



Appendix C

Guideline Comparison

Comparison of KDOQI, ADA, and JNC-VII Guidelines. Focus on CKD-Related Guidelines

KDOQI (NGC, from Am J Kidney Dis 2002 Feb)	ADA (in “Standards of Medical Care,” Diabetes Care 30 (suppl) 2007 Jan)	JNC-VII
#1: Definition and Stages of CKD defined by GFR		
<p>#2: Evaluation and Treatment.</p> <ol style="list-style-type: none"> 1. CKD patients should be evaluated for diagnosis, comorbidities, severity, complications, risk for loss of kidney function, risk for CVD 2. Treatment of CKD should include dx-based therapy, E&M of comorbidities, slowing loss of kidney function, prevention and treatment for CVD, cx of dec. kidney function, preparation for replacement, and replacement/transplant 3. Develop clinical action plan. 4. Review medication 5. Incorp. S/M into tx plan 6. Referral to nephrologist for eGFR<30 	<p>V.A. The comprehensive diabetes examination includes, among other components, tests for microalbuminuria and serum creatinine (and calculation of eGFR)</p>	<p>Physical exam should include... examination of the abdomen for enlarged kidneys, masses, and abnormal aortic pulsation...</p> <p>Routine laboratory tests recommended before initiating therapy include ...blood glucose and hematocrit; serum potassium, creatinine (or the corresponding estimated glomerular filtration rate [GFR]), and calcium; and a lipid profile... Optional tests include measurement of urinary albumin excretion or albumin/creatinine ratio..</p>
#3: Patients at increased risk for CKD should be assessed		

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<p>#4: eGFR should be used for assessment.</p> <p>Serum creatinine alone is insufficient</p> <p>Labs should report eGFR in addition to creatinine</p> <p>Timed GFR necessary only in exceptional circumstances</p>		
<p>#5: Assessment of proteinuria.</p> <p>Spot urine for most circumstances</p> <p>Dipsticks acceptable in most; if positive, confirm using quantitative w/in 3 mos.</p> <p>Adults: screen using albumin-specific of albumin to creatinine; monitor CKD patients using albumin-to-creatinine</p> <p><i>More details that specifically relate to children</i></p>		<p>Serum potassium and creatinine should be monitored at least 1–2 times/year.</p>
<p>#6: CKD markers other than proteinuria</p> <p>a. urine sediment or red/white blood dipstick for CKD or at risk for CKD</p> <p>b. kidney imaging for CKD or at risk for CKD</p> <p>c. other markers show promise; not ready yet</p>		
<p>#7: GFR and HTN</p> <p>a. monitor BP for all with CKD</p> <p>b. treat HTN using target BP, nonpharm therapy, and specific Rx agents (see GL 13 and GL 15)</p>	<p>VI.A.1 Measure BP at each visit</p> <p>Goal of 130/80</p> <p>ACE/ARB</p>	
<p>#8: GFR and anemia</p> <p>Evaluate GFR<60 for anemia, incl. hemoglobin</p>		
<p>#9: GFR and nutrition</p> <p>GFR<60 assess protein and energy intake</p>	<p>V.D. Consultation with RD, weight loss, reduce fat/carb intake</p>	
<p>#10: Bone disease and Ca and Ph metabolism</p> <p>GFR<60 evaluate for bone disease</p>		

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#11: Neuropathy Assess CKD patients for neurologic involvement	VI.D Annual screen	
#12: GFR and functioning GFR<60 assess for functioning and well-being		
#13: CKD progression a. assess GFR decline b. estimate rate of decline c. intervene with all CKD patients: glucose control for diabetics, BP control, ACE/ARB. (Protein restriction, lipid-lowering, and partial correction of anemia inconclusive) d. Prevent and correct acute decline due to common causes: volume depletion, IV radio contrast, some antimicrobial Rx, NSAIDs, use of ACE/ARBs, cyclosporine/tacrolimus, urinary tract obst. e. Annually measure eGFR, more often for GFR<60, history of rapid decline (>4/year), risk factors for rapid progression, treatment for progression, risk of acute GFR decline	VI.A.1 Measure BP at each visit Goal of 130/80. ACE/ARB VI.B To slow CKD progression, optimize glucose and BP control. All diabetics: annual test for microalbuminuria; annual serum creatinine (to yield eGFR, the best method for evaluating kidney function)	CKD defined by eGFR<60 and/or albuminuria Target BP 130/80. ACE/ARB recommended; temporary creatinine increase of up to 35 percent OK unless hyperkalemia develops. For eGFR<30, loop diuretics recommended.
#14: CKD & diabetes a. CKD with diabetes: follow published guidelines for diabetics b. ACE/ARB particularly important c. CKD have “higher risk” of diabetic c/c	VI.B. For treating micro/macroalb., ACE/ARB unless pregnant. Reduce protein intake Monitor serum potassium if taking ACE/ARB Cont. surv. of microalb/proteinuria Refer to expert in diabetic/renal if eGFR<60. <i>Refer to nephrologist if eGFR<30 (in text, not a guideline)</i>	Thiazide diuretics, BBs, ACEs, ARBs, and CCBs
#15: CKD and CVD CKD are highest risk for CVD Measure CKD for “traditional” CVD risk	VI.A annual lipid panel. Statins recommended for most patients.	

