DANIELS PEER REVIEWED PEDIGREE USN151007

Sharpsmart:

Reduce Greenhouse Gas Emissions

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"The 84% reduction of CO2eq emissions with the Daniels Sharpsmart system exceeds the 2020 reduction target for US federal hospitals and the 2050 target for UK NHS hospitals. If Daniels Sharpsmart reusable containers were used nationally in the US, we estimate annual US hospital GWP would fall by 64,000 MTCO2eq." - Authors

What was the study?

The 2 year study, 'Impact on Carbon Footprint: An LCA of Disposable vs Reusable Sharps Containers in a large US Hospital' was conducted in an 850 bed acute care facility.

The study used a lifecycle inventory and a life cycle analysis tool to examine the impact on greenhouse gas emissions (GHG) generated from the supply chain for goods and services, when the hospital replaced disposable sharps containers with Daniels Sharpsmart reusable sharps containers.

What were the results?

The greenhouse gas emissions associated with manufacture, transport, washing, treatment and disposal were assessed over 12 months in both systems. GHG were expressed as metric tons of carbon dioxide equivalent emissions (MTCO2eq).

Results showed that in converting to the Daniels Sharpsmart reusable system, the facility had per annum:

- 84% reduction in GHG associated with sharps container usage
- 127 metric ton reduction in GHG
- 93% reduction in the manufacture of containers
- 99.9% reduction in the number of plastic sharps containers landfilled

- 31% reduction in the number of containers exchanged by staff
- 99.6% reduction in mass of plastic landfilled
 - 98% reduction in weight of cardboard used
- 57% reduction in disposal-related Sharps Injuries

In addition, the cost of sharps container usage and disposal fell by 19%.

What does this mean for you?

This study demonstrates that converting from disposable sharps containers to the Daniels Sharpsmart Reusable system delivers greater sustainability via significant carbon emmission reduction, increases safety and provides cost reduction opportunities.



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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

Compliance: Experts in the regulatory complexities governing the healthcare sector,

Education: Our ongoing commitment to educate staff within healthcare ensures that

