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Increasing PD Utilization

A Global Perspective

23rd Asian Pacific Congress of Nephrology
December 5, 2025

UNIVERSITY *of* WASHINGTON



Hundred Years of PD

50 years of CAPD



1923

First attempt at PD in humans (Georg Ganter, Germany)

Post-partum AKI, improved chemistry, pt sent home and died

1938

First patient AKI treated with PD that lived (Wear, Sisk, Tinkle in WI, USA)

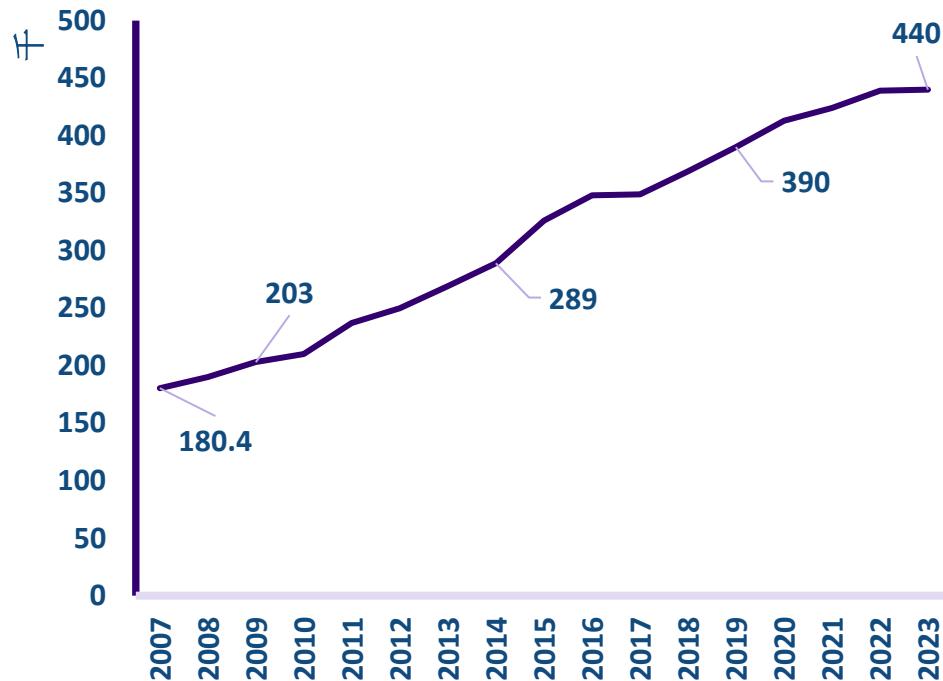
AKI from obstructive uropathy, maintained on PD until obstruction resolved

1975

First successful application of CAPD to treat patient with kidney failure (Popovich and Moncrief in Austin, TX)

Exhausted vascular access; Popovich trained with Scribner in Seattle, used applied physics to craft the first CAPD Rx

Millions of Lives Saved with PD



In the last 10 years, > 50% increase in no. of patients treated with PD worldwide

- Increased access to dialysis itself
- Increased access to PD
- Longer time on PD
- Lower mortality

Rapid growth in three countries, in part driven by public policy

- China, United States, Thailand

Why Equity in PD Access?

Consider the lived experience of patients with kidney failure

High burden of disease

- Often with several co-existing illnesses
- High hospitalization rate and frequent readmissions
- Numerous dietary restrictions or expectations

- Very high pill burden
- High symptom burden

Why Equity in PD Access?

Consider the lived experience of patients with kidney failure

High burden of disease

High burden of treatment

- Different but high with every dialysis modality
- Each modality has its own complications – post-dialysis fatigue or hypotension with HD, abd. symptoms or peritonitis with PD

Treatment of no chronic disease requires as much adjustment to patients' lifestyle for as long a time

Why Equity in PD Access?

Consider the lived experience of patients with kidney failure

High burden of disease

High burden of treatment

Dialysis modality has a profound effect on the lived experience of patients

Who can do PD?

ANYONE who WANTS to do it

Few medical contra-indications

For equity in access to PD:
Dialysis units have to fit therapy to patient,
rather than asking patient to fit to therapy

Modality choice should belong to the patient, resources permitting



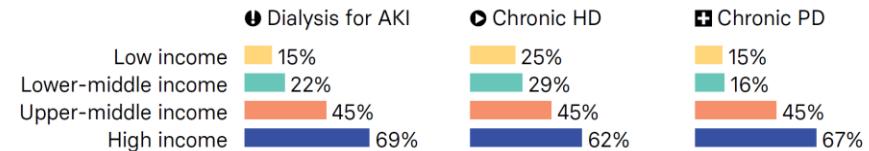
Equity in PD Access

Resource-Limited Restriction to Dialysis Care

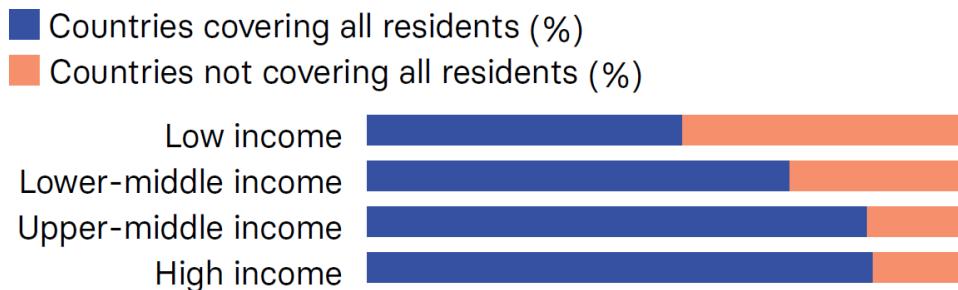
Universal Access to Dialysis Care

Inequities in access to PD

- By far, the most important barrier is affordability of care:
Dialysis care is expensive!
- PD is publicly funded and free at point of care in only 42% of countries (HD, 45%)
Varies by world region and country's income



Not All Residents are Covered



Any dialysis care – HD or PD

It is estimated that nearly 2 million people with kidney failure die every year due to limited access to KRT care

Put in context: every year, more people die of kidney failure than start dialysis care

We need to leverage PD to cover this continued global gap in access to care

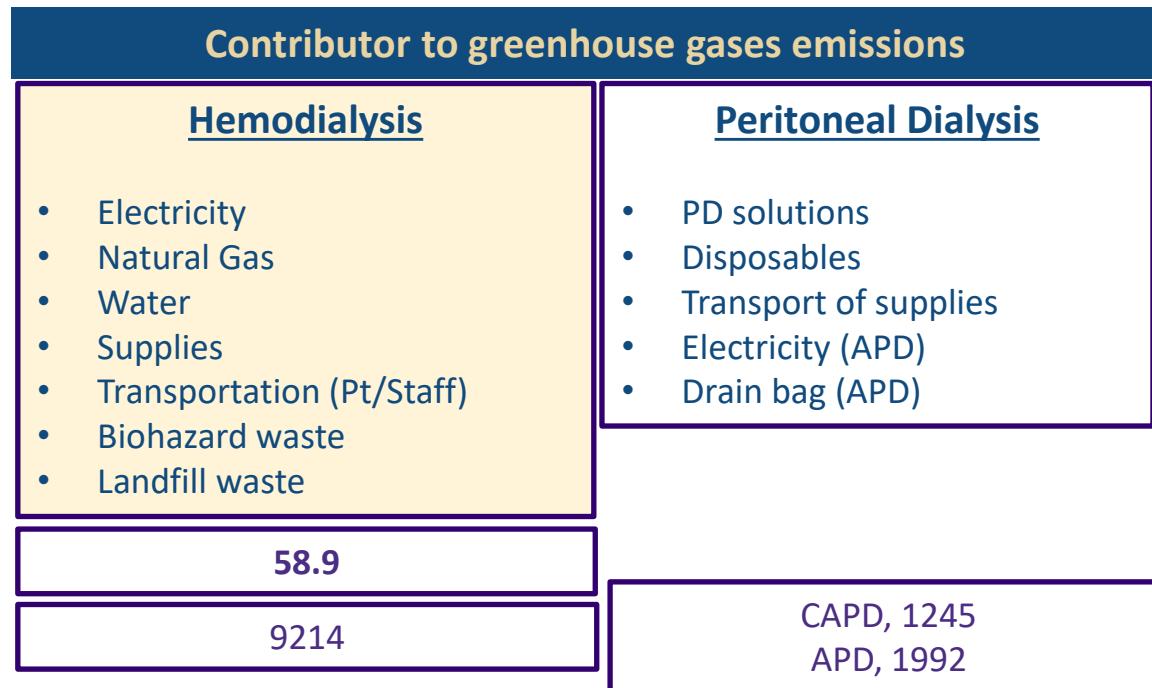
Yet many inequities remain

- > People in much of the world don't have access to lifesaving dialysis care, particularly PD
 - Especially dialysis care that is (1) publicly funded; (2) equally available to all residents: and (3) free at point of care
 - When nations and communities expand access to dialysis, leading with PD offers many advantages (PD First or PD Preferred)

Lead with PD

- > HD is personnel intensive, PD is personnel efficient:
 - For any given population, fewer people need to be trained
 - Faster to stand up and create access
- > Allows for a lower density of dialysis units
 - Fewer dialysis units can treat more patients
 - Substantially reduces transportation burden on patients
- > Much smaller carbon footprint

PD: smaller carbon footprint



Cost considerations PD vs HD

Hemodialysis

Manpower

Peritoneal Dialysis

Supplies

Relative costs of manpower and supplies
determines which therapy is cheaper

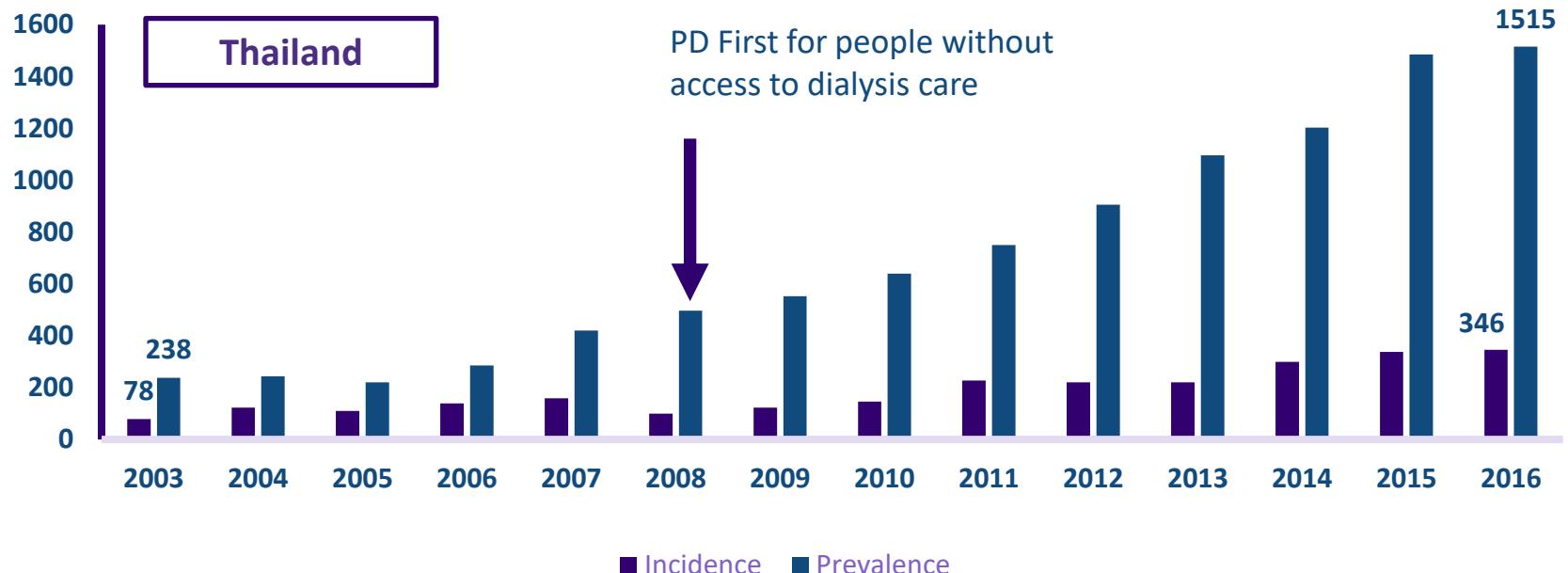
- Local manufacture of PD solutions by multinational and/or local manufacturers
- Governmental procurement and distribution of PD solutions
- Cost-effectiveness of in-home production of dialysate?

Global trends and dialysis care

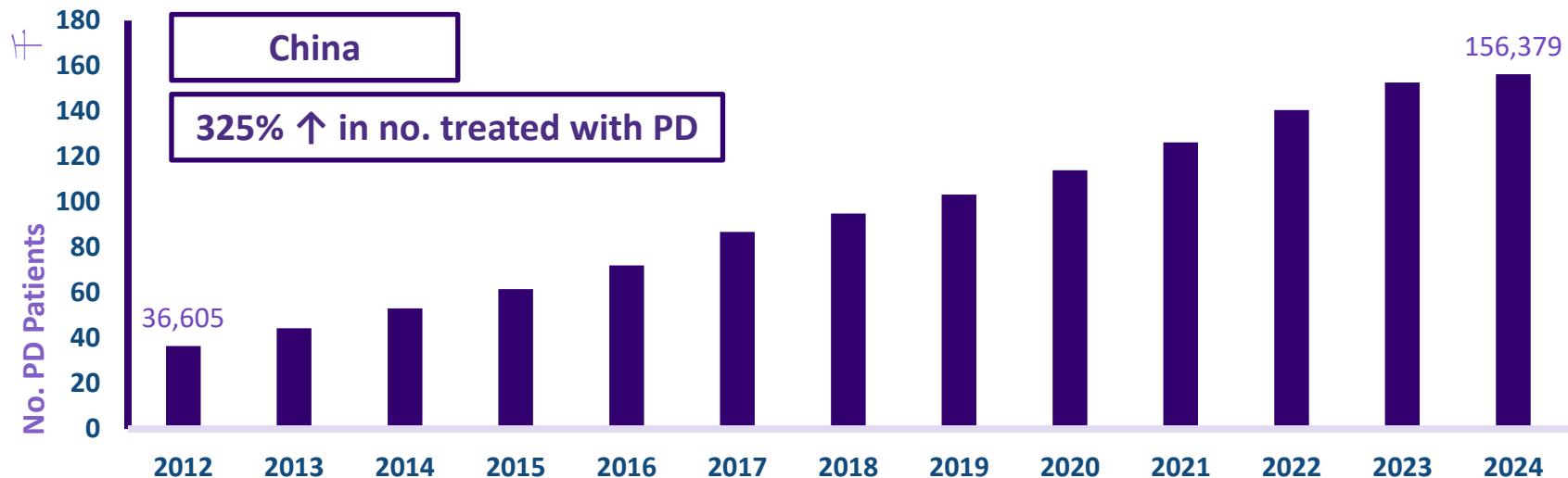


- > As communities and societies get prosperous and expand access to dialysis, PD offers many advantages:
 - Simpler, fewer trained personnel, fewer dialysis units to be stood up
 - Smaller carbon footprint
- > Whether PD is cheaper or more expensive in a society, depends upon labor costs:
 - As labor costs increase in a society, PD becomes cheaper relative to HD

PD-led closure of coverage gap



PD Part Of Expanding Access



Equity in PD Access

Resource-Limited Restriction to Dialysis Care

Universal Access to Dialysis Care

Use of PD varies between countries – this likely does NOT reflect choice made by patients

Within countries, PD use varies from:

- One center to another and
- Between demographic groups and regions

Modality choice BELONGS to patient, not physicians or health systems

Promoting Equity in PD Access

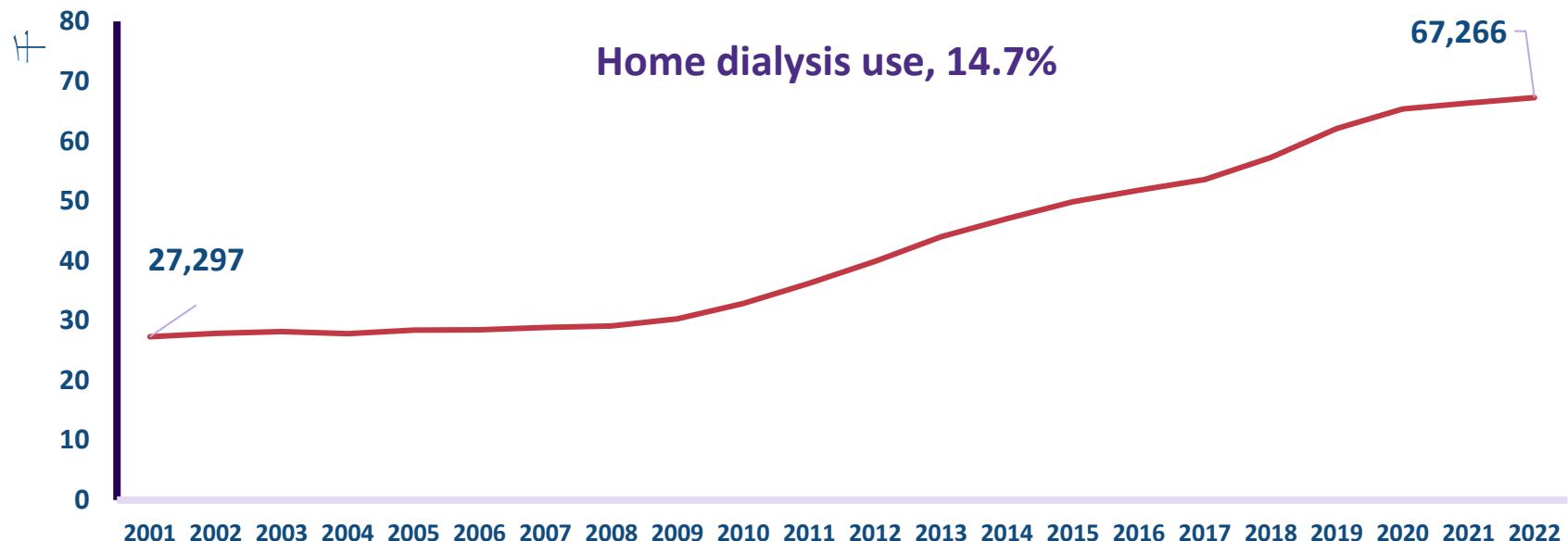
Amplify patient voice

- Healthcare providers
- Funders of dialysis care (usually govt)

Influence public policy

- Align financial incentives to enhance person-centered care:
 - Eliminate financial incentives for payments to physicians
 - Increase financial incentives to support home-based care

PPS Catalyzed PD Use



Promoting Equity in PD Access

- > There are large segments of the world without access to dialysis care:
 - Expanding PD care is an effective way to close coverage gap for KRT
- > There is large variability in use of PD where dialysis care is otherwise accessible:
 - It is the patient's right to have the choice in dialysis modality and
 - Public policy can be a useful lever to align incentives to make care more person-centered

30 September – 3 October 2026

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