

Implementation strategy: Understanding needs in low and middle income countries

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On behalf of the KDIGO Controversies Conference participants





KDIGO Mission Statement

To improve the care and outcomes of kidney disease patients worldwide through the development and *implementation* of global clinical practice guidelines.



Clinical Practice Guidelines

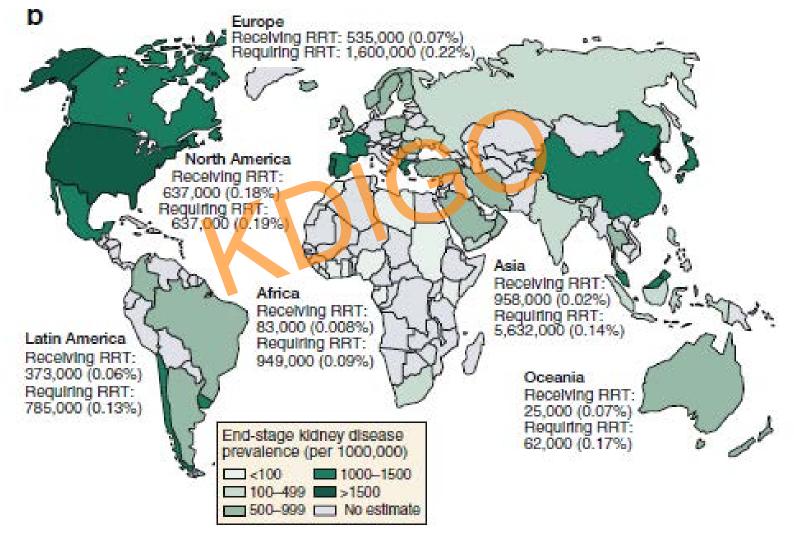
Systematically developed statements, to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances



Implementation of guidelines is a local responsibility

Global prevalence of end-stage kidney disease







- By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being
- Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all

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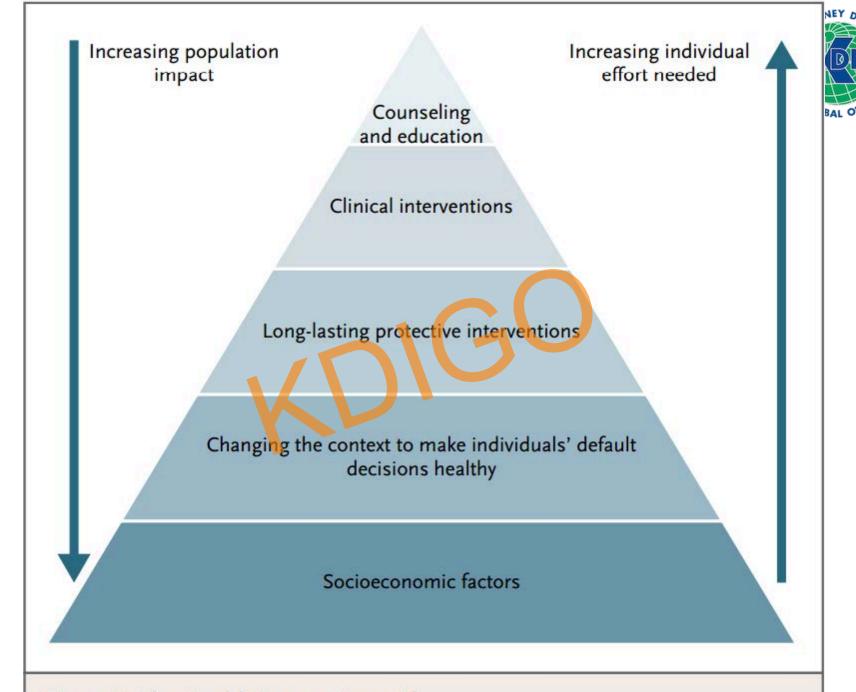
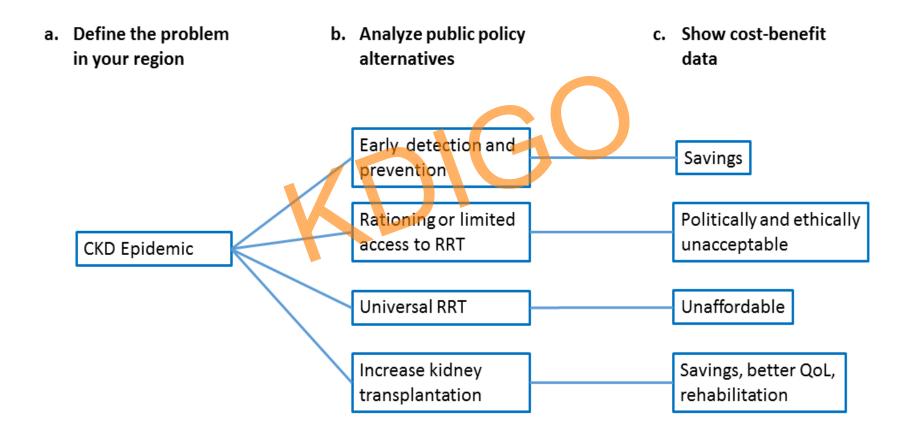


Figure 1. The Health Impact Pyramid.



How to make public policy?

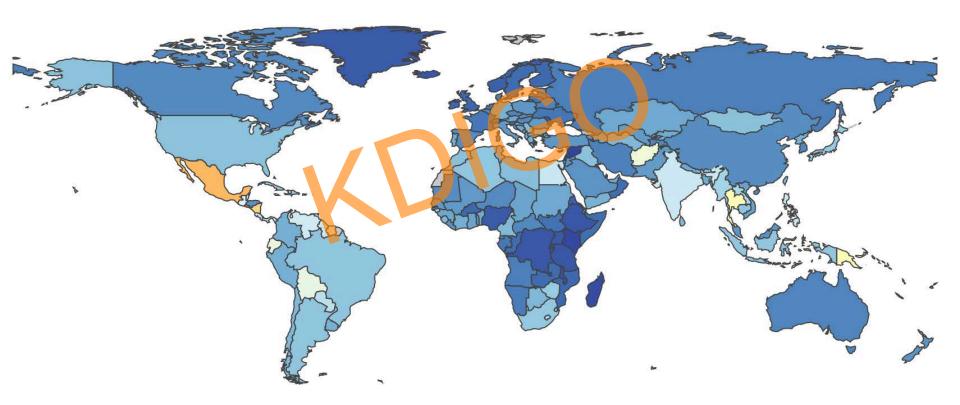


What data do policymakers need?

- DIGO STORAL OUTCOM
- What are the data on intensity of AKI and CKD burden and intersection with other diseases/risk factors?
- What is the impact of kidney disease on population health and economics (in terms of DALYs and cost of care)?
- What is the cost-effectiveness of interventions at different stages of CKD?
- What target populations might benefit from kidney disease interventions (e.g., age, groups at increased risk, geographic location, or occupations)?
- Are there local factors that exacerbate or mitigate disease risk or implementation strategies?
- Who are the stakeholders and allies?
- Are there local evidence-based best practice management guidelines, or can global guidelines be adapted to suit local needs?
- What innovations can improve the delivery of care for kidney disease in an affordable and scalable manner in the context of local health system?
- How can we evaluate effectiveness of health care intervention (i.e., components, process and outcome)?
- Is there a need to set up kidney disease registries?
- What is the research agenda for improving locally appropriate implementation?
- What are the metrics for measuring successful implementation and progress of kidney disease prevention efforts?

Chronic kidney disease DALYs per 100,000 (2015)

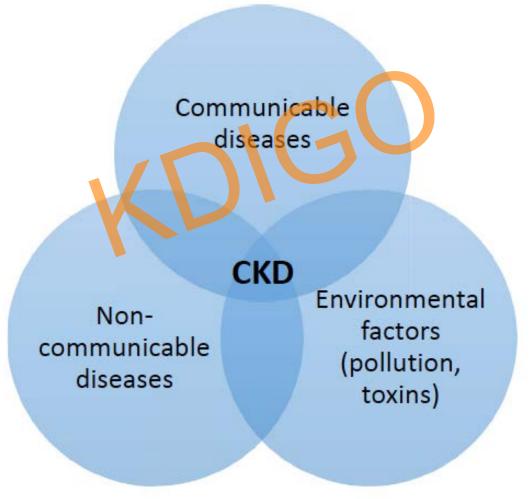




https://vizhub.healthdata.org/gbd-compare/

Traditional and non-traditional risk factors interact in CKD development and progression





Targets for advocacy initiative



- Recognize preventable deaths due to AKI in LMICs as a human rights issue
- Recognize CKD as an important cause of death and disability by national health authorities
- Include screening and management for AKI and CKD in existing or planned NCD and CD programs
- Reduce cardiovascular morbidity and mortality in those with CKD
- Retard progression of CKD and the need of RRT
- Increase government funding for CKD detection and prevention
- Increase access to RRT in an equitable and just manner
- Increase rates of organ donation and transplantation
- Establish a national ESRD registry



Barriers to implementation

Internal related to the guideline itself

External

related to the clinical environment and particular local circumstances



Internal Barriers

- Ethnic and genetic variations
 - HIVAN
 - Disease behavior in different races/ethnicities

- Differences in disease characteristics
 - Differences in CKD causes
 - Proteinuric v non-proteinuric diseases

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External barriers

- Structural factors
 - financial disincentives
- Organizational factors
 - inappropriate skill mix
 - lack of facilities or equipment
- Peer group
 - local standards of care not in line with desired practice
- Individual factors
 - knowledge attitudes, skills
- Professional patient interaction
 - problems with information processing.

Barriers to kidney disease care in LMIC



System-level barriers

- Lack of access to health insurance
- Lack of trained manpower and resources
- Lack of education around standardized, guideline-based uniformity of care • Kidney disease-specific issues
- Lack c compr
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- Lack o

- Inadequate health systems response to kidney care delivery
- Omission of kidney disease screening and management in course curricula
- Lack of data on AKI and CKD burden and its consequences
- Inadequate understanding of risk factors for CKD development and/ or progression
- Inadequate understanding of the consequences of missed opportunities for kidney disease care
- Delayed diagnosis and late presentation with advanced disease and complications
- Fragmentation of information and communication on kidney disease care
- Lack of locally appropriate or adapted guidelines for kidney disease (e.g., language, complexity, implementation tools)
- Lack of standardized care tools for physicians and educational tools for patients

Understanding and identifying barriers to guideline implementation



- Understanding the barriers to Change
 - Awareness and knowledge
 - Motivation; Practicalities; Acceptance and beliefs; Skills
 - The external environment
- Identifying the barriers to change
 - Talk to key individuals
 - Observe clinical practice in action
 - Use a questionnaire, Run a focus group,
 - Brainstorm

https://www.nice.org.uk/media/default/about/what-we-do/ into-practice/support-for-service-improvement-and-audit/how-tochangepractice-barriers-to-change.pdf JSN 2017, Sendai



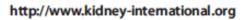
Overcoming Barriers to Change

- Educational materials
- Educational meetings interactive workshops
- Educational outreach visits
- Opinion leaders
- Clinical audit and feedback
- Reminder systems
- Patient-mediated strategies (e.g. mass media campaigns)



Overcoming barriers to change

	Understanding	identifying	Overcoming
•	Awareness and knowledge Motivation Practicalities Acceptance and beliefs Skills External environment	 Talk to key individuals Observe clinical practice in action Use a questionnaire Brainstorm Run a focus group 	 Educational materials Meetings, workshops Outreach visits Opinion leaders Clinical audit and feedback Reminder systems Patient-mediated strategies



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Executive summary of the KDIGO Controversies Conference on Supportive Care in Chronic Kidney Disease: developing a roadmap to improving quality care

Sara N. Davison¹, Adeera Levin², Alvin H. Moss³, Vivekanand Jha^{4,5}, Edwina A. Brown⁶, Frank Brennan⁷, Fliss E.M. Murtagh⁸, Saraladevi Naicker⁹, Michael J. Germain¹⁰, Donal J. O'Donoghue¹¹, Rachael L. Morton^{12,13} and Gregorio T. Obrador¹⁴



Decide leader, stakeholder

Prepare people/ environment for GL implementation

Account for pt preferences/views

Action plan

putting it together

Determine current position

- Review local environment
- Audit current practices
- Identify gaps

Decide on appropriate implementation techniques

with respect to barriers

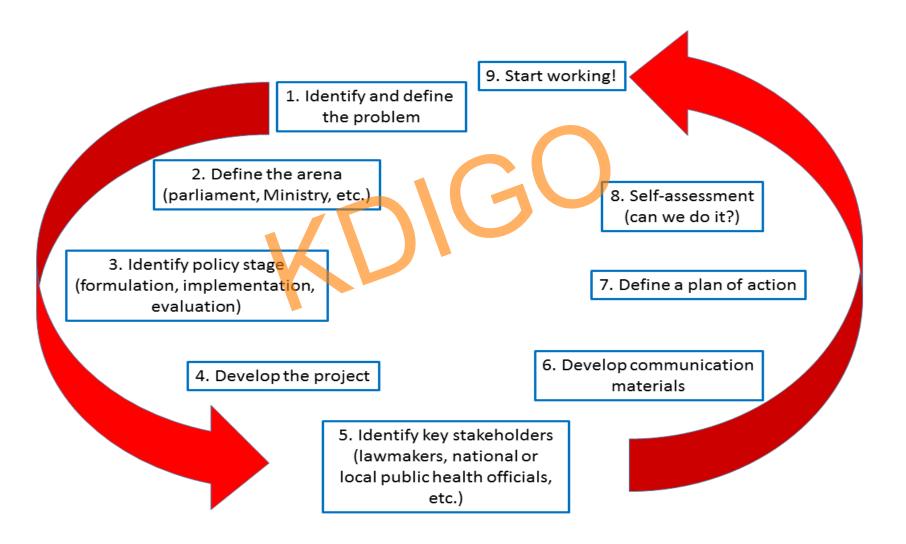
Evaluate process

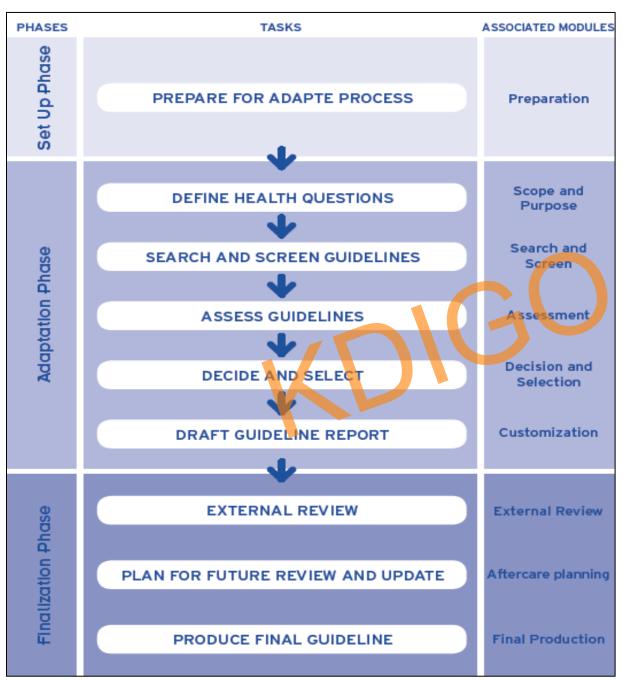
- Audit
- Reward

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Engage stakeholders







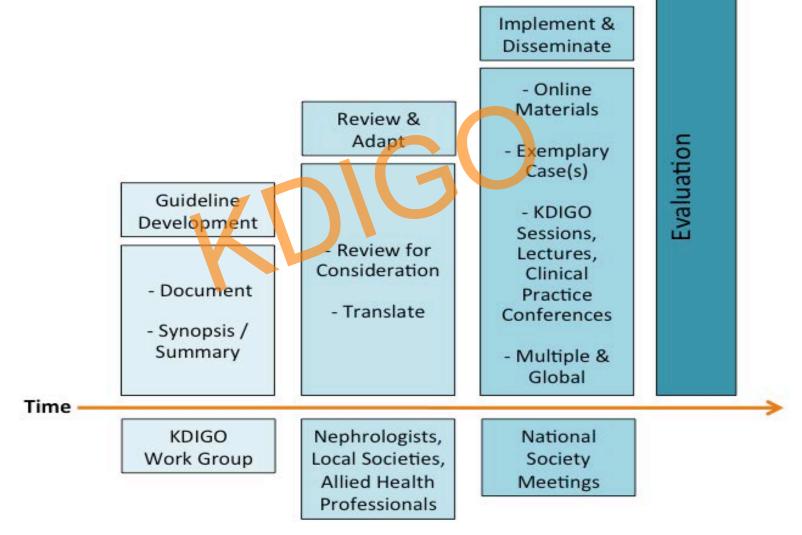
ADAPTE Process for developing resource sensitive guidelines

ADAPTE Collaboration http://www.g-i-n.net/

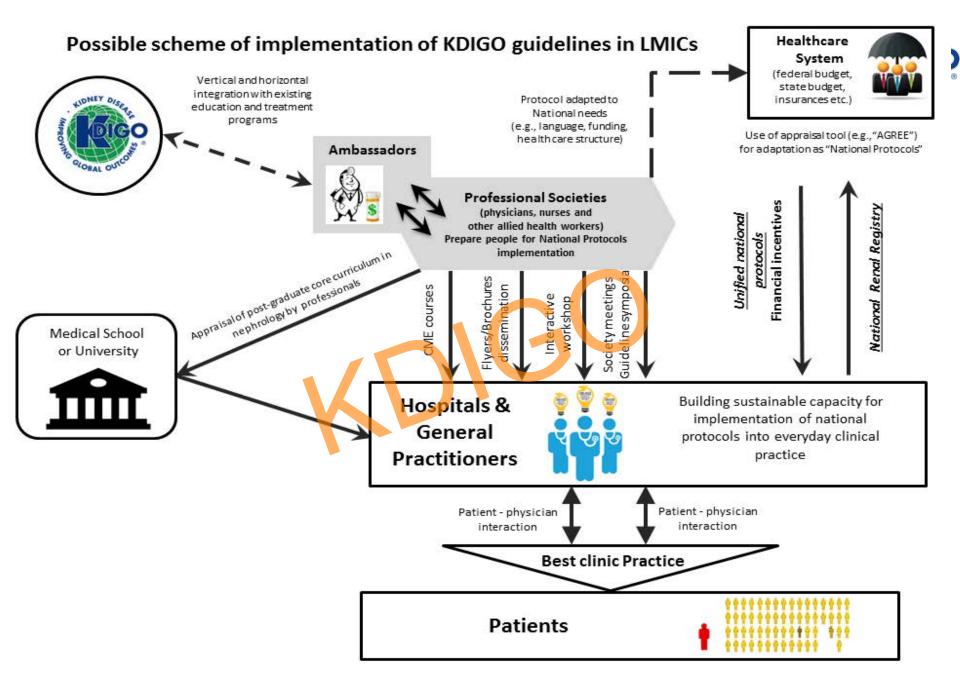
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Pathway to implementation





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www.kidney-international.org

Understanding kidney care needs and implementation strategies in low- and middle-income countries: conclusions from a "Kidney Disease: Improving Global Outcomes" (KDIGO) Controversies Conference



Vivekanand Jha^{1,2}, Mustafa Arici³, Allan J. Collins^{4,5}, Guillermo Garcia-Garcia⁶, Brenda R. Hemmelgarn⁷, Tazeen H. Jafar^{8,9,10}, Roberto Pecoits-Filho¹¹, Laura Sola¹², Charles R. Swanepoel¹³, Irma Tchokhonelidze¹⁴, Angela Yee Moon Wang¹⁵, Bertram L. Kasiske¹⁶, David C. Wheeler¹⁷ and Goce Spasovski¹⁸; for Conference Participants¹⁹

Kidney International (2016) 90, 1164–1174;