Reducing Waste in our Practice

How we can safely reduce single-use items to help the planet?

Why is it a concern?

The healthcare sector is responsible for a large contribution to society's growing waste problem. 85% of this is non-hazardous waste that we can try to reduce!

30%

of healthcare waste is plastic, which never decomposes



The value of disposables?

Modern healthcare has seen a major shift towards singleuse disposables, but without evidence-based justification. Often, there are safe, reusable alternatives.

Strategies to Reduce Waste



Consider reusable gowns

Evidence has shown that reusable gowns outperform their disposable alternatives.



Switch to metal speculums

Metal speculums have a smaller environmental impact without compromising clinical utility

Focus on hand hygiene over gloves

Non-sterile gloves are a major source of healthcare waste, but can in many cases be replaced by good hand hygiene. When you purchase gloves, aim for nitrile over the more harmful PVC.





Reduce paper waste

Only use exam table paper when a patient is disrobed or requests it to be used. There is currently no evidence showing that exam table paper is beneficial when compared to standard cleaning procedures.

References

Donahue, L. M., Hilton, S., Bell, S. G., Williams, B. C., & Keoleian, G. A. (2020). A comparative carbon footprint analysis of disposable and reusable vaginal specula. American Journal of Obstetrics and Gynecology, 223(2), 225.e1-225.e7. https://doi.org/10.1016/j.ajog.2020.02.007

Gamba, A., Napierska, D., Zotinca, A. (2021) Measuring and Reducing Plastics in the healthcare sector. Healthcare Without Harm. https://noharm- $\underline{europe.org/sites/default/files/documents-files/6886/2021-09-23-measuring-and-reducing-plastics-in-the-healthcare-sector.pdf$

Jędruchniewicz, K., Ok, Y. S., & Oleszczuk, P. (2021). COVID-19 discarded disposable gloves as a source and a vector of pollutants in the environment.

Journal of Hazardous Materials, 417, 125938. https://doi.org/10.1016/j.jhazmat.2021.125938 MacNeill, A. J., Hopf, H., Khanuja, A., Alizamir, S., Bilec, M., Eckelman, M. J., Hernandez, L., McGain, F., Simonsen, K., Thiel, C., Young, S., Lagasse, R., & Sherman, J. D. (2020). Transforming The Medical Device Industry: Road Map To A Circular Economy: Study examines a medical device industry

transformation. Health Affairs, 39(12), 2088-2097. https://doi.org/10.1377/hlthaff.2020.01118 McQuerry, M., Easter, E., & Cao, A. (2021). Disposable versus reusable medical gowns: A performance comparison. American Journal of Infection Control,

49(5), 563-570. https://doi.org/10.1016/j.ajic.2020.10.013 Rizan, C., Mortimer, F., Stancliffe, R., & Bhutta, M. F. (2020). Plastics in healthcare: Time for a re-evaluation. Journal of the Royal Society of Medicine,

113(2), 49-53. https://doi.org/10.1177/0141076819890554 Strasser, B. J., & Schlich, T. (2020). A history of the medical mask and the rise of throwaway culture. The Lancet, 396(10243), 19–20.

https://doi.org/10.1016/S0140-6736(20)31207-1 Thompson, R., Moore, C., vom Saal, F., & Swan, S. (2009). Plastics, the environment and human health: current consensus and future trends. Philos Trans

R Soc Lond B Biol Sci, 364, 2153-2166. doi: 10.1098/rstb.2009.0053. PMID: 19528062; PMCID: PMC2873021. World Health Organization (2018). Health Care Waste. https://www.who.int/news-room/fact-sheets/detail/health-care-waste.