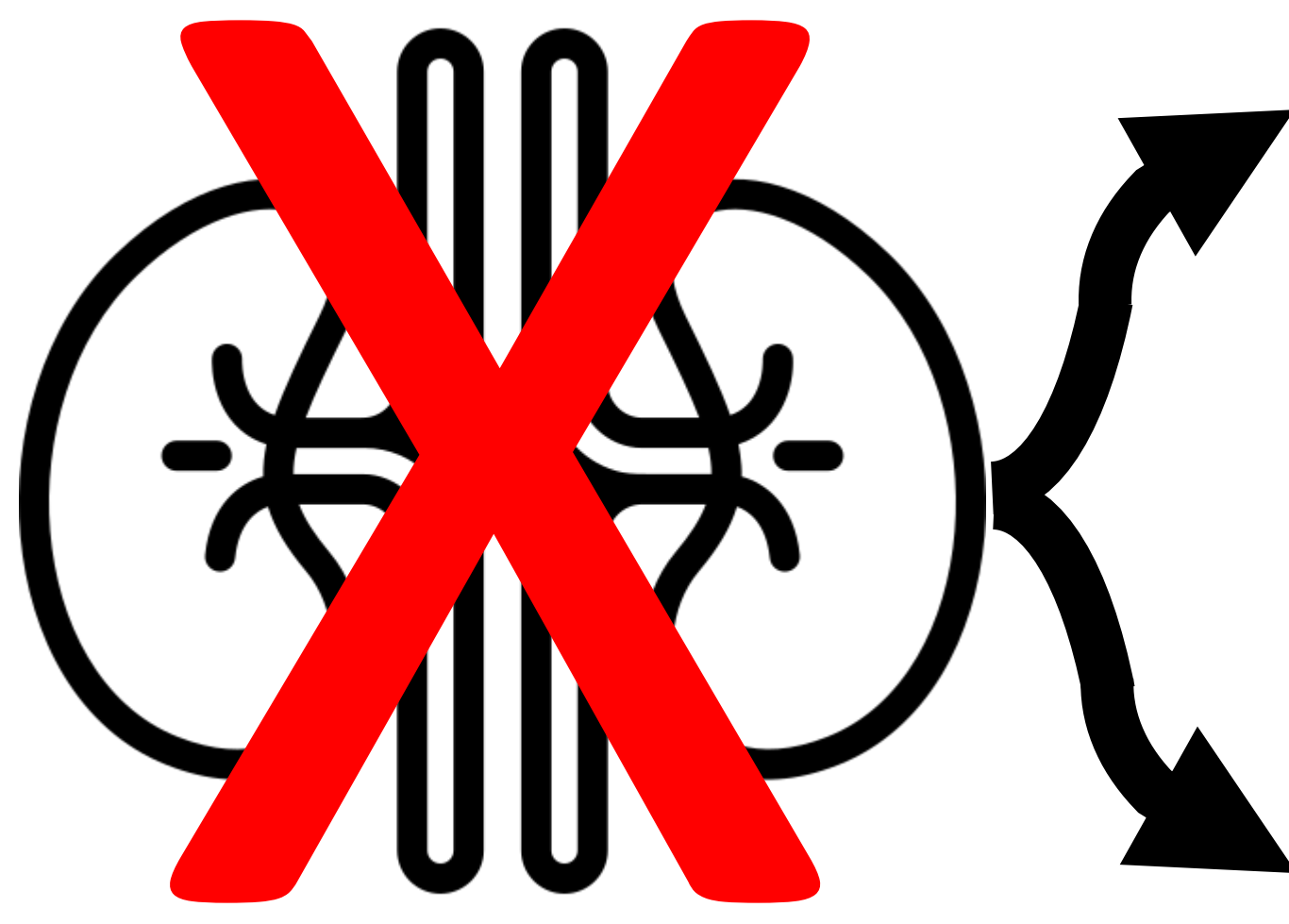


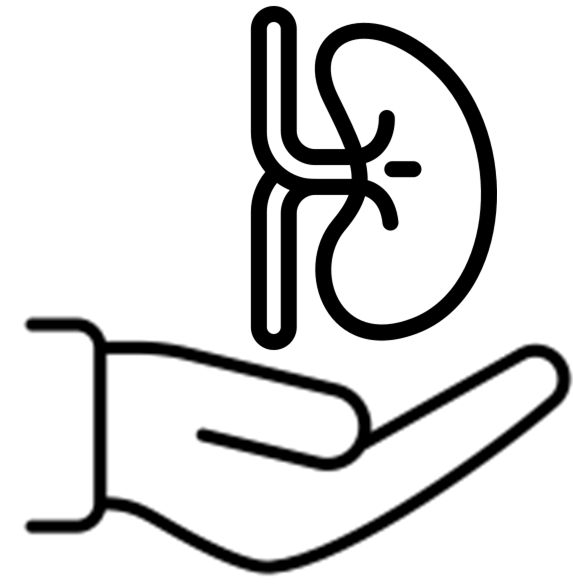
The world urgently needs *drastically* better **Kidney Replacement Therapies!**

Kidney Failure: Present therapies are inadequate!



Kidney Failure is also known as: End Stage Kidney Disease
No KRT? You Die!

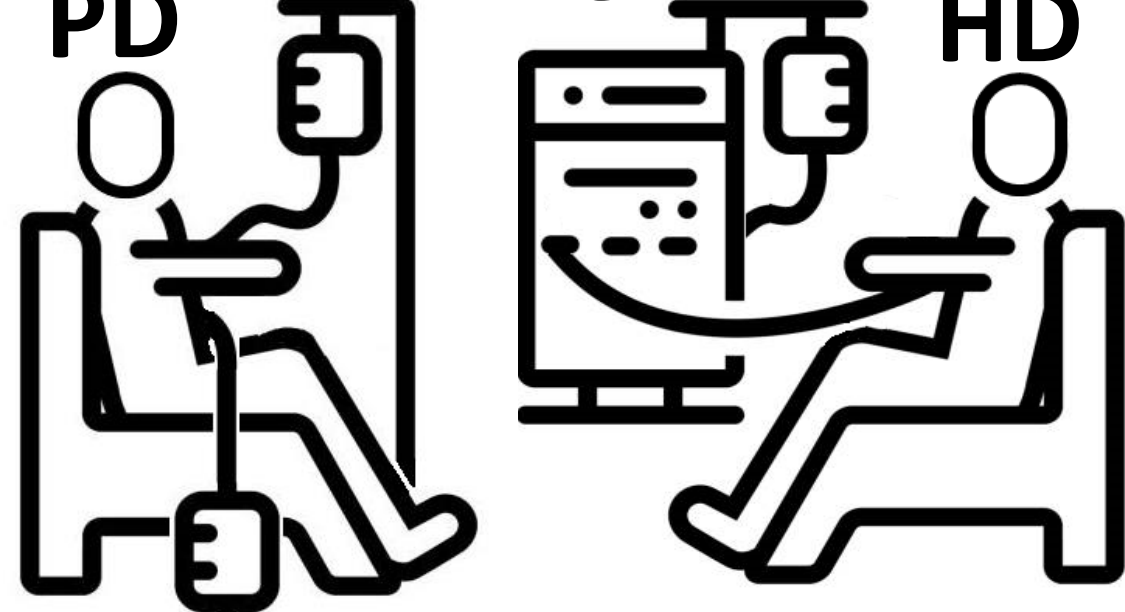
Transplantation



Best & cheapest available KRT option, **but:**

- Structural Shortage of Transplant Kidneys
- Immune suppression drugs prevent transplant rejection but also increase Risk of Cancer & Infections
- 25% of patients are medically unfit for transplantation
- Up to 25% shorter remaining Life Expectancy

Dialysis

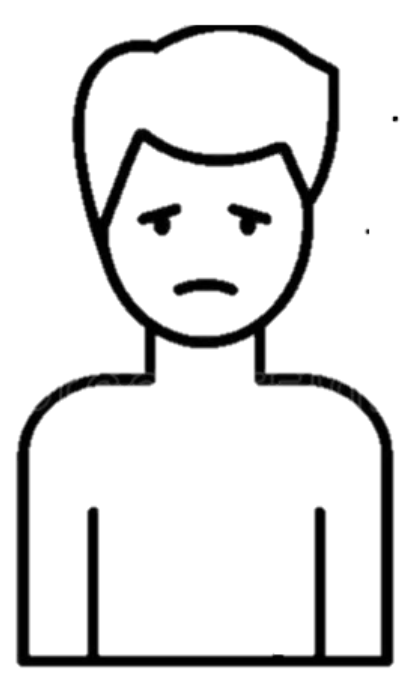


Most widely used available KRT option, **but:**

- Substitutes max 10-15% of kidney filtration function
- Does not substitute all other kidney functions
- Significantly lower Quality of Life than Transplantation
- More Expensive & Resource-heavy than Transplantation
- Up to 70% shorter remaining Life Expectancy

Dialysis is associated with...

Low Quality of Life



Health-related Quality of Life for dialysis patients is

↓ 27% – 49%

worse than for the general population

High Cost to Society

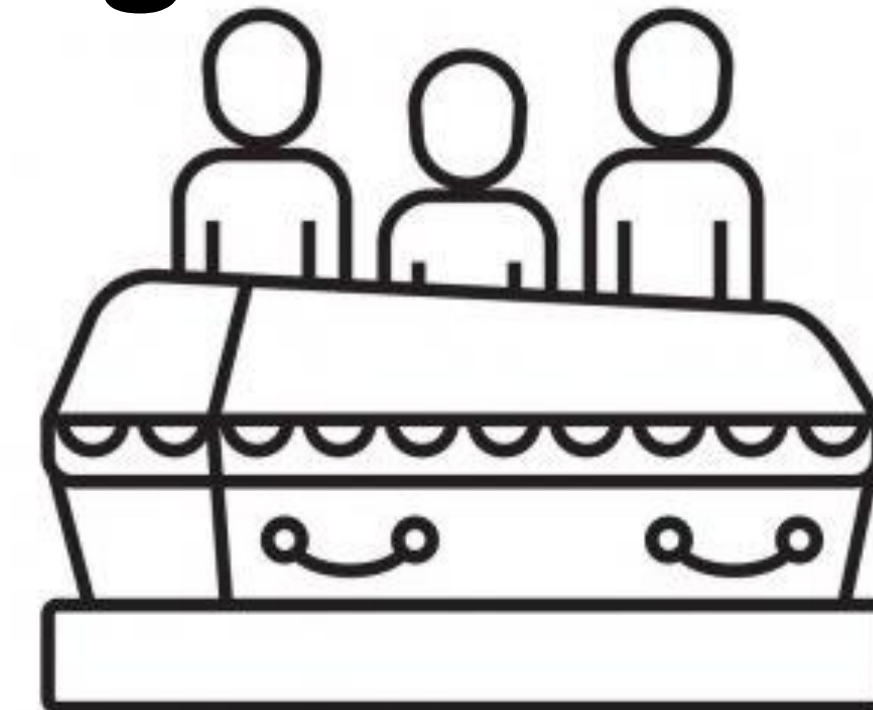


Dialysis is resource-heavy, costing up to

€80,000 or \$89,000

per patient per year, depending on the country and dialysis method

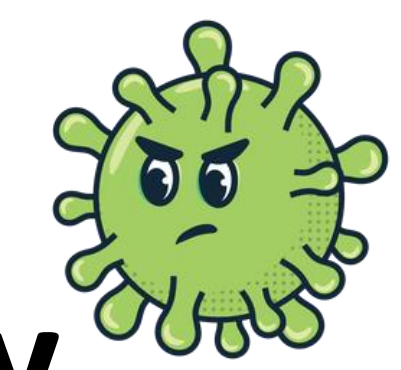
High Mortality



Annual death risk of dialysis patients is

10 – 100x

higher than in general population



Covid-19 makes it even **worse!**

5-year survival on dialysis is

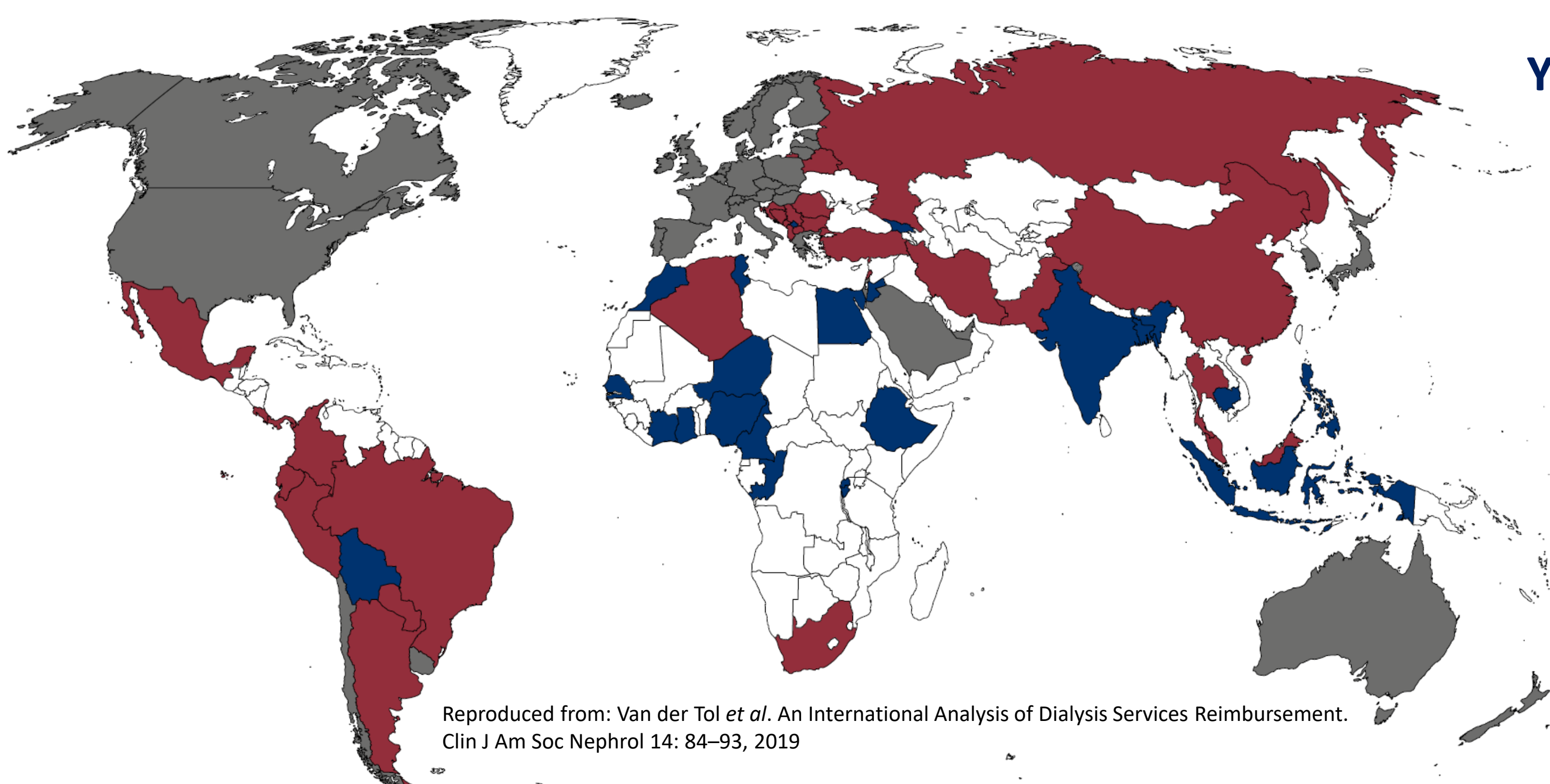
lower

than for most cancer treatments

3/4

of patients die without KRT access

World-Wide Costs Keep Rising Unsustainably!

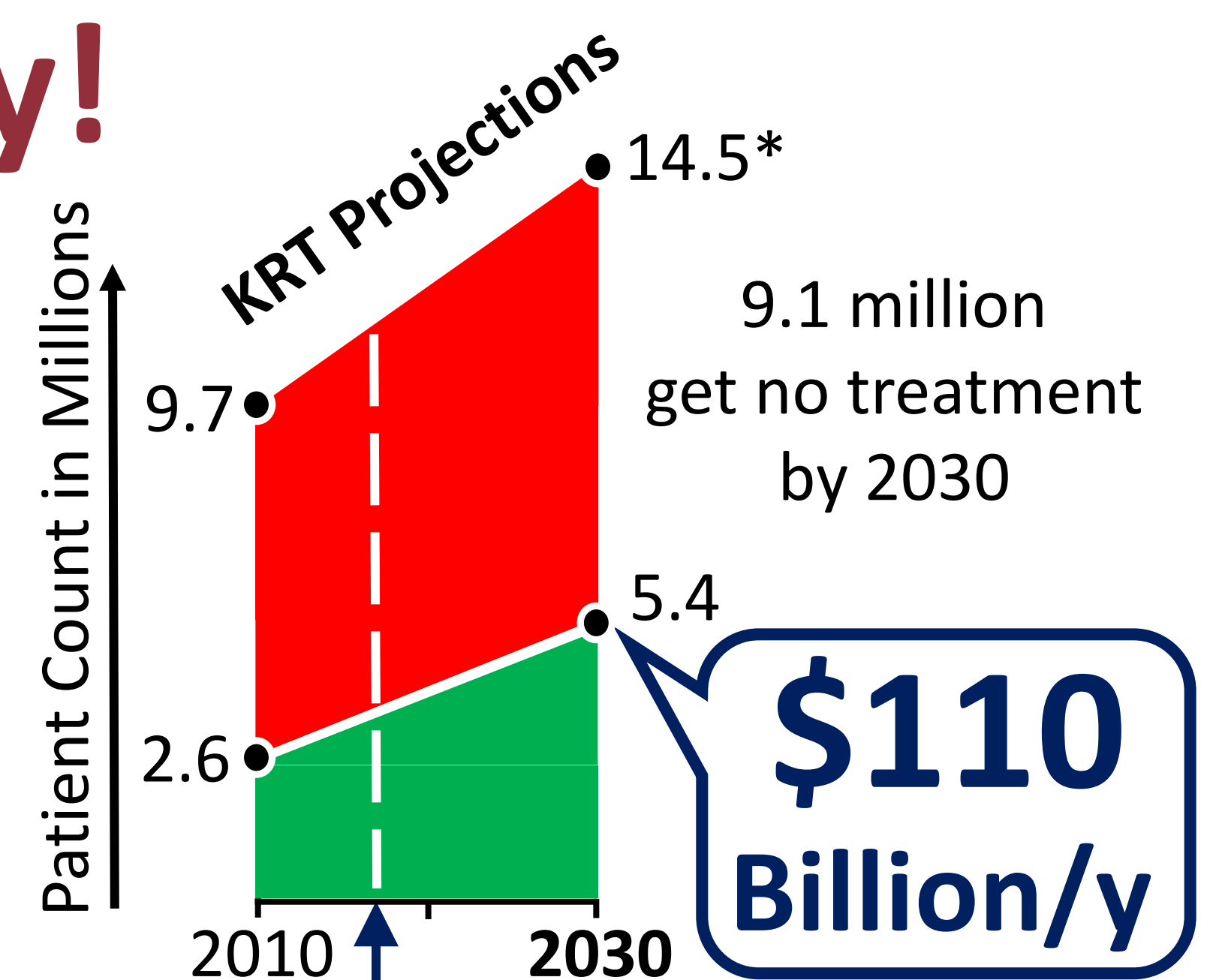


Yearly Dialysis Cost & Country Wealth

- \$ 1.7 Bn/y, low/lower income
- \$ 9.7 Bn/y, upper-middle income
- \$45.7 Bn/y, high income countries

\$57.1 Billion/y spent in 2016

(note: excl. transplants & AKI)



\$110 Billion/y

- Patients with access to KRT
- Those dying without access to KRT

* Himmelfarb J, *et al.* The current and future landscape of dialysis. Nature Reviews Nephrology (2020) Oct;16(10):573-585. doi: 10.1038/s41581-020-0315-4

Bundle the Best Brains to Build Better Treatments!



Patients

Doctors

Policy makers

Inventors & Investors

Engineers

Entrepreneurs

