

 **Diabetes:** Family history clinical decision support tool for risk assessment and management

Routine screening for type 1 diabetes is not recommended.

Those deemed to be **average/increased** risk for type 2 diabetes as determined by a risk calculator\*, should undergo screening using a fasting plasma glucose (FPG) and/or glycated hemoglobin (A1C), should begin at age 40 and repeated every 3-5 years.

There are many **risk factors** for type 2 diabetes such as age, gender, past and current medical history, as well as family history. With regards to family history an individual is considered at increased risk if:

- They have a first degree relative with type 2 diabetes
- They are a member of a high-risk population (e.g. Arab, Asian (e.g. Chinese, Vietnamese, Filipino, Korean etc), Black (e.g. African, Afro-Caribbean, etc.), Indigenous, Latin American, South Asian ancestry)
  - Note: Because of the high prevalence of hemoglobinopathies among some high-risk populations the accuracy of HbA1C as a reliable screening tool maybe considerably reduced. Additionally, those from high-risk populations may have HbA1C levels that differ from those of European ancestry at the same level of glycemia.

Those with several **additional risk factors** and those at a **very high risk** (50% or higher) as determined by a risk calculator\* should have screening with FPG and/or HbA1C earlier and/or more frequently (6-12 months).

#### Resource

\*The Canadian Diabetes Risk Assessment Questionnaire (CANRISK) is a statistically valid tool. Available at <https://www.healthycanadians.gc.ca/en/canrisk> CANRISK has not been validated in individuals <40 years of age.

#### References

Diabetes Canada Clinical Practice Guidelines Expert Committee. *Diabetes Canada 2018 Clinical Practice Guidelines for the Prevention and Management of Diabetes in Canada*. Can J Diabetes. 2018;42(Suppl 1):S1-S325.