

Water, Solid Waste, and Supplies: One Year Inside a Dialysis Unit in an Underdeveloped Region



City of Teresina
Piauí, Brazil



Single hybrid-funded
hemodialysis center



Average of 234 patients,
over the last 12 months



Over 1 year:



Water consumption:

10,325,000 liters

(two Olympic-sized swimming pools)

Solid waste generated:

6.6 tons

57,258 needles

2,668 kit lines

2,752 filters



Each patient annually contributed to:



44,070 liters

water consumption



28.53 kg

solid waste

Conclusion: This study reinforces the growing concern regarding hemodialysis services, emphasizing not only the benefits for patients but also the considerable adverse impacts on the environment.

Ginivaldo Nascimento et al, 2024

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