



my**DNA**health
intelligent health and nutrition



WE ARE BRINGING TOGETHER

SCIENCE

TECHNOLOGY

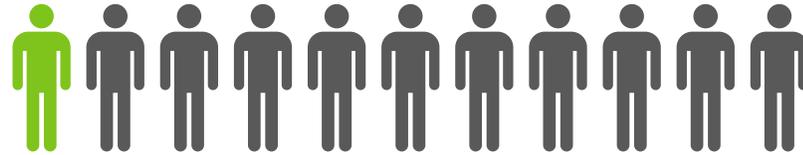
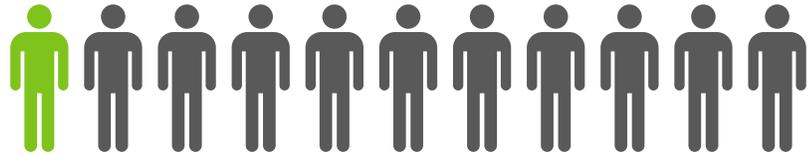
HUMAN BEHAVIOUR

TO PREVENT HEALTH PROBLEMS

Type 2 Diabetes is an epidemic

60M Europe (WHO)

7M UK are at risk (Diabetes.org.uk)



Type 2 Diabetes prevention is a global health priority



Is Type 2 Diabetes a result of ...



GENETICS

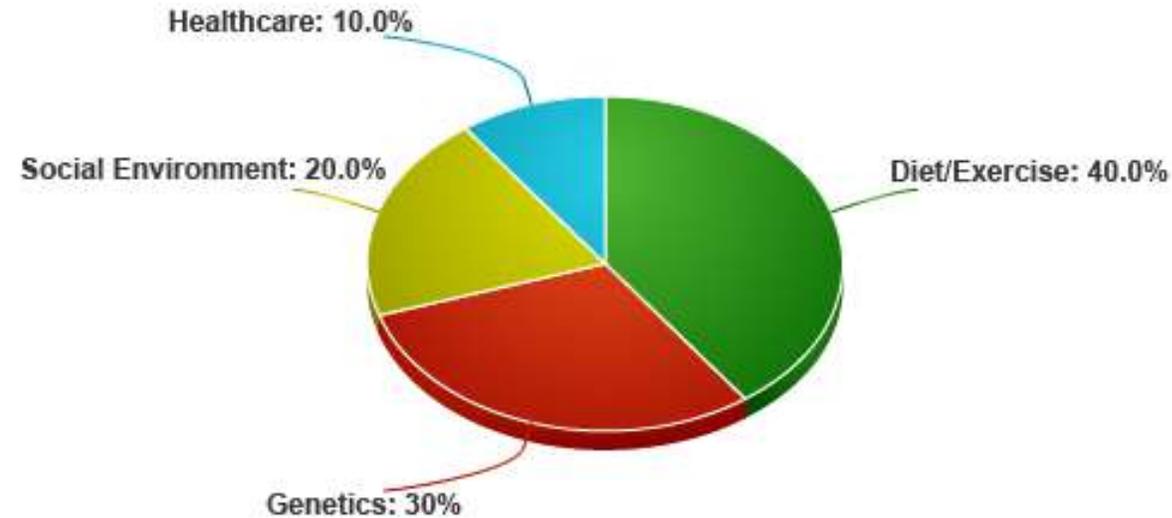
or



LIFESTYLE & DIET?

The Global Burden of Non-Communicable Diseases study

NCD's early mortality



40%

Lifestyle & diet

30%

Genetics

Understanding genetic predisposition to disease and knowledge of lifestyle modifications that reduces the potential for diseases is necessary for the public to make informed choices.

**UTILISATION OF PERSONAL FEATURES TO
PREDICT RISK FOR CERTAIN CHRONIC
CONDITIONS AND THE PERSONALISED
NUTRITION APPROACH TO PREVENT
DISEASE PROGRESSION**

Our Solution

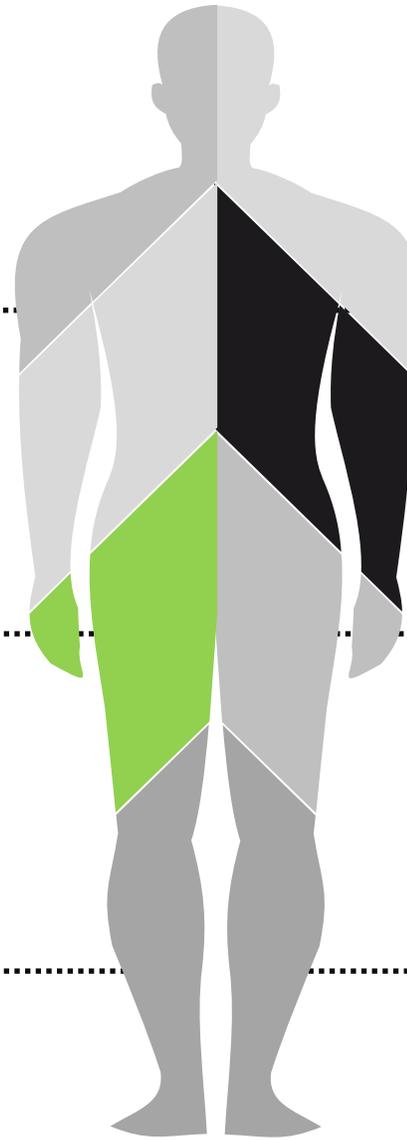
Genetic variations relating to gene-nutrient and gene-environment interactions.



Online consultation questionnaires
Environment, lifestyle, phenotype, food diary, blood biomarkers



Multivariate algorithm reports risk scores



Reports displayed in client portal

Personalised nutrition plans powered by our proprietary nutrition analysis platform
Database of 2.5 million recipes

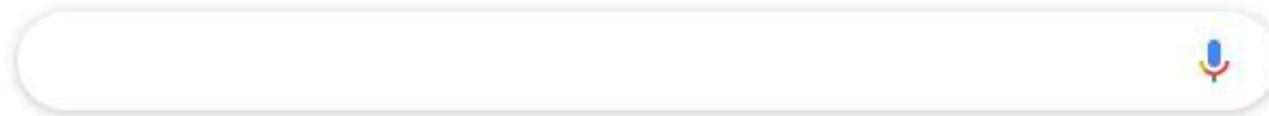


VICI our nutrition coaching App is designed to “nudge” behavior changes and to track progress.



Health Risk Analysis Framework And Approach
To Personalised Nutrition

WE WANT TO DO TO TYPE 2 DIABETES WHAT GOOGLE DID TO THE YELLOW

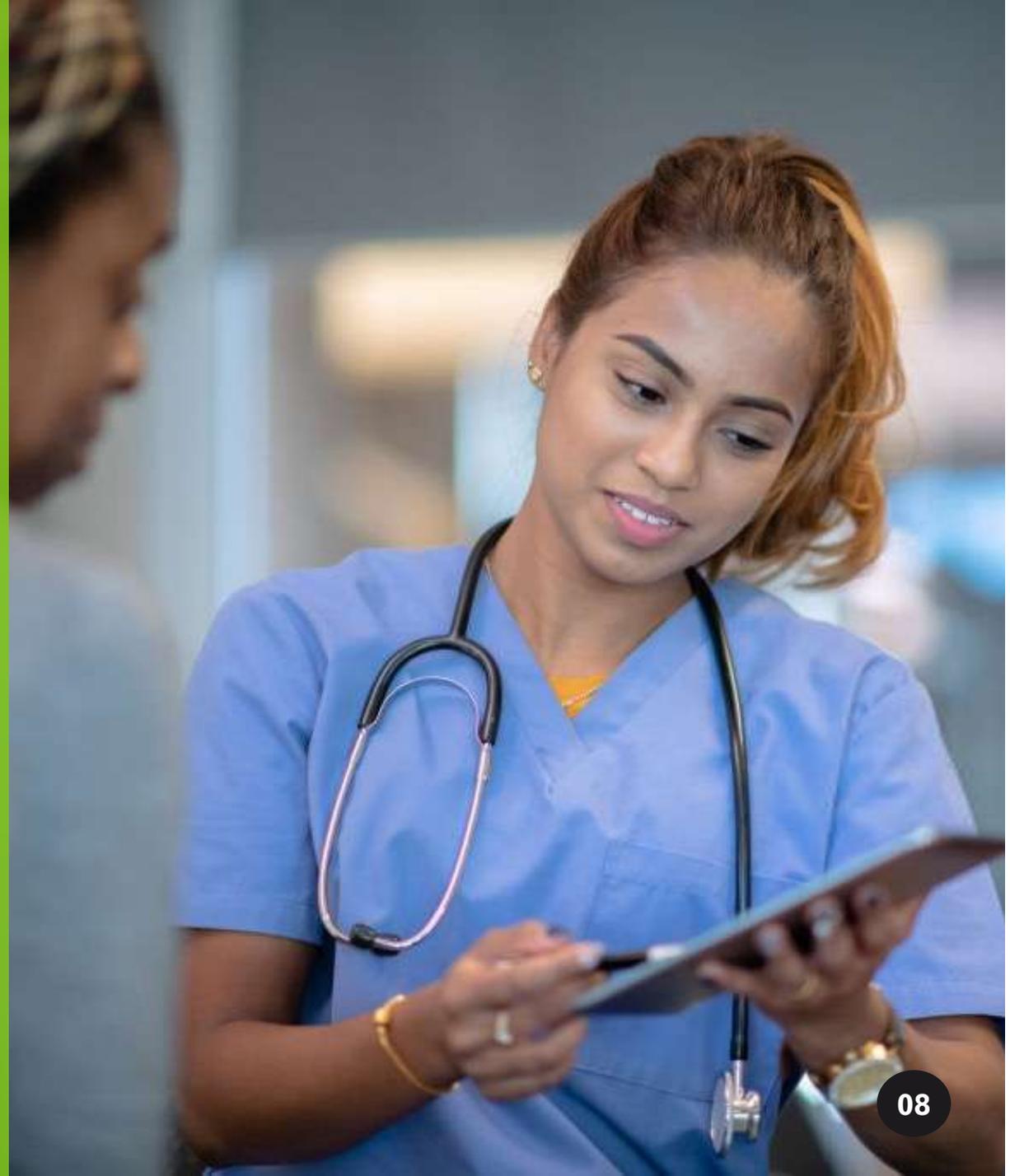


Google Search

I'm Feeling Lucky

Content

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers
2. How we apply these data sources to recommend personalised nutrition interventions and meal plans
3. How we are dealing with the challenges of client compliance and reporting outcomes



1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Nutritional Genomics



Translated as the concept
of "personalised nutrition"

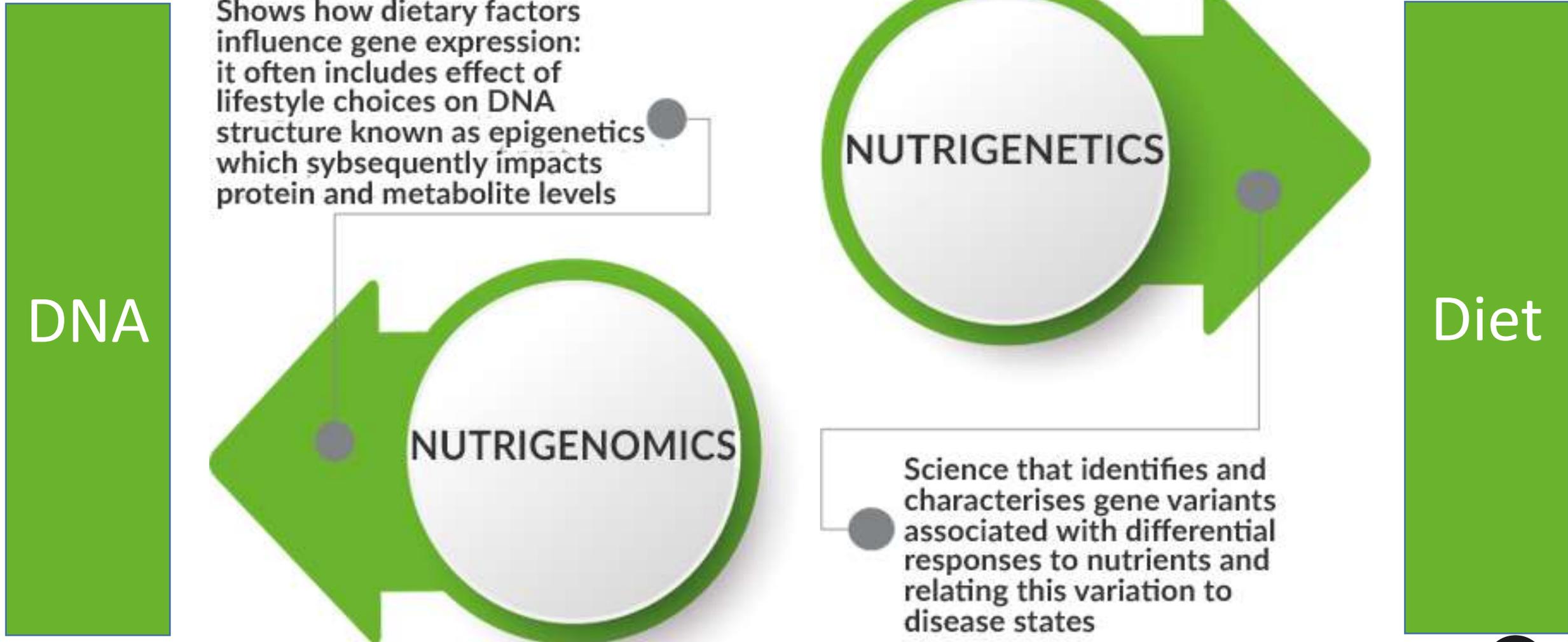
Aims at optimising health

Through personalised lifestyle and
nutrition to prevent chronic
diseases

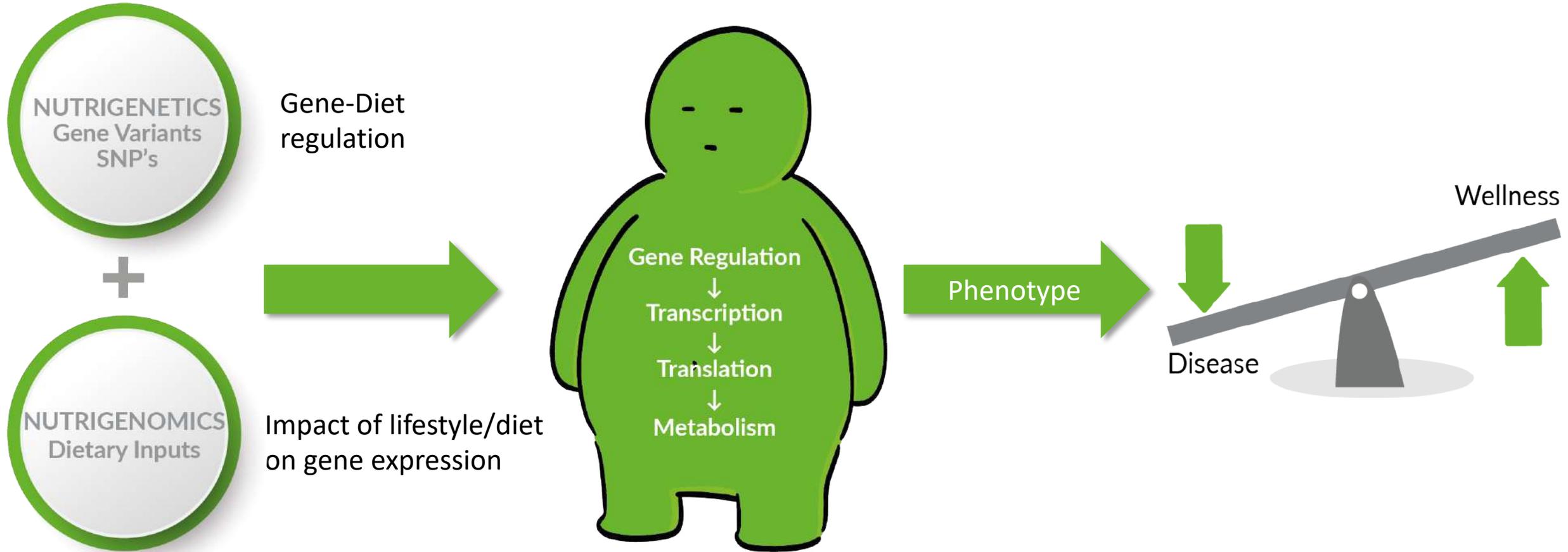
**Provide powerful
approaches to unravel the
complex relationships**

Between nutrients, genetic
variants and the biological
systems

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers



1. The role of nutritional genomics, consultation questionnaires and blood biomarkers



1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

REAL Scientific Process

Phase 1 Relevance

1

Literature review
Relevance to nutrition and nutrigenomics
Investigate the research and the evidence papers

Phase 2 Evidence

2

Deep dive into research papers
Population data
Gene function
Mechanism

Phase 3 Actionable

3

Investigate whether the SNP is actionable.
What nutrients and lifestyle interventions can be done to make an impact to the genetic variant?

Phase 4 Lab Testing

4

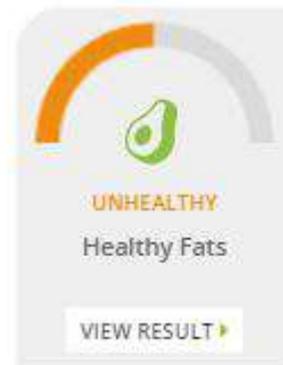
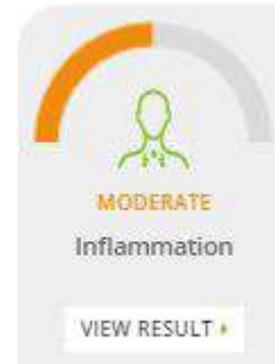
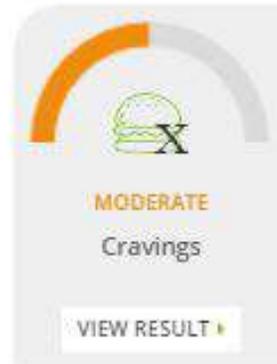
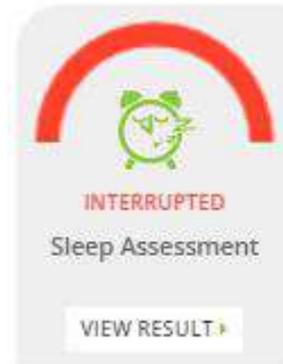
Testing laboratory builds a unique testing platform assay for each SNP.
We use a PCR method that is very individual for each SNP and vigorously tested including repeats and double testing to ensure we get 100% accurate results.

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes

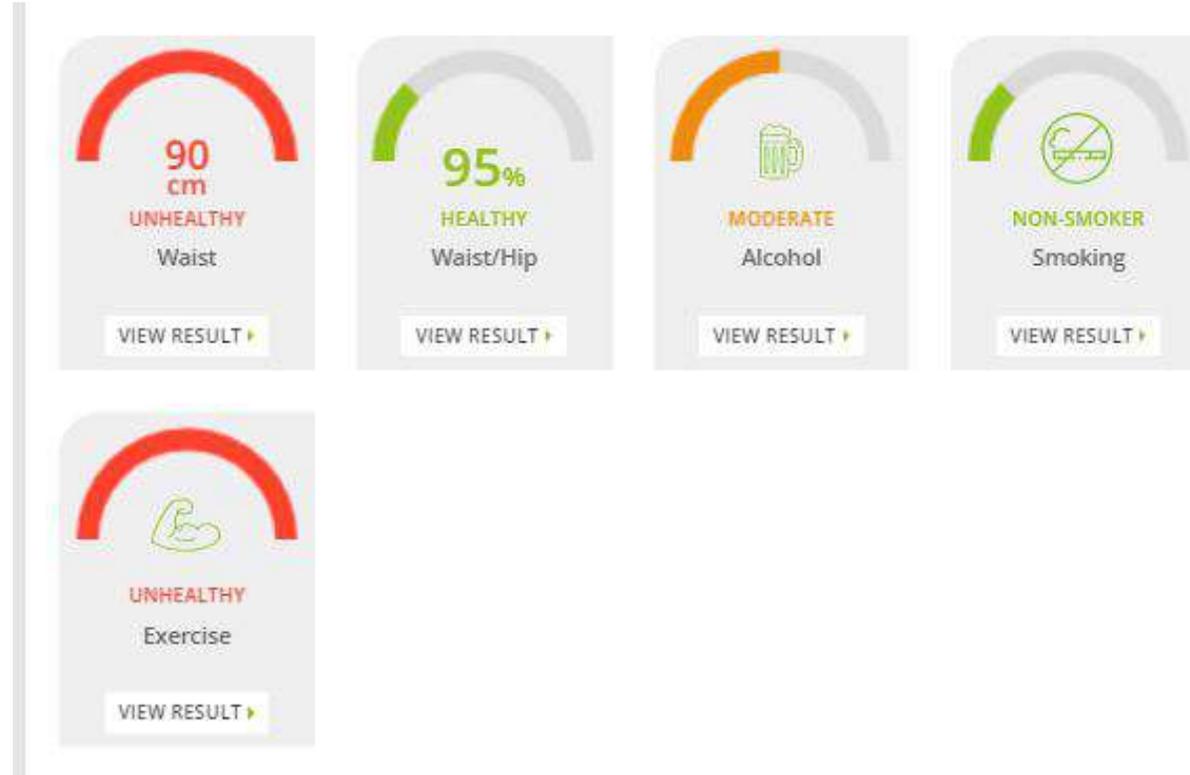


1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes

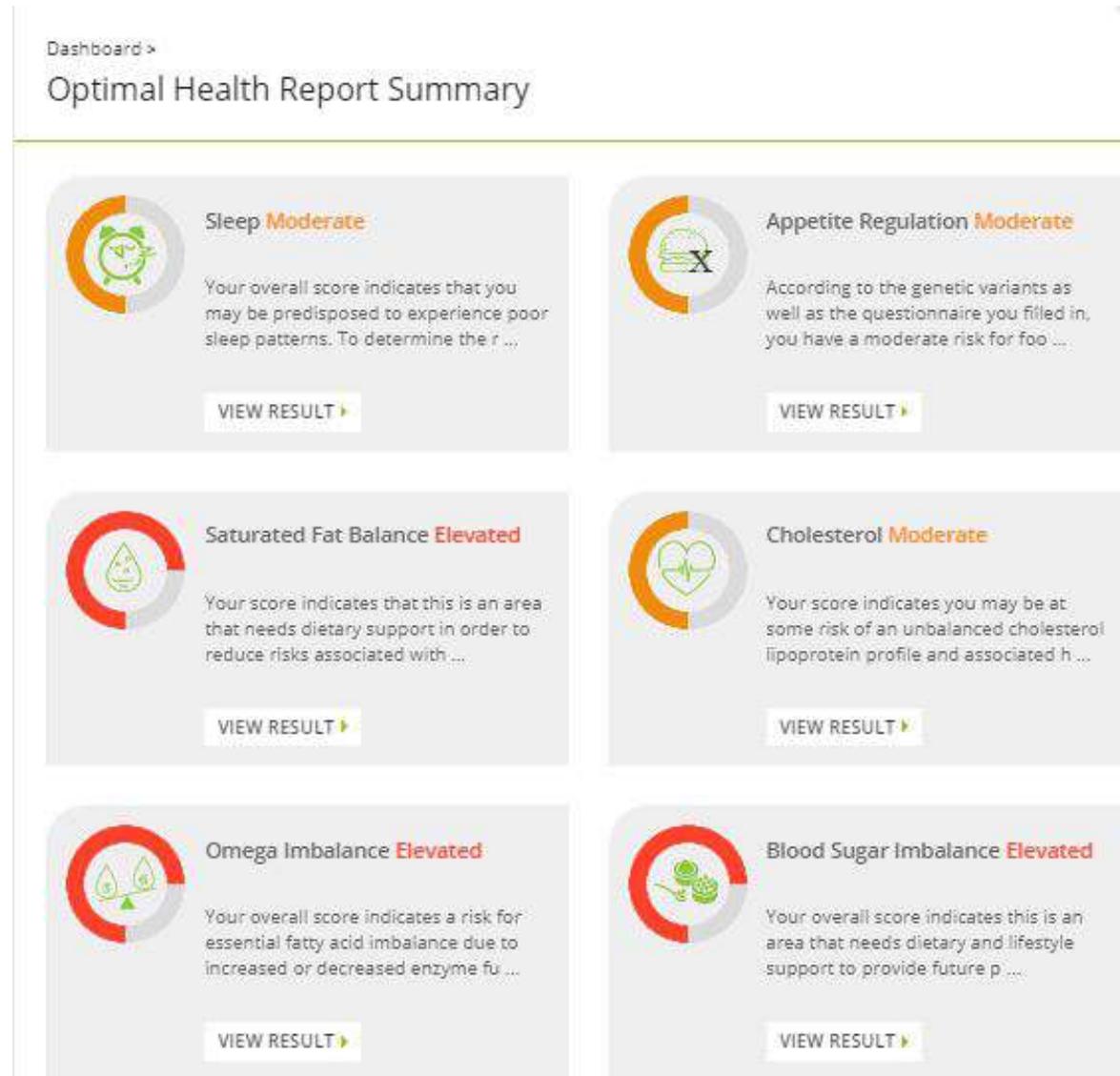


1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes



1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes



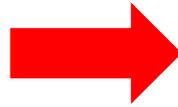
 <p>Inflammation Elevated</p> <p>The overall score suggests you may be more prone to inflammation and inflammatory-related conditions. To ...</p> <p>VIEW RESULT ▶</p>	 <p>Propensity to Higher BMI Elevated</p> <p>Your score indicates that you may have a propensity to higher BMI. We are increasingly understanding that hig ...</p> <p>VIEW RESULT ▶</p>
 <p>Stress Elevated</p> <p>According to the genetic variants you may be more sensitive to stress and your stress questionnaire resul ...</p> <p>VIEW RESULT ▶</p>	 <p>Burnout Moderate</p> <p>According to the genetic variants you may be more sensitive to stress. Your questionnaire result may indicate ...</p> <p>VIEW RESULT ▶</p>
 <p>Caffeine Typical</p> <p>You are a fast metaboliser of caffeine. However, research indicates the optimal amount of heavily caffeinated ...</p> <p>VIEW RESULT ▶</p>	 <p>Lactose Typical</p> <p>You do not have the genetic variant that may predispose to being lactose intolerant. You are therefore likely ...</p> <p>VIEW RESULT ▶</p>
 <p>Vitamin D Elevated</p> <p>You have genetic variants which may predispose you to a vitamin D deficiency. In addition to bone health, ...</p> <p>VIEW RESULT ▶</p>	

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes



Fasting Blood Glucose Test
Result: 6.1

Plasma glucose test	Normal	Prediabetes	Diabetes
Random	Below 11.1 mmol/l Below 200 mg/dl	N/A	11.1 mmol/l or more 200 mg/dl or more
Fasting	Below 5.5 mmol/l Below 100 mg/dl	5.5 to 6.9 mmol/l 100 to 125 mg/dl	7.0 mmol/l or more 126 mg/dl or more
2 hour post-prandial	Below 7.8 mmol/l Below 140 mg/dl	7.8 to 11.0 mmol/l 140 to 199 mg/dl	11.1 mmol/l or more 200 mg/dl or more

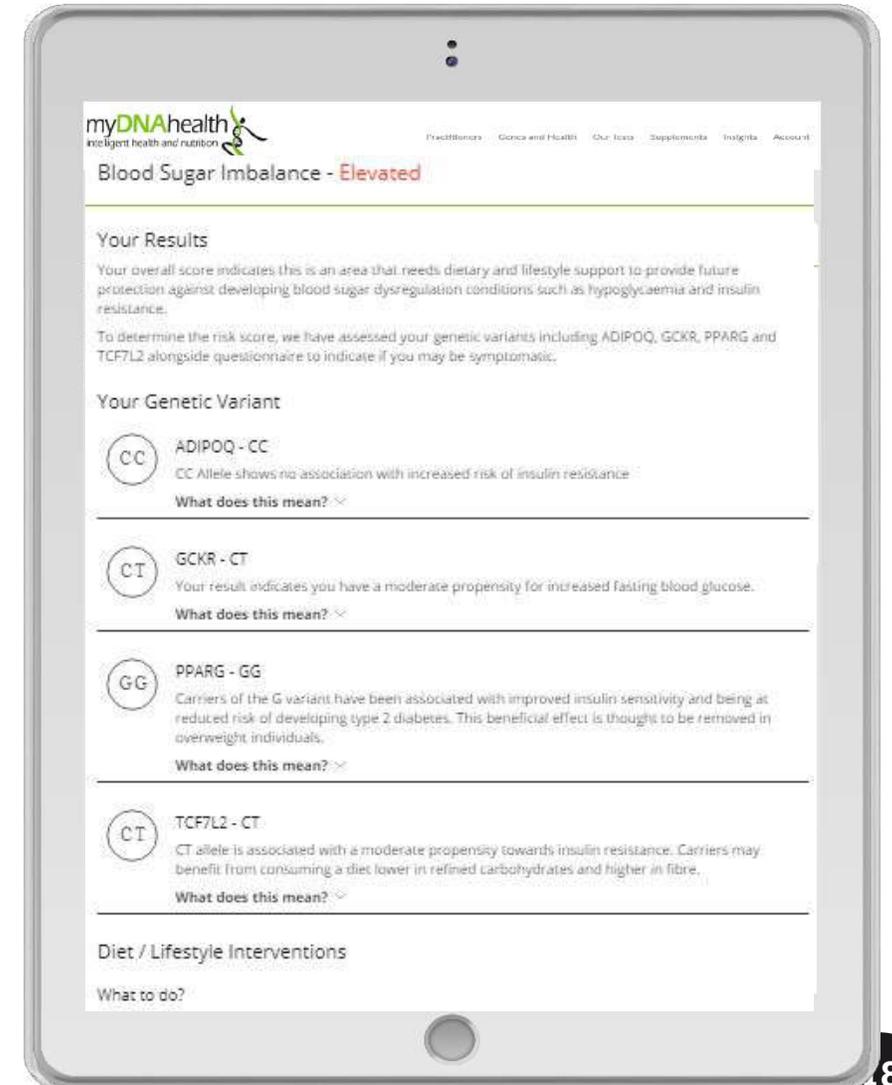
Diabetes.co.uk

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes



1. The role of nutritional genomics, consultation questionnaires and blood biomarkers

Meet David

Male, 56 years

Family history: Type 2 Diabetes





Benefits For **The Customer**

Information

"I realise the food and lifestyle choices I'm making is putting me at risk of developing T2D like my mother.

I don't want to end up on medication and pricking my finger daily to get a glucose reading."

The right food provides vital nutrients and information for our body.

Food is medicine.

Reduced absenteeism and presenteeism in the workforce.

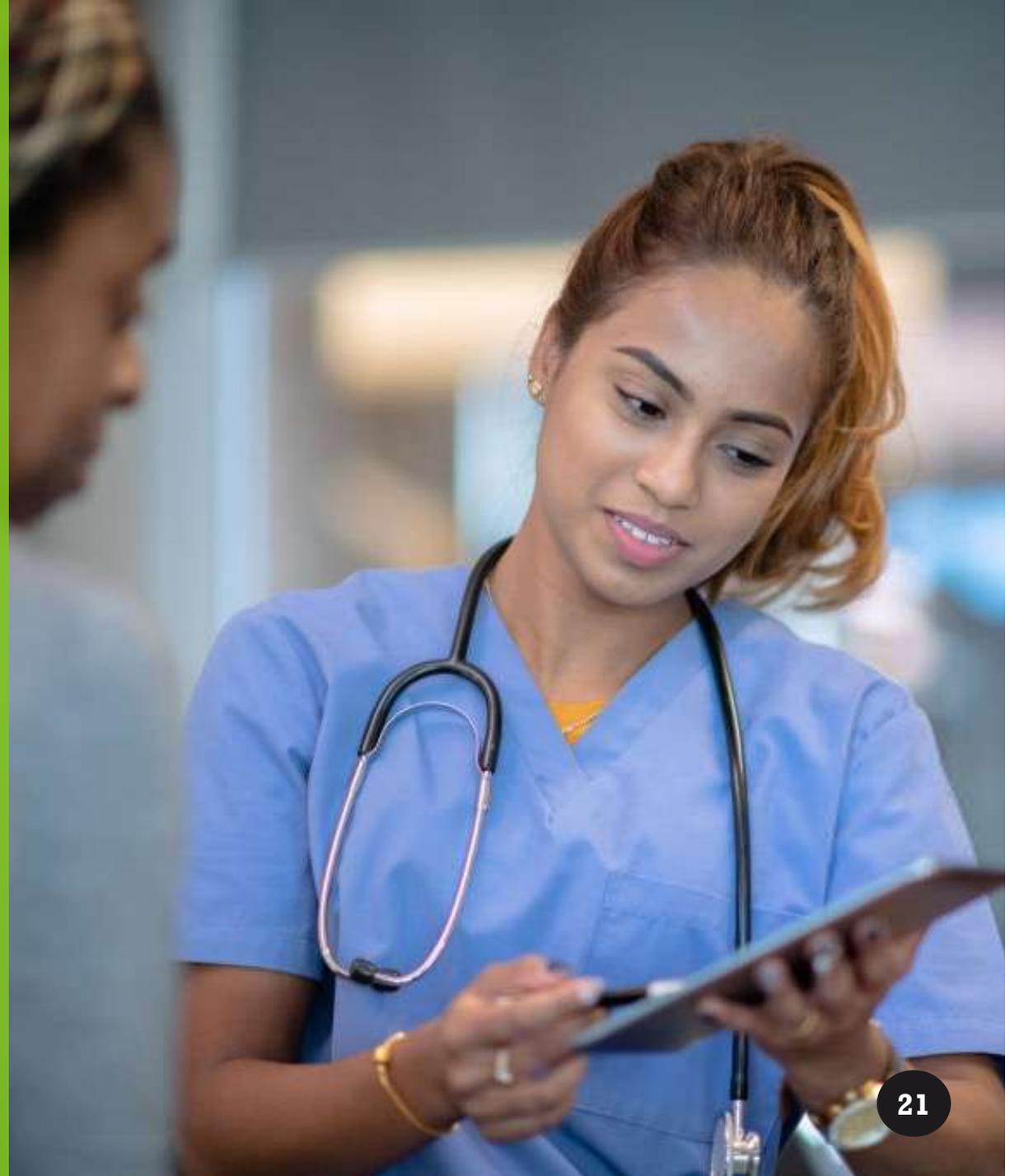
Lifestyle Prescribing.

Achieve Optimal Health

"Please tell me what I can do to reduce this risk and to achieve optimal health to help me age better."

Content

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers
2. How we apply these data sources to recommend personalised nutrition interventions and meal plans
3. How we are dealing with the challenges of client compliance and reporting outcomes

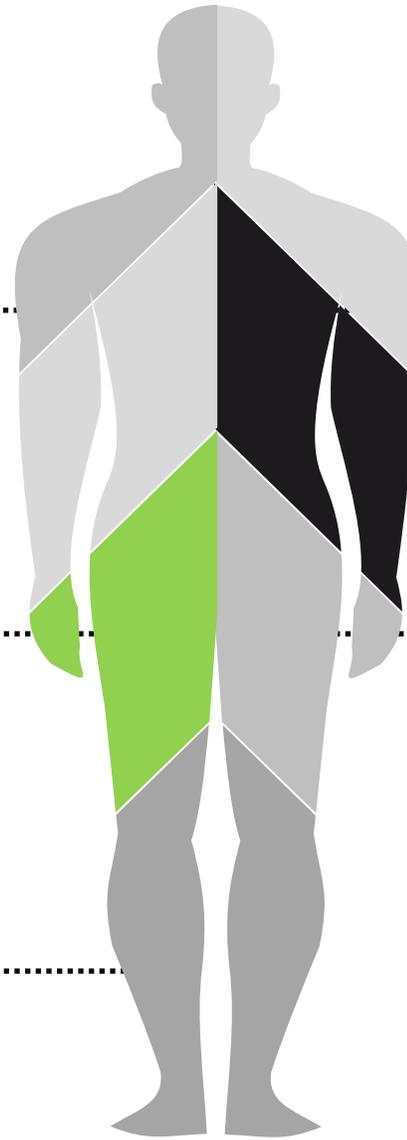


Our Solution

Genetic variations relating to gene-nutrient and gene-environment interactions.

Online consultation questionnaires
Environment, lifestyle, phenotype, food diary, blood biomarkers

Multivariate algorithm reports risk scores

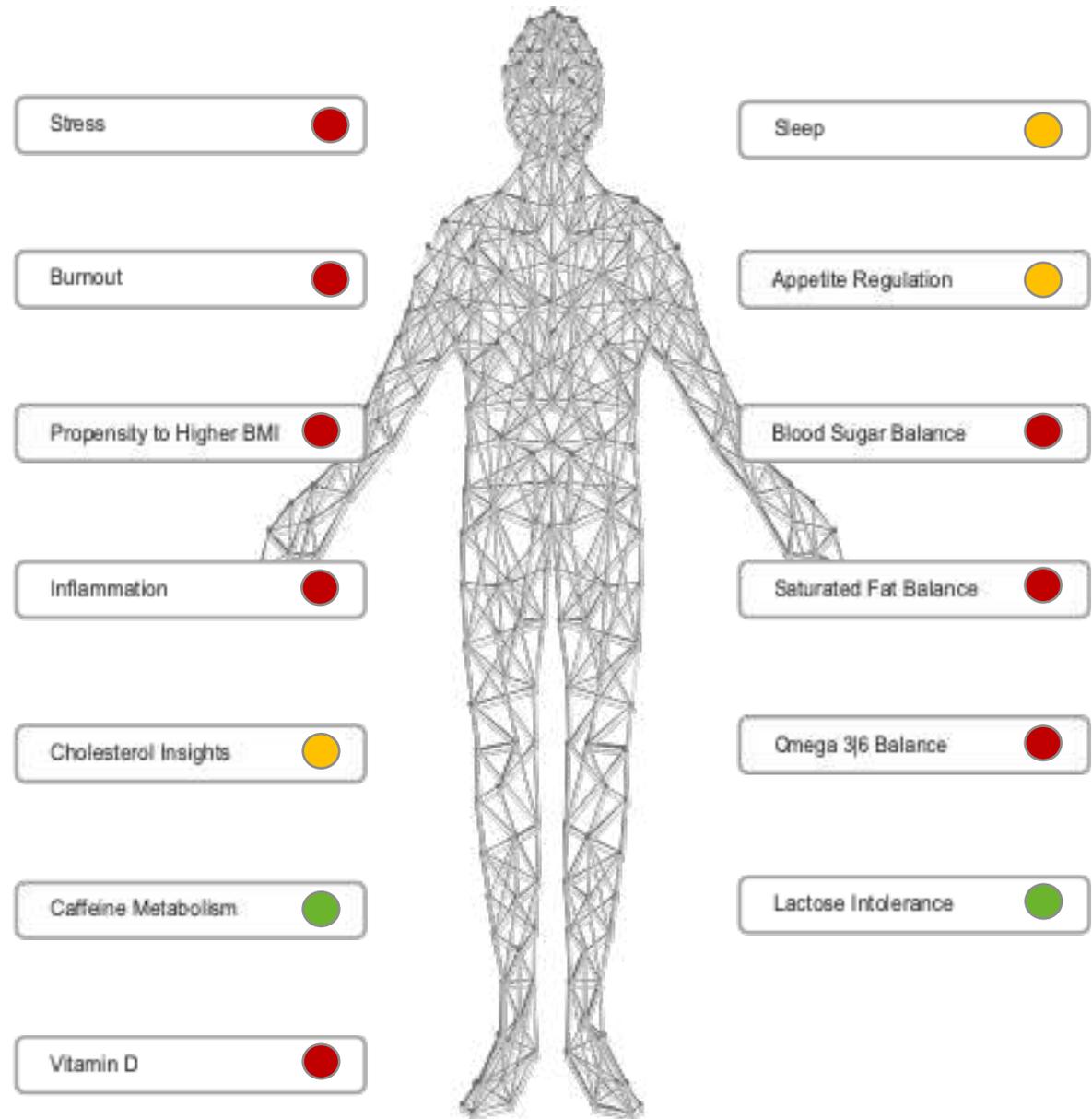
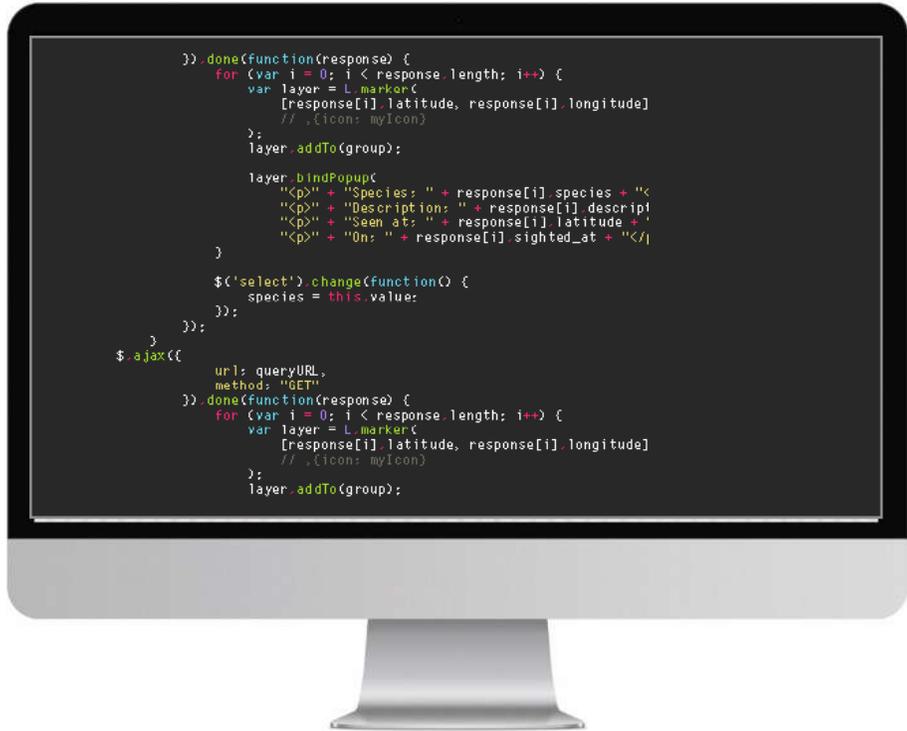


Reports displayed in client portal

Personalised nutrition plans powered by our proprietary nutrition analysis platform
Database of 2.5 million recipes

Health Risk Analysis Framework And Approach
To Personalised Nutrition

Personalised nutrition and meal plans



Personalised nutrition and meal plans



**2.5 million recipes
database**

**25 macro/micro
nutrient values**

Sorts and filters recipes

- Recipes matched to personal needs and lifestyle
- Unique search filters - course, diet, allergy, nutrition and more.
- Recipes organised by cookability and nutrition quality.

Diet type and allergy

- Tell Mealplans your diet needs and allergies
- Only see recipes that work for you.

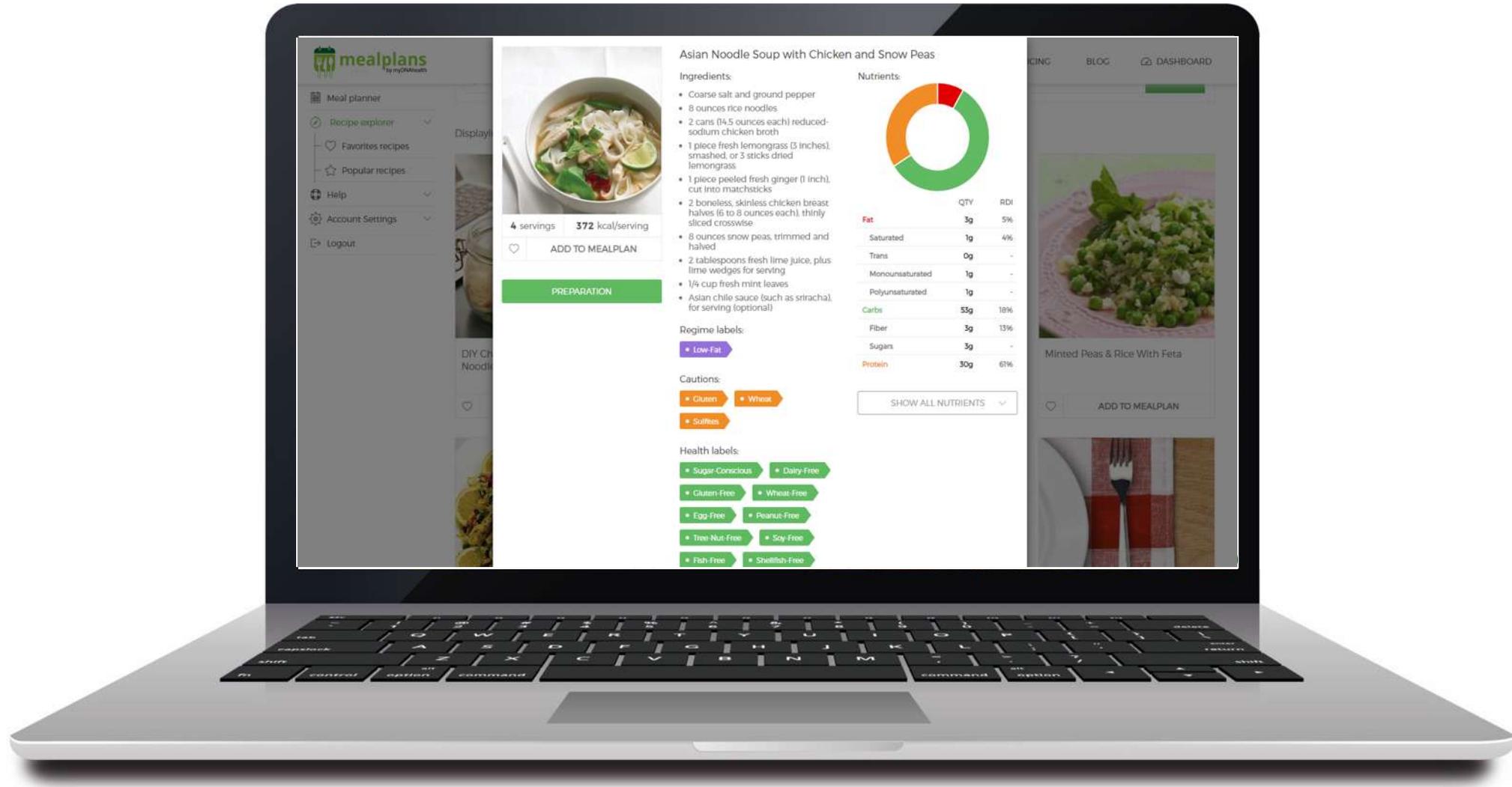
Collect your favourite recipes

- Collect, save and organise your favourite recipes in your personal recipe collection.
- Share your recipes.

Kitchen buddy

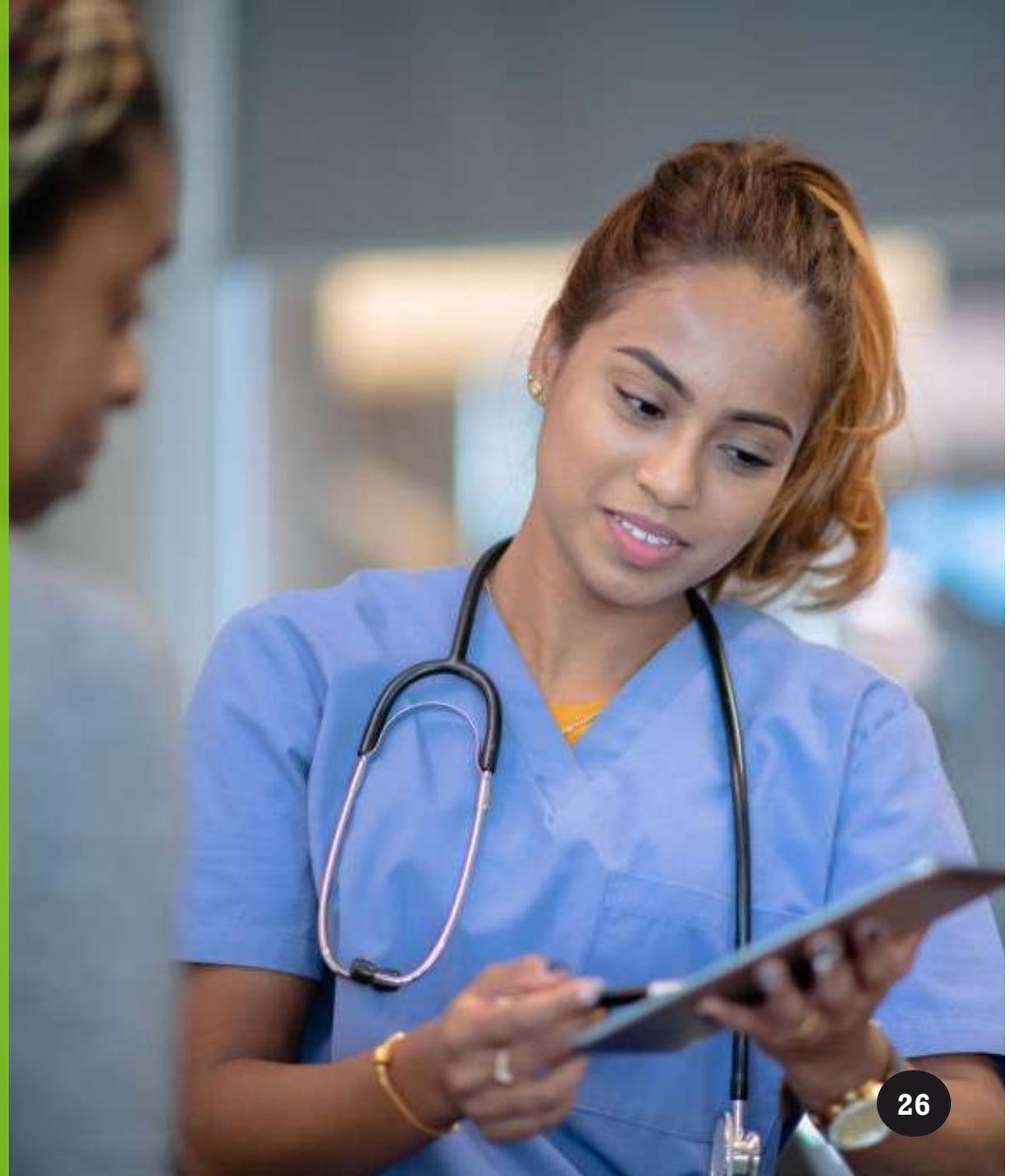
- Step-by-step directions to make cooking a breeze.

Personalised nutrition and meal plans



Content

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers
2. How we apply these data sources to recommend personalised nutrition interventions and meal plans
3. How we are dealing with the challenges of client compliance and reporting outcomes



Challenges of client compliance and reporting outcomes

Client drop off rates

Success walking out the
door

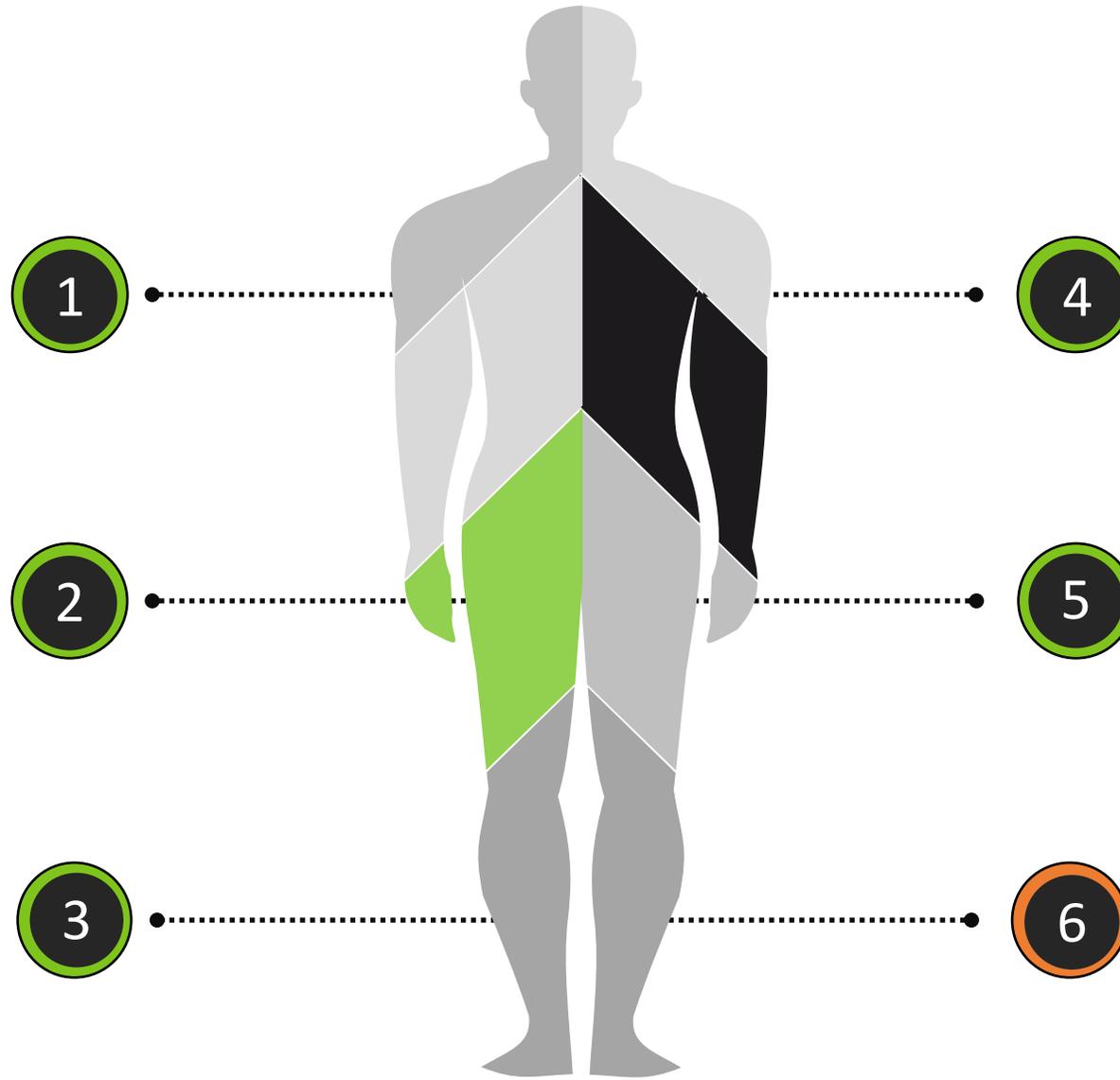
Affordability

Our Solution

Genetic variations relating to gene-nutrient and gene-environment interactions.

Online consultation questionnaires
Environment, lifestyle, phenotype, food diary, blood biomarkers

Multivariate algorithm reports risk scores



Reports displayed in client portal

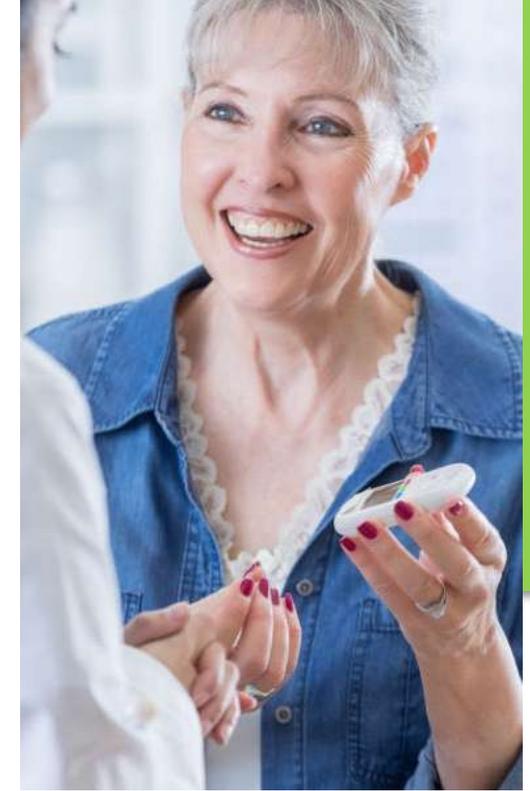
Personalised nutrition plans powered by our proprietary nutrition analysis platform
Database of 2.5 million recipes

VICI our nutrition coaching App is designed to “nudge” behavior changes and to track progress.

Health Risk Analysis Framework And Approach
To Personalised Nutrition

Nutrition Coaching App

VICI



Feedback

Contain feedback questionnaires using chat bots ...

- How do you feel?
- How are you sleeping?
- What's your blood sugar score?

Engagement

Feature competitive online games aimed at educating clients on nutrition and meals and how to manage blood sugar through diet and lifestyle.

Affordable

Free access
Subscription with added features

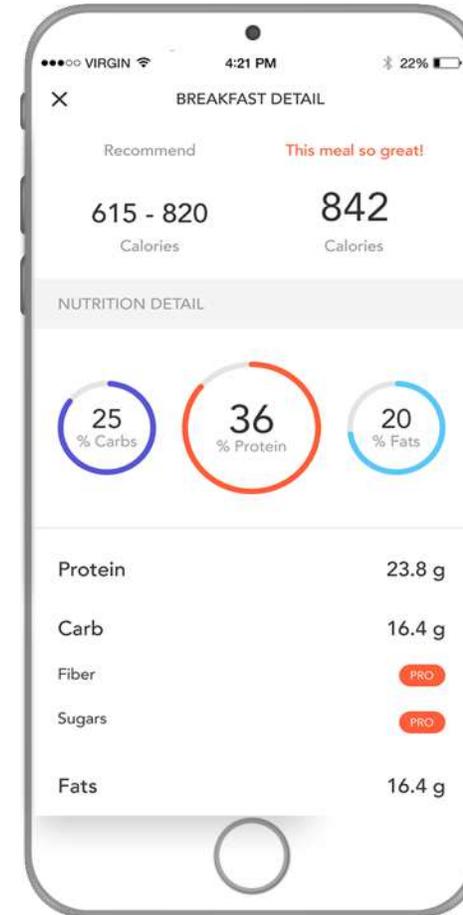
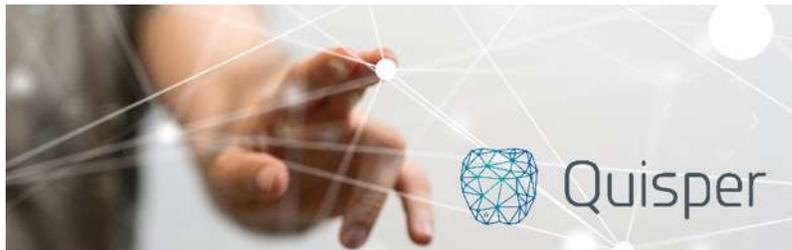
Nutrition Coaching App **VICI**

Personalised nutrition needs

In conjunction with Quisper, we are developing **VICI**, a personal coach to nudge clients in to a healthier future.

Powered by:

- Mealplans nutrition platform
- Optimal Health engine
- APIs from retailers + wearables

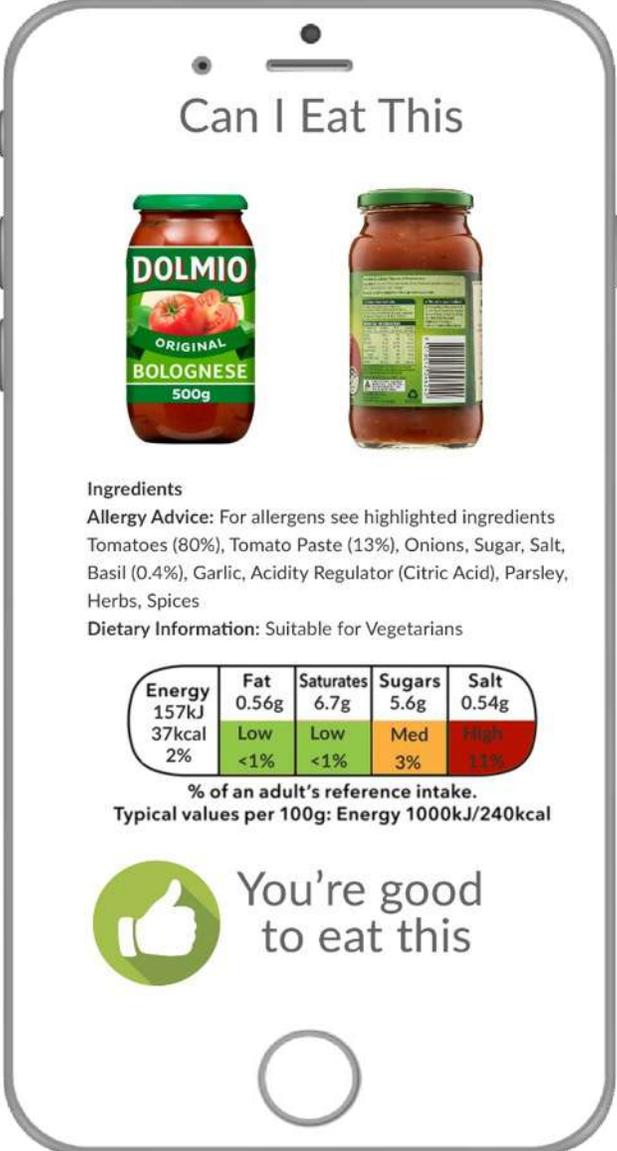


Nutrition Coaching App **VICI**

Can I eat this?

Search by:

- Product – name
- Product- type
- Product – brand name
- Barcode scanner



Can I Eat This



Ingredients
Allergy Advice: For allergens see highlighted ingredients
Tomatoes (80%), Tomato Paste (13%), Onions, Sugar, Salt, Basil (0.4%), Garlic, Acidity Regulator (Citric Acid), Parsley, Herbs, Spices
Dietary Information: Suitable for Vegetarians

Energy	Fat	Saturates	Sugars	Salt
157kJ	0.56g	6.7g	5.6g	0.54g
37kcal	Low	Low	Med	High
2%	<1%	<1%	3%	11%

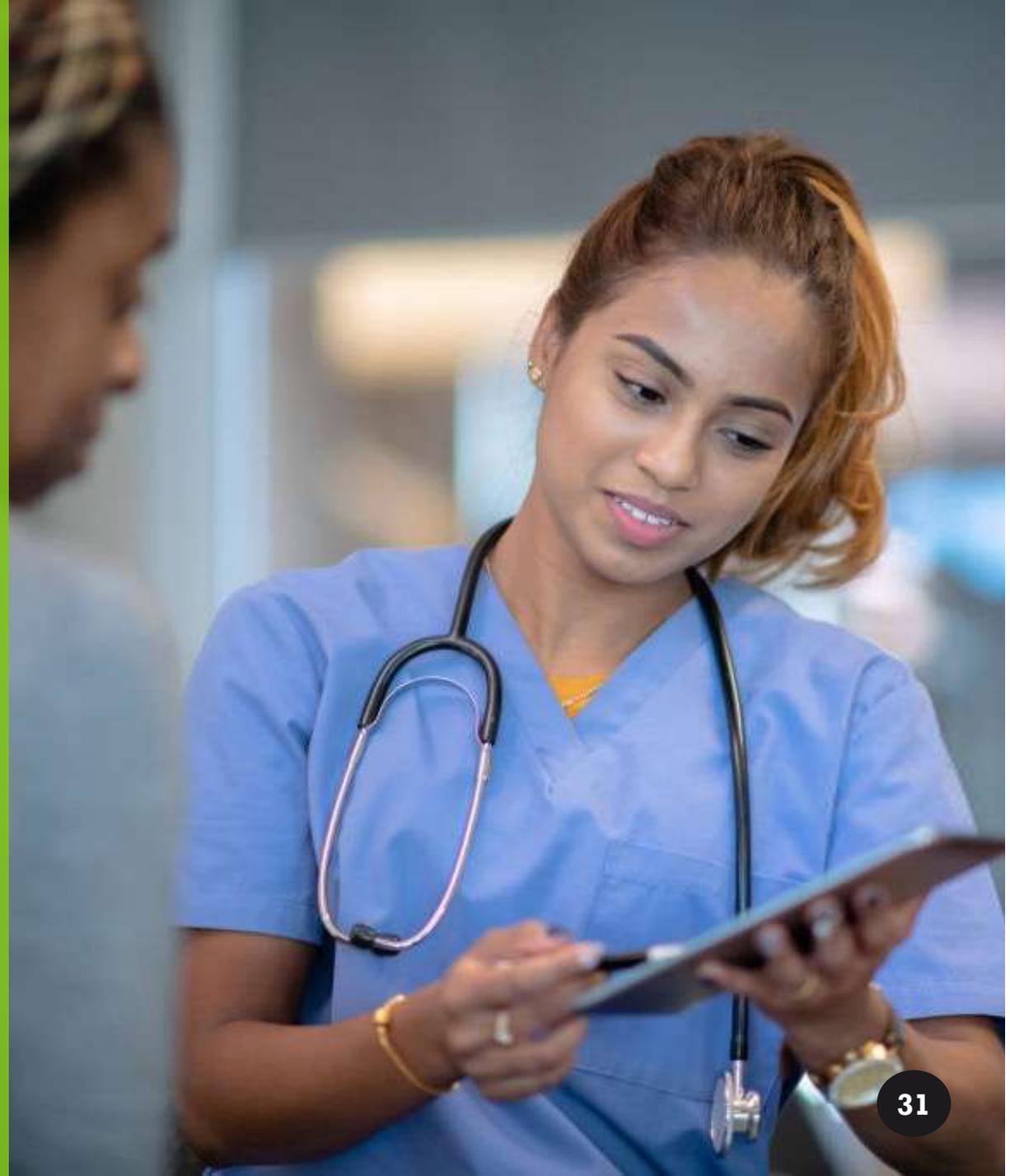
% of an adult's reference intake.
Typical values per 100g: Energy 1000kJ/240kcal

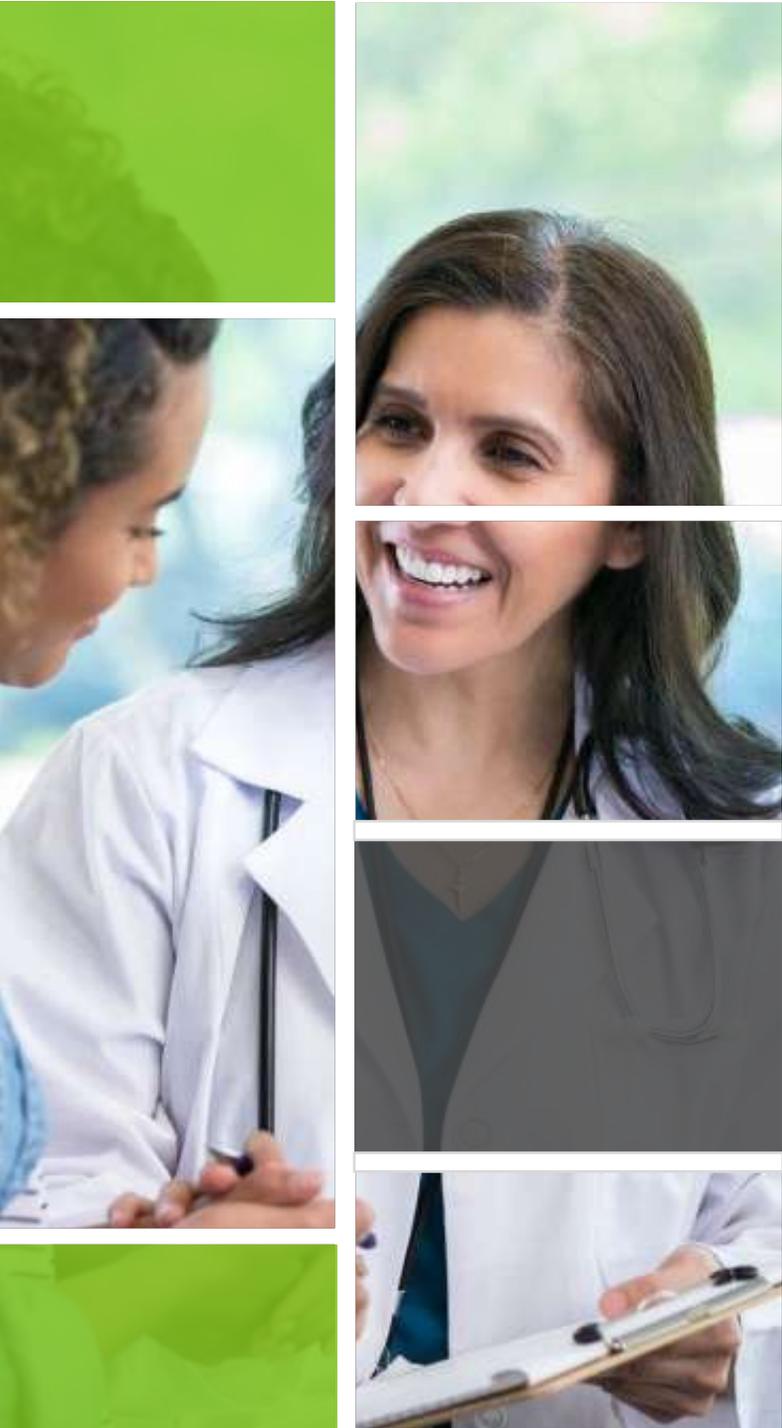


You're good to eat this

Summary

1. The role of nutritional genomics, consultation questionnaires and blood biomarkers
2. How we apply these data sources to recommend personalised nutrition interventions and meal plans
3. How we are dealing with the challenges of client compliance and reporting outcomes





We are at the beginning of realising the potential of technologies to improve health through diet and lifestyle interventions.

Type 2 diabetes is only one of many chronic diseases that could be prevented by bringing together science, technology and human behaviour.

Contact Details

Bernie Williams

Co-founder, CEO

Email:

bernie@mydnahealth.co.uk

Tel:

+44 (0)1603 861 614

Mobile:

+44 (0)7806 099 453

myDNAhealth

intelligent health and nutrition

