

Medismart:

Impact on Safety, Cost and Waste Volumes

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“The study found that the use of a smaller 64L linerless, reusable hospital wastebin system, through its design and operation, has the potential to reduce clinical waste volumes, increase labour efficiencies, decrease costs and minimise infection potential and sharps injury risk, all of which improve the quality of health care.” - Authors

What was the study?

In waste management, staff and managers at a 360 bed acute-care private Australian hospital found their use of a 240Litre 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 clinical waste bin system on costs, waste volumes and infection risk in an Australian acute-care hospital”** examined the impact of transitioning from a 240Litre bin to a Daniels M64 Medismart, a linerless reusable clinical waste bin system.

What were the results?

The Medismart system:

- Was strongly preferred by staff
- Significantly decreased:
 - Medical waste mass and volume by 53.2% and 65.2% respectively
 - Medical waste disposal costs by 30.9%
 - Labour 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 240Litre bin system.

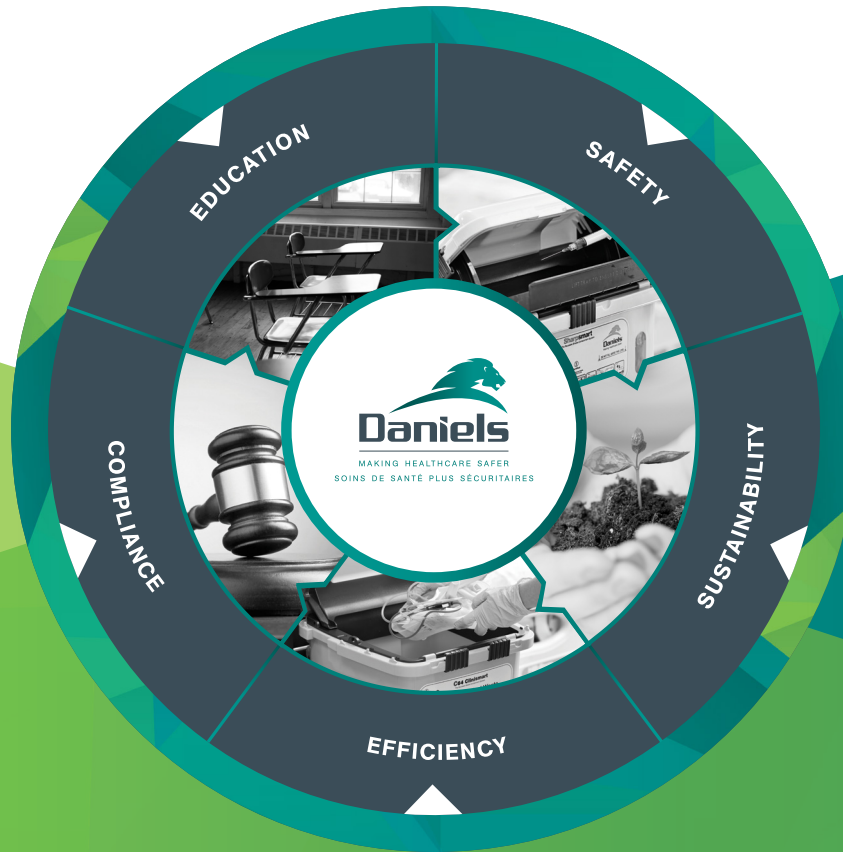
What does this mean for you?

The study's results show the Medismart system can deliver significant efficiencies in waste management. Through design and functionality, the Medismart system enables waste to be managed in a more sustainable manner with increased safety, minimal handling and at a reduced cost.



“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 minimised.

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

Sustainability: Our reusable products and environmentally responsible treatment services are designed to maximise segregation, reduce CO2 burden and minimise 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 optimises the efficiencies of healthcare environments through smart products, process re-engineering and redefined waste handling methodologies. Significantly reducing the labour used in handling of waste through point-of-use bagless containment systems, an extensive range of mounting options and accessories and logistical solutions, our customised services guarantee optimised time and movement efficiencies.

Compliance: Experts in the regulatory complexities governing the healthcare sector, we position ourselves as an astute partner delivering expert guidance and compliant solutions to our customers. All Daniels solutions are vetted against state and federal regulations and executed through waste plans and training to achieve optimised 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.

