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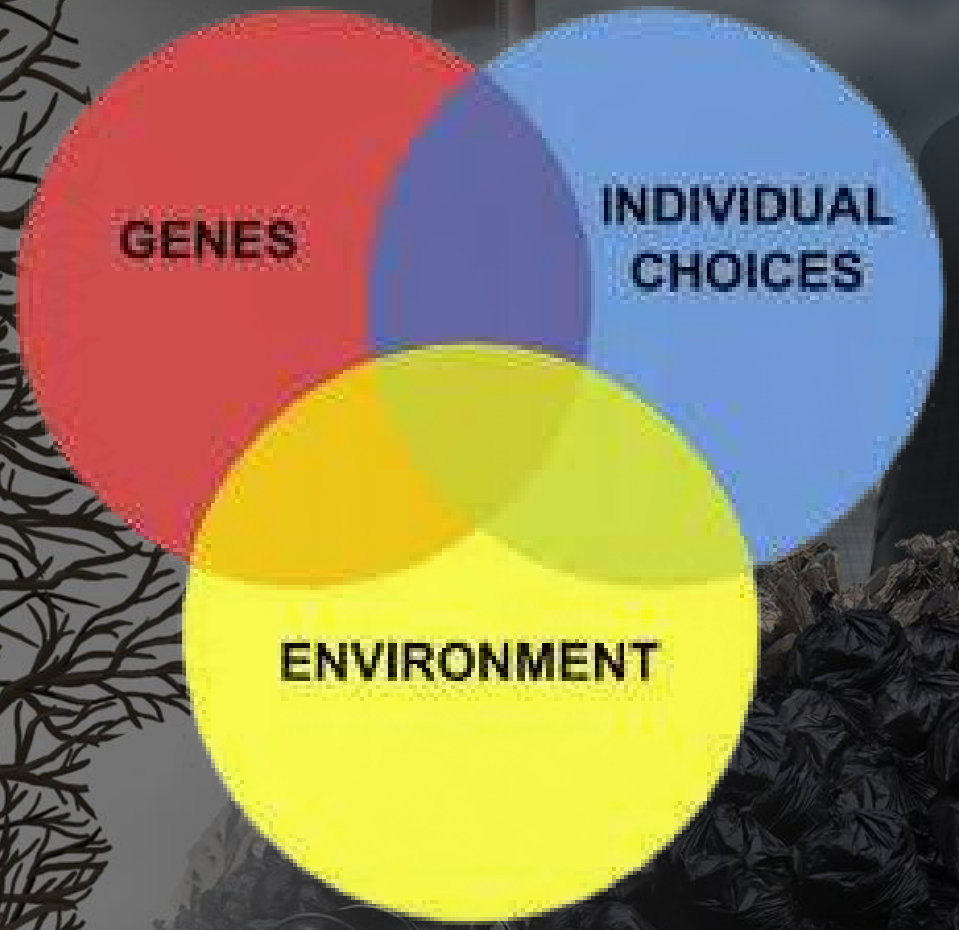
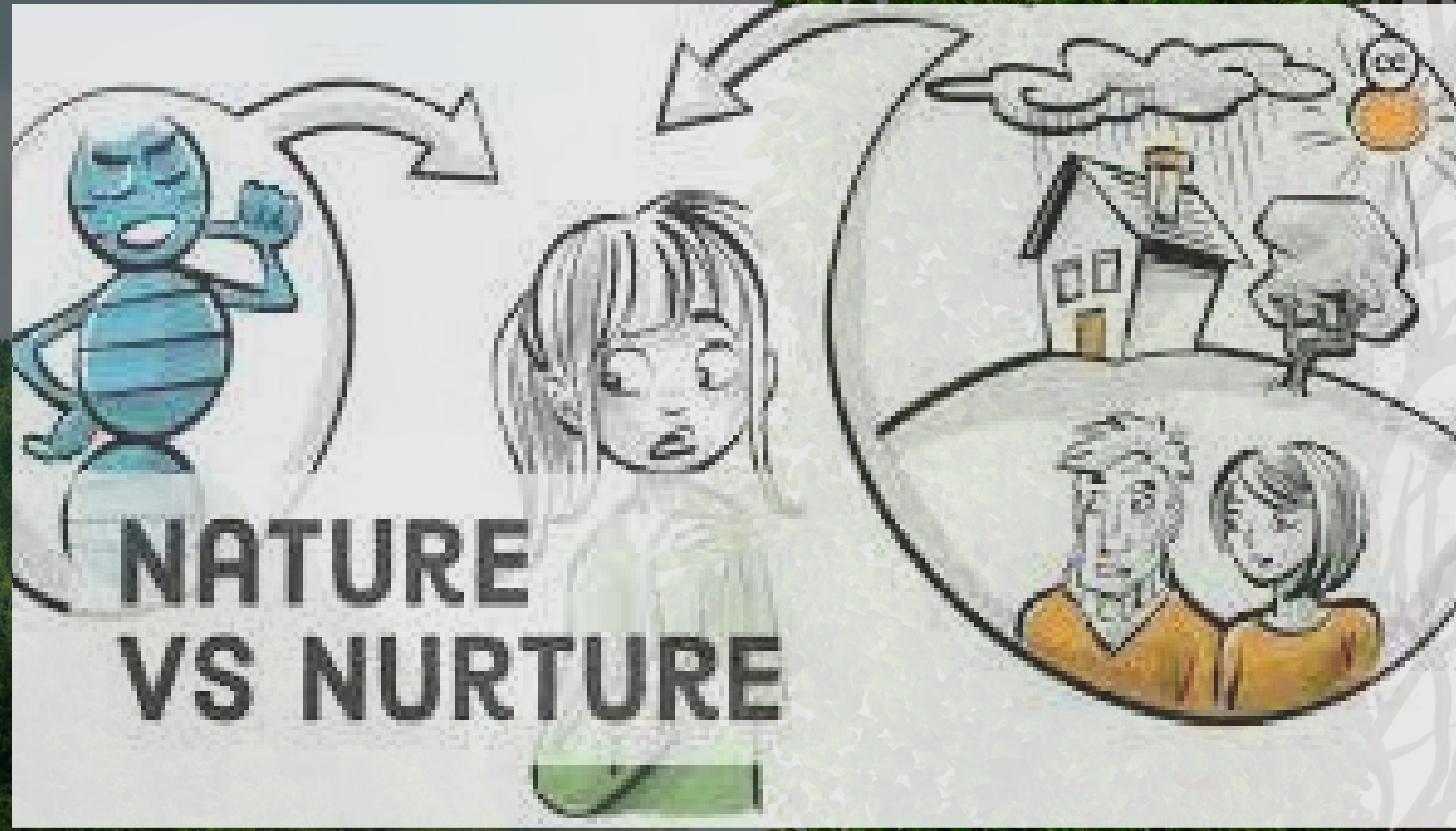
**Genescope HealthTech
Pvt. Ltd.**

**Nutrigenomic solutions
for a healthy lifestyle**



Many researchers today believe that health outcome is influenced by both **NATURE** (genetic make-up) and **NURTURE** (environment)

Health outcome is a complex interplay between your **GENES** and impact of **ENVIRONMENT / LIFESTYLE** on gene expression

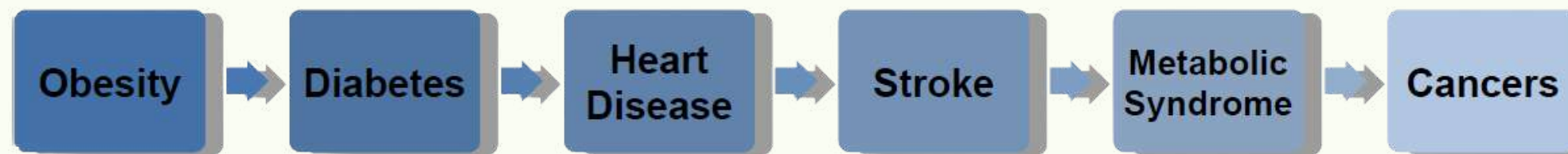


True you can't change your genes, HOWEVER, you can compensate for genetic weaknesses, the influence of environment / lifestyle and changes in gene expression by making the right nutritional, exercise and lifestyle choices aligned to your genomic profile

Understanding genetic makeup helps target the root cause

Increase Healthy years and Reduce Disability years

Obesity is the main cause for many diseases or disorders

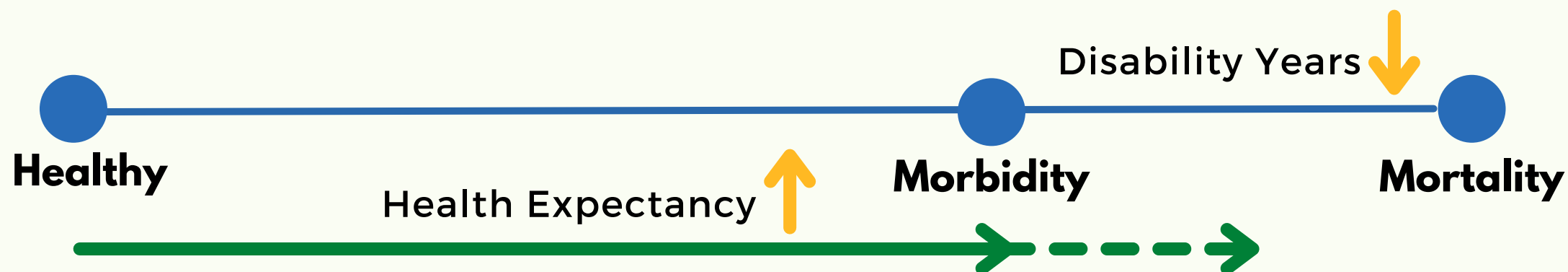


Genomic profiling helps maximise health potential:

- Genetic make-up - Genotypes and variants
- Changes in Gene expression
- Disease propensity
- Fitness level

Health Benefits

- Avoiding illness
- Delaying disease onset
- Remaining Fit
- Lower Healthcare cost
- Reversal of metabolic disorders



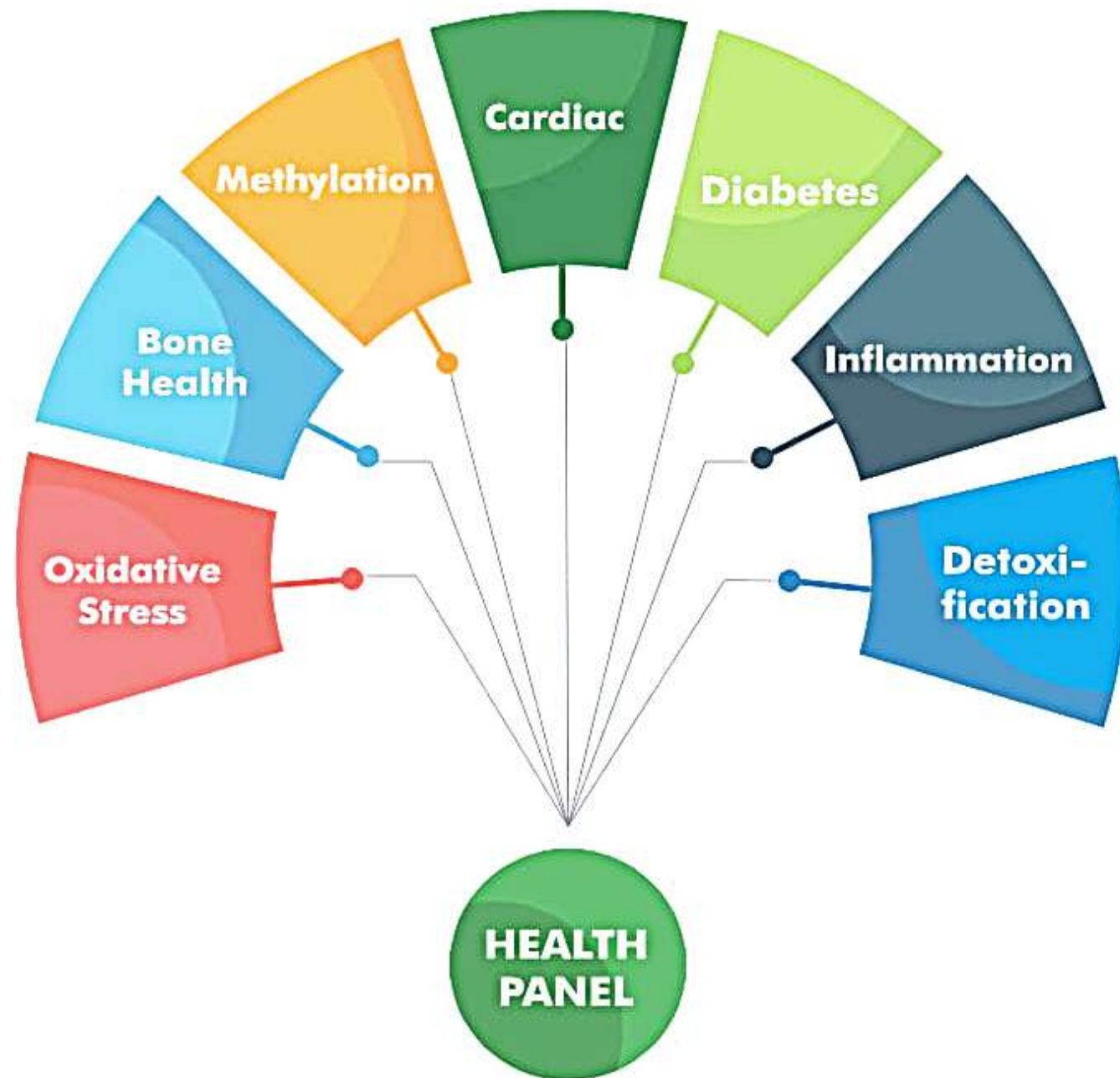
Improvements in lifestyle

- Health, Fitness, Wellness and Immunity
- through **Personalized** interventions
- Nutrition, Diet, Exercise and Medication
 - Aligned with your Genomic profile

Importance of genes in Lifestyle Healthcare Management

Genetic knowledge has the potential to shift healthcare from a disease focused model to prevention based model.

**PREVENTION IS ALWAYS BETTER THAN CURE
PROACTIVE IS BETTER THAN REACTIVE**



- Diseases are preventable, and can be managed much better if identified earlier on.
- By knowing What is Normal, one can stay away from abnormal to stay healthy
- Prevention is economic and easy as compared to Long term Treatments

**UNVEIL THE FACTORS RESPONSIBLE FOR HEALTH
MANAGEMENT**

HEALTH PANEL

Suggested In

**Individual Suffering From or
Having Family History of Lifestyle Diseases**

- Obesity
- Cardiovascular Diseases
- Hypertension
- Type 2 Diabetes
- PCOS
- Fatigue
- Depression
- Anxiety

Gene Based Recommendations:

- Diet Recommendations
 - Exercise Recommendations
 - Lifestyle Advice
- For Prevention and
Management of Lifestyle Diseases

Health Panel

Clearance of Triglycerides, VLDL, LDL & Response to Statins

Intake of Fat, Triglycerides, Intervention of Exercise, Intake of Omega-3 Fatty Acid & Lifestyle Management

Homocysteine Metabolism

Requirement of Methylated or Non Methylated Vit B6, B9 & B12

Methylation

Detoxification of Environmental & Endogenous Substance and Requirement of Antioxidant Nutrient

Requirement of Antioxidant nutrients

Inflammation

Inflammation Related Obesity, Stress & Vascular Health

Requirement of Anti-inflammatory Nutrients

Oxidative Stress

Mitochondrial Oxidative Damage, Cell Proliferation, Vascular Health

Requirement of Antioxidant nutrients

Bone Health & Vit D Metabolism

Bone Injury Risks, Joint Injury Risks, Recovery Tendency

Requirement of Vit D for IR Management, Intervention of Exercise

Insulin Sensitivity & Energy Regulation

Carbohydrates & Fats Balance, Insulin Resistance Tendency, Obesity Associated with IR, Satiety & Energy Level

Intake of Sat Fat, Carbohydrates, Intervention of Exercise

Exercise Responsiveness

Response to Exercise, Frequency, Intensity

Power or Endurance
Type of Exercise,
Morning or Evening



Importance of genes in Diet and Nutrition Management

Diet is not about eating less food, but all about eating the right food that makes your cells smile

THE ONLY REMEDY THAT CAN BRING FULL RECOVERY IS

...NUTRITION



Carbs
Fats
Protein
Vitamins
Minerals
Electrolytes

Genes Govern

- Requirement of Carbs, Fats & Protein
- Requirement of Vitamins & Minerals
- Requirement of Anti-inflammatory Agents
- Requirement of Antioxidants
- Requirement of Electrolytes

UNVEIL THE FACTORS RESPONSIBLE FOR DEFICIENCIES

NUTRIGenomics

Personalized Diet and Exercise Plan

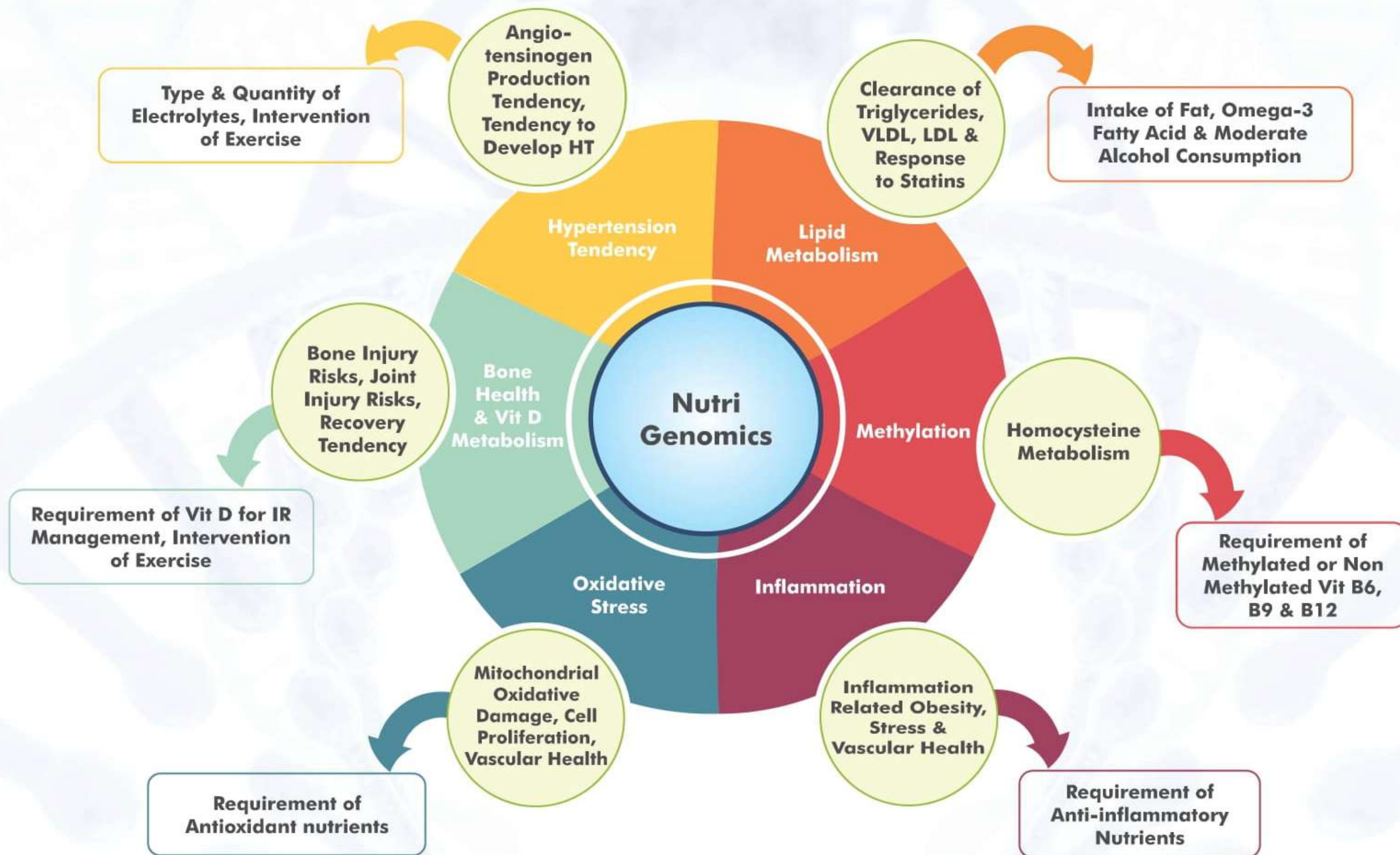
- Adequate, well balanced diet combined with regular physical activity
- Management of overall nutrition intake

Suggested In

- Optimizing Micronutrient & Macronutrient Balance
- Predicting Deficiency Tendencies
- Management of Vitamin/Nutrient Deficiency
- Preventive Health Management

Gene Based Recommendations:

- Diet Recommendations
 - Exercise Recommendations
 - Lifestyle Advice
- For Management of Nutrition

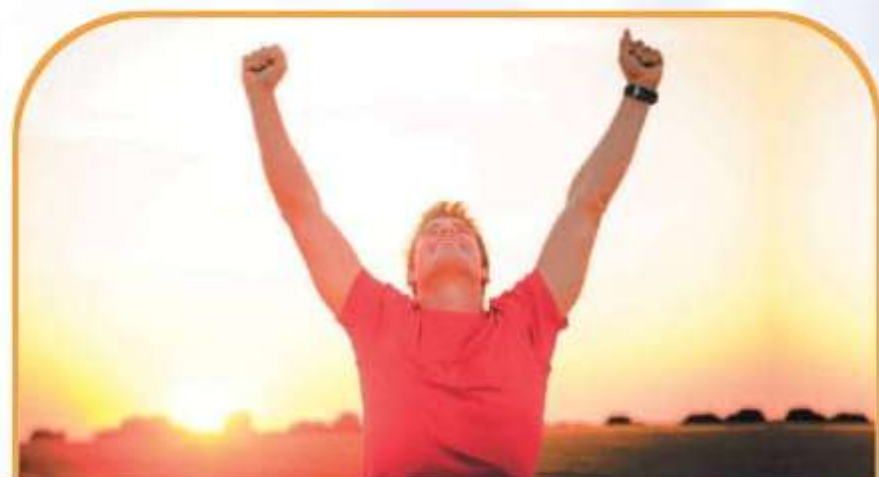




Importance of genes in Optimizing Fitness

***Replace some workload with a good
workout. Feel free and Alive!!!***

BEING FIT & HEALTHY IS A LIFESTYLE AND NOT A FASHION



How Can
I Stay
Fit ?

Type of Exercise
Time of Exercise
Type of Food

Genes Govern

- Type of Exercise – Power or Endurance
- Time of Exercise – Morning or Evening
- Type of Training & Warmup
- Requirement of Electrolyte
- Type of Food – Fat vs Carbs

UNVEIL THE FACTORS RESPONSIBLE FOR FITNESS

FITGenomics

Personalized Exercise & Diet Plan

- Choosing Right Sports for Kids
- Performance Optimization for Professional Sportsman
- Maximize Exercise Benefits

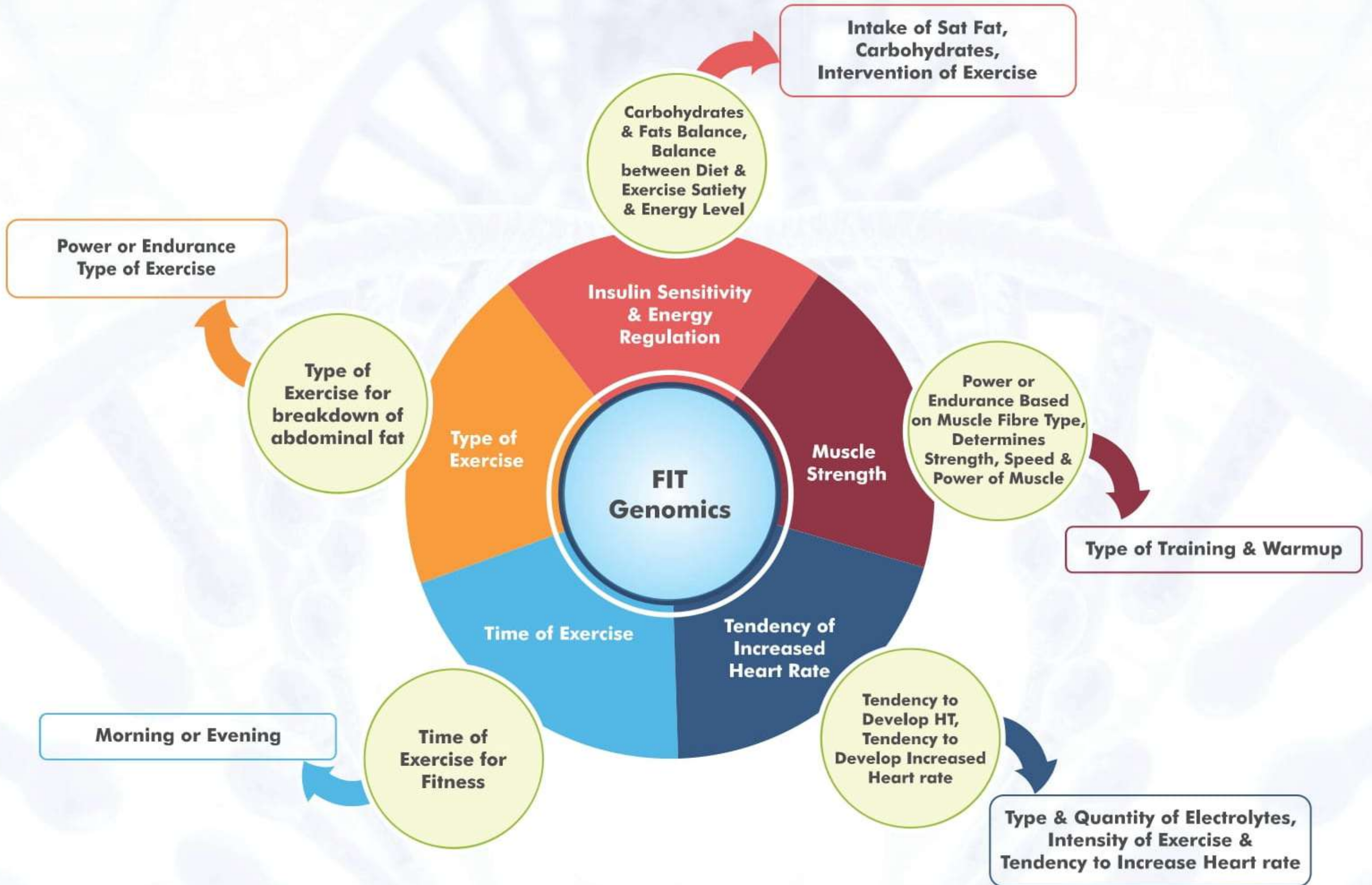
Suggested In

- Sports Ambitious Kids
- Professional Sportsman
- Exercise Enthusiasts

Gene Based Recommendations:

- Exercise Recommendations
- Diet Recommendations
- Lifestyle Advice

For Management Stay Fit & Healthy



*Listen to what your Genes Say, To be on your Way!!!
...to achieving 2.5 times more weight loss*

**Importance of genes in
Weight Loss Management**



RESCUE YOURSELF FROM OBESITY



Which diet suits me for Weight Loss ?

Intermittent fasting
Two Meal Diet
Crash Diet
Keto Diet
Mediterranean Diet
Meal Replacements

Genes Govern

- Type of Food : Carbs Vs Fats
- Time of Food Intake : Meal plan
- Type of Exercise : Power Vs Endurance
- Time of Exercise: CLOCK gene
- Snacking tendency management

UNVEIL THE FACTORS RESPONSIBLE FOR WEIGHT MANAGEMENT

SLIMGenomics

Personalized Diet and Exercise Plan

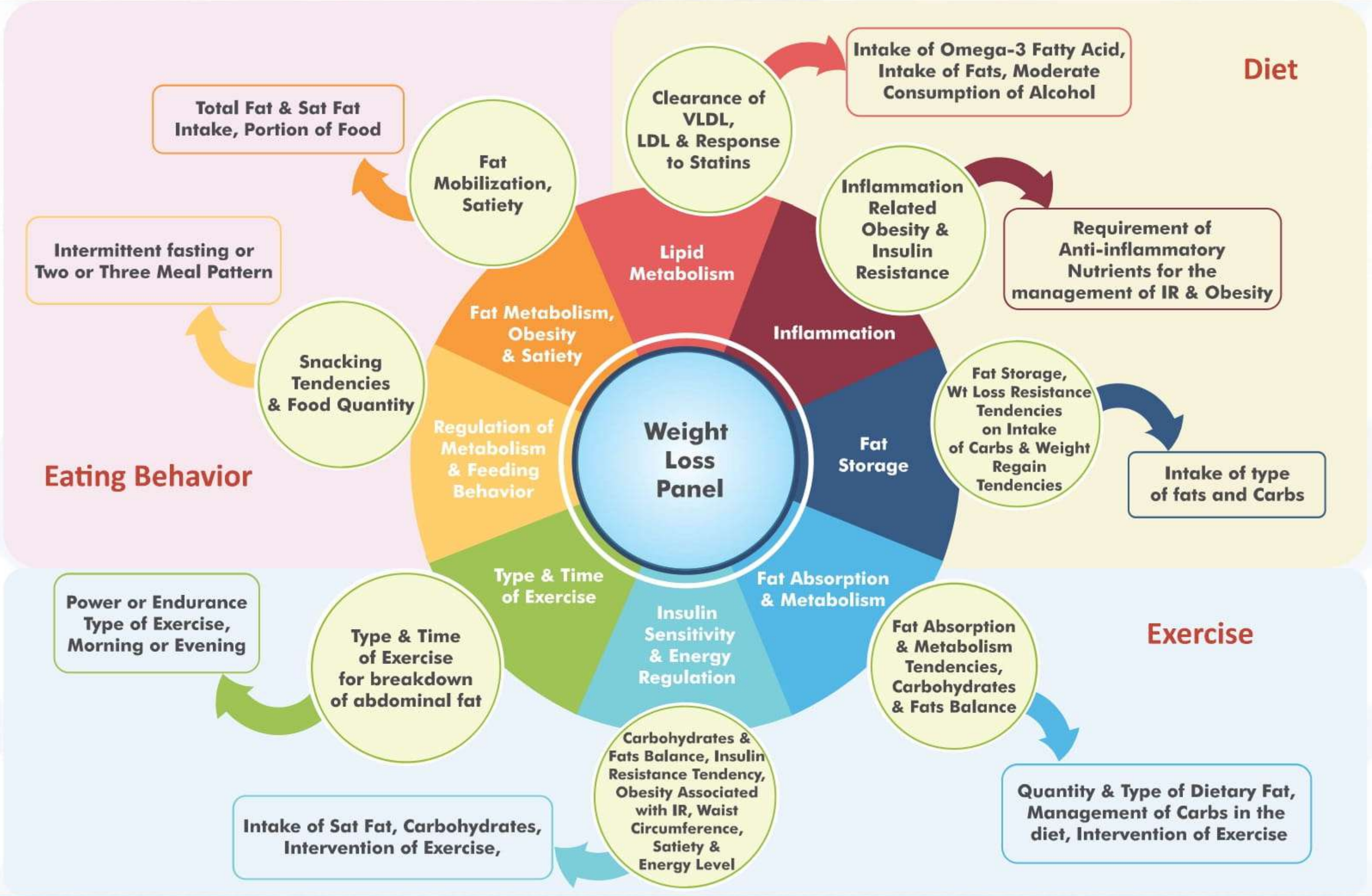
- Weight loss can be achieved 287% more effectively if followed by Genetics.
- People on Genetically Appropriate Diet lose Twice the Number of Waist Inches¹

Suggested In

- Overweight
- Type 2 Diabetes
- Obese & Non Obese PCOS Conditions

Gene Based Recommendations:

- Diet Recommendations
 - Exercise Recommendations
 - Lifestyle Advice
- For Accelerated Weight Loss



Weight Loss Panel

Diet

Eating Behavior

Exercise

Clearance of VLDL, LDL & Response to Statins

Intake of Omega-3 Fatty Acid, Intake of Fats, Moderate Consumption of Alcohol

Inflammation Related Obesity & Insulin Resistance

Requirement of Anti-inflammatory Nutrients for the management of IR & Obesity

Fat Storage, Wt Loss Resistance Tendencies on Intake of Carbs & Weight Regain Tendencies

Intake of type of fats and Carbs

Fat Metabolism, Obesity & Satiety

Total Fat & Sat Fat Intake, Portion of Food

Intermittent fasting or Two or Three Meal Pattern

Snacking Tendencies & Food Quantity

Regulation of Metabolism & Feeding Behavior

Power or Endurance Type of Exercise, Morning or Evening

Type & Time of Exercise for breakdown of abdominal fat

Carbohydrates & Fats Balance, Insulin Resistance Tendency, Obesity Associated with IR, Waist Circumference, Satiety & Energy Level

Intake of Sat Fat, Carbohydrates, Intervention of Exercise,

Fat Absorption & Metabolism

Fat Absorption & Metabolism Tendencies, Carbohydrates & Fats Balance

Quantity & Type of Dietary Fat, Management of Carbs in the diet, Intervention of Exercise

Type & Time of Exercise

Insulin Sensitivity & Energy Regulation



Importance of genes in Cardiac Health Management

***Waking up to the beats of a healthy Heart,
is a great way for the day to Start!!!***



To Beat or Not To Beat,
That **Should Not** Be The Question



Genes Govern

Impact of following on Cardiac and Vascular Health

- Homocysteine
- Cholesterol Balance - HDL:LDL:TG:vLDL
- Oxidative Stress & Vascular Health
- Inflammation Tendency & CRP
- Response to Dietary Saturated Fat

HEART HEALTH PANEL

**Personalized Diet and Exercise Plan
for The Prevention and
Management of Cardiovascular Diseases**

Suggested In

- Cardiovascular Diseases
 - Stubborn Obesity
 - Family history of Cardiovascular Diseases
- For Prevention and Management**

Gene Based Recommendations:

- Diet Recommendations
 - Exercise Recommendations
 - Lifestyle Advice
- For Prevention & Management
of CAD/CVDs**

Hypertension

Angio-tensinogen Production Tendency, ACE activity, Intake of Caffeine, Tendency to Develop HT

Type & Quantity of Electrolytes, Type & Quantity of Caffeine, Intervention of Exercise

Lipid Profile

VLDL & LDL Clearance from Blood

Intake of Triglycerides & Metabolism Management

HDL Metabolism & Response to Statins

Intake of Fat, Intervention of Exercise, Lifestyle Management

VLDL & LDL Clearance from Blood, Response to Statins

Intake of Omega-3 Fatty Acid, Intake of Fats, Moderate Consumption of Alcohol

Hyper-tension Tendency

VLDL Metabolism

HDL Metabolism

Vascular Health

Triglyceride Metabolism

Triglyceride Clearance from Blood

Oxidative Stress

Inflammation

Methylation

Homocysteine Metabolism

Mitochondrial Oxidative Damage, Cell Proliferation, Vascular Health

Inflammation Related Obesity & Vascular Health

Requirement of Antioxidant nutrients

Requirement of Anti-inflammatory Nutrients

Stress & Deficiencies

Requirement of Methylated or Non Methylated Vit B6, B9 & B12

Intake of Triglycerides & Metabolism Management

Heart Health Panel

A pair of hands is shown holding a blue glucometer. The device's screen displays a reading of '98 mg/dL'. The background is a solid light blue color.

Importance of genes in Diabetic Health Management

*Putting your Diabetes in Reverse gear,
puts your Life in Forward gear*

DONT LET THE SWEETNESS OF SUGAR DEPRIVE YOU

FROM ENJOYING THE SWEET MOMENTS IN LIFE



Genes Govern

- Impact of following on Insulin Resistance
 - Body fat
 - Dietary fat
 - Dietary Carbs
- Types of exercise needed
- Impact of Gluten
- Requirement of Vit D

UNVEIL THE FACTORS RESPONSIBLE FOR DIABETES MANAGEMENT

DIABETES PANEL

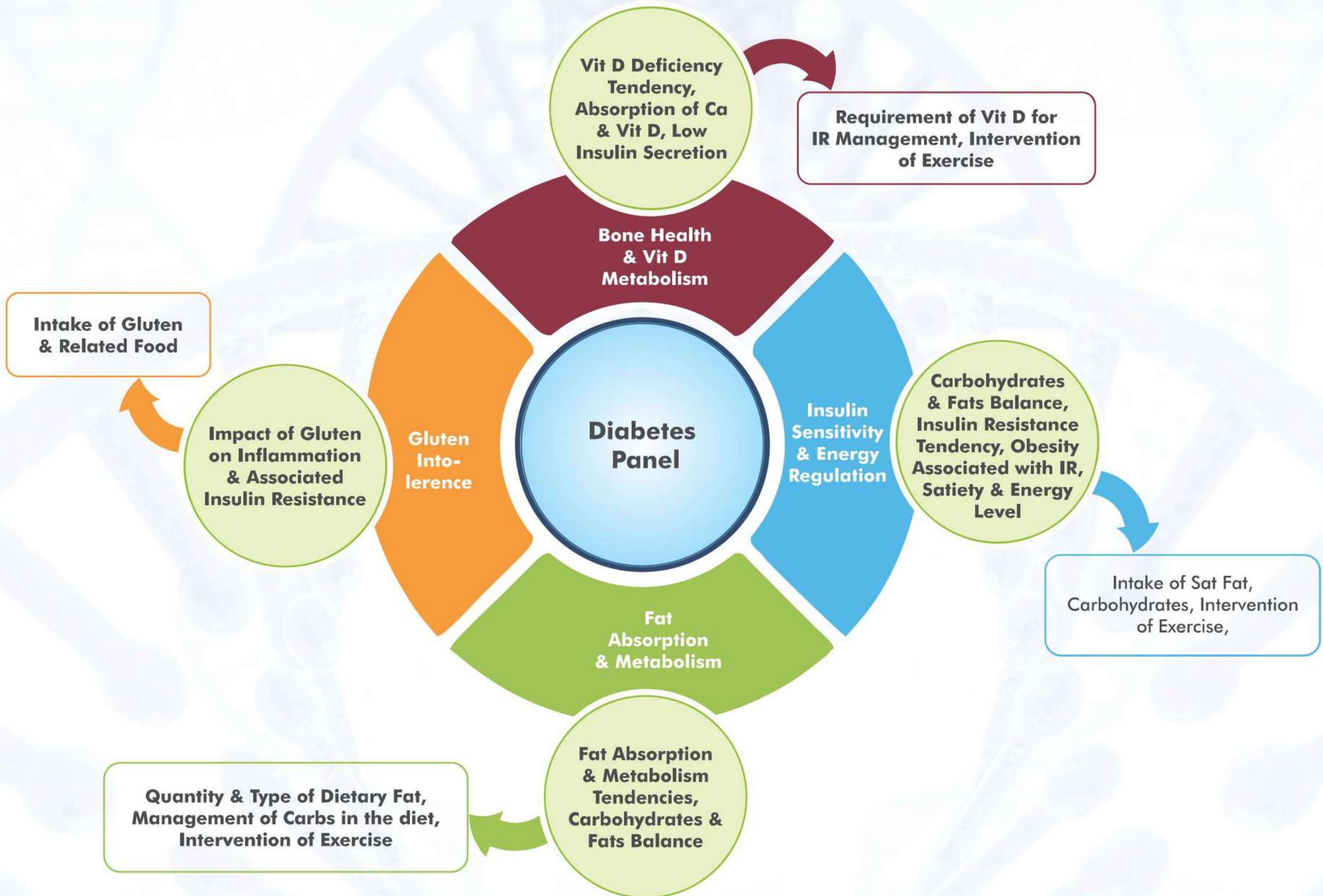
**Personalized Diet and Exercise Plan
for The Prevention and Management
of CAD and CVD**

Suggested In

- Morbid Obesity
 - Stubborn Obesity
 - Type 2 Diabetes
- For prevention and management**

Gene Based Recommendations:

- Diet Recommendations
 - Exercise Recommendations
 - Lifestyle Advice
- For Prevention & Management of
Type 2 Diabetes**





Importance of genes in Sport Performance

Understanding your inherent genetic strengths helps boost sports performance

DIFFERENT SPORTS, DIFFERENT NEEDS



Power
Endurance
Mixed
Skill

Genes Govern

- Type of Exercise – Power or Endurance
- Type of Training & Warmup
- PCF Management
- Injury Management
- Inflammation Management
- Requirement of Antioxidant & Vit D

UNVEIL THE FACTORS RESPONSIBLE FOR BOOSTING SPORTS PERFORMANCE

SPORTS PANEL

Personalized Exercise Diet and Plan

- Choosing Right Sports for Kids
- Performance Optimization for Professional Sportsman
- Maximize Exercise Benefits

Suggested In

- Sports Ambitious Kids
- Professional Sportsman
- Exercise Enthusiasts

Gene Based Recommendations:

- Exercise Recommendations
 - Diet Recommendations
 - Lifestyle Advice
- For Selection & Performance in Suitable Sports



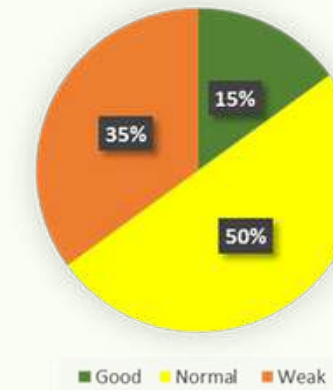
Sample summary report



Vascular Diseases & CVD Management

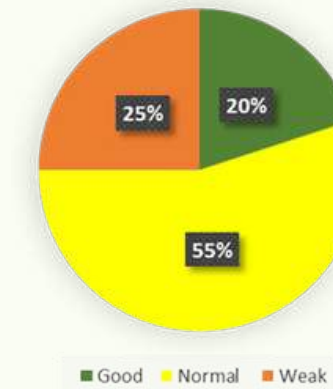
Traits	Propensity	Rating	Description
Cardiomyopathy	Elevated	8.0	As per your genotype, you have a elevated propensity of developing Cardiomyopathy.
Oxidative Stress in Heart Health	Elevated	8.0	As per your genotype, you have a elevated propensity to develop oxidative stress that affects cardiac health.
Atherosclerosis	Highly Elevated	8.4	As per your genotype, you have a highly elevated propensity of developing Atherosclerosis.
LDL Cholesterol Metabolism	Typical	6.0	As per your genotype, you have a normal propensity to develop high levels of Low Density Lipoprotein (LDL).
HDL Cholesterol Metabolism	Elevated	6.1	As per your genotype, you have a elevated propensity to develop low levels of high density lipoprotein.
Methylation	Elevated	6.6	As per your genotype, you have a elevated propensity to develop an imbalance in the methylation process affecting cardiac health.
Hypertension	Typical	5.7	As per your genotype, you have a normal propensity of developing Hypertension.

Obesity Distribution



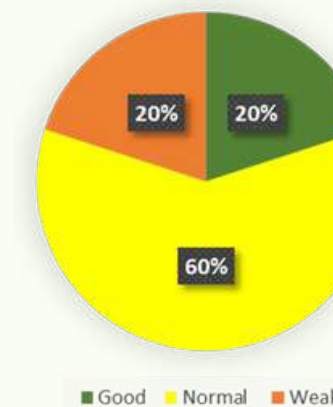
Almost 35% of the people show a genomic profile which increases susceptibility / propensity for developing Obesity.

Diabetes Distribution



Almost 25% of the people show a genomic profile which increases susceptibility / propensity for developing Diabetes.

CVD Distribution



Almost 20% of the people show a genomic profile which increases susceptibility / propensity for developing Cardiac problems.

Sample detailed report

Detailed genomic profile report gives an indepth analysis of the different parameters associated with traits and the genes involved impacting health outcomes.

Oxidative Stress In Heart Health

What is Oxidative Stress in Heart Health ?

Oxidative stress is the imbalance between the production of free radicals or reactive oxygen species (ROS) and antioxidants. ROS are generated as a by-product during normal cellular metabolism and tend to easily react with other molecules. Antioxidants help stabilize the ROS, making them less reactive. An excess of ROS is involved in many pathophysiology of cardiovascular diseases. It increases oxidation of biomolecules which causes damage to tissues and organs, endothelial dysfunction, calcium signaling abnormalities, thus affecting the cardiac health.

Interpretation

7.6



Oxidative Stress in Heart Health

As per your genotype, you have a slightly elevated risk of developing oxidative stress in cardiac health issues. Factors like number of free radicals or reactive oxygen species in the body can increase due to influences from environmental factors such as pollution, heavy metals, UV radiation, ionizing radiation, certain drugs, chemical solvents, lifestyle, aging, or underlying diseases, which may increase the risk of developing oxidative stress, thus causing cardiac health issues.

Gene Name: Near SOD3

Your Genotype: TT

SOD3 is found predominantly in the extracellular matrix of mammalian tissues. It scavenges the superoxide radical and reduce its toxicity by converting it to H_2O_2 which in turn is converted to oxygen and water by the action of other antioxidant enzymes.

Gene Name: SOD3

Your Genotype: AA

SOD3 is found predominantly in the extracellular matrix of mammalian tissues. It scavenges the superoxide radical and reduce its toxicity by converting it to H_2O_2 which in turn is converted to oxygen and water by the action of other antioxidant enzymes. It is the primary extracellular antioxidant enzyme in the lung and protects the extracellular matrix during lung injury.

Benefits of Genomic Profiling?

- Identify common dietary active ingredients altering gene expression
- Identify the circumstances under which in some individuals, diet can be a serious risk factor for a number of diseases.
- Identify gene variants likely to play a role in the onset, incidence, progression, and/or severity of chronic diseases.
- Determine the degree to which diet influences the balance between healthy and disease states based on Polygenic Propensity Score
- Make the RIGHT choices for YOUR health, based upon your genome, to achieve optimal health and well-being choosing the RIGHT food, supplements, exercise and lifestyle habits to prevent, mitigate or cure chronic disease.



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Unleash the Power of Your Genes

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