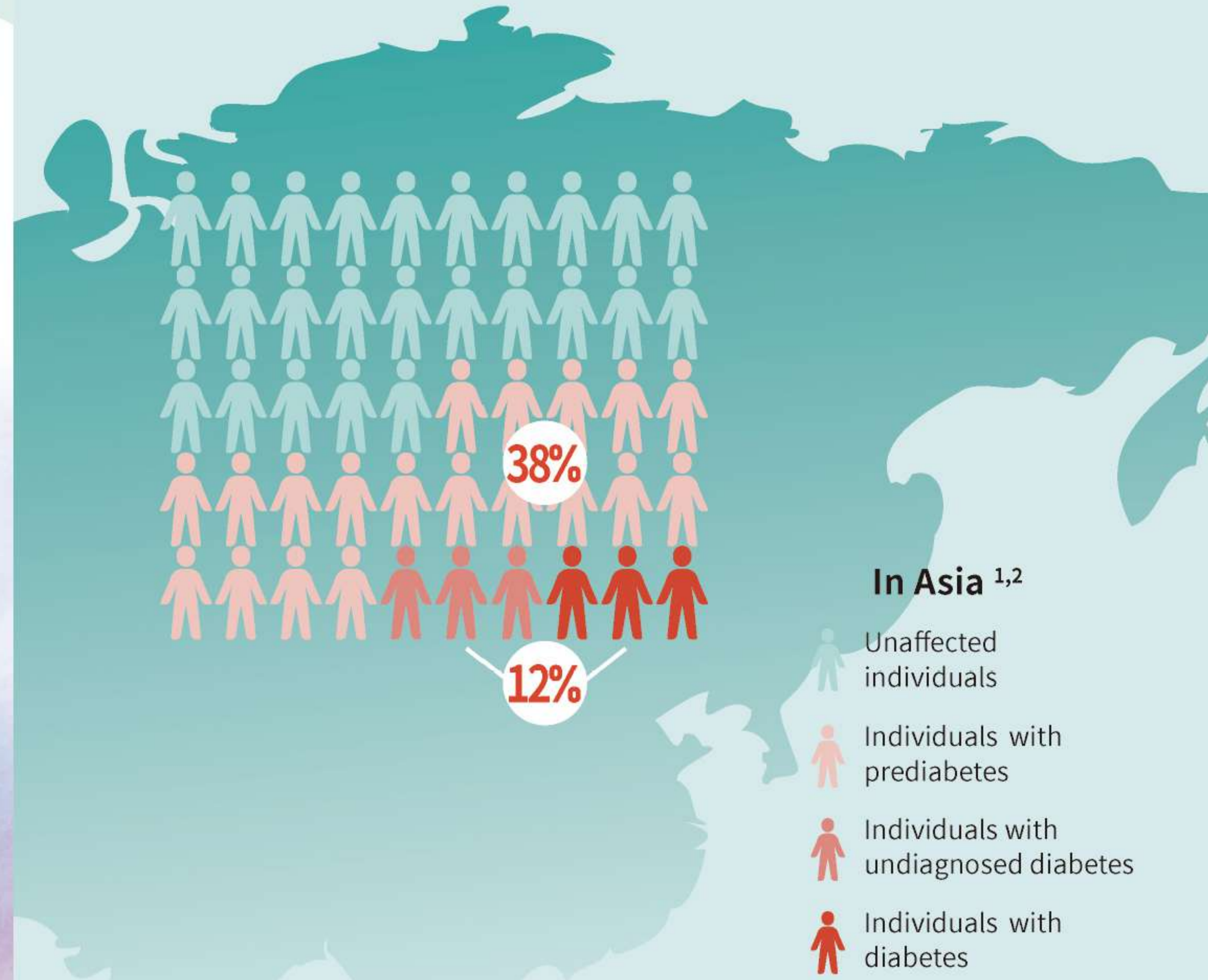


Redefine Testing for Diabetes Prevent Diabetes with Precision

01 Diabetes must not be ignored



Diabetes affects many individuals. However, its silent nature without symptoms often leads to delayed diagnosis and treatment. Half of the individuals with diabetes are unaware of having the condition. When diabetes is diagnosed, **1 in 3** may have already developed some complications.

! Diabetes can kill!

Every **5 seconds**, a person dies from diabetes³.
Are you at risk?



References :
 1. Wang L, Peng W, Zhao Z, et al. Prevalence and Treatment of Diabetes in China, 2013-2018. JAMA. 2021 Dec 28;326(24):2498-2506.
 2. International Diabetes Federation. IDF Diabetes Atlas, 10th edn. Brussels, Belgium: International Diabetes Federation, 2021
 3. Salehidoost R, Mansouri A, Armini M, et al. Diabetes and all-cause mortality, a 18-year follow-up study. Sci Rep. 2020 Feb 21;10(1):3183.

02 Seize the golden period to prevent diabetes early



There may be warning signs in your body. Amongst these, **your genes play a key role in determining your risk for having diabetes.** In the presence of acquired risk factors, such as body weight, blood pressure, smoking, these genetic factors greatly increases the risk of developing diabetes.



DForesee® is an innovative risk assessment tool. By leveraging technology and databases licensed from a local university, DForesee® analyzes **diabetes genes along with acquired risk factors to predict the risk of prediabetes and type 2 diabetes in next 10 years.** Compared to standard blood glucose testing, **DForesee® is more precise, foretelling and personalized which help individuals take early preventive actions during the golden period.**

03 Blood glucose test alone is not good enough!

To prevent diabetes effectively, you must act before persistently high blood glucose sets in. Using a single blood glucose test to inform decision is not good enough.

DForesee® vs Traditional Blood Glucose Testing

Stage of Type 2 Diabetes	Body Condition	Symptoms	DForesee®	Traditional Blood Glucose Testing*
Stage 0 Preventable	Carries high-risk genes and other risk factors (e.g. overweight, smoking)	No symptom	✓	
Stage 1 Preventable	Early sign of abnormal glucose regulation but blood glucose is mostly within normal range	No symptom	✓	
Stage 2 May be preventable	Prediabetes Blood glucose level is higher than normal but not high enough yet to be diagnosed as diabetes	The vast majority of individuals do not have symptoms	✓	✓
Stage 3-4 Established diabetes	Diabetes Persistently high blood glucose with possible occurrence of complications	Only about 50% of individuals are aware that they have diabetes		✓

* Fasting Blood Glucose (FBG), Glycated Hemoglobin (HbA1c), Oral Glucose Tolerance Test (OGTT)

Oral Glucose Tolerance Test (OGTT) is the most reliable test for diagnosing prediabetes. This test is more sensitive than fasting blood glucose (FBG) and glycated haemoglobin (HbA1c) ⁴. However, OGTT requires more procedures[^] and is rarely included in routine health assessment.

DForesee® selects individuals with prediabetes (Stage 2) to undergo OGTT for confirmation. It also identifies individuals at high risk of developing prediabetes (Stage 0 or 1), making it a more efficient screening test for prevention of type 2 diabetes.

[^]The sensitivity of FBG and HbA1c to detect diabetes/prediabetes is only 25% and 49% of OGTT respectively. During OGTT, after giving a fasting blood sample, an individual drinks a 75-gram glucose solution within 5 minutes and waits for two hours for another blood test.

References:
 4. Barry E, Roberts S, Oke J, Vijayaraghavan S, Normansell R, Greenhalgh T. Efficacy and effectiveness of screen and treat policies in prevention of type 2 diabetes: systematic review and meta-analysis of screening tests and interventions. BMJ. 2017 Jan 4;356:i6538. doi: 10.1136/bmj.i6538. PMID: 28052845.

Comprehensive analysis of your health condition

- Analyze both your genetic and acquired risk factors of type 2 diabetes
- Test your current blood glucose to see if exceeds the threshold

*Collect oral cell samples from saliva and perform finger-prick test for blood glucose.



Prediction with precision

- Your current risk of having prediabetes
- Your risk of developing type 2 diabetes in next 10 years
- Your health indicators compared to others

Recommendations with precision

- Provide personalized suggestions with expected magnitude of improvement
- Advise on next step to confirm diagnosis of diabetes or prediabetes as needed
- Suggest the next date for risk reassessment



A test with authority

The technology was discovered, verified and developed with quality control by members of the team that first identified genes associated with diabetes in Asian populations. The university has authorized the use of all relevant patents, each of which has also been clinically verified.



A test with accuracy

The accuracy of genetic testing technology is as high as 99.9%. The clinical negative prediction rate for type 2 diabetes in 10 years is 95% or above.



A test with comprehensive information

DForesee® integrates genetic and acquired risk factors to provide a precise, comprehensive and personalized evaluation of risk for type 2 diabetes.



Caring and person-centred services

Through regular evaluation, DForesee® monitors your risk profiles and updates you and your medical team on your latest health situation to help them make timely decisions for maintaining your well-being.

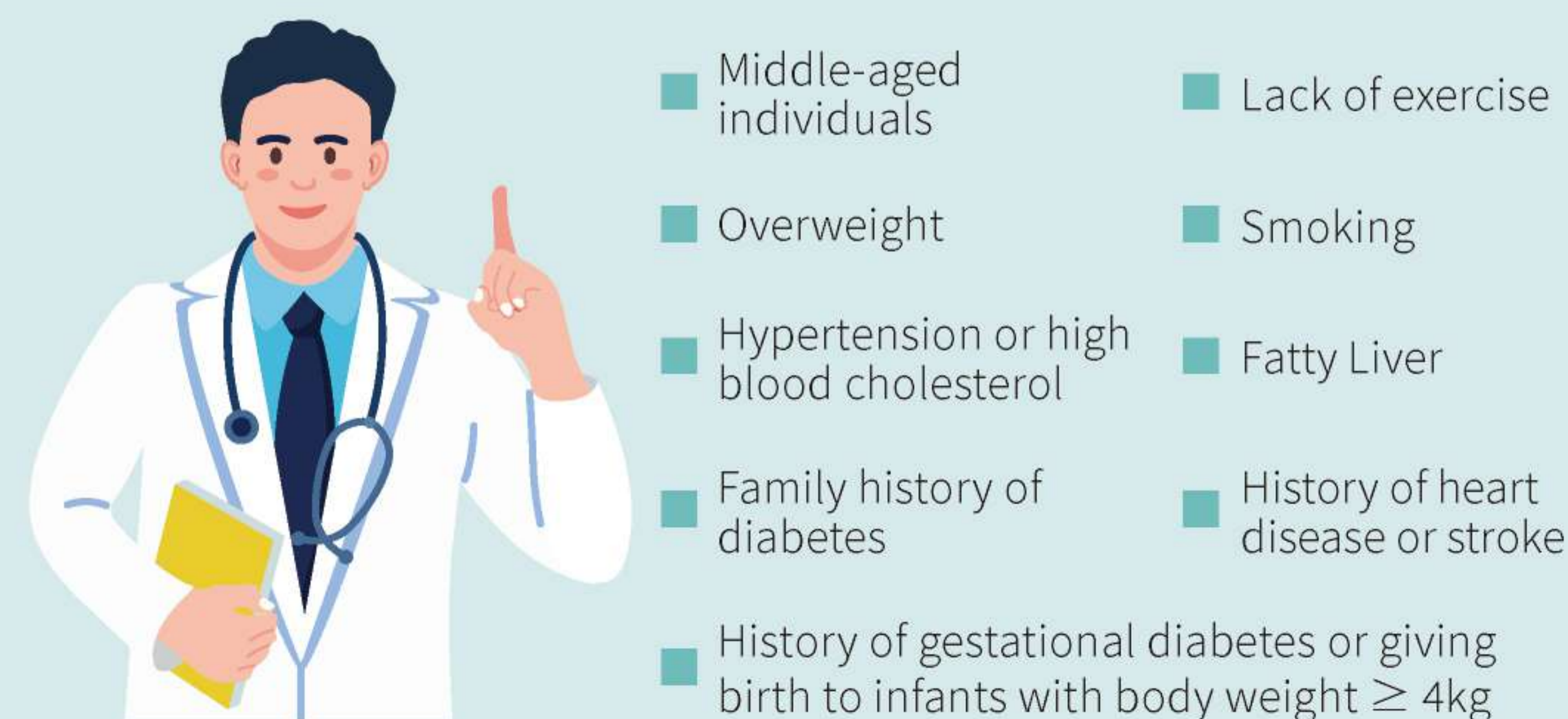


Test Process



Am I suitable for the test?

DForesee® is suitable for anyone without type 2 diabetes, especially for individuals with risk factors:



GemVCare Ltd.
Unit 628, Biotech Centre 2, 11 Science Park West Ave.,
Hong Kong Science Park, Shatin, N.T., Hong Kong

TEL: (852) 2809 2893 | MAIL: info@gemvcare.com

GemVCare™, your expert in diabetes management.

Advanced genetic testing allows you to have better understanding of your health conditions as well as evidence-based strategies for prevention and treatment of diabetes. Via the easy-to-use mobile platform, you, your family, your friends, and also your medical team can participate in managing your health together and also share the joy of the treatment outcome!



<https://www.gemvcare.com/>

General Disclaimer:
Gemomic™ Technology is a patented technology adopted by GemVCare Ltd. ("GemVCare") to assess the risks of diabetes and its complications.

As the causes of diabetes and its complications are complex, all related tests require professional interpretation. The Gemomic™ Technology and any other GemVCare services (collectively "Services") shall be used for reference purpose only and not as a substitute for professional advice and shall rely on or make decisions based on the Service at their own risk.

Neither the author(s) of the reports published for the Services nor GemVCare (including its shareholders, directors, employees and consultants) are liable or have any duty of care for any decisions, and/or consequences in relation to the results from the Services.

The Services is governed, and GemVCare's liability is limited, by separate terms and conditions to this General Disclaimer forms part. All rights in relation to the Service and any publication in relation thereto is fully reserved by GemVCare.