

Acknowledgments

A special debt of gratitude is owed to the current KDIGO Co-Chair Kai-Uwe Eckardt, founding Co-Chairs Garabed Eknoyan and Norbert Lameire and the KDIGO Board for their invaluable guidance throughout the development of this guideline. We also thank the efficient support provided by the Kidney Disease: Improving Global Outcomes/National Kidney Foundation (KDIGO/NKF) staff that was instrumental to the success of this endeavor, particularly Michael Cheung, Donna Fingerhut and Dekeya Slaughter-Larkem. In particular, we thank the Evidence Review Team members: Ethan Balk, Martin Wagner, Amy Earley, Gowri Raman and Sam Abariga, for their substantial contribution to the rigorous assessment of the available evidence. We are also especially grateful to the Work Group members for their expertise throughout the entire process of literature review, data extraction, meeting participation, the critical writing and editing of the statements and rationale which made the publication of this guideline possible. The generous gift of their time and dedication is greatly appreciated.

Finally, and on behalf of the Work Group, we gratefully acknowledge the careful assessment of the draft guideline by external reviewers. The Work Group considered all of the valuable comments made and where appropriate, suggested changes were incorporated into the final publication. The following individuals and organizations provided review of the draft guideline:

Kevin Abbott (Walter Reed Medical Center), Omar I Abboud, Mario Abbud-Filho (Instituto de Urologia & Nefrologia), Daniel Abramowicz (Hôpital Erasme; European Renal Best Practice), Nasrulla Abutaleb, Vidya N. Acharya (National Kidney Foundation/India), Horacio E. Adroque (University of Texas Medical Branch), Mona Al-Rukhaimi (Dubai Hospital), Josefina Alberú (Instituto Nacional De Ciencias Medicas Y. Nutricion S Z), Upton Allen (Hospital for Sick Children), Farhana Amanullah (Sindh Institute of Urology and Transplantation), American Society of Transplantation, American Society of Transplant Surgeons, Mariano Arriola, Richard Baker (UK Renal Association), Ashraf Bakr (Mansoura Faculty of Medicine), Rashad S. Barsoum (Cairo University), Gregor Bartel, Scott Batty (Genzyme), Yolanda Tai Becker (University of Wisconsin), Luboslav Bena, Mohamed Benghanem Gharbi (Ibn Rochd Quartier des Hospitaux), Bassam Bernieh (Tawam Hospital), Emily A. Blumberg (University of Pennsylvania), Daniel C. Brennan (Washington University), Brenda S. Brewer (NATCO), Bristol-Myers Squibb, Ghil Busnach, Evelyn Butera, Canadian Society of Nephrology, Canadian Society of Transplantation, Marcelo Cantarovich (McGill University Health Center; The Transplantation Society Council), Fernando Carrera (Hospital SAMS), Sue Cary (American Nephrology Nurses Association), Valerie Cass (McGill University Health Center), Blanche M. Chavers (University of Minnesota), Pierre Cochat (Hospices Civils de Lyon et Université de Lyon; European Renal Best Practice), Jean Colaneri (American Nephrology Nurses Association), William G. Couser (University of Washington), Ana Cusumano (Latin American Society of Nephrology and Arterial Hypertension), Romina A. Danguilan (National Kidney and Transplant Institute), Gabriel M. Danovitch (David Geffen School of Medicine, UCLA), Jane Davis (University of Alabama), Jean-Yves De Vos (AZ Werken Glorieux Dialysis Unit), Ian Dittmer (Auckland City Hospital), Grahame Elder (Westmead Hospital), Donna L. Ennis (NATCO), Tracy A. Evans-Walker (NATCO), Jeffrey Fadrowski (Johns Hopkins University School of Medicine), Randall J. Faulk (Australian and New Zealand Society Of Nephrology), Stuart M. Flechner (Cleveland Clinic), Joseph T. Flynn (Seattle Children's Hospital; American Society of Pediatric

Nephrology), Patricia G. Folk (The International Transplant Nurses Society), Lorenzo G. Gallon (Northwestern University Feinberg School of Medicine), Alvaro A. Garcia, Valter D. Garcia (Brazilian Association of Organ Transplantation), Rozina Ghazalli (Penang Hospital), Osama Gheith, Elaine Go (St Joseph Hospital), Simin Goral (University of Pennsylvania), Darla K. Granger (American Society of Transplant Surgeons), Debbie Gregory (Renal Society of Australasia), Sinead Gregory (Roche Diagnostics), Ann P. Guillot (University of Vermont), William E. Haley (Mayo Clinic), Judith Hambleton (Rogosin Institute), Jeff Harder (University of Washington), Erica L. Hartmann (American Society of Transplantation), Susan Hayes (S Hayes Consulting), Rebecca Hays (University of Wisconsin Hospital), Domingo Hernandez-Marrero (Hospital Regional Universitario Carlos Haya), Hans H. Hirsch (University Hospital Basel), Hallvard Holdaas (Oslo University Hospital Rikshospitalet), Herwig Holzer (Medical University, Graz), Chakko K. Jacob (Christian Medical College and Hospital), Michel Jadoul (Cliniques Universitaires St Luc), Michelle James (University of Minnesota), Alan Jardine (UK Renal Association), Pradeep V. Kadambi (University of Chicago), Nada Kanaan, Bruce Kaplan (University of Arizona School of Medicine), Frederick J. Kaskel (Children's Hospital at Montefiore), Tammy Keough-Ryan (Dalhousie University), Ron H. Kerman (University of Texas Medical School), Markus Ketteler (Klinikum Coburg), Allan D. Kirk (Emory University Hospital), Greg A. Knoll (Canadian Society of Transplantation), Stephan Korte (Novartis), Andreas Kribben (Universitätsklinikum Essen), K. Sampath Kumar (Meenakshi Mission Hospital), Dirk Kuypers (University Hospitals Leuven), Sondra Kybartiene, Jack Lake (University of Minnesota), Craig B. Langman (Northwestern University Feinberg School of Medicine), Anastasia Laskari, Daniel Lavanchy (World Health Organization), Edgar V. Lerma (University of Illinois at Chicago College of Medicine), Zhi-Hong Liu (Nanjing University School of Medicine), Francesco Locatelli ('A. Manzoni' Hospital; European Renal Best Practice), Robert MacTier (UK Renal Association), Samir G. Mallat, Kevin C. Mange (Novartis), Martin Maraschio (Hospital Privado Centro Médico De Córdoba S.A.), Pablo U. Massari (Catholic University of Córdoba), Arthur Matas (University of Minnesota), Dianne McKay (Scripps Research Institute), Enisa Mesic (University Medical Center Tuzla), Marian G. Michaels (Children's Hospital of Pittsburgh), Mark Mitsnefes (Cincinnati Children's Medical Center), Rafique Moosa (University of Stellenbosch), Jose M. Morales (Hospital Privado Doce De Octubre), Alfredo Mota (Coimbra University Hospital), Barbara T. Murphy (Mount Sinai School of Medicine; American Society of Transplantation), Judit Nagy (Hungarian Society of Nephrology), Nancy Nardelli (Medical City Dallas Hospital), Alicia M. Neu (Johns Hopkins University School of Medicine), Joseph Nogueira (University of Maryland), Ole Oyen (Rikshospitalet University Hospital), Fatma N. Ozdemir (Baskent University), Alejandro Lucas Penagos, Ronald Perrone (Tufts Medical Center), Todd E. Pesavento (Ohio State University; United Network for Organ Sharing), Mark Pescovitz (Indiana University), Thomas G. Peters (University of Florida Health Science Center), Helen Pilmore (Auckland City Hospital), Lee Po-Chang, G.V. Ramesh Prasad (University of Toronto), Erasmia Psimenou, Ruth Rahamimov (Belinson Medical Center), Harun Ur. Rashid (Bangladesh Renal Association), Luis Re, Rafael Reyes (Hospital Miguel Hidalgo), Sally I. Rice (University of Louisville), John P. Roberts (American Society of Transplant Surgeons), Bernardo Rodriguez-Iturbe (Hospital Universitario and Universidad del Zulia, Maracaibo), Lionel Rostaing (Toulouse University Hospital), Mahmoud Sadeghi, Kaija Salmela (Helsinki University Central Hospital), John D. Scandling (Stanford University Medical Center), Heidi Schaefer (Vanderbilt University Medical Center), Tammy Sebers (Oregon Health and Science University), Myra Sgorbini, Ayo Shonibare (St Nicholas

Acknowledgments

Hospital), Christopher O. Simon (Independent Dialysis Foundation), Ammar Sirawan (Ajn W Sein Hospital), Dhavée Sirivongs (Khon Kaen Medical School), William T. Smith (Wyeth), Edison Souza, Goce B. Spasovski (University Clinical Center, Skopje; European Renal Best Practice), William P. Stamford, Sharon Swofford (American Nephrology Nurses Association), Hiroshi Toma (Tokyo Women's Medical University), Yvette Tomacruz (National Kidney and Transplant Institute), Marcello Tonelli (University of Alberta; Canadian Society of Nephrology), Armando Torres (Universidad de La Laguna), Ray Trevitt (EDTNA/ERCA), Lara E. Tushla (Society for Transplant Social Workers), Ray Vanholder (University Hospital, Ghent; European Renal Best Practice), Joseph Vassalotti (National Kidney Foundation), Ruben L. Velez (Dallas Nephrology Associates), Alberto Vianello (Feltre General Hospital), Jelka Zaletel Vrtovec, Sean Wagner, Yi Wang, Bruno Watschinger (Medizinische Universität Wien), Willem Weimar (University Medical Center Rotterdam), Matthew R. Weir (University of Maryland), Barbara Weis Malone (University of Colorado), José R. Weisinger (Baptist Health South Florida),

Patricia Weiskittel (American Nephrology Nurses Association), Kerstin W. Westman (University Hospital of Malmö), David C. Wheeler (University College London Medical School), Anne Wiland (Novartis), Alan Wilkinson (David Geffen School of Medicine, UCLA), Alexander Wiseman (University of Colorado; American Society of Transplantation), Germaine Wong (Children's Hospital at Westmead), David Wu (Wyeth), Chul Woo Yang (Catholic University of Korea), Jo-Anne Young (University of Minnesota), Carlton J. Young (University of Alabama), Zhu Zhou, Carmine Zoccali (Ospedali Riuniti; European Renal Best Practice).

Participation in the review does not necessarily constitute endorsement of the content of this report by above individuals, or the organization or institution they represent.

Bertram L. Kasiske, MD, Work Group Co-Chair
Martin G. Zeier, MD, Work Group Co-Chair