

Kidney Health for All: Caring for People, Protecting the Planet

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The current kidney care model—focused on late-stage disease and in-center hemodialysis—is unsustainable, because of costs, environmental burden, poor outcomes, and reduced quality of life. The 78th World Health Assembly's recognition of kidney disease as a serious health threat presents a critical opportunity to reshape kidney care. Aligned with this, the 2026 World Kidney Day theme, "Kidney Health for All: Caring for People, Protecting the Planet," calls for a systematic change. A sustainable model must prioritize early detection and prevention, reducing the need for kidney replacement therapy. Transplantation and home dialysis benefit people with kidney failure, environment, and society. Dialysis itself must become more ecofriendly without compromising care quality, recognizing that planetary perturbations in turn affect kidney health. Conservative care should also be considered, particularly for elderly and frail patients, if the quality-of-life benefits outweigh the perspectives offered by dialysis. Achieving this shift requires coordinated action across all stakeholders; education and engagement of the public, policy makers, and health professionals to raise awareness about the threat of kidney disease; and an urgent move toward patient-centered care.

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INTRODUCTION

Chronic kidney disease (CKD) is¹ of the most common noncommunicable diseases globally,^{1,2} linked to significant comorbidities, particularly cardiovascular disease; premature mortality; societal costs; reduced productivity;

and a considerable environmental footprint.³ CKD disproportionately affects disadvantaged



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populations and minority groups.⁴ Advanced CKD causes distressing symptoms, social isolation, and, in children, growth and development delays. Despite its wide-ranging impact, CKD remains underrecognized as a global health threat. Recently, CKD’s profile was raised by the World Health Organization Resolution on Kidney Health, approved at the 78th World Health Assembly.⁵ The Resolution urges governments to integrate prevention, early detection, and management of kidney disease into national noncommunicable disease strategies, and to expand access to equitable, sustainable, high-quality kidney including dialysis, care, progressively transplantation, and conservative care within universal health coverage. In addition, World Kidney Day (WKD) was acknowledged as key for raising public awareness and promoting kidney health. Sponsored and championed by Guatemala, the Resolution marked a pivotal step in establishing kidney disease as a global health priority. Guatemala’s leadership was pivotal in mobilizing broad support, particularly from those countries most affected by the growing burden of

CKD and care access inequities. It also recognized the strong influence of environmental factors on kidney health, high lighting the disproportionate impact of climate change on developing countries and small island States, as emphasized in the 77th WHA Resolution (see below). These milestones form the policy foundation for the 2026 WKD theme, “Kidney Health for All: Caring for People, Protecting the Planet,” which underscores the need to safe guard kidney health, to address the environmental effect on kidney health but also of kidney care on the environment, and to pivot health care models from a focus on late-stage treatment to early risk reduction and detection (Figure 1). This editorial calls for urgent, integrated action across early detection, prevention, equitable care, and environmental stewardship to advance both kidney and planetary health (Table 1),⁶ underscoring the need for a more sustainable kidney care model with prevention and eco-friendliness as 2 main pillars (Figures 1 and 2),⁶ to which all other attention points are linked. We offer a general outline of measures that can be taken by communities and governments, although it is merely impossible

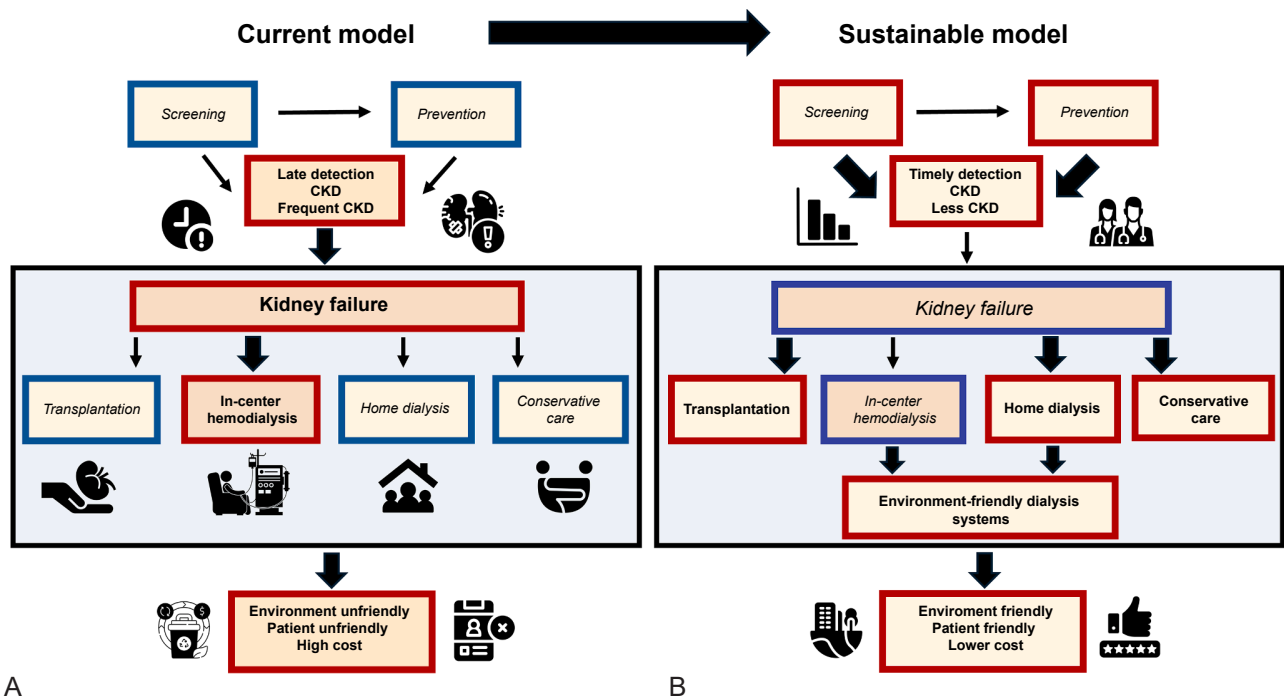


Figure 1. A) Current model of kidney care. B) Sustainable model of kidney care. Elements that are less or insufficiently prominent in that specific model are in italics with a blue frame; elements that are prominent in a specific model are in bold with a red frame. Yellow background indicates if beneficial for sustainability, and orange background indicates disadvantageous. Light blue-shaded box with black frame is used for kidney replacement therapy. The thickness of the arrows indicates the degree of impact on the following element. CKD, chronic kidney disease; home dialysis, peritoneal dialysis and/or home hemodialysis.

Different actions to make kidney care sustainable, according to the topic and target

Topic	Target population	Action
Prevention	People with diabetes	- Timely diagnosis - Adequate treatment
	People with hypertension	- Timely diagnosis - Adequate treatment
	Lifestyle errors jeopardizing kidney function	- Promote healthy lifestyle and offer advice for correction (e.g., no smoking, sedentarism, nutrition errors, and alcohol consumption) - Limit exposure to nephrotoxins - Health-promoting taxation (e.g., salt, sugar, or fat taxes) - Education campaigns
	Unfavorable living conditions; difficulties to reach quality care	- Correct living conditions (e.g., social measures to reduce insufficient cooling of buildings, food insecurity, and poverty) - Correction of inequities (e.g., ethnic/gender disparities [gender refers to social or cultural rather than biological identity], health illiteracy, discrimination, and disadvantages of remote areas)
Early detection	People with risk factors of CKD General population aged > 45 yr	- Urine testing - Albuminuria testing - Screea/eGFR - Screening for CKD risk factors (mainly hypertension, diabetes, cardiovascular disease, and obesity) - Education of public and caregivers - Ensure that appropriate therapy reaches all valid candidates
Environmental kidney threats	Global warming	- Urgent: decrease GHG emission - Adapt working conditions (adapt hydration and protection against pollution and nephrotoxins) - Adapt living conditions (building cooling and greenery)
	Floods, hurricanes, and typhoons	- Urgent: decrease GHG emission - Prevent floods - Avoid diseases propagated by floods (e.g., malaria and dengue) - Ensure safe water storage - Forestall water contamination risks in flood-prone areas
	Fine particulate matter pollution	- Decrease and prevent generation of fine particulate matter (industry, transport, and forest fires) - Minimize pollution and particulate matter release
Transplantation	Promotion of organ donation	- Provide clear guidelines on organ donation and transplantation - Act against donor and recipient exclusion based on questionable criteria - Stimulate application of all donor types (deceased, living, and after cardiac death) - Promote preemptive transplantation - Technical and institutional support on organization transplantation programs in areas with poor transplantation rates - Guidelines on how to react to paid donation - Education, press campaigns, and social media campaigns
	Promotion of organ transplantation	- Provide clear guidelines on organization of organ donation and transplantation programs - Technical and institutional support for organization transplantation programs - Education - Press and social media campaigns
	Declining graft function over time, post- transplantation complications	- Research and innovation to improve graft longevity (e.g., organ preservation, immunosuppression, and antifibrosis approaches)
Dialysis	Ecofriendly dialysis ^a	- Transparency about manufacturing and transport emissions - Spent dialysate and RO reject recycling - Decrease manufacturing and transport emissions - Register and diminish emissions at unit level - Recycling material - Decrease water wastage - Waste triage - Peritoneal dialysis - Home hemodialysis
	Simpler and more compact dialysis systems	- Peritoneal dialysis - Research and innovation

Table continued

Topic	Target population	Action
Comprehensive conservative care	Preserve quality of life, particularly in frail and elderly patients	<ul style="list-style-type: none"> - Discuss possibility of conservative care with patients - Shared decision-making - Awareness creation among candidates for KRT and health professionals
Patient empowerment	All people with CKD	<ul style="list-style-type: none"> - Promote correct and appropriate information delivery to all KRT candidates - Shared decision-making - Facilitate patient-friendly units and hospitals - Nurse involvement in patient contacts - Kidney care discussion groups - Patient involvement in research and registries - Patient training in communication skills
Kidney care in crises	All people with CKD All crisis situations All crisis-prone countries and regions	<ul style="list-style-type: none"> - Inclusion of kidney care in crisis preparedness plans - Awareness creation among authorities - Development of less resource-dependent therapies - Development of own disaster preparedness plans if kidney care is excluded from official plans
Advocacy	Entire community involved in kidney care	<ul style="list-style-type: none"> - Awareness creation about kidney health and burden of kidney disease at all society levels - Education and information

CKD, chronic kidney disease; eGFR, estimated glomerular filtration rate; GHG, greenhouse gas; KRT, kidney replacement therapy; RO, reverse osmosis; Screa, serum creatinine. a For more details, see Figure 2 and the study by Vanholder *et al*. 6 The table summarizes several examples but is not exhaustive.

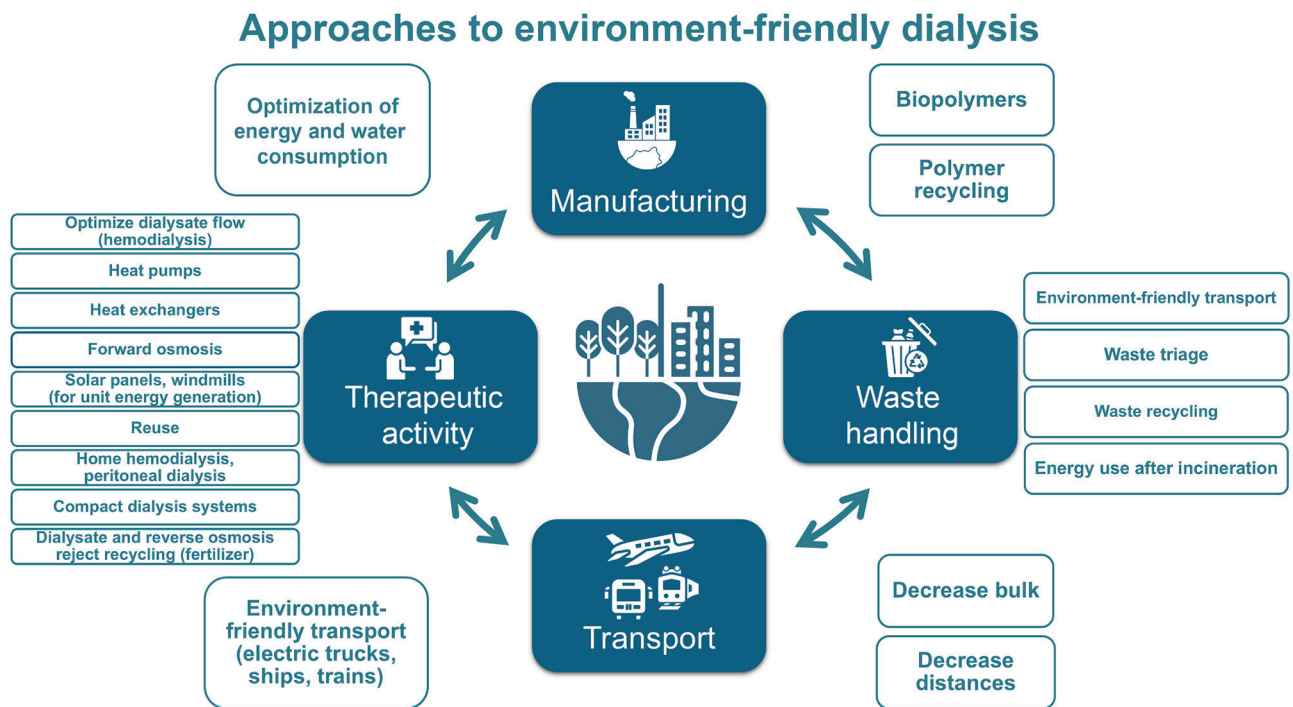


Figure 2. Approaches toward environment-friendly dialysis, categorized for manufacturing, transport, therapeutic activity, and waste handling. The list is not exhaustive. For more detailed lists, see the study by Vanholder *et al*. 6 Environment friendliness should not be pursued at the expense of patient quality of life or clinical status. Compact dialysis systems consume less water or recycle dialysate over sorbents.

to propose a ready-made outline that fits all. Kidney health plans need to be developed, aiming for a sustainable model, but might necessitate adaptations depending on the local possibilities and circumstances.

PREVENTION: THE FOUNDATION OF KIDNEY HEALTH

Beyond general primary and secondary preventive measures for all kidney conditions, prevention may require targeted therapies,

including rare kidney diseases.⁷ Diabetes and hypertension—the leading causes of CKD—remain widely underdiagnosed and undertreated.⁸ Kidney function is further compromised by modifiable lifestyle factors, including smoking, unhealthy nutritional habits (notably, excess sugar and salt), alcohol use, obesity, exposure to nephrotoxins, physical inactivity, exposure to heat, environmental pollution, and agrochemicals. Addressing these could significantly reduce the CKD burden.⁹ Prevention is beneficial across all country wealth levels but is especially critical where costly CKD therapies are inaccessible or inadequately reimbursed, resulting in premature death and catastrophic out-of-pocket health expenditures.

A shift toward prevention as the corner stone to sustainable kidney care calls for simple, yet effective, public health strategies, such as promoting healthy diets or introducing health-oriented taxation (e.g., salt, sugar, or fat taxes).⁹ Currently, governments invest manifold more in cure than in prevention, and a more balanced distribution among both factors is needed. Several governments take steps in that direction, sometimes in the context of a global cardiovascular health plan, but approaches differ depending on the local conditions.

WKD promotes Eight Golden Rules for kidney health—simple, actionable lifestyle measures:¹⁰ regular physical activity, healthy diet, adequate hydration, blood glucose control, blood pressure management, avoiding smoking, using medications as prescribed, and regular kidney function testing. These principles provide a framework for kidney health promotion across populations and health care settings. Because unfavorable living conditions and difficulties to reach quality care have a negative impact on outcomes of noncommunicable diseases, including CKD,¹¹ prevention must also address social dimensions. These include food insecurity, poor food quality, poverty, remoteness (rural vs. urban), inadequate access to services, red lining, unfavorable living conditions (unhygienic and unsafe housing, inadequate building cooling, and polluted living areas), and lack of neighborhood greenery. Public understanding of how the kidney functions and its threats is poor. Informative campaigns, like the European Renal Association's ABCDE initiative, highlighting albuminuria, blood

pressure, cholesterol, diabetes, and estimated glomerular filtration rate as key warning signs, should be widely disseminated.¹² The public is to be encouraged to ask their primary care providers about these factors, like people currently do for their glucose and cholesterol. However, educational outreach often misses those at highest risk of CKD: individuals with limited health literacy, language or cultural barriers, or lower socioeconomic status. Tailored approaches (videos, social media campaigns, and cartoons) are vital to reach these deprived populations regarding all aspects and levels of CKD.

EARLY DETECTION: A CRITICAL, UNDERUTILIZED TOOL

CKD symptoms typically emerge at advanced stages, when therapies often only can delay, not prevent, kidney failure.^{13,14} Serum creatinine remains the most widespread marker for routine assessment and monitoring of CKD but lacks sensitivity for early detection,¹⁵ although this is essential to timely and effectively prevent progression. Albuminuria stands out as a simple, low-cost, and reliable early indicator of kidney microvascular damage and CKD, but also of related conditions, such as hypertension, diabetes, and dyslipidemia.¹⁶ However, urinary screening assessments, including albuminuria checks, are rarely performed, even in well-developed health care systems.¹⁷ Albuminuria testing can thus detect hidden cases across the entire cardio-kidney-metabolic spectrum,¹⁶ serving as an alarm for conditions that, if untreated, lead to irreparable organ damage, including the kidneys. The progression of all conditions thus detected can be decelerated therapeutically, with the potential to reduce the pressing individual and societal burden of CKD and kidney failure. Modeling suggests that population-wide timely albuminuria screening and treatment could lower the lifetime incidence of dialysis or transplantation by 21.8% and of cardiovascular disease by 12%.^{18,19} Implementing universal screening from age 45 years or even 35 years onward has been suggested to enhance cost effectiveness and health care resilience.¹⁸ Programs like the US Kidney Disease Screening and Awareness Program help to promote early screening and detection of CKD.²⁰ In addition,

kidney disease should be a central attention point also outside nephrology, particularly in diabetes, hypertension, cardiovascular disease, and obesity, as a negative outcome accelerator in these conditions.^{21,22} Underlining this threat needs continued advocacy of the nephrological community,²³ particularly as there are now several novel therapies to delay progression.²⁴ For screening to have impact, it must be paired with education of the public and of frontline providers, such as general practitioners, nurses, pharmacists, and, particularly in low resource settings, community health workers. Detection of CKD and its risk factors should be followed by effective therapies, given their wide-ranging benefits, but these should be made universally accessible and affordable. Despite its growing burden, awareness and early detection of CKD remain limited in low and middle-income countries. A 2024 pilot study in high-risk groups in India reported 60% prevalence but extremely low awareness (16.5% in rural areas, 1.4% in urban areas).²⁵ In Brazil, serum creatinine and albuminuria testing remains below recommended levels, limiting early CKD detection and opportunities for timely intervention.²⁶ These gaps underscore the urgent need to integrate essential screening tests, like albuminuria and serum creatinine, into routine primary care, especially in regions where people often present with advanced disease.

ENVIRONMENTAL RISKS: AN EMERGING CHALLENGE FOR KIDNEY HEALTH

We are witnessing rapid environmental and climatologic changes with profound health consequences. The kidneys—which are central to maintaining volume homeostasis—are especially vulnerable for these shifts. Global warming raises the risk of heat stress and dehydration, which are major contributors to acute kidney injury and kidney stone development,^{27,28} and eventually progression to CKD.²⁹ Outdoor workers exposed to extreme heat are particularly at risk, especially when hydration is inadequate or working conditions are insufficiently adapted, as in Mesoamerican nephropathy, a rapidly progressing form of CKD identified in agricultural workers in (sub)tropical climates.³⁰ Climate change also intensifies extreme weather events, such as floods, hurricanes, and typhoons. These, combined

with the rising temperatures, increase the spread of tropical diseases, like malaria or dengue, as well as water borne disorders, like leptospirosis or infectious diarrhea³¹—all of which can cause acute kidney injury. Flood waters may also become nephron-toxic when contaminated with industrial or natural pollutants. Additionally, fine particulate matter from industry, transport, and forest fires has been linked to prevalence of CKD.³² Vulnerable populations bear the brunt of these risks, often living in inadequately protected environments, with limited access to cooling, greenery, and safe working conditions. In 2024, the 77th World Health Assembly adopted a landmark Resolution on Climate Change and Health, recognizing the environmental crisis as a major threat to human well-being and calling for climate-resilient, low-carbon health systems. The Resolution pressed Member States to incorporate health into national climate strategies and endorsed mechanisms, such as the Alliance for Transformative Action on Climate and Health, to support implementation.³³ Building on this momentum, the 78th Resolution specifically emphasized coordinated global action on environmental threats to overall and kidney health. Together, these Resolutions create a compelling dual mandate: to place kidney health at the intersection of noncommunicable disease control and environmental stewardship, and to guide Member States toward more integrated, equitable, and sustainable health responses. Addressing environmental risks, however, must go hand in hand with reducing the ecological footprint of kidney care itself (see below).

ECO-FRIENDLY KIDNEY FAILURE CARE: TOWARD GREENER NEPHROLOGY

The ideal approach to forestall the negative impact of interventions is taking measures, ensuring that they are no longer needed. Accordingly, prevention of kidney disease supports planetary sustainability by delaying or avoiding dialysis or reducing the use of pharmaceuticals, the production of which also has an environmental footprint. However, if drugs delay the progression of CKD and the need for kidney replacement therapy (KRT), this may compensate for the carbon footprint of drug production. A real-data secondary analysis of the

placebo-controlled CREDENCE study, investigating the impact of canagliflozin on outcomes, found a 20 to 25% greenhouse gas reduction during 2.6 years of follow-up in patients with type 2 diabetes not yet on KRT.^{34,35}

Transplantation: Advancing Access and Sustainability

Among KRTs, transplantation offers the best outcomes—lower societal costs, improved survival, enhanced quality of life, and significantly less environmental impact compared with dialysis.^{36,37} Yet, access to kidney transplantation varies widely across and within countries, influenced by health care infrastructure, socioeconomic status, and geography (rural vs. urban).⁴ Donation practices also differ: some countries rely heavily on living donors, whereas others focus mainly on deceased donation. In many areas, donation after cardiac death or preemptive transplantation remains underutilized, despite favorable outcomes.^{38,39} Furthermore, potential donors and recipients are frequently disqualified on the basis of arbitrary criteria or prejudices, with the exclusion of specific social groups, age categories, women, individuals with nonessential comorbidities, or borderline donors. Excluding borderline donors also reduces the donor pool, despite evidence that kidneys from borderline donors are safe, provided careful assessment, long-term follow-up, and treatment of risk factors.⁴⁰ In low-resource settings, kidney transplantation programs are often underdeveloped or absent, further deepening health inequities and enhancing economic burden. Reducing transplantation disparities requires clear, globally endorsed guidelines on program design, ethical and legal frameworks on how to react to paid donation, and both technical and institutional support from countries or units with advanced transplantation programs. Efforts should also include public education programs to expand the donor pool, and to address cultural, religious, and societal concerns.

Sustainability Dialysis: Reducing Environmental Impact While Improving Access

Most people on KRT receive dialysis despite the many disadvantages mentioned above.^{37,41} In

recent years, the environmental burden of dialysis has emerged as an added concern. The health care sector heavily impacts environmental degradation.⁴² Dialysis is one of the main contributors, because of its repetitive and long-lasting water and energy consumption, greenhouse gas emission, and plastic waste generation.⁶ Although therapeutic activities are a direct part of this process, approximately 70% of health care–related greenhouse gas emissions stem from the supply chain, largely related to manufacturing, transport, and waste handling.^{6,43,44} In addition, substantial volumes of spent dialysate and reverse osmosis reject are usually discarded through the drain system, a particular issue in arid regions or during droughts.^{6,45} Urgent action is needed: investment in eco-friendly dialysis technologies, which must prioritize patient safety by reducing toxicity from microplastics and eluates, while also improving the treatment experience by addressing stressors, like excessively noisy machines; critical review of the clinical procedures to reduce environmental footprint without affecting treatment quality; and greater transparency about the burdens of manufacturing and transport and how they are addressed (Figure 2).⁶ This responsibility requires collaboration among industry, physicians, patients, nurses, engineers, chemists, and environmental scientists. Home-based therapies—peritoneal dialysis and most home hemodialysis regimens, except daily extended dialysis—offer environmental advantages versus in-center hemodialysis, including reduced patient and personnel transportation needs, lower energy consumption for room temperature control, lower reverse osmosis plant electricity consumption, and, with compact hemodialysis systems and peritoneal dialysis, less water consumption. Peritoneal dialysis has a smaller footprint than in-center hemodialysis,^{43,46,47} even if transporting its bulkier supplies may still generate substantial emissions, particularly when transport distance is high.⁴⁶ Most home hemodialysis regimens are also suggested to show a benefit versus in-center hemodialysis, except for 6 × 8-hour extended hemodialysis (300 mL/min dialysate flow).⁴⁷ In incremental dialysis may further decrease environmental burden, together with dialysate flow optimization,⁴⁸ if this is clinically suitable, and provided informed

consent is obtained. Peritoneal dialysis and existing compact hemodialysis systems can also help expand dialysis access in low-resource settings and in crises. In addition, several systems regenerating dialysate over sorbents are currently under development or undergoing preliminary clinical testing but are not yet available for widespread clinical use.⁴⁹ However, to achieve availability in emerging countries, barriers like import taxes or transport costs must be addressed (e.g., through local manufacturing).

Comprehensive Conservative Care: Indispensable But Often Forgotten

Comprehensive conservative or palliative care is the third option for treating kidney failure, next to transplantation and dialysis. This approach focuses on maximizing quality of life through full medical support, without initiating KRT.⁵⁰ Conservative care is particularly appropriate for frail and elderly people, many of whom show a rapid decline in functional status and increased mortality in the first year after dialysis start.⁵¹ People with CKD stages 3 to 5 preferred conservative care if dialysis implied an increase in hospital visits or restricted travel capacity.⁵² Despite this, conservative care often remains underutilized.^{50,53} Educational initiatives aimed at both people with kidney disease and health care professionals should increase awareness and understanding of conservative care. Promoting this approach more broadly can ensure people receive treatments aligned with their values, circumstances, and wishes, while reducing unnecessary medical, economic, and environmental burdens.

PATIENT EMPOWERMENT: THE ELEPHANT IN THE ROOM

Many people report that the information provided before starting KRT is of average to poor quality, particularly in countries with lower gross domestic product.⁵⁴ Paternalistic decision-making remains common, overlooking opportunities for early modality planning, vascular access creation, and elective KRT initiation. By contrast, shared decision-making actively engages patients in treatment choices, enhancing satisfaction, quality of life, outcomes, transplantation, and home dialysis rates, and reducing reliance on in-center

hemodialysis.^{54,55} The current hospital structures remain highly patient unfriendly, making even vocal people poorly heard. Readily accessible smaller hospital-independent outpatient units, increased nurse involvement in consultations, and discussion groups with active patient participation are possible innovative options, next to several educational and informative initiatives elaborated throughout this text. Support by patient organizations could help to advance these evolutions. Effective pre-dialysis care, accurate risk prediction, and strategic modality planning are crucial for improving outcomes and reducing health care costs, but could be optimized, particularly in lower-resource areas, by forestalling late referral, fragmented care, inadequate patient education, poor adherence, and limited communication. Patient involvement is also crucial in research design, data interpretation, and registry development, helping to steer efforts in directions that really matter to them. Patients also should be encouraged to participate in training programs that build confidence and communication skills, empowering them to become active care partners and shape the future of kidney health.⁵⁶

KIDNEY CARE IN CRISIS SITUATIONS: ADAPTING TO A CHANGING WORLD

The number of people affected by crisis situations is steadily increasing, driven by population growth, climate change, and increasing geopolitical instability. These crises range from natural disasters (earthquakes, floods, extreme weather, and pandemics) to human-made emergencies, particularly armed conflicts.⁵⁷ People with kidney diseases are particularly vulnerable as they depend on specialized medication and resource-intensive treatments, like dialysis. These require skilled staff, clean water, electricity, functional machines, transport possibilities to supply stock, and reliable infrastructure—resources typically compromised in crises.⁵⁷ Missing dialyses can quickly lead to life-threatening complications, such as hyperkalemia, which may require urgent evacuation.⁵⁸ Interruption of drug therapies may accelerate CKD progression or cause kidney graft rejection. Despite these risks, people with kidney diseases are rarely considered in official disaster plans. With crises becoming more frequent and severe, kidney health should

be integrated in disaster planning and emergency protocols. Authorities should be made aware of the nephrological community's specific needs through strong coordinated advocacy. In case of noninclusion of kidney care in general disaster plans, the nephrology communities and nephrologists should develop their own. Simultaneously, there is an urgent need for less resource-dependent treatment strategies.

CALL TO ACTION: A COLLECTIVE AND GLOBAL RESPONSIBILITY

The traditional kidney care model aligned around in-center hemodialysis is no longer sustainable—ecologically, economically, and ethically (Figure 1). People living with CKD urgently need better quality of life and care. Transformation requires a holistic approach (Table 1), with all stakeholders considering each of the key areas discussed above—adapted to local situations, infrastructure, and resources.

WKD 2026 amplifies this need, issuing a call to global action:

- The public should be educated to ask care providers about their kidney parameters and function.
- Workers, particularly those employed outdoors in agriculture and construction, should be sensitized about occupational threats of heat and environmental pollution and how to mitigate these to preserve kidney health.
- People with kidney disease and their communities should be empowered to take an active role in shaping care pathways that serve their needs to their benefit.
- Health care professionals must shift emphasis toward integrated, preventive, and community-based care that enhances well-being and environmental responsibility, with focus on early disease and out-of-hospital approaches.
- Researchers and industry must challenge the status quo and prioritize innovation, striving toward equity, flexibility, patient friendliness, and sustainability.
- Policy makers and administrators need to recognize the cardio-kidney-metabolic cluster as a critical public health threat, prompting system redesign, and promoting sustainable kidney care by funding and reimbursement

initiatives.

- Patient advocacy organizations must be recognized as essential partners in design, implementation, and evaluation of policy initiatives to ensure the system is built around patient-specific needs. However, active advocacy is a responsibility of the entire kidney care community.
- Global health partnerships should link these efforts, advocating at all levels for cohesive future-ready kidney care and global health.

Widespread lack of awareness—among the public, policy makers, and even health professionals—contributes to persistent inequities across socioeconomic, gender (social or cultural rather than biological identity), ethnic, national, and regional lines. Tackling this requires robust education that highlights the public health threats and general burden imposed by kidney damage and kidney diseases. Given the demographic and geopolitical trends, appropriate well-planned screening, early detection, and prevention are the first and foremost steps to reach sustainability goals. These measures reduce complications, progression to advanced kidney disease, and the need for KRT. Prevention will ultimately also favor global health by mitigating the course of diseases frequently causing or complicating CKD and/or accelerated by CKD, significantly decreasing personal and societal problems, which emerge already in robust social security systems. In the absence of universal coverage, this will have even more important benefits, by avoiding early fatal outcomes and devastating financial consequences for many.

CONCLUSION

Aligning Kidney Health with Global Health and Sustainability Agendas

The recognition of kidney diseases as a global priority by the World Health Organization at the 78th World Health Assembly marks a pivotal moment.⁵ It provides a comprehensive mandate for urgent action and a strong foundation for national and international advocacy. The 2026 WKD theme catalyzes the embedding of kidney health and care within broader health and sustainability. This shift to patient centered models must be championed

by all stakeholders who share this responsibility to realize this model, across health, environment, labor, and policy sectors, through partnership aligned movements and coalitions with groups with parallel interests across organ specialties. This publication and WKD 2026 issue an urgent, united call to prioritize kidney health as a pillar of a healthier, fairer, and more sustainable future. The decisions made now will determine the life of millions for decades to come.

DISCLOSURE

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REFERENCES

- Francis A, Harhay MN, Ong ACM, et al. Chronic kidney disease and the global public health agenda: an international consensus. *Nat Rev Nephrol.* 2024;20:473–85.
- GBD 2023 Kidney Failure with Replacement Therapy Collaborators. Global, regional, and national prevalence of kidney failure with replacement therapy and associated aetiologies, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet Glob Health.* 2025;13:e1378–e95.
- Vanholder R, Annemans L, Bello AK, et al. Fighting the unbearable lightness of neglecting kidney health: the decade of the kidney. *Clin Kidney J.* 2021;14:1719–30.
- Vanholder R, Annemans L, Braks M, et al. Inequities in kidney health and kidney care. *Nat Rev Nephrol.* 2023;19:694–708.
- World Health Organization. Reducing the burden of noncommunicable diseases through promotion of kidney health and strengthening prevention and control of kidney disease. Accessed January 12, 2026. [https://apps.who.int/gb/ebwha/pdf_files/EB156/B156_\(20\)-en.pdf](https://apps.who.int/gb/ebwha/pdf_files/EB156/B156_(20)-en.pdf)
- Vanholder R, Agar J, Braks M, et al. The European Green Deal and nephrology: a call for action by the European Kidney Health Alliance. *Nephrol Dial Transplant.* 2023;38:1080–8.
- Vanholder R, Coppo R, Bos WJW, et al. A policy call to address rare kidney disease in health care plans. *Clin J Am Soc Nephrol.* 2023;18:1510–8.
- Gregg EW. Diabetes-related disability as a target for prevention. *Lancet Diabetes Endocrinol.* 2013;1:81–2.
- Vanholder R, Annemans L, Brown E, et al. Reducing the costs of chronic kidney disease while delivering quality health care: a call to action. *Nat Rev Nephrol.* 2017;13:393–409.
- World Kidney Day. 8 golden rules animated visuals. Accessed January 12, 2026. <https://www.worldkidneyday.org/facts/8-golden-rules/>
- Norton JM, Moxey-Mims MM, Eggers PW, et al. Social determinants of racial disparities in CKD. *J Am Soc Nephrol.* 2016;27:2576–95.
- Ferro CJ, Wanner C, Luyckx V, et al. ABCDE to identify and prevent chronic kidney disease: a call to action. *Nephrol Dial Transplant.* 2025;40:1786–98.
- Heerspink HJ, Desai M, Jardine M, et al. Canagliflozin slows progression of renal function decline independently of glycemic effects. *J Am Soc Nephrol.* 2017;28:368–75.
- Cordero L, Ortiz A. Albuminuria-based universal screening for CKD should be implemented now in high-income countries. *Kidney Int.* 2025;108:754–9.
- Stehle T, Delanaye P. Which is the best glomerular filtration marker: creatinine, cystatin C or both? *Eur J Clin Invest.* 2024;54:e14278.
- van Mil D, Kieneker LM, Evers-Roeten B, et al. Participation rate and yield of two home-based screening methods to detect increased albuminuria in the general population in the Netherlands (THOMAS): a prospective, randomised, open-label implementation study. *Lancet.* 2023;402:1052–64.
- Tangri N, Alvarez CS, Arnold M, et al. Suboptimal monitoring and management in patients with unrecorded stage 3 chronic kidney disease in real world settings: insights from REVEAL-CKD. *Eur J Clin Invest.* 2024;54:e14282.
- Pouwels X, van Mil D, Kieneker LM, et al. Cost effectiveness of home-based screening of the general population for albuminuria to prevent progression of cardiovascular and kidney disease. *EClinicalMedicine.* 2024;68:102414.
- Chavarina KK, Lou-Meda R, Luyckx VA. Strategic rebalancing of kidney-related investments is key to implementing the WHO kidney health resolution. *Nat Rev Nephrol.* 2025;21:813–4.
- Kidney Disease Screening and Awareness Program. Together we fight kidney disease. Accessed January 12, 2026. www.kdsap.org
- Afkarian M, Sachs MC, Kestenbaum B, et al. Kidney disease and increased mortality risk in type 2 diabetes. *J Am Soc Nephrol.* 2013;24:302–8.
- Wan EYF, Yu EYT, Chin WY, et al. Burden of CKD and cardiovascular disease on life expectancy and health service utilization: a cohort study of Hong Kong Chinese hypertensive patients. *J Am Soc Nephrol.* 2019;30:1991–9.
- Luyckx VA, Ulasi II. Kidney disease must be counted everywhere. *Lancet.* 2025;406:2401–3.
- Kidney Disease: Improving Global Outcomes (KDIGO) CKD Work Group. KDIGO 2024 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease. *Kidney Int.* 2024;105(4S): S117–S314.
- Rama Krishna C, Venkateswar S, Bogdan M, et al. Point-

- of-care testing and integrated digital health technology for CKD screening in high-risk populations of India. *Kidney Int Rep.* 2025;10:2128–39.
25. Guedes M, Dias PT, Rea RR, et al. Patterns of kidney function and risk assessment in a nationwide laboratory database: the Brazilian CHECK-CKD study. *BMC Nephrol.* 2024;25:191.
 26. Hajat S, Casula A, Murage P, et al. Ambient heat and acute kidney injury: case-crossover analysis of 1 354 675 automated e-alert episodes linked to high resolution climate data. *Lancet Planet Health.* 2024;8: e156–e62.
 27. Maline GE, Goldfarb DS. Climate change and kidney stones. *Curr Opin Nephrol Hypertension.* 2024;33:89–96.
 28. Gopalakrishnan N, Sudharshini S, Sakthirajan R, et al. CKDu-AGRI study—a population-based cross-sectional study of chronic kidney disease and chronic kidney disease of unknown aetiology among agricultural workers in Tamil Nadu, India. *Lancet Reg Health Southeast Asia.* 2025;42:100683.
 29. Garcia-Trabanino RA. The human burden of Mesoamerican nephropathy: diagnosis and treatment in a complex web of socioeconomics, context, and stigma. *Semin Nephrol.* 2025;45:151601.
 30. Chretien JP, Anyamba A, Small J, et al. Global climate anomalies and potential infectious disease risks: 2014–2015. *PLoS Curr.* 2015;7:ecurrents.outbreaks.95fbc4a8fb4695e049baabfc2fc8289f.
 31. Bowe B, Artimovich E, Xie Y, et al. The global and national burden of chronic kidney disease attributable to ambient fine particulate matter air pollution: a modelling study. *BMJ Glob Health.* 2020;5:e002063.
 32. World Meteorological Organization, World Health Organization. Alliance for Transformative Action on Climate and Health (ATACH) meeting on accessing climate finance for health. Accessed January 12, 2026. <https://climahealth.info/alliance-for-transformative-action-on-climate-and-health-atach-meeting-on-accessing-climate-finance-for-health/>
 33. Talbot B, Fletcher RA, Neal B, et al. The potential for reducing greenhouse gas emissions through disease prevention: a secondary analysis of data from the CREDENCE trial. *Lancet Planet Health.* 2024;8:e1055–e64.
 34. Evaluation of the Effects of Canagliflozin on Renal and Cardiovascular Outcomes in Participants With Diabetic Nephropathy (CREDENCE). *ClinicalTrials.gov* identifier: NCT02065791. Updated December 5, 2019. Accessed January 12, 2026. <https://clinicaltrials.gov/study/NCT02065791>
 35. Vanholder R, Dominguez-Gil B, Busic M, et al. Organ donation and transplantation: a multi-stakeholder call to action. *Nat Rev Nephrol.* 2021;17:554–68.
 36. Tonelli M, Wiebe N, Knoll G, et al. Systematic review: kidney transplantation compared with dialysis in clinically relevant outcomes. *Am J Transplant.* 2011;11: 2093–109.
 37. Schaapherder A, Wijermars LGM, de Vries DK, et al. Equivalent long-term transplantation outcomes for kidneys donated after brain death and cardiac death: conclusions from a nationwide evaluation. *EClinicalMedicine.* 2018;4: 5:25–31.
 38. Azegami T, Kounoue N, Sofue T, et al. Efficacy of pre-emptive kidney transplantation for adults with end-stage kidney disease: a systematic review and meta-analysis. *Renal Fail.* 2023;45:2169618.
 39. Achkar KA, Abdelnour LM, Abu Jawdeh BG, et al. Evaluation and long-term follow-up of living kidney donors. *Adv Kidney Dis Health.* 2024;31:400–7.
 40. Barraclough KA, Agar JWM. Green nephrology. *Nat Rev Nephrol.* 2020;16:257–68.
 41. Lenzen M, Malik A, Li M, et al. The environmental footprint of health care: a global assessment. *Lancet Planet Health.* 2020;4:e271–e9.
 42. Connor A, Lillywhite R, Cooke MW. The carbon footprint of a renal service in the United Kingdom. *QJM.* 2010;103:965–75.
 43. Piccoli GB, Nazha M, Ferraresi M, et al. Eco-dialysis: the financial and ecological costs of dialysis waste products: is a “cradle-to-cradle” model feasible for planet-friendly haemodialysis waste management? *Nephrol Dial Transplant.* 2015;30:1018–27.
 44. Tarrass F, Benjelloun M, Benjelloun O. Recycling wastewater after hemodialysis: an environmental analysis for alternative water sources in arid regions. *Am J Kidney Dis.* 2008;52:154–8.
 45. McAlister S, Talbot B, Knight J, et al. The carbon footprint of peritoneal dialysis in Australia. *J Am Soc Nephrol.* 2024;35:1095–103.
 46. Barraclough KA, Talbot B, Knight J, et al. Carbon emissions from different dialysis modalities: a life cycle assessment. *Am J Kidney Dis.* 2025;86:465–474.e1.
 47. Solomon D, Arumugam V, Sakthirajan R, et al. A pilot study on the safety and adequacy of a novel ecofriendly hemodialysis prescription-green nephrology. *Kidney Int Rep.* 2024;9:1496–503.
 48. Ramada DL, de Vries J, Vollenbroek J, et al. Portable, wearable and implantable artificial kidney systems: needs, opportunities and challenges. *Nat Rev Nephrol.* 2023;19:481–90.
 49. Lunney M, Bello AK, Levin A, et al. Availability, accessibility, and quality of conservative kidney management worldwide. *Clin J Am Soc Nephrol.* 2020;16:79–87.
 50. Kurella Tamura M, Covinsky KE, Chertow GM, et al. Functional status of elderly adults before and after initiation of dialysis. *N Engl J Med.* 2009;361:1539–47.
 51. Morton RL, Snelling P, Webster AC, et al. Factors influencing patient choice of dialysis versus conservative care to treat end-stage kidney disease. *CMAJ.* 2012;184:E277–E83.
 52. Stel VS, de Jong RW, Kramer A, et al. Supplemented ERA-EDTA Registry data evaluated the frequency of dialysis, kidney transplantation, and comprehensive conservative management for patients with kidney failure in Europe. *Kidney Int.* 2021;100:182–95.
 53. De Jong RW, Stel VS, Rahmel A, et al. Patient-reported factors influencing the choice of their kidney replacement treatment modality. *Nephrol Dial Transplant.* 2022;37:477–88.
 54. Joosten EA, DeFuentes-Merillas L, de Weert GH, et

- al. Systematic review of the effects of shared decision making on patient satisfaction, treatment adherence and health status. *Psychother Psychosom.* 2008;77: 219–26.
55. European Patients Academy on Therapeutic Innovation (EUPATI). Education that empowers. Accessed January 12, 2026. <https://eupati.eu/>
56. Sever MS, Luyckx V, Tonelli M, et al. Disasters and kidney care: pitfalls and solutions. *Nat Rev Nephrol.* 2023;19:672–86.
57. Pawlowicz-Szlarska E, Vanholder R, Sever MS, et al. Distribution, preparedness and management of Ukrainian adult refugees on dialysis-an international survey by the Renal Disaster Relief Task Force of the European Renal Association. *Nephrol Dial Transplant.* 2023;38:2407–15.

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