

Klinrisk

NOW AVAILABLE IN ONTARIO

Information for Health Care Providers

Chronic kidney disease (CKD) is a significant health problem in Canada that affects about 1 in 10 Canadians, and most are unaware of it.¹ Understanding the risk of CKD progression and actively managing patients at risk can slow the progression to kidney failure. LifeLabs is partnering with Klinrisk, a research-based company, to exclusively offer an algorithm-based risk stratification tool to measure kidney failure progression at early stages of CKD for at-risk patients. The algorithm generates a score for every patient with CKD, which can help guide decisions about referrals, treatments, and goals of care.

WHEN TO ORDER KLINRISK

The Klinrisk algorithm is a machine learning model based on results from routine blood and urine tests.^{2,3} It generates a score for every patient with CKD, helping guide decisions about referrals, treatments, and goals of care, ultimately helping reduce the risk of developing end-stage kidney disease. It predicts the progress of kidney disease before kidney function is lost. Klinrisk is the next generation solution for prognosis in kidney disease, built on a foundation of lab data from large national and international population health repositories with published complete data from healthcare systems.

Klinrisk should be ordered for patients that fall under the following high-risk group categories:

- Diabetes
- High blood pressure
- Glomerulonephritis
- Polycystic kidney disease
- Urinary tract obstruction
- Recurrent kidney stones
- Drug- and medication-induced kidney problems

BENEFITS OF CHOOSING LIFE LABS FOR KLINRISK TESTING



LifeLabs is pleased to introduce Klinrisk in Ontario as an algorithm based next generation solution that predicts the progress of kidney disease before kidney function is lost



As Canada's largest community lab, we are industry leaders in ensuring exceptional quality testing in our state-of-the-art facilities, competitive pricing and quick turnaround times allowing you to get the important diagnostic information you need, when you need it

HOW TO ORDER

To order Klinrisk, please download the pre-populated requisition by scanning the QR code below. The pre-populated requisition can also be downloaded from the [requisitions page on LifeLabs.com](#) and the Klinrisk test page at [LifeLabs.com/klinrisk](#).



Scan the code to access the Klinrisk requisition form.

Please note the following:

- This test is only available for patients who are \geq 18 years of age
- Please ensure that the information at the top of the requisition is complete including all patient demographics; Klinrisk cannot be performed without the patient's date of birth and sex
- The patient should not fast for this test
- The following **16 pre-selected laboratory tests** must be ordered to perform the Klinrisk algorithm:

Hematology	
CBC	
Blood chemistry	
Random Glucose	Bilirubin
Creatinine (eGFR)	Albumin
Urea (BUN)	Calcium
Sodium	Magnesium
Potassium	Chloride
ALT	Phosphate
Alk. Phosphatase	Carbon Dioxide (Bicarbonate)
Urine chemistry	
Albumin/Creatinine Ratio	

Patients can visit any LifeLabs patient service centre to have their blood and urine samples collected.

www.LifeLabs.com/Klinrisk

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REFERENCE RANGE AND RESULTS REPORTING

Klinrisk reference ranges and associated risk of disease progression:

- **Low Risk Score:** 0 to 5 % risk over 5 years
- **Medium Risk Score:** 6 to 24 % risk over 5 years
- **High Risk Score:** 25+ % risk over 5 years

In addition, for diagnosis and staging in CKD - eGFR and albuminuria are also essential and should be part of screening and ongoing management. The Klinrisk test provides prognostic information beyond eGFR and albuminuria, and identifies patients who are risk of progression.

Please note Klinrisk score is not to be confused with Kidney Failure Risk Equation (KFRE). KFRE is a freely available equation based on 4 lab tests used to determine kidney failure risk at later stages of kidney disease progression.⁴ KFRE will be launched in Ontario in 2024 with the Ontario Renal Network (ORN). **Klinrisk is a Patient Pay offering in Ontario.**

TEST TURNAROUND TIME

8-10 business days from sample collection



References

1. Kidney foundation website: <https://kidney.ca/>
2. Klinrisk website: www.klinrisk.com
3. Ferguson T, Ravani P, et al. Development and External Validation of Machine Learning Model for Progression of CKD. *Kidney Int Reports* 2022;7:1772-1781
4. Kidney Failure Risk Equation (KFRE) | ORN (ontariorenalnetwork.ca) <https://www.ontariorenalnetwork.ca/en/kidney-care-resources/clinical-tools/primary-care/kfre>

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