Kidney Failure Risk Tools & Referral Pathways

Kidney Disease Referral Pathway

kidneyhealth.ca
manitoba renal program

Risk Factors

- Diabetes Mellitus
- Cardiovascular Disease
- Urinary tract abnormalities including reduced renal mass
- Known systemic auto immune disorders such as SLE
- Excessive use of known toxins such as analgesics (NSAIDs), lithium and others
- Hypertension
- Family history of kidney disease
- High risk ethnic groups e.g. First nations

Screening for at risk individuals (annual):

- History and physical examination with blood pressure assessment
- eGFR from serum creatinine (ml/min/1.73m^2)
- Urinalysis, and spot urine for albumin/creatinine (ACR)

If abnormal eGFR OR ACR >50 mg/mmol OR hematuria, order Renal Ultrasound and CBC, serum urea, electrolytes – Na, K, Cl, HCO3, calcium, phosphate, glucose, albumin. If over 40 y/o obtain serum and urine protein electrophoresis.

ALSO

If diabetic see: **Diabetic Nephropathy Management Guidelines**

If non-diabetic see: **Non-Diabetic CKD Management Guidelines**

If eGFR <15 → Y → If patient with life-threatening uremic symptoms such as severe hyperkalemia or acidosis, pulmonary edema, encephalopathy, pericarditis.

- Y → **Refer to Nephrology EMERGENT**. Page nephrologist or/and send patient to ER
- N → **Refer to Nephrology,** Repeat eGFR and serum electrolytes at least Q 1-4 weeks until seen by nephrology.

If eGFR 15-59.9 → Y → Repeat eGFR from serum creatinine, urea, electrolytes – Na, K, Cl, HCO3, ACR at least once within 2 weeks. **Calculate KFRE.**

ACR <100 mg/mmol → Y → Repeat eGFR from serum creatinine, urea, electrolytes – Na, K, Cl, HCO3, ACR at least once within 2 weeks. **Calculate KFRE.**

Repeat eGFR from serum creatinine, urea, electrolytes – Na, K, Cl, HCO3, ACR at least once within 2 weeks. **Calculate KFRE.** → If eGFR declines by > 20% in 1- 30 days **OR** decreases > 10% /yr **OR** eGFR < 30 **OR** KFRE >3% / 5 years

- Y → **Refer to Nephrology.** Repeat eGFR and serum electrolytes at least Q 1-4 weeks until seen by nephrology.
- N → For eGFR > 60 repeat blood and urine tests every 6-12 mos. For eGFR 30-59 repeat blood and urine tests every 3-6 mos. For eGFR 15-29 repeat blood and urine tests every 1-3 mos. Repeat U/A, ACR, eGFR from serum creatinine, urea, electrolytes – Na, K, Cl, HCO3, calcium, phosphate, albumin, CBC

ACR >100 mg/mmol → Y → **Refer to Nephrology.** Repeat eGFR and serum electrolytes at least Q 1-4 weeks until seen by nephrology.

If Hematuria(≥ 3 RBCs on 2 specimens) → Y → See Hematuria Pathway

N.B. See 'Assessment of Proteinuria'

1 - KFRE - Kidney Failure Risk Equation 2 - eGFR units - ml/min/1.73m2

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