KDIGO Overview

KIDNEY DISA

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Round Control

Bertram Kasiske, MD

Mandaluyong City April 23, 2014

KDIGO Overview

- What is KDIGO?
- What is a clinical practice guideline?
- How does KDIGO produce guidelines and conferences?
- How are we doing (results of a survey)?





An independent entity

Kidney Disease: Improving Global Outcomes (KDIGO) was founded in 2003 and incorporated in Belgium as a foundation in the public interest. After almost 10 years of stellar management by the US National Kidney Foundation, on October 1, 2012, KDIGO became a wholly independent and truly global organization, committed to improving outcomes for patients with kidney disease worldwide.

KDIGO governance





KDIGO leadership

Co-chairs: Bertram Kasiske David Wheeler

Exec Committee:

Josef Coresh Angel de Francisco Kai-Uwe Eckardt Michel Jadoul Saraladevi Naicker Gregorio Obrador Yusuke Tsukamoto Christoph Wanner Helena Zakharova

USA UK

USA Spain Germany Belgium South Africa Mexico Japan Germany Russia

Treasurer:

Staff:

Nathan Levin

USA

John Davis, CEO Danielle Green, Managing Dir Michael Cheung, Chief Science Officer Tanya Green, Communications Dir

The KDIGO mission

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



KDIGO Overview

- What is KDIGO?
- What is a clinical practice guideline?
- How does KDIGO produce guidelines
 and conferences?
- How are we doing (results of a survey)?



What is a clinical practice guideline?

The term "practice guideline" likely came from the mountain climbing practice of marking best paths with rope.

Stone JA, et al. Can J Cardiol. 2008;24(10):753



Institute of Medicine definition

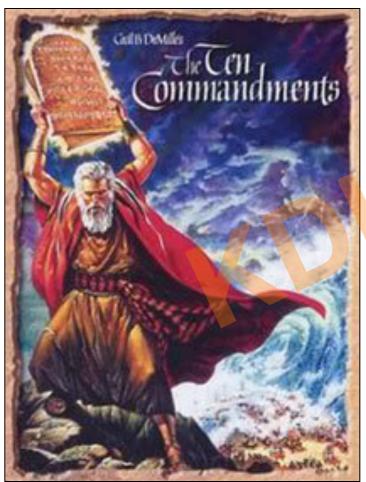
1990: "systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances"

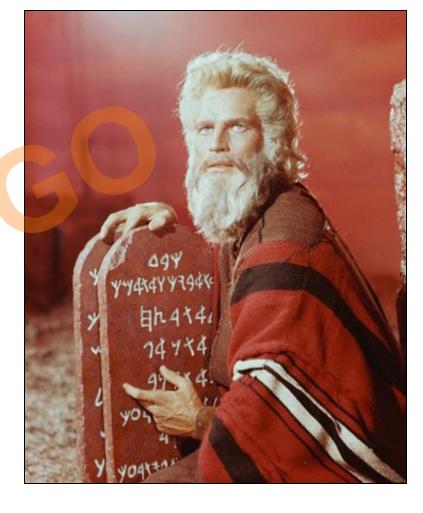
2011: "statements that include recommendations intended to optimize patient care that are informed by a systematic review of evidence and an assessment of the benefits and harms of alternative care options."



Institute of Medicine. *Clinical Practice Guidelines We Can Trust*. 2011. http://www.iom.edu/Reports/2011

Guidelines are not ...







Reasons for guidelines

- The volume of evidence is too great for clinicians to know.
- Clinicians cannot be expected to judge study quality.
- Disclosing the lack of evidence can stimulate research.





Guidelines should be trustworthy!

Resources	3 	
	REPORT BRIEF 涉 MARCH 2011	INSTITUTE OF MEDICINE OF THE NATIONAL ACADEMIES
		Advising the nation • Improving health
		For more information visit www.iom.edu/cpgstandards
	Clinical Practice Guidelines We C	
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Kidney Disease: Improving Global Outcomes

MPROVING

GLOBAL OUTCO

Eight IOM standards for developing trustworthy guidelines

- Establishing Transparency
- Management of Conflict of Interest
- Guideline Development Group Composition
- Clinical Practice Guideline–Systematic Review
 Intersection
- Establishing Evidence Foundations for and Rating Strength of Recommendations
- Articulation of Recommendations
- External Review
- Updating



Institute of Medicine. *Clinical Practice Guidelines We Can Trust*. 2011. http://www.iom.edu/Reports/2011/Clinical-Practice-Guidelines-We-Can-Trust.aspx

Guidelines should

- be based on a systematic review of the existing evidence;
- be developed by a knowledgeable, multidisciplinary panel of experts and representatives from key affected groups;
- consider important patient subgroups and patient preferences, as appropriate;
- be based on an explicit and transparent process that minimizes distortions, biases, and conflicts of interest;
- provide a clear explanation of the logical relationships between alternative care options and health outcomes, and provide ratings of both the quality of evidence and the strength of the recommendations; and
- be reconsidered and revised as appropriate when important new evidence warrants modifications of recommendations.



Institute of Medicine. *Clinical Practice Guidelines We Can Trust*. 2011. http://www.iom.edu/Reports/2011/Clinical-Practice-Guidelines-We-Can-Trust.aspx *Kidney Disease: Improving Global Outcomes*

KDIGO adheres to IOM standards for trustworthy guidelines

Resources

- The need for a guideline originates from stakeholders.
- Public comment is sought.
- Work Group members include adequate domain expertise, stakeholder and international representation.
- An independent Evidence Review Team is used.



Grading the quality of the evidence and the strength of recommendations

- 2 components of final grade \rightarrow granularity and transparency
- Evidence quality influences, but does not dictate the strength of a recommendation
- "Neutral" alphanumeric code

Quality of	High Moderate	AB	Strength of recom- mendation	1	Corresponds to "strong" in GRADE
evidence	Low	C		2	Corresponds to "weak" in GRADE
	Very low	D			

e.g. (Grade 1C) or (Grade 2D) ... 8 options

Option to include statements that are not graded



Dealing with conflicts of interest

Clinical practice guidelines influence physician practice, quality measures, and insurance coverage decisions. Given this influence, clinical practice guidelines need to be developed with greater transparency and accountability. The committee recommends that professional societies and other groups that develop practice guidelines not accept direct industry funding for guideline development and generally exclude individuals with conflicts of interest from the panels that draft the guidelines. In addition, these groups should make public their conflict of interest policies, their funding sources, and any financial relationships panel members have with industry.

http://www.iom.edu/Reports/2009/Conflict-of-Interest-in-Medical-Research-Education-and-Practice.aspx

CONFLICT OF INTEREST





Kidney Disease: Improving Global Outcomes

April 21, 2009

KDIGO adheres to IOM standards for trustworthy guidelines

Resources

- The need for a guideline originates from stakeholders.
- Public comment is sought.
- Work Group members include adequate domain expertise, stakeholder and international representation.
- An independent Evidence Review Team is used.
- Conflicts of interest are managed.
- No direct, single-industry sponsorship of a guideline.



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- What is KDIGO?
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Core KDIGO guideline lifecycle



Kidney Disease: Improving Global Outcomes

COBAL OUT

Controversies Conferences

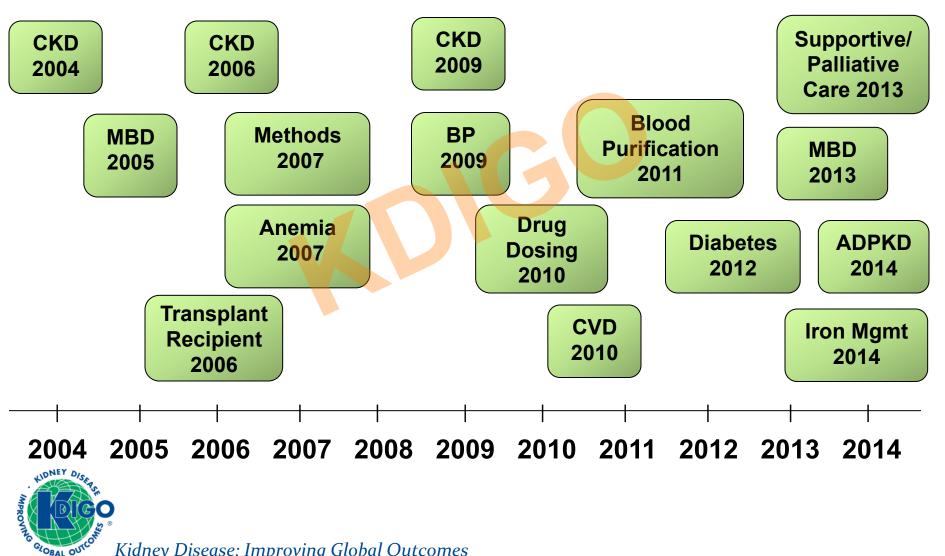
Controversies Conferences

Controversies Conferences examine significant nephrology topics that result in a published position paper to share with the community





Controversies Conferences



Impact of Controversies Conferences

New Terminology

• NKF-K/DOQI definition of CKD

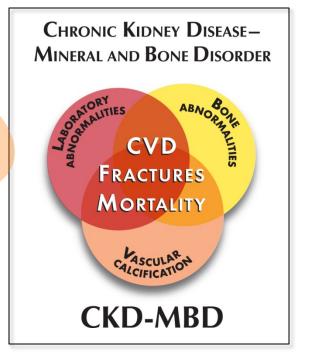
WHO Collaboration

- Growing recognition of CKD as a global public health problem
- Renal Working Group developed ICD-11 codes recruited and managed by KDIGO

New Research

- CKD Prognosis Consortium (CKD-PC)
- An international research group, composed of investigators who share data for the purpose of collaborative meta-analyses to study prognosis in CKD



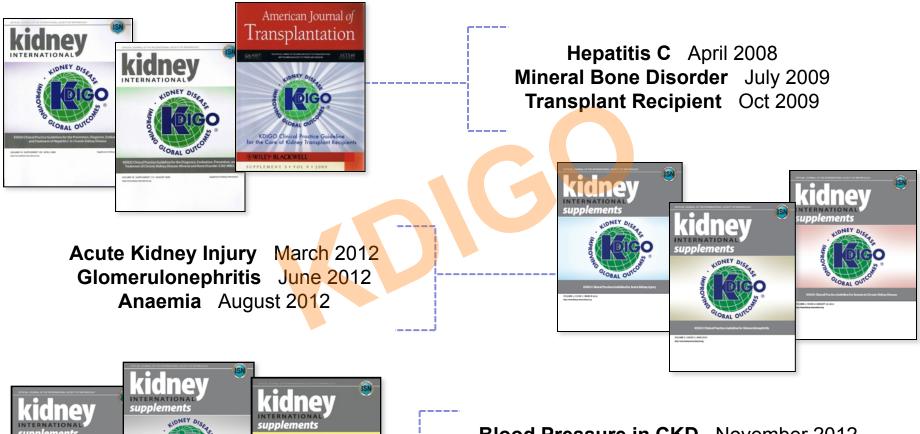


Core KDIGO guideline lifecycle





Published KDIGO guidelines



Blood Pressure in CKD November 2012 Diagnosis and Management of CKD January 2013 Lipid Management November 2013

Current: The Living Kidney Donor



Evidence Review Center for this guideline is the AHRQ Center at the University of Minnesota. This guideline is being written in collaboration with The Transplantation Society (TTS). It will cover the care, selection, risk assessment and prognosis of the living kidney donor.

TTS Representatives

Patricia Adams USA

Lorenzo Gallon USA

Work Group Co-Chairs

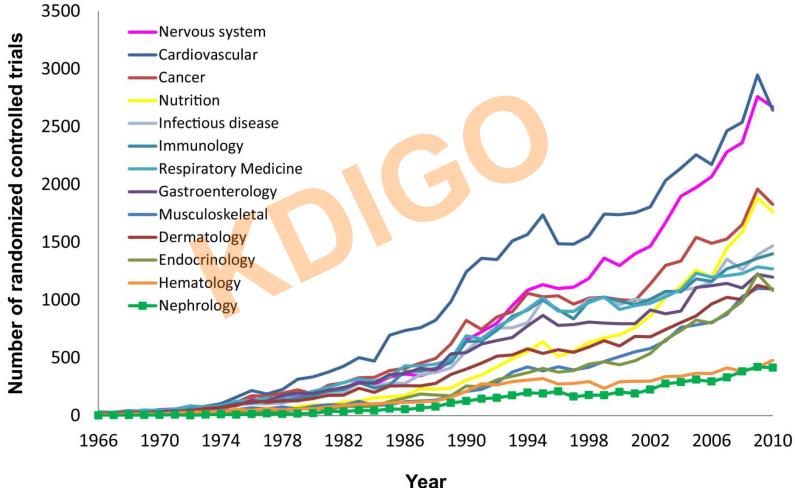
Amit Garg Krista Lentine Canada USA

Work Group Members

Josefina Alberu *Mexico* Mohamed Bakr *Egypt* Josep Campistol *Spain* Cathy Garvey *USA* Sandeep Gularia *India* Andrew Levey *USA* Philip K. T. Li *Hong Kong* Jose Osmar Medina-Pestana Brazil Dorry Segev USA Faissal Shaheen Saudi Arabia Sandra Taler USA Kazunari Tanabe Japan Linda Wright Canada Martin Zeier Germany



RCTs in different fields

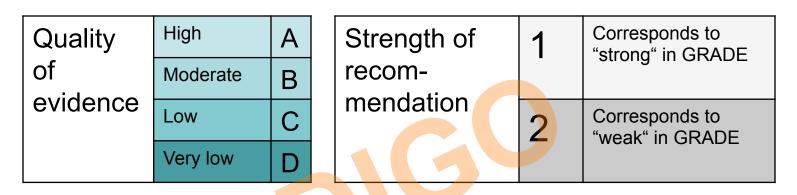




Kidney Disease: Improving Global Outcomes

Palmer et al. AJKD 2011; 58: 335-337

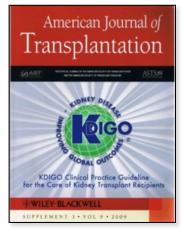
Transplant guideline quality of evidence and strength of recommendations



e.g. (Grade 1C) or (Grade 2D) ... 8 options

Option to include statements that are not graded

Transplant guideline example





Transplant guideline quality of evidence and strength of recommendations

Resources

Graded 198 (80.5%)

Not Graded 45 (19.5%)

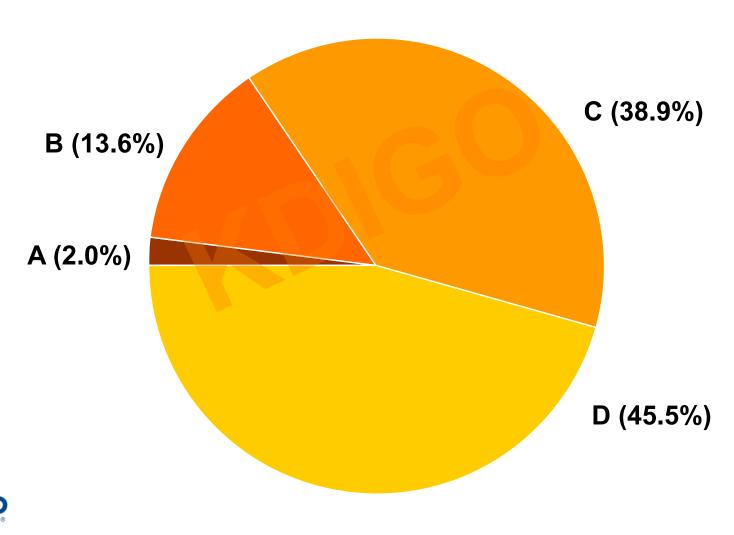


Transplant guideline quality of evidence

Resources

DNEY /

GLOBAL OUT



Transplant guideline strength of recommendations

Resources

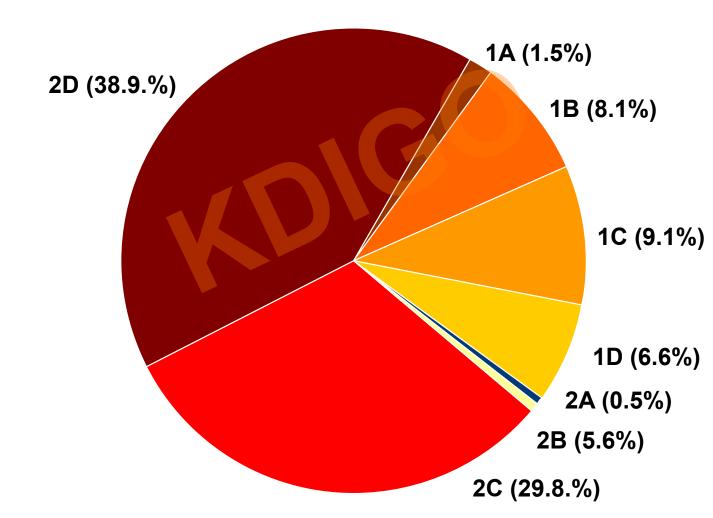
1 50 (25.3%)

2 148 (74.7%)

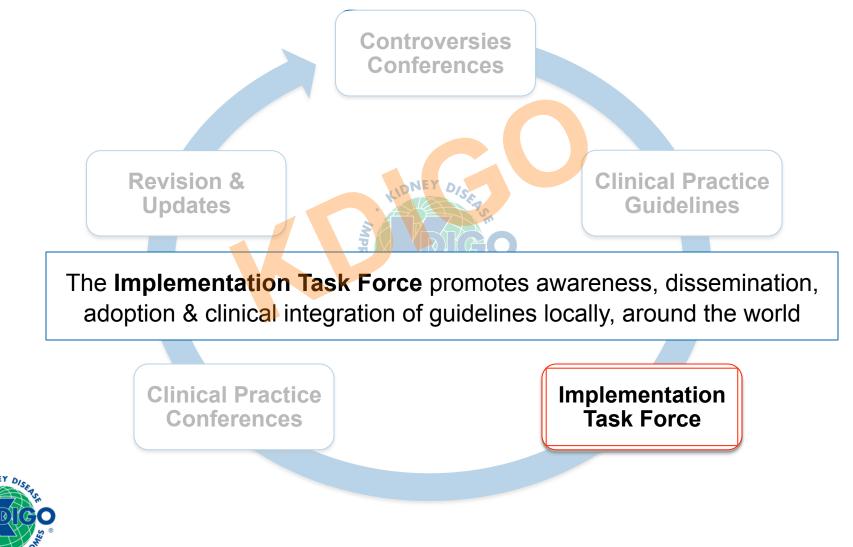


Transplant guideline quality of evidence and strength of recommendations

Resources



Core KDIGO guideline lifecycle



Implementation Task Force

Implementation Task Force

members represent 80 countries, and voluntarily work to disseminate and implement KDIGO Guidelines through presentations, and publication of local and regional translations and adaptations Chair: Yusuke Tsukamoto, Japan





Task Force responsibilities

- Publish translations and commentaries in countries' journals in the local language
- Collaborate with local and regional societies on presentations, adaptations and publications
- Include KDIGO on stakeholder meeting agendas
- Develop patient and professional education tools to promote use of KDIGO guidelines in clinical practice
- Integrate KDIGO guidelines into local clinical practice
- Include KDIGO messages in local training programs



Core KDIGO guideline lifecycle



Clinical Conferences



New Delhi Clinical Practice Conference

17 March, 2012 200 local nephrologists 10 KDIGO participants





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KDIGO achievements

- One of few global guideline efforts
- 16 Controversies Conferences to date
- 9 published global guidelines
- Paradigm-changing, including examples of
 - A landmark conference on CKD Prognosis
 - A CKD classification and system
 - Clinical Practice Conferences to ensure practical application of KDIGO guidelines locally



KDIGO guideline implementation survey

The survey was administered on iPads in the KDIGO booth.



KDIGO guideline implementation survey

- The KDIGO Guideline Implementation Survey was administered from the KDIGO booth at:
 - ERA-EDTA Istanbul, Turkey (May 18-21, 2013)
 - WCN Hong Kong, China (May 31- June 3, 2013)
 - ASN Kidney Week Atlanta, USA (November 6-10, 2013)
- The survey was **voluntary** and respondents were able to skip questions without answering.
- With over 340 responses for many questions, this survey provides insight into how KDIGO guidelines are being used globally.



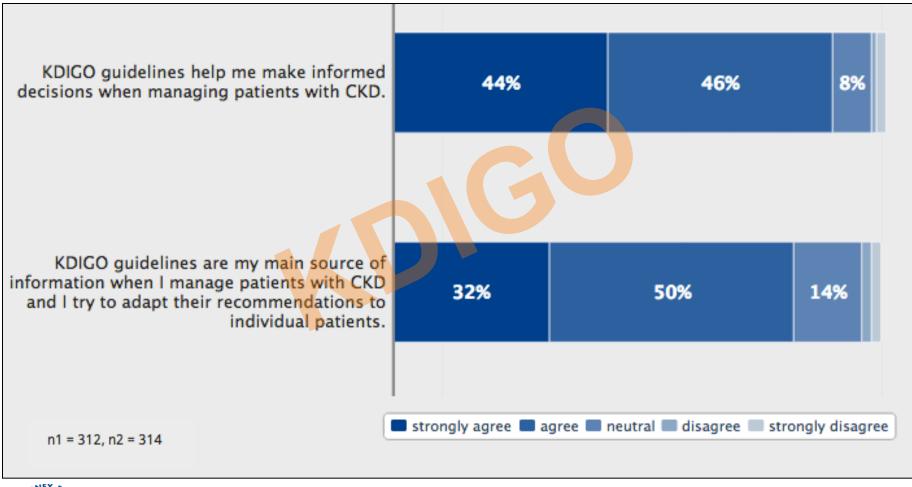
KDIGO guideline implementation survey

- 88% of the respondents were nephrologists.
- Top 5 countries of respondents:



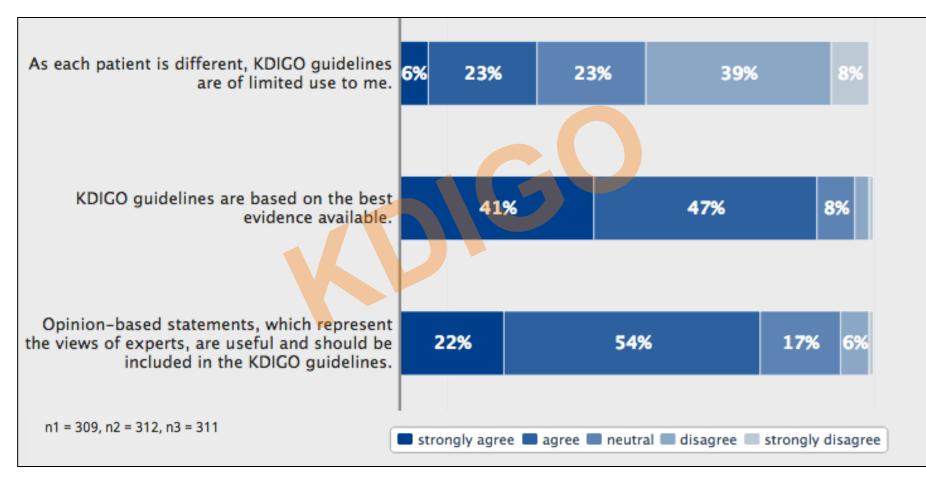


Do you agree with these statements?



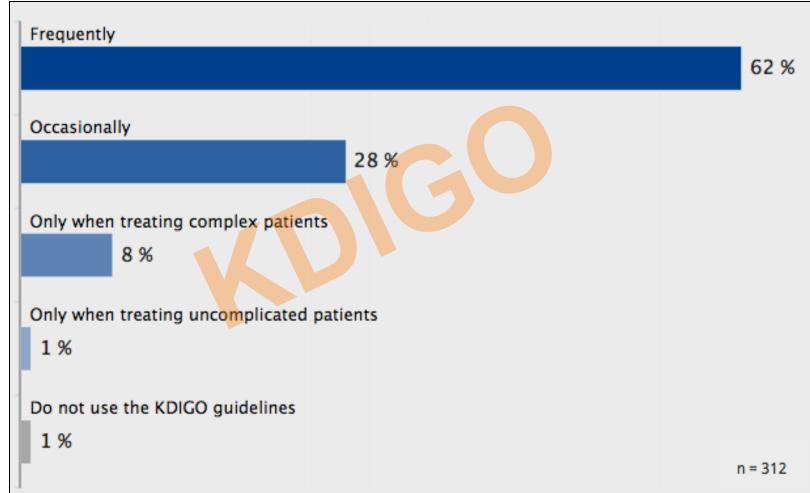


Do you agree or disagree with these statements?



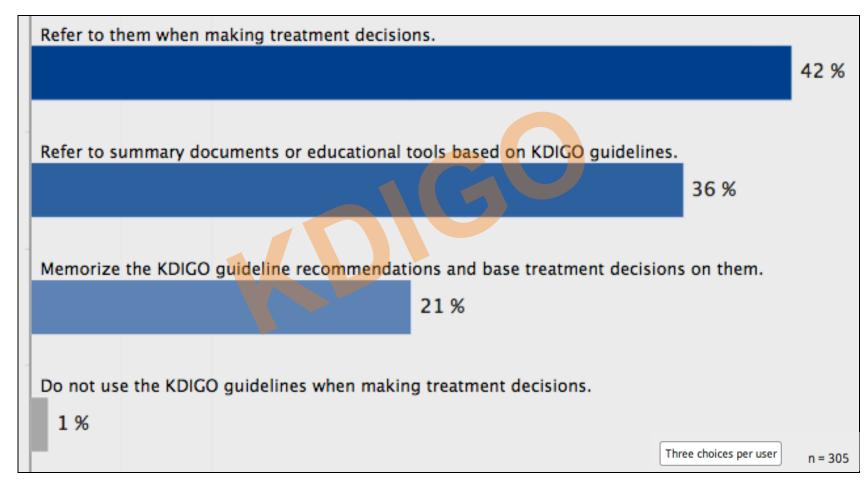


How often do you and your colleagues refer to the KDIGO guidelines to support treatment decisions?



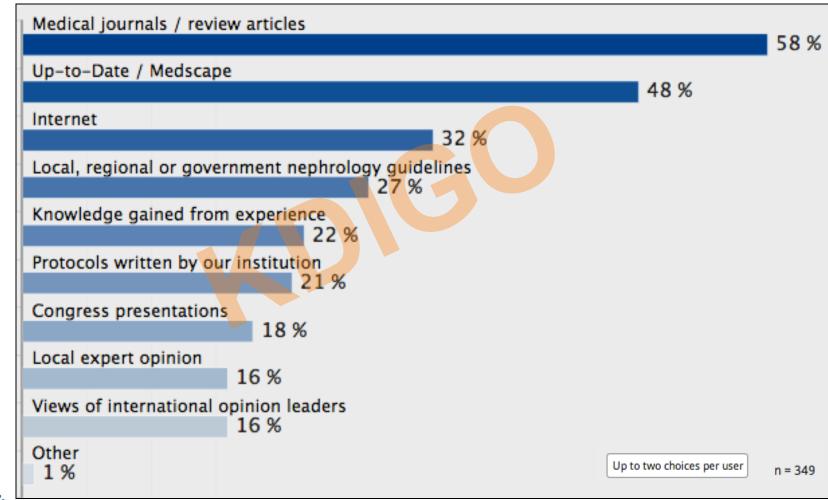
HUDNEY DISKY

Which one of these statements best describes how you and your colleagues use the KDIGO guidelines in the care of patients?





If you and your colleagues do not use the KDIGO guidelines, what other sources of information are used for treatment decisions?



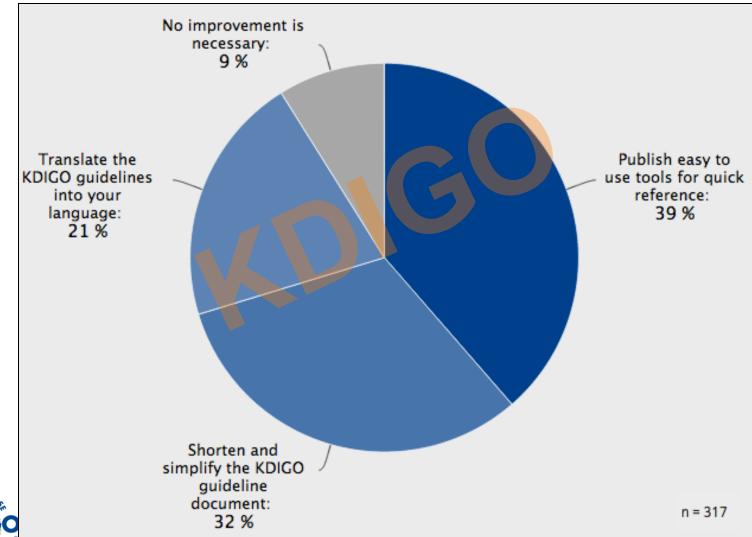


If you and your colleagues do not use the KDIGO guidelines, what are the main reasons?





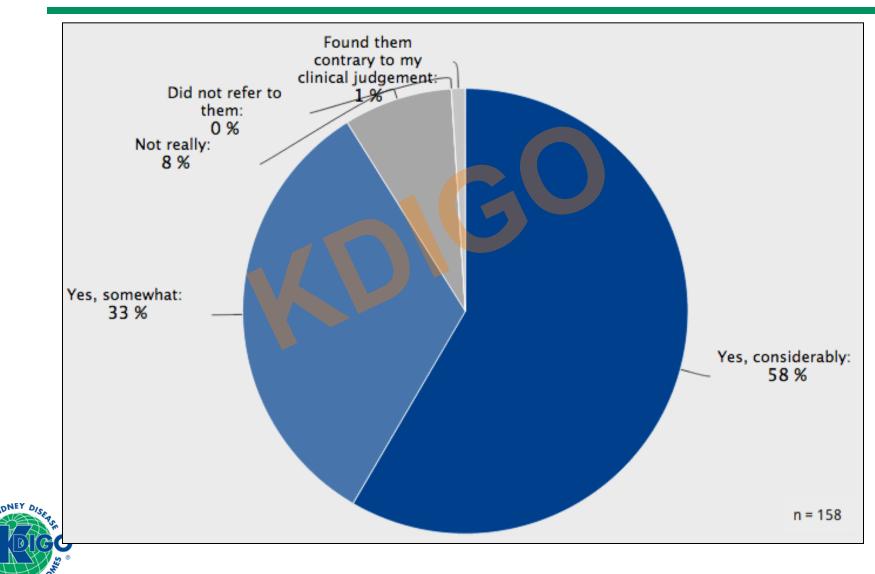
How could the presentation of the KDIGO guidelines be improved to better meet your needs?



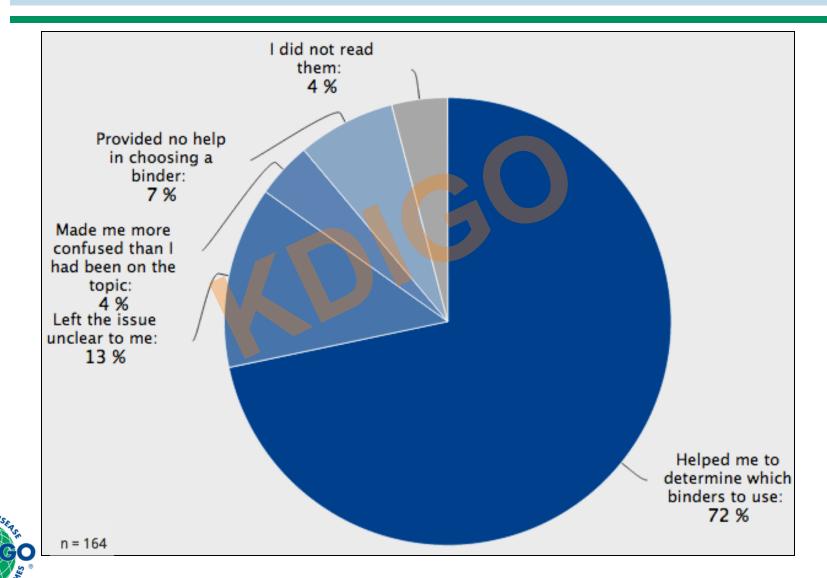


DNEY D

In the 2009 KDIGO CKD-MBD Guideline, did the recommendations on phosphorus control influence your treatment of patients?



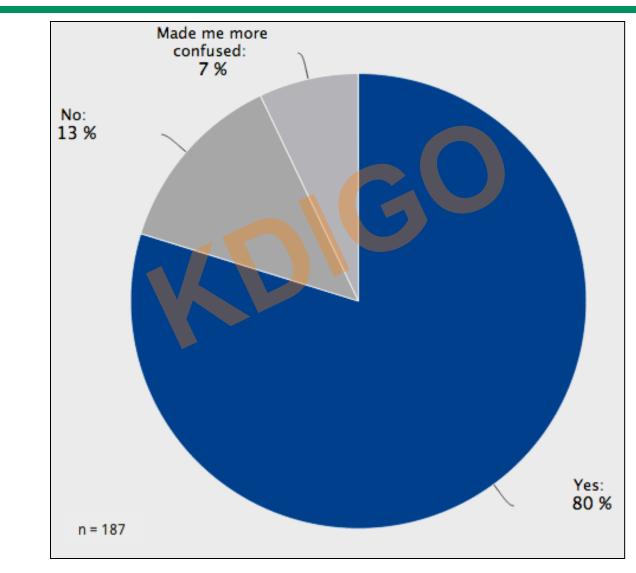
In the 2009 KDIGO CKD-MBD Guideline, the recommendations regarding the use of phosphate binders:



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DNEY D

Did the 2009 KDIGO CKD-MBD Guideline provide sufficient guidance for you regarding the targets for blood levels of calcium, phosphorus and PTH?



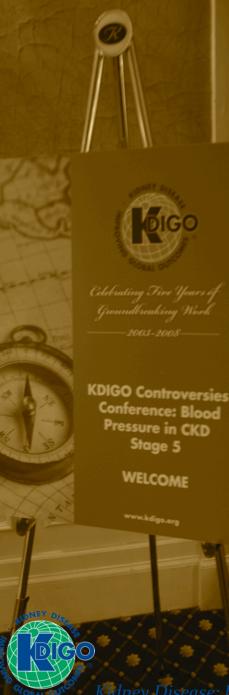


Kidney Disease: Improving Global Outcomes

Implementation survey highlights

- KDIGO Guidelines are used as a primary reference by nephrologists.
- KDIGO Guidelines would be preferred in shorter, more concise formats such as booklets and pocket guides.
- When KDIGO Guidelines are not used, the primary sources for information include peer-reviewed journal articles and Up to Date/Medscape.
- KDIGO Guidelines need to be adapted for local use.





Where do we go from here?

Controversies Conferences

 Examine significant nephrology topics that result in a published position paper to share with the community

Clinical Practice Guidelines

 Develop international, evidence-based guidelines in nephrology

Implementation Task Force

 Promote awareness, dissemination, adoption & clinical integration of guidelines locally, around the world

Clinical Practice Conferences

 Assist in the local dissemination, adaptation and clinical integration of KDIGO guidelines



for your participation and support!

