

# Prevalence of kidney failure treatment is skyrocketing worldwide

November 7 2013

---

The prevalence of dialysis therapy for kidney failure is increasing much faster than population growth in most parts of the world, according to a new study. The findings, which will be presented at ASN Kidney Week 2013 November 5-10 at the Georgia World Congress Center in Atlanta, GA, highlight the importance of early detection and treatment of kidney disease.

Various [chronic diseases](#) have detrimental effects on the kidneys. Rapidly rising global rates of chronic diseases portend a consequent rise in [kidney failure](#)—or end stage renal disease (ESRD)—but the change in global burden of treated ESRD has never before been quantified.

To accurately report the trajectory of treated ESRD rates at the global and regional level between 1990 and 2010, Bernadette Thomas, MD (University of Washington, in Seattle) and her colleagues examined data from the Global Burden of Disease database, the largest existing database for global causes of illness and death. They also analyzed data from national and regional ESRD registries and performed a literature review of studies from 1990 and 2010. Data from 26 countries that lack routine access to dialysis were excluded. Data from 23 countries providing 100% dialysis access and 138 countries providing partial dialysis access were included.

Among the major findings:

- Worldwide, there has been a 165% increase in dialysis treatments

for ESRD over the past two decades.

- The global prevalence of ESRD treatment with dialysis for countries with universal dialysis access increased by 134% after adjusting for population growth and aging (145% in women vs 123% in men).
- For countries whose populations lack universal dialysis access, adjusted prevalence increased by 102% (116% for women vs 90% for men).
- The five world regions not experiencing a substantial increase in dialysis prevalence include Oceania, South Asia, central sub-Saharan Africa, Eastern Europe, and tropical Latin America.

The findings indicate that the significant growth in dialysis therapy is strikingly out of proportion to [population growth](#) for a majority of regions in the world. "This emphasizes the need for early chronic [kidney disease](#) detection and treatment targeting ESRD prevention, since continued rise in prevalence of maintenance [dialysis](#) may not be sustainable," the investigators wrote.

**More information:** Study: "The Rapidly Growing Global Burden of End-Stage Renal Disease – An Analysis of the Change in Maintenance Dialysis Prevalence between 1990 and 2010" (Abstract 4163)

Provided by American Society of Nephrology

Citation: Prevalence of kidney failure treatment is skyrocketing worldwide (2013, November 7) retrieved 24 April 2024 from

<https://medicalxpress.com/news/2013-11-prevalence-kidney-failure-treatment-skyrocketing.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.