

CircDx

Allowing for high-quality diagnostic test kit components to be kept in circulation longer

25%

Of the global health sector's GHG emissions originate from the U.S. healthcare system¹

8.5%

Of all U.S. emissions are generated by the healthcare sector²

40M

The number of Canada's COVID-19 test kits that recently expired and had to be tossed³

650⁺

The number of hospitals that committed to the White House's Health Sector Climate Pledge⁴

Tens of billions of plastic tests, each one responsible for 400+ years⁵ in landfill and collectively ~420M⁶ metric tons CO₂ emissions

1: MacNeill, A.J., et al. (2020). Transforming the Medical Device Industry: Road Map to a Circular Economy

2, 4: The United States Government. (2022, June 29). Fact sheet: health sector leaders join Biden Administration's pledge to reduce greenhouse gas emissions 50% by 2030.

3: Lee, J. (2023, November 7). Nearly 40 million rapid COVID tests unused in Alberta as expiry dates loom. CBC.

5: Parker, L. (2018). A whopping 91 percent of plastic isn't recycled. National Geographic.

6: The carbon footprint of plastic (LDPE or PET, polyethylene) is about 6 kg CO₂ per kg of plastic; 14kg*6kg=84kg, assumed 2B tests; Rohrer, J. (2022, January 9). Plastic bags and plastic bottles - CO₂ emissions during their lifetime - Time for Change. Do COVID Self-Tests have a sustainable product design. (2024, January 19). Delve. <https://www.delve.com/insights/covid-19-at-home-tests-a-game-changer-but-at-what-cost>