



 **STERINOVA**

**GETTING GREENER**





## INTRO

# The Carbon Footprint of the Healthcare System in Canada

**The healthcare system is one of the worst contributors, responsible for an estimated 4.6% of national greenhouse gas emissions, more than the aviation and maritime sectors combined.**

Sources: Eckelman MJ, Sherman JD, MacNeil AJ. Life Cycle Environmental Emissions and Health Damages from the Canadian Healthcare System: An economic-environmental-epidemiological analysis. PLOS Medicine. 2018 July 31; 15(7).

**According to data reported by the *Synergie Santé Environnement* group, if the healthcare system were a country, it would be the world's fifth largest emitter of greenhouse gases (GHGs).**



Sources: HEALTH CARE'S CLIMATE FOOTPRINT-Health Care Without Harm Climate-smart health care series  
Green Paper Number One





---

# Hospital waste reduction in 3 parts...

---



## **3 PARTS**

- 1. Reducing hospital waste at source.**
- 2. Reducing hospital waste during preparation and administration.**
- 3. Reducing the quantity of drugs destroyed in hospitals: unused magistral preparations, including controlled substance preparations.**

# WASTE REDUCTION



30%

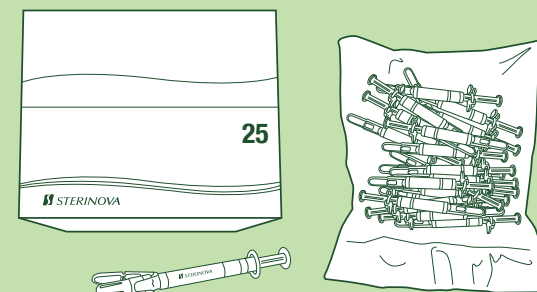
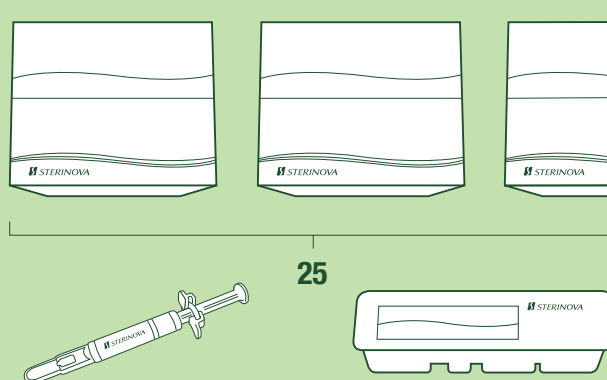
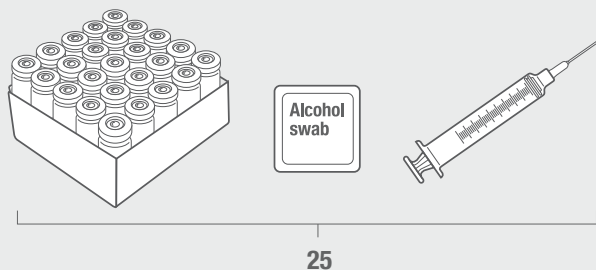
46%

62%

**Heparin 5 000 U  
in 0.5 mL  
25 vials**

**Heparin 5000 U in 0.5 mL  
Blister Format  
25 syringes**

**Heparin 5 000 U in 0.5 mL  
Bulk Format  
25 syringes**



**Total weight after administration 478 g\***

**336 g**

**181 g**

\* Weight of vials, alcohol swab, syringe and needle may vary according to supplier.

**STERINOVA**



851 m

2025

571 m

2024

553 m

CN Tower



In 2025, here is the amount of waste saved by hospitals that chose the bulk format in Canada:

21 270 boxes!

212 700 blisters!

28% of our heparin sales are now in bulk — that is a 11% increase compared to 2024!

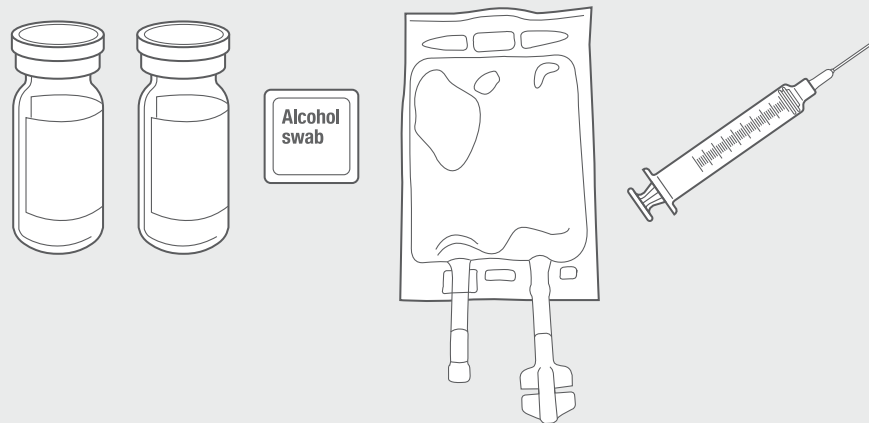
Let us keep the momentum going— **Choose bulk** and help drive change!

STERINOVA

# WASTE REDUCTION → 83%



100 mL bag prepared from  
2 vials of 10 mL IV sedative

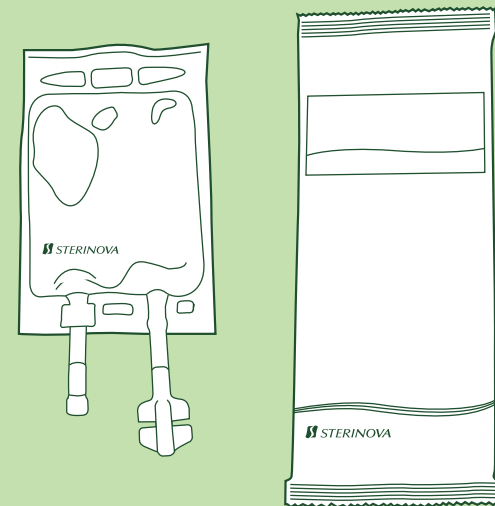


211 g\*

Total weight after administration

36 g

Sterinova 100 mL IV sedative bag




\*Weight of vials, alcohol swab, syringe and needle may vary according to supplier.

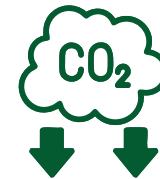
 **STERINOVA**



## CONCLUSION

### Sterinova takes concrete actions and offers solutions to hospitals concerned about their GHG emissions

- 3 ways to reduce waste
- Clinical and economic impact: RTA products were associated with a 94% decrease in medication errors and saved \$2,871,889 annually compared to the traditional vial and syringe method, based on an analysis conducted in hospital inpatient units<sup>1</sup>
- Manufacturing in Montreal (Local & eco-responsible purchasing) Made in Canada 
- Transportation optimization: One shipment per week



1. Arora A, Muehrcke M, Hertig JB. Pain Ther. 2022; 11:937-50. <https://doi.org/10.1007/s40122-022-00402-z>