

Medismart:

Impact on Safety, Cost and Waste Volumes

Authors De Sousa F, Martin D and Grimmond T

Publication Healthcare Infection 2014, 19, 76-80.

<http://dx.doi.org/10.1071/HI13048>

“The study found that the use of a smaller 17Gallon linerless, reusable hospital wastebin system, through its design and operation, has the potential to reduce medical waste volumes, increase labor efficiencies, decrease costs and minimize infection potential and sharps injury risk, all of which improve the quality of health care.” - Authors

What was the study?

Facility staff and managers at a 360 bed acute-care private Australian hospital found their use of a 64Gallon bin posed issues with infection risk, staff injury risk, aesthetics, logistics, waste volumes, space and cost, and furthermore, was not compliant with state guidelines.

The 3 year study **‘The impact of a liner-less reusable medical waste bin system on costs, waste volumes and infection risk in an Australian acute-care hospital’** examined the impact of transitioning from a 64Gallon bin to a Daniels M64 Medismart; a 17Gallon linerless reusable medical waste bin system.

What were the results?

The Medismart system:

- Was strongly preferred by staff
- Significantly decreased:
 - Medical waste mass & volume by 53.2% and 65.2% respectively
 - Medical waste disposal costs by 30.9%
 - Labor costs by 69.2%
- Was more space efficient and logistically superior
- Improved waste segregation
- Reduced infection risk and staff sharps injury risk
- Eliminated the issues previously noted with the 64Gallon bin system.

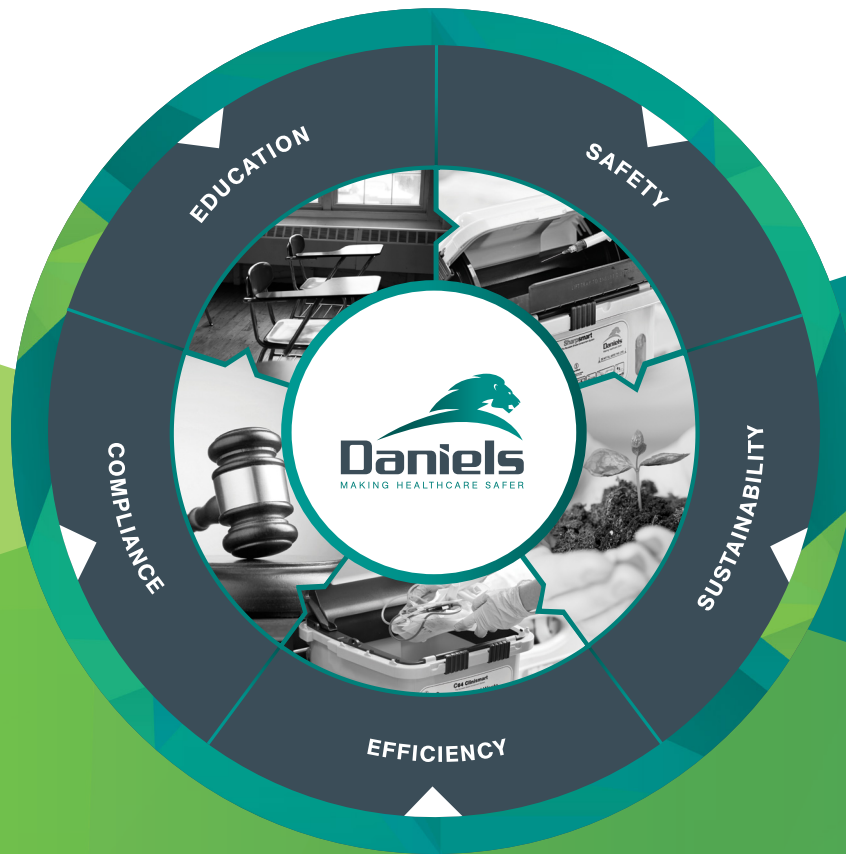
What does this mean for you?

The study's results show the Medismart system delivers significant efficiencies in waste management. Its design and functionality enables waste to be managed more sustainably with increased safety, minimal handling and reduced costs.



“Peer review is the critical assessment by experts, of manuscripts submitted to journals... unbiased, independent, critical assessment is an intrinsic part of all scholarly work.”

International committee of Medical Journal editors



The Daniels Difference

Healthcare Waste Management cost efficiencies are derived from the successful deployment of five key elements. At Daniels Health we work closely with our customers to ensure that all healthcare staff are protected, trained and equipped, that the facilities' risk profile is managed, and waste management costs are minimized.

Safety: Our highest commitment is safety; through intelligent products, systemized solutions and bespoke training, we work with our customers to reduce needlestick injuries, minimize infection transfer and provide solutions that protect the safety and minimize risk for staff and patients.

Sustainability: Our reusable products and environmentally responsible treatment services are designed to maximize segregation, reduce CO2 burden and minimize waste going to landfill. Through waste mapping, auditing and environmentally graded solutions, we work with our customers to achieve the highest green ratings.

Efficiency: Daniels Health optimizes the efficiencies of healthcare environments through smart products, process re-engineering and redefined waste handling methodologies. Significantly reducing the labor used in handling of waste through point-of-use bagless containment systems, an extensive range of mounting options and accessories and logistical solutions, our customized services guarantee optimized time and movement efficiencies.

Compliance: Experts in the regulatory complexities governing the healthcare sector, we position ourselves through the use of the Daniels range of products and services as an astute partner delivering expert guidance inside the four walls of a facility providing compliant solutions to our customers. All Daniels solutions are vetted against state and federal regulations and executed through waste plans and training to achieve optimized safety and compliance.

Education: Our ongoing commitment to educate staff within healthcare ensures that together we achieve greater safety awareness and drive behavioral change in waste management, segregation, compliance and best practice management. Through a blended learning approach using onsite training, a range of educational material and module-based e-learning, we ensure all healthcare staff are trained and compliance certified.

