



CONFERENCE OVERVIEW & OBJECTIVES

Kai-Uwe Eckardt & Brenda Hemmelgarn

CKD - Milestones

2002 KDOQI proposes uniform definition of CKD and staging based on GFR categories

2004 KDIGO proposes global adoption of definition and staging with minor modifications (Amsterdam)

2009 Initiation of CKD Prognosis Consortium

KDIGO Conference on prognosis of patients with CKD based on eGFR and albuminuria categories (London)

2013 KDIGO – CKD Clinical practice guidelines

2016 ISN – 1st Global CKD Summit (Vancouver)



CKD - Classification

		Albuminuria Categories (mg/g creatinine)		
		A1	A2	A3
		< 30	30-300	> 300
GFR Categories (ml/min x 1.73 m ²)	G 1	≥ 90		
	G 2	60-89		
	G 3a	45-59		
	G 3b	30-44		
	G 4	15-29		
	G 5	< 15		
	G 5 D/T	Renal Failure	usually defined by RRT	

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Focus of this conference

CKD G4+ - Why ?

High Risk State – “Code Red“

Critical Transition Phase with Imminent Risk of Kidney Failure

- Uncertainty about strategies to retard CKD progression
- Recognized need for advance care planning
- Uncertainty about benefits and risk of RRT initiation

Understudied Stage of CKD

- Debate and controversies focused on early stage CKD
- Observational studies usually enroll patients at earlier stages of CKD *or* after initiation of dialysis (registries)
- Interventional studies usually exclude stage G4+ patients (*too late to intervene, too risky,....*)

CKD G4+ - Why ?

Huge variability in prevalence rates for RRT between countries

Not sufficiently explained by variability in CKD G4 prevalence

Possible Reasons

- Variability in

> availability of RRT

> disease progression of patients with CKD

> practice patterns

} relevant to the
focus of this meeting



CKD G4+ - Why ?

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Nephrology Responsibility



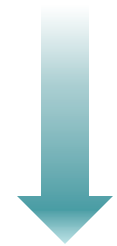
CKD G4+ - Why ?

Expectation

A better understanding of the prevalence and prognosis of patients with CKD G4+ and the factors associated with different outcomes may help to generate hypotheses about optimal treatment strategies in this high risk population, including decision making about initiation of RRT.

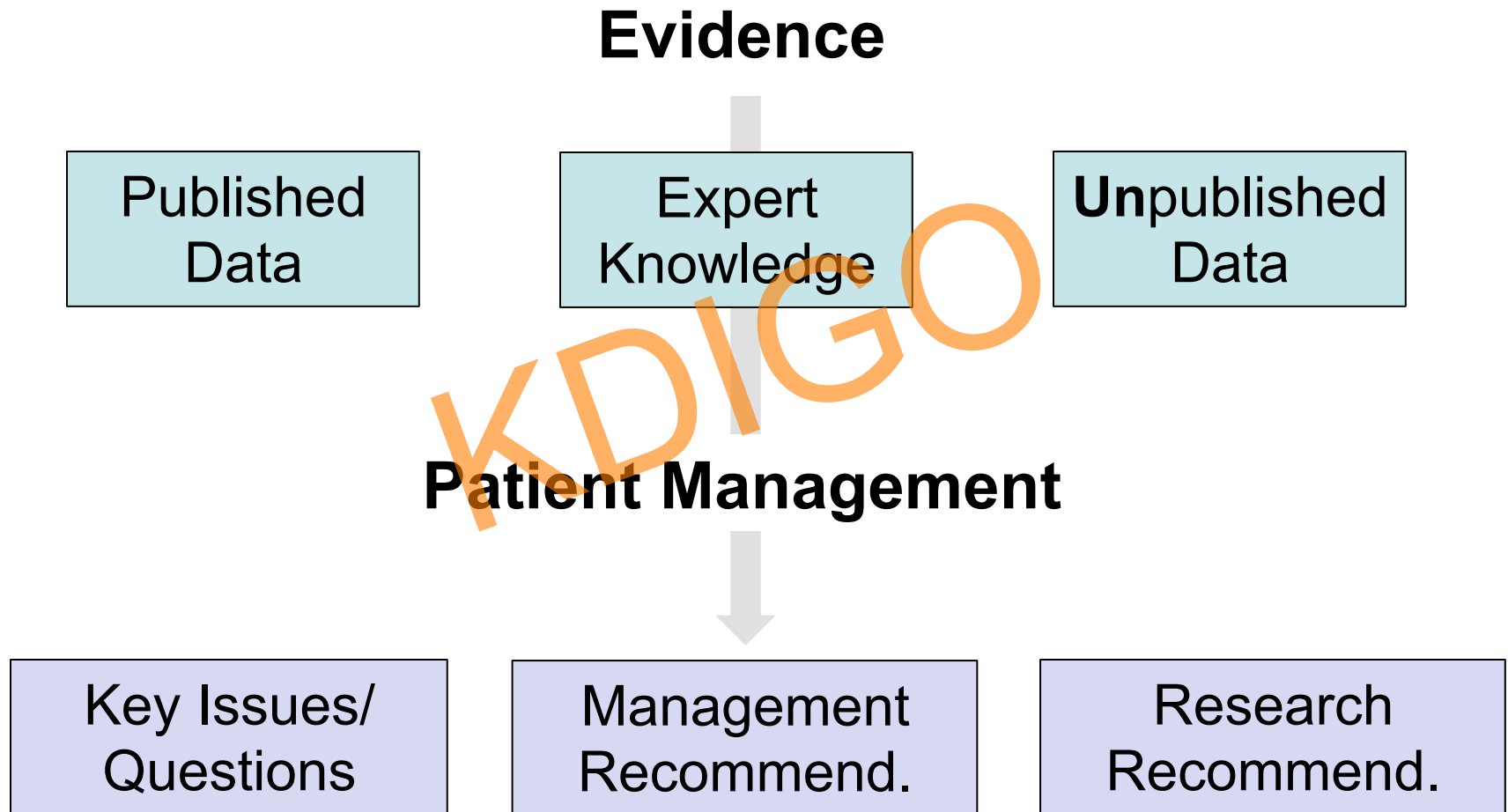
CKD G4+ - Why ?

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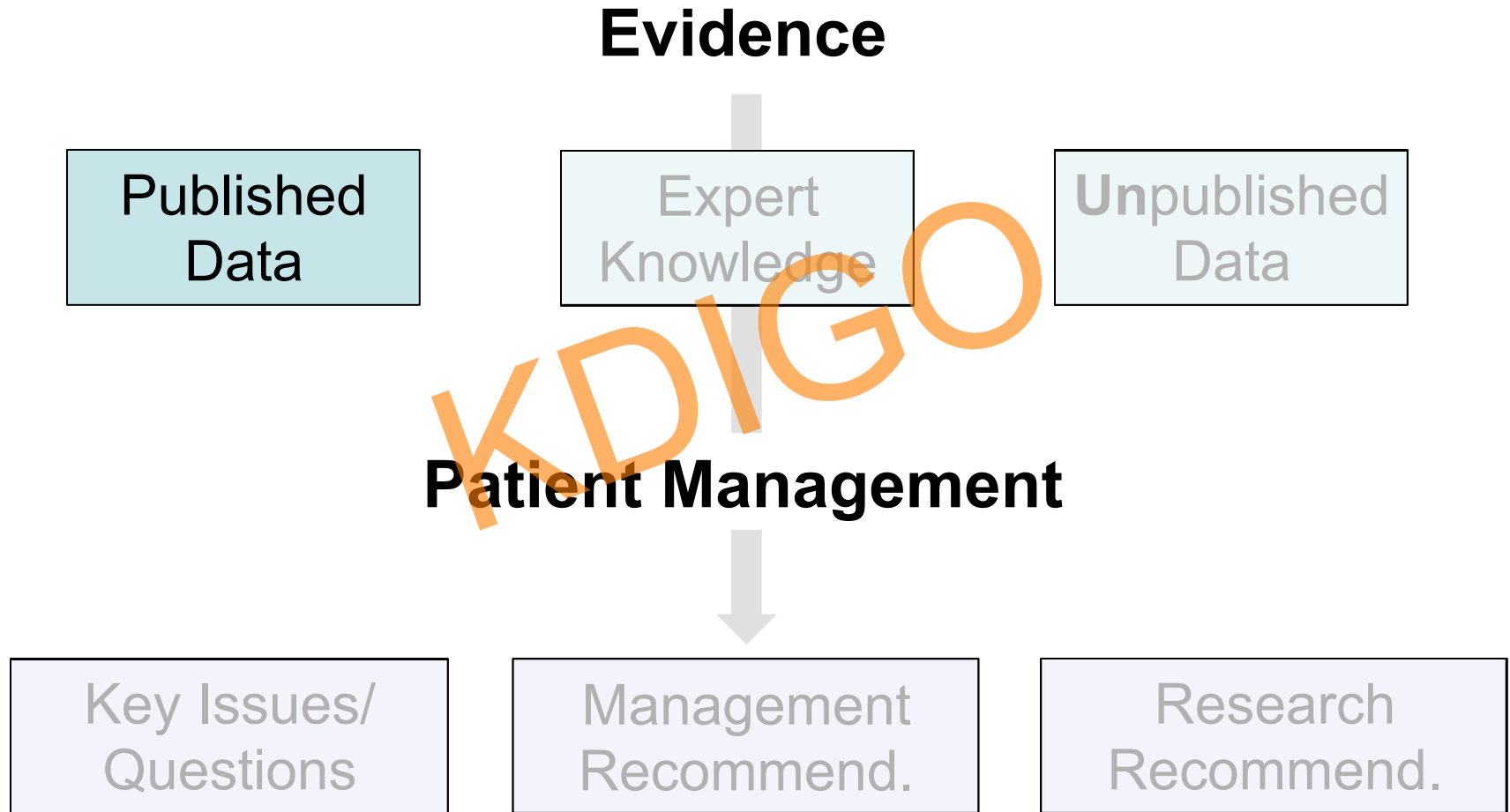


- Approach is based on GFR staging rather than risk categories (excluding G3b A2-3; G3b A3)
- Rational: aim to focus on risk for renal failure and “transition“ to RRT, but potential limitation

CKD G4+ - How ?



CKD G4+ - How ?



CKD G4+ - Published Data

- CKD G4+ Prevalence – Regional Differences
- Strategies to halt CKD Progression in Patients with CKD G4+
- Utility of Biomarkers for Predicting Prognosis in CKD G4+
- Variation in Conditions and Global Practice Patterns in Patients Initiating Dialysis
- Impact of Patient History on Prognosis of Incident Dialysis Patients
- Level of Renal Function at the Time of Dialysis Initiation and the Prognosis of Incident Dialysis Patients
- CKD Models of Care: Nephrologist as the General Manager vs One Member of a Larger Team ?
- Strategies for “Conservative” (Supportive) Management of Renal Failure



CKD G4+ - How ?

Evidence

Published
Data

Expert
Knowledge

**Unpublished
Data**

Patient Management

Key Issues/
Questions

Management
Recommend.

Research
Recommend.

CKD G4+ - Unpublished Data

Objectives:

Obtain novel insights into the prognosis of patients with CKD G4+ through meta-analysis of data from existing cohorts.

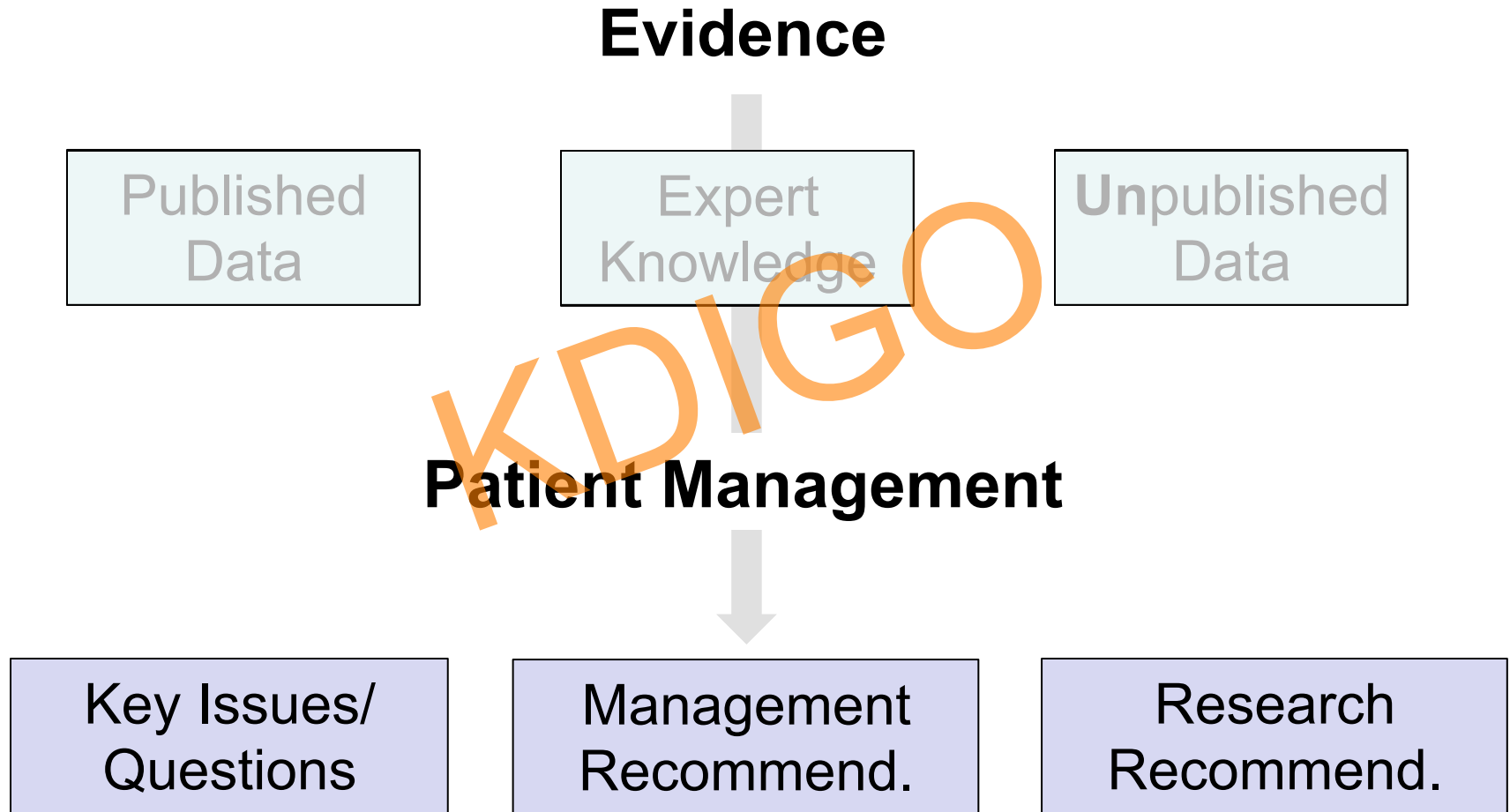
Special emphasis on variability in patient outcomes, competing risks and factors associated with different outcomes.

Approach:

CKD Prognosis Consortium according to established policies with open call for participation.



CKD G4+ - How ?



CKD G4+ - Breakout Groups

- Risk-Based Management of Patients with CKD G4+
- Heart failure in CKD G4+
- Informed Decision-Making for Renal Failure Therapy
- Needs, Opportunities and Challenges for Clinical Trials in Patients with Advanced CKD

All breakout groups should consider prognostic data and patient reported outcomes / HRQOL

CKD G4+ - Comprehensive Approach

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CKD G4+ - Scope Limitations

NOT included:

- Pediatric patients with CKD
- Specific aspects of patients with failing kidney transplants

CKD G4+ - Context

Other KDIGO Conferences

- Supportive/Palliative Care in CKD (Mexico City, 2013)
- Challenges in the Conduct of Clinical Trials in Nephrology (Paris, 2016)
- Heart Failure in CKD (Athens, 2017)



CKD G4+ - Agenda day 1

Plenary Session #1:

Location: Sal3n Barcelona

- | | |
|-------------------|---|
| 09:00 – 09:45 hrs | Prognosis of CKD 4+: Overview of Analytical Plan Methodology and General Findings
Presenters: Joe Coresh & Morgan Grams |
| 09:45 – 10:00 hrs | Q&A |
| 10:00 – 10:20 hrs | Prevalence of CKD 4+: Regional Differences
Presenter: Kitty Jager |
| 10:20 – 10:40 hrs | Utility of Biomarkers for Prognosis in CKD G4+
Presenter: Lesley Inker |
| 10:40 – 10:55 hrs | Q&A |
| 10:55 – 11:05 hrs | Break |
| 11:05 – 11:25 hrs | CKD Models of Care: Nephrologists as the General Manager vs One Member of a Larger Team?
Presenter: Amy Williams |
| 11:25 – 11:45 hrs | Strategies for “Conservative” (Supportive) Management of Renal Failure
Presenter: Greg Obrador |
| 11:45 – 12:15 hrs | Q&A |
| 12:15 – 13:15 hrs | Lunch
Location: Restaurante Hotel |



CKD G4+ - Agenda day 1

Plenary Session #2: CKD-PC Analyses

Location: Salón Barcelona

- 13:15 – 14:00 hrs **CKD-Prognosis Consortium Analysis: Risk Prediction Modeling, Heterogeneity and Limitation**
Presenter: Joe Coresh & Morgan Grams
- 14:00 – 15:00 hrs **CKD-PC Data Analysis: Implications and Questions for Topic Groups**
Presenters: Joe Coresh & Morgan Grams
- 15:00 – 15:30 hrs **Q&A**
- 15:30 – 15:45 hrs **Break**
- 15:45 – 16:00 hrs **Remarks from Conference Chairs and Remit for Breakout Session #1**
Presenters: Kai-Uwe Eckardt & Brenda Hemmelgarn
- 16:00 – 18:00 hrs **Breakout Session #1:**
- Risk-Based Management of Patients with CKD G4+**
Discussion Leaders: Matthew James & Paul Stevens
Location: Salón Barcelona
- Heart Failure in CKD G4+**
Discussion Leaders: Nisha Bansal & Chuck Herzog
Location: Salón Mérida
- Informed Decision-Making for Renal Failure Therapy**
Discussion Leaders: Manjula Tamura & Carol Pollock
Location: Salón Estocolmo
- Needs, Opportunities and Challenges for Clinical Trials in Patients with Advanced CKD**
Discussion Leaders: Hidde Lambers Heerspink & Cello Tonelli
Location: Salón L'Auditori
- 18:00 hrs **Adjourn (free evening)**



CKD G4+ - Agenda day 2

Plenary Session #3

Location: Saló Barcelona

- 08:30 – 08:50 hrs **Strategies to Halt CKD Progression in Patients with CKD G4+:
What is the Evidence?**
Presenter: Navdeep Tangri
- 08:50 – 09:10 hrs **Variation in Conditions and Global Practice Patterns in Patients
Initiating Dialysis**
Presenter: Bruce Robinson
- 09:10 – 09:30 hrs **Impact of Patient Characteristics on Prognosis of Incident Dialysis
Patients**
Presenter: Csaba Kovcsdy
- 09:30 – 09:50 hrs **Level of Renal Function at the Time of Dialysis Initiation and the
Prognosis of Incident Dialysis Patients**
Presenter: David Harris
- 09:50 – 10:15 hrs **Q&A**
- 10:15 – 10:30 hrs **Breakout Session Remit**
Presenters: Kai-Uwe Eckardt & Brenda Hemmelgarn
- 10:30 – 10:45 hrs **Break**
- 10:45 – 12:30 hrs **Breakout Session #2**
- 12:30 – 13:30 hrs **Lunch**
Location: Restaurante Hotel

Breakout Group Preliminary Reports and Discussion

- 16:00 – 18:00 hrs **Breakout Session #3:**

