The AusDiab Study

This following is selected publications resulting from the AusDiab Kidney Study, grouped by area. The list seeks to provide an overview and is not all inclusive. In addition to key AusDiab-Kidney papers, this list includes papers which arose through collaborative efforts whereby AusDiab contributed to pooled data, most importantly and strategically through the CKD-Prognosis Consortium, or served to provide an Australian adult control population for comparative studies with indigenous Australians and with kidney transplant recipients as examples. Both avenues will continue to provide important papers, with ongoing collaborative work in train through the CKD-Prognosis Consortium and with ANZDATA.

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Epidemiology of CKD in the General Australian Community


White SL, Polkinghorne KR, Atkins RC, Chadban SJ. Comparison of the prevalence and mortality risk of CKD in Australia using the CKD Epidemiology Collaboration (CKD-EPI) and Modification of Diet in Renal Disease (MDRD) Study GFR estimating equations: the AusDiab (Australian Diabetes, Obesity and Lifestyle) Study. Am J Kidney Dis. 2010 Apr;55(4):660-70. Among the 10 most frequently cited papers from AJKD in 2010, this paper highlighted the benefits of CKD-EPI eGFR over MDRD in avoiding mis-classification in defining CKD (227 cites)


White SL, Yu R, Craig JC, Polkinghorne KR, Atkins RC, Chadban SJ. Diagnostic accuracy of urine dipsticks for detection of albuminuria in the general
This paper clearly reveals the potential of urine dipstick for detection of CKD.


Barr EL, Reutens A, Magliano DJ, Wolfe R, Lu ZX, Sikaris KA, Tanamas SK, Atkins R, Chadban S, Shaw JE, Polkinghorne KR. Cystatin C estimated glomerular filtration rate and all-cause and cardiovascular disease mortality risk in the
An exploration of CyC-based eGFR equations as an alternative to creatinine based eGFR for detection of CKD in Australia – the cost utility of CyC is not sufficient to justify its use over creatinine-based formulae for eGFR

These papers explored the associations between vitamin D status and CKD prevalence and incidence in Australia.

Lifestyle and CKD in Australia

These papers highlight the association between measures of sedentary behaviour and CKD in Australia and thereby deliver a powerful public health message – physical activity is important to prevent CKD, just as it is for other chronic non-communicable diseases.


CKD in Indigenous Australians

Hoy WE, Kondalsamy-Chennakesavan S, Wang Z, Briganti E, Shaw J, Polkinghorne K, Chadban S; AusDiab Study Group. Quantifying the excess risk for proteinuria,


AusDiab International Collaborations


Burden of CKD in Australia, and Globally

Whilst the burden of treated ESKD has been well appreciated, this analysis found that the cost of CKD is likely 4-fold greater.


Australian collaborations


Villar E, Polkinghorne KR, Chang SH, Chadban SJ, McDonald SP. Effect of type 2 diabetes on mortality risk associated with end-stage kidney disease. Diabetologia. 2009 Dec;52(12):2536-41. Here we selected AusDiab participants with T2DM as a control group to enable comparison to those with T2DM and ESKD as
captured by the ANZDATA registry and demonstrated that people with T2DM who receive dialysis or transplantation exhibit superior survival, indicating likely selection bias in the provision of renal replacement therapy.

CKD Policy and Practice