

Detail Results: Patient Info				Results Info	
Patient Name:	AMEND-LIFELABS TEST	Home Phone:	(416) 675-4530	Date of Service:	2023-10-24 00:00:00
Date of Birth:	2000-01-01	Work Phone:		Reported on:	2023-11-06 15:09:43
Age:	23 years	Sex:	M	Date Received:	2025-11-17 11:29
Health Care #:		Reported by:	KLINRISK	Report Status:	Completed
				Client Ref. #:	LL3100031
				Accession #:	2023-MAG240472-KLIN
Requesting Client: TEST ON_EMR_DOCTOR_AE cc: Client: HUDA ALMOHRI, TEST ON_EMR_DOCTOR_AE					

CHEMPDF							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
KLINRISK							
PDF	PDF Report (Appended to end of Laboratory Report)				2023-11-06 15:09:43	F	J23

END OF REPORT							
J23 - Klinrisk 100 International Blvd. Toronto Ontario M9W 6J6 Canada B							

Patient Information

Name TEST, AMEND-LIFELABS
Date of Birth 01/01/2000
Sex Male

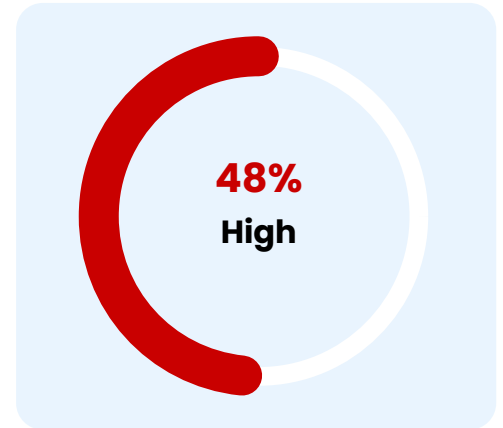
Test Information

Ordered By I.T. TESTING
Collection Day 10/26/2023
Report Date 11/06/2023

Date of Receipt 11/01/2023
Time of Receipt 05:15 PM
Medical Record (HCN/PHN) Not Provided

Test Report

Risk of progressive decline in kidney function



Low

0 - 5

Medium

6 - 24

High

25+

The Klinrisk algorithm uses data from blood and urine tests including CBC, metabolic panel, urine albumin to estimate the probability of kidney function loss of up to 40% or kidney failure in the next 5 years. The risk categories and recommendations are provided to alert providers to the risk of progression of CKD, complications of kidney disease and associated care pathways recommended by clinical practice guidelines.

Patients at high risk can work with their physician to implement an evidence based care plan to improve their kidney health.

This algorithm is developed by Klinrisk Inc and has been tested for accuracy in independent populations. It is not an accredited algorithm, nor cleared or approved by Health Canada and it is not required to be.

Klinrisk algorithm is for clinical care and should be considered as an aid to help with clinical decision making and is not meant to replace a physician's advice or diagnosis.

The laboratory tests required for the algorithm were performed at LifeLabs.

Clinical decision support

Frequency of monitoring
1 times per year

Blood Pressure Target
Target standardized BP < 120 systolic

Referral
Nephrology referral may not be indicated

Complications of CKD

Anemia

Hyperkalemia

Metabolic Acidosis

CKD-MBD

Anemia - Hgb 122.0 g/L

Reference range : Serum hemoglobin 129 to 165 g/L

CKD-MBD - Phosphate - 2.7 mmol/L & Calcium - 1.77 mmol/L

Reference range : Serum phosphorous 0.8 - 1.5 mmol/L & Serum calcium 2.15 - 2.60 mmol/L

Other Recommendations

- Suggest iron studies including ferritin, TIBC and serum iron
- Monitor and treat as per CKD-MBD guidelines

Disease modifying treatment to slow CKD progression

RAASi

SGLT2i Therapy

Non Steroidal MRA

- Consider RAASi therapy with potassium monitoring
- Consider SGLT2i therapy in patients with heart failure or Type 2 Diabetes
- Consider nonsteroidal MRA therapy in adults with Type 2 Diabetes with concomitant potassium monitoring

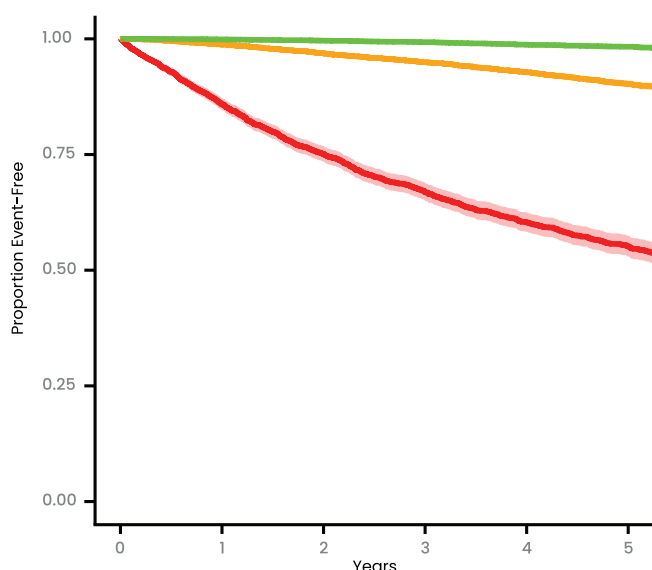
Clinical Validity

The Klinrisk test was developed in a population based sample of more than 70,000 adults and has been proven to be accurate in more than 100,000 patients. The test is externally validated in diverse patient populations, and can discriminate risk in patients at different ranges of age, those with or without diabetes and with early or late stages of CKD. *Results of the validation studies are described in the figures below.*

Clinical Utility

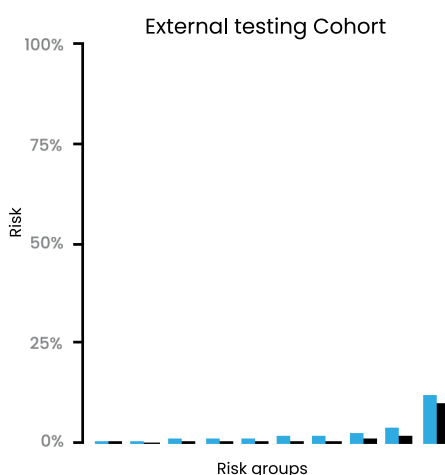
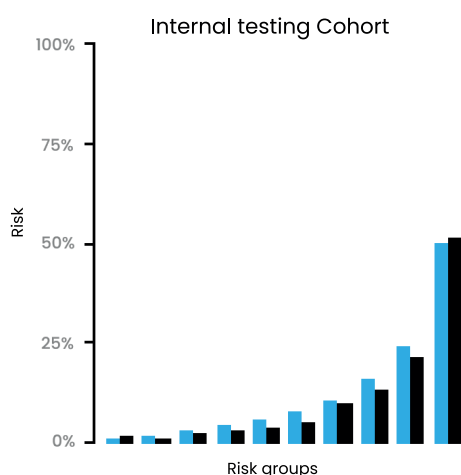
Identifying patients at high risk of CKD progression can help determine intensity of follow up and need for nephrology referral as well as guide the initiation of disease modifying therapy early in the course of disease before kidney function is irreversibly lost. Patients at intermediate or high risk of disease may benefit from more aggressive care to slow CKD progression whereas those at low risk may be safely managed with a conservative care plan.

Relationship between Categories of Predicted Risk (Low, Medium, and High) from the Random Forest Algorithm and the Occurrence of the Primary Outcome (40% Decline in eGFR or Kidney Failure) over 5 Years



When applying the Klinrisk test, patients who are classified at the highest risk (5-25% risk over 5 years) had a 20-fold higher risk of the 40% decline in eGFR or kidney failure event at 5 years compared to those classified as low risk, and those classified as medium risk (5-25% risk over 5 years) had a 5-fold higher risk of the event at 5 years. This relationship is observed immediately and persists over the entire 5-year period.

Accuracy of the Random Forest Algorithm



The Klinrisk test is highly accurate at discriminating between patients who will experience a 40% decline in eGFR or kidney failure over a 5-year period and those who remain event free.

At 5 years, the area under the receiver operating characteristic (AUROC) curve is 0.84 (95% confidence interval 0.83 to 0.85).

Predicted risk
Estimated actual risk

About the Test

The Klinrisk test uses data collected from blood and urine samples including the complete blood count, comprehensive metabolic panel, liver enzymes and the urine albumin to creatinine ratio to identify patients at risk for progression of kidney disease. It is indicated as a decision aid for further assess the risk of progressive CKD within a period of 5 years for patients

over the age of 18 who are with or at risk of developing chronic kidney disease. These patients include those with existing CKD (eGFR < 60 or albuminuria (Urine ACR) > 30 mg/g or those with diabetes or hypertension being screened for CKD. Progression of kidney disease is defined as a sustained decline in kidney function (eGFR > 40 %) or kidney failure (initiation of

long term dialysis or transplant). Klinrisk is not intended to diagnose, treat, mitigate or prevent a disease, disorder or abnormal physical state, or any of their symptoms. Independent follow up with health care professional is necessary prior to any medical diagnosis or treatment decision.