



Ultra-Low Waste Disposable Safety Syringes for the Pharmaceutical and Healthcare Markets



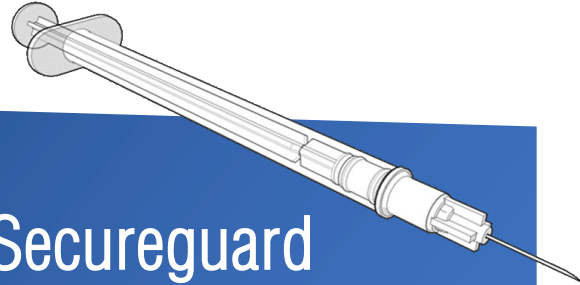
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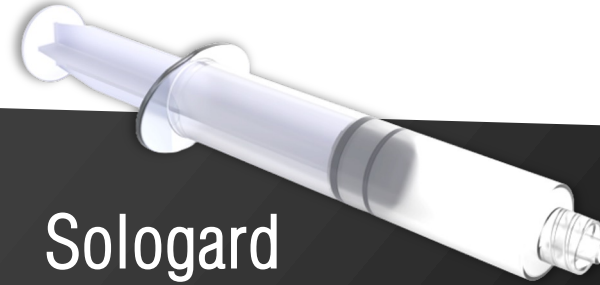
Product Line: Disposable Smart Safety Syringes

Manufactured at Sharps Hungary Facility



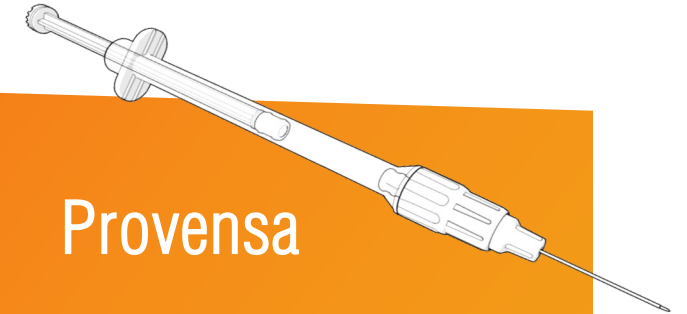
Secureguard

- Ultra Low Waste
- Integrated Active Recessed Safety System
- Re-use Prevention
- FDA approved
- WHO approved
- CE Mark
- EtO sterilized
- Vial Draw Sizes 1mL - 10mL



Sologard

- FDA and WHO approved
- Syringe sizes 1mL - 10 mL
- LuerLock connector allows flexibility to choose cannula
- EtO sterilized
- Compatible with needleless Luer access devices
- Plunger locking feature prevents syringe reuse



Provensa

- Ultra Low Waste
- Integrated Passive PEEK Safety System
- FDA approved
- EtO sterilized
- Vial Draw 0.3mL- 3mL

Sharps Smart Safety Syringes Offer Solutions to Global Healthcare Crises

- The World Health Organization (WHO) announced a potential **shortage of more than two billion syringes** related to global need, beginning in 2022. This shortage could impact routine immunizations and undermine needle safety. Manufacturers are needed to make more single-use disposable syringes.
- Sharps Technology offers solutions for U.S. and global healthcare by offering safety syringes that comply with WHO's requirements for both needlestick injury and syringe reuse prevention, while also reducing the amount of medicine wasted by inefficient syringe systems.



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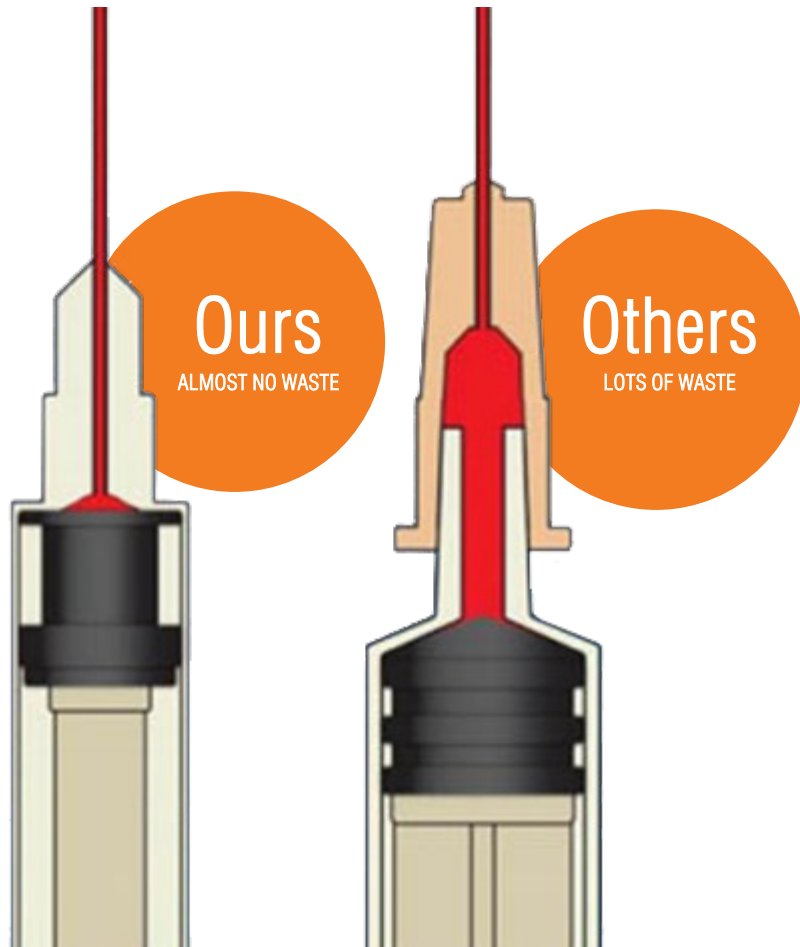
“When you think about the magnitude of the number of injections being given to respond to the pandemic, this is not a place where we can afford shortcuts, shortages or anything short of full safety for patients and healthcare staff.”

Lisa Hedman

Senior Advisor, World Health Organization

Vial Over-filling

Why is it a **BIG** Problem?



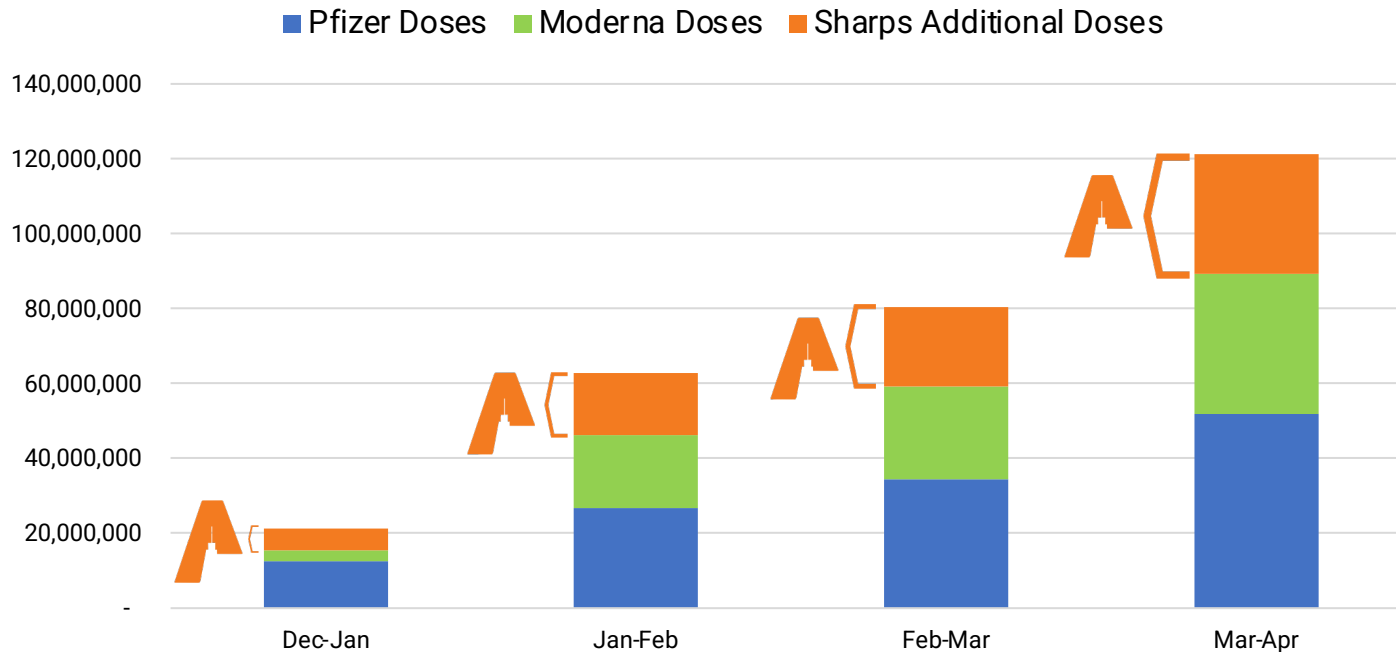
- Pharmaceutical companies must overfill their vials or prefilled syringes to compensate for syringe dead space.
- Dead space is the amount of medicine that doesn't get injected and is thrown away with the used syringe.
- Depending on the dose and the syringe dead space, the pharma company may have to overfill with twice the amount needed for the patient. This leads to decreased availability and higher cost of vital vaccines and medicines.
- Reducing dead space increases the number of doses that can be given to people.
- Hard to manufacture drugs can be made available to patients more quickly.

Advantage of Ultra Low Waste Syringes

Less waste means more available doses



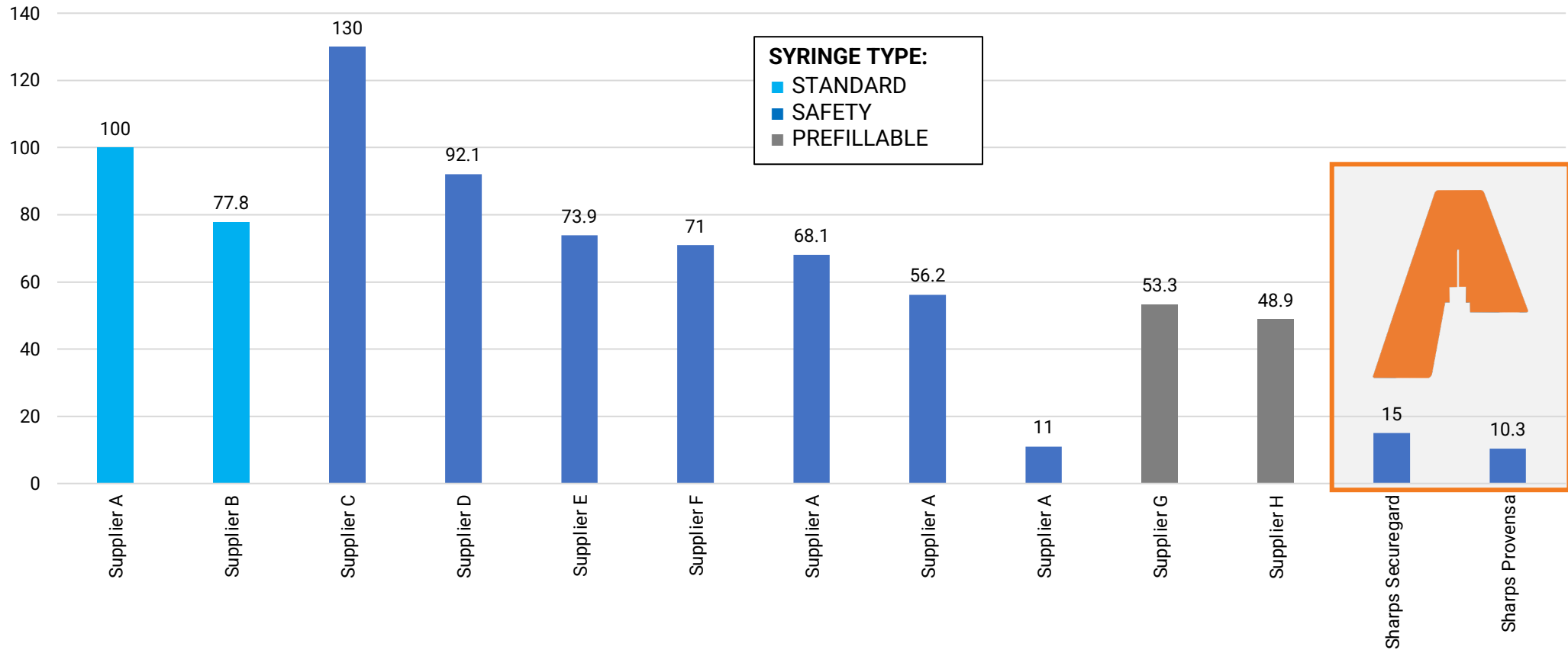
Pfizer-Moderna Doses Delivered in US: 12/14/2020 - 4/13 2021
Showing Additional Availability with 7-dose/13-dose
Sharps Ultra-Low Waste Syringe



Data source: CDC - COVID Data Tracker
covid.cdc.gov

- 75+ MM additional injections were possible with Sharps Technology products, using the same vial and level of vaccine production
- 332+ MM people in the US in 2021
- 22%+ additional treatments using the Sharps Ultra-Low Waste Technology

Average Waste/Dead Space (μL) for Sharps Syringes vs. Other Branded Syringes



Source: Whitehouse Labs/AMRI, Whitehouse, NJ