention and treatment of pressure ulcers**.



Infection Control

Cost-effective and recyclable, a viable option for single-patient use - **eliminating the risk of cross-contamination**.



Clean

Bleach and hydrogen peroxide compatible materials, a level 4 viral barrier non-woven cover, and **no internal fittings or fillings**.



Compact

Weighs just 6.7 lbs and can be stored in a compact, vacuum-sealed bag.



Comfortable

Patients' feedback is consistently positive with many saying that the Unisoft One is the **most comfortable mattress they have ever used**.



Universal

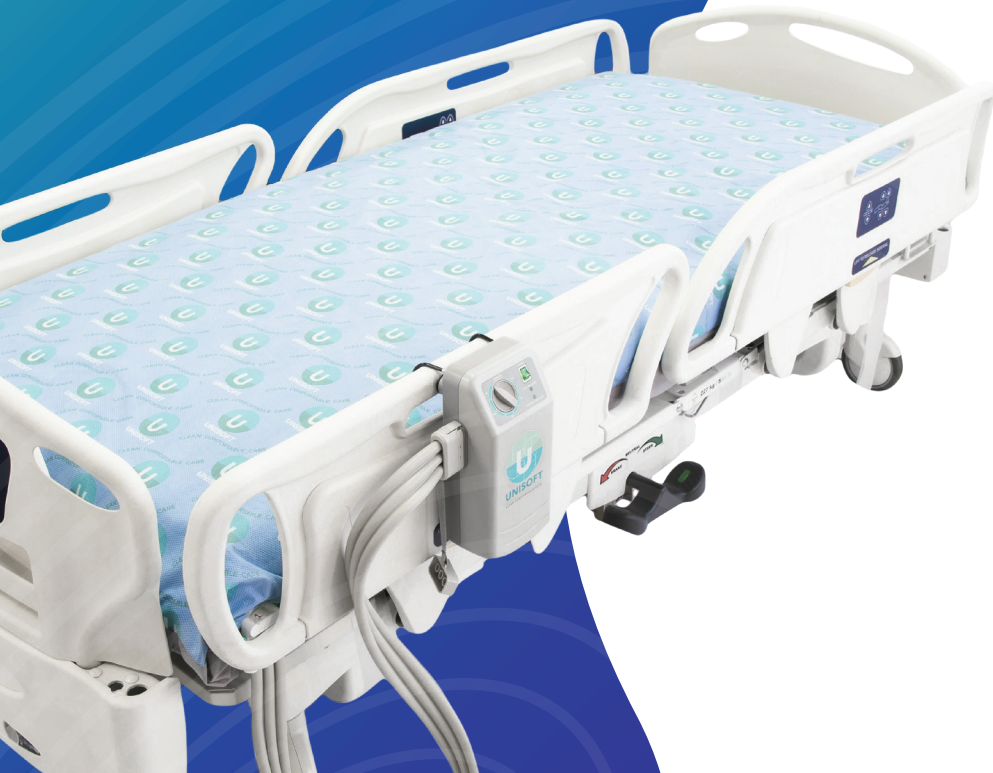
Suitable for use in all healthcare facilities and patient homes. **Easy setup and requires minimal training**. Integrated side rails prevent head entrapment, and **provide safer egress**.



THE UNISOFT ONE:

3 Components

Mattress • Pump • Tube System



COVID 19 – What We’ve Learned

MATTRESSES BECOME HIGH-ANXIETY AREAS

- » **Porous surfaces, like the foam used in healthcare mattresses, are easily contaminated.** Once this occurs, the CDC instructs soft porous surfaces to be manually cleaned with soap and water, laundered if possible, and disinfected using a recommended list of approved disinfectants.¹⁴ **Healthcare mattresses are not bleach compatible.**
- » However, these mattresses cannot be laundered. The outer covering can be disinfected, but should the cover be compromised in any way and the foam contaminated, **it becomes nearly impossible to thoroughly disinfect.**

HOSPITALS BECOME OVERWHELMED

- » Hospitals consistently reached and exceeded their capacities, placing **immense pressure and workloads** on nursing and support staff.¹⁵
- » With rising admission rates and increased patient turnover, nurses and support staff have **less time and resources** for lengthy, labor-intensive mattress cleaning protocols.

PRESSURE ULCERS ON THE RISE

- » At-risk patients are ultimately spending an increased amount of time in bed, due to **isolation, illness, and canceled activities.**
- » Due to this, the National Pressure Injury Advisory Panel expects **an increase in pressure injury instances.**¹⁶

SOURCES

14. "Cleaning and Disinfecting Your Facility." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, Jan. 2021, www.cdc.gov/coronavirus/2019-ncov/community/disinfecting-building-facility.html.
15. McMinn, Sean, and Audrey Carlsen. "Federal Data Reveal Which Hospitals Are Dangerously Full This Week. Is Yours?" NPR, 1 Feb. 2021, www.npr.org/sections/health-shots/2020/12/09/944379919/new-data-reveal-which-hospitals-are-dangerously-full-is-yours.
16. Cuddigan, Janet. "NPIAP Covid-19 Resources." THE NATIONAL PRESSURE INJURY ADVISORY PANEL, THE NATIONAL PRESSURE INJURY ADVISORY PANEL, 2 Apr. 2020, npiap.com/news/499328/NPIAP-COVID-19-Resources-.htm.