

COMPREHENSIVE WELLNESS





FTO VARIATIONS LINKED TO 20-30% INCREASED RISK OF OBESITY 30 MINUTES MODERATE ACTIVITY PER DAY



NO LESS THAN 25% PROTEIN AT EACH MEAL

NO MORE THAN 30% FAT AT EACH MEAL

IMPLEMENTATION OF DIETARY AND LIFESTYLE CHANGES KNOWN TO MODIFY THE FTO EFFECT



ACCORDING TO THE EVIDENCE, FTO CONTRIBUTION TO OBESITY RISK DECREASES BY ALMOST 30%

SETTING THE RIGHT EXPECTATION FOR YOUR PATIENTS

WHAT THIS TEST WILL TELL

This test will **NOT** predict the risk of a disease or condition, but will identify the individual's lifestyle factors that can modify the gene effect and improve health.

WHAT THE PATIENT SHOULD EXPECT:

- To be guided to **make dietary and lifestyle changes for a healthier life** by choosing the nutrition and exercise regimens that are more in line with **their genetic make up**
- To learn about the interactions between their genes and their lifestyle and be recommended the actions that can **help modify the effects of their genes**.
- To identify those genetic factors that contribute to, **without being the cause of**, their body weight, vitamin needs and other aspects of their wellbeing.

WHAT THE PATIENT SHOULDN'T EXPECT:

- Will not confirm or exclude the suspected diagnosis of a medical condition, intolerance or allergy.
- Will not identify whether they are carriers of a condition they could pass onto their children.
- Will not establish whether they are biologically related to other people.
- Will not predict a quantifiable risk of a disease or condition, such as breast cancer, Alzheimer's, cardiovascular disease, obesity, diabetes.

REPORT

45 SNPs COVERED OVER 37 GENES

FTO	FAD\$1	ADORA2A	COLIAI	DHCR7
PPARG	GRK4	CYP1A2	COL5A1	GC
MTIF3	NOS3	AHR	BCM01	VDR
ADIPOQ	CD36	ACTN3	SLC23A1	TMPRSS6
MC4R	TAS2R38	AGT	NBPF3	TF
UCP1	TAS1R2	AMPD1	MTHFR	
APOA5	MCM6	PPARGC1A	FUT2	
LIPC	CYP1A1-CYP1A2	IL6	CYP2R1	

5 HEALTH AND WELLNESS AREAS COVERED

TASTE PREFERENCE & FOOD RESPONSE	FITNESS	HEART HEALTH
WEIGHT MANAGEMENT	VITAMINS	

TEST IMPLEMENTATION

HOW TO USE THIS TEST

Identify the primary focus of the patient (Weight Loss, 1 Vitamin levels, Heart Health, Food response, Fitness)

TABLE OF CONTENTS		
WEGHT MANAGEMENT WEGHT MANAGEMENT YEAT STORAGE 16 BOOY 382 AN WEIGHT REGAIN TF FAT STORAGE 18 ENROY SEX AN WEIGHT REGAIN 17 FAT BURNING 18 ENROY SEX AN WEIGHT REGAIN 17 TSTEMPERFENCE AND FOOR ERSONSE PREFERENCE TO BITTER TASTE 22 PREFERENCE TO BITTER TASTE 23 CAFTERE 24 LACITAGE PERSISTENCE DAVET FOODS 26 CAFTERE 27 CHAFENE 28 CATERE 29 TRIGUERDES 31 ATTINDUMUT REVTILE AND BLOOD PRESSURE 33 VITAMINA AND OTHER UNTREINTS	VITAMIN B6 NEEDS VITAMIN 612 NEEDS VITAMIN A NEEDS VITAMIN A NEEDS CALCULA, DONE STRENGTH AND STRESS PRACTURE: IRCN NEEDS OMEGA 3 N/D OMEGA 6 PROCESSING FITHESS AND DEVERCISE MUSCLE FRONTH MUSCLE STRENTH MUSCLE FRONT MUSCLE FRONT MUSCLE MUSCLE FRONT MUSCLE MUSCL	38 40 42 44 48 50 52 54 55 55 55 57 58 59 60 60 62 76

Consider primarily utilising the "Your Genetic Summary" section

2

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The balance between the number of calories you consume and the calories you burn is important for your weight management. This balance is controlled by a combination of your DNA and your previonment. Your DNA controls your weight from within by influencing your appendite, your tood choices, how quickly you burn calories and how tait is stored around your body. For each person, the relative influence that their DNA has on their body is different and unique.

Based on the scientific literature that investigates the interaction between DNA and nutrients, we have created your personalized profile to help locus your attention on the dietary and lifestyle factors that are most relevant for you. We hope to enzyower you to make better decisions in your everyday life that will influence your long-term weight and health.

WHAT DO YOU NEED TO FOCUS ON TO BETTER MANAGE YOUR HEALTH?

Based on your DNA markers, the following dietary/ lifestyle factors are important for your health and weight management. This information is unique to you, so please consider these factors when making decisions about your health and wellbeing.

MODERATE I	МРАСТ	Pay	close attention: more effort required	
DIETARY/ LIFESTYLE FACTORS	YOU PROFI	R LE	PREDICTED OUTCOME	RECOMMENDATIONS
Total Fat Polyunsaturate	PPAR	G	Fat storage Your gene variation suggests that when you	Limit total calories. Limit total fat intake.

Focus on the results in High Impact group (Red) and Moderate Impact (Orange)

HIGHEST IMPACT Focus on these			
NUTRITIONAL FACTORS	YOUR	PREDICTED IMPACT	
Salt (Sodium)	GRK4	Salt influence on blood pressure Your gene variation indicates that you are likely to have a reduced ability to clear dietary sodium, especially when your sodium intake is high. You may be more sensitive to the effects of too much sodium in your diet, which may also affect your blood pressure.	
MODERATE IMPACT Pay close attention: more effort required			
DIETARY/ LIFESTYLE FACTORS	YOUR	PREDICTED OUTCOME	
Total Fat Polyunsaturate d Fat	PPARG	Fat storage Your gene variation suggests that when you eat more food than your body needs, you are likely to store the excess calories as fat.	:



Include relevant "Recommendations" from the results in your patients treatment plan

GENETIC WEAKNESSES These can be easily managed with training			
FITNESS TRAIT	YOUR	PREDICTED IMPACT	RECOMMENDATIONS
Power vs Endurance Stamina	● AGT	Muscle strength Your gene variation predicts normal muscle contraction and muscle strength. You are expected to have normal muscle power.	Follow general training recommendations.Train more frequently.
Power vs Endurance Recovery	AMPD1	Muscle energy Your muscles are moderately equipped to produce energy in short bursts. With this gene variation, you may also experience some muscle soreness after intense training.	 Combine high and low intensity training to improve your fitness and strength.
Power vs Endurance Stamina	PPARGC1 A	Endurance Your genetic finding is associated with some growth of slow-twitch muscle fibers in response to exercise. Your aerobic fitness is also moderately high. As such, you are moderately suited to endurance training.	 Combine high and low intensity training.
Power vs Endurance Stamina Recovery	● Щ.6	Recovery line Your gene variation is associated with slightly less optimal muscle libers recovery and regeneration. You may experience some muscle someness after intense training and may require additional time to recover.	Allow 1-2 recovery days between training sessions. Consider food/drinks that can help your recovery. For example: Milk (before exercising). Turmeric,

Find additional information on each result in the Genetic Result summary

WEIGHT, APPETITE AND OBESITY

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Vorugenietic finding is: Vorugenietic finding is: Not associated with obsetly. Associated with normal regulation of appetite. Your genetic result is only one factor that influences your tisk of obsetly. Other factors, such as diefary and lifetyle choices (e.g., the amount of calories you consume) are equally as important and may influence your body weight.

NORMAL RISK OF OBESITY PREDICTED IMPACT Normal regulation of nonger and feeling full; No influence on appetite and food choices; and No influence on risk of obesity.

DIETARY AND/OR LIFESTYLE FACTORS usical Activity

RECOMMENDATIONS

Limit total calories.
 Lower protein intake (15% of total calories).
 Regular moderate exercise.

Find all References and Evidence Rating explanation at the end of the report

****	Systematic review of multiple RCT (metra-analysis) Systematic review of metra analyses Single RCT (random controlled trial) with narrow confidence intervals		
****	Meta-analysis of ochort studies Prospective ochort with 80% follow up. Single RCT not in 5 Good quality ecological research Genome-wide association studies	MTHFR NataFR Schneider AS, Gonole BA, Fotote: metabolism, genes, polymop 2014333(1):10.0 Cable A, Hennes S, Salon A, Hougein M, Ye S, Banmold R, et al. Effect o Cable A, Hennes S, Salon J, Hougein M, Ye S, Banmold R, et al. Effect o biotherm total coord supplementations: condoxined: double bind, co Andreano CA. Bereford SA, Nucleano D, Lompa JM, Deeb S, Feng J, et al. Coordentification biol. Coord Res, 201325(1):837-44. International Coordentification biotheration and therein events from a cossover trick. Mol Nath Food Nes, 201325(1):837-44. International Coordentification biotherational multiton. The Proceedings of eventeence and interplacement multiton. The Proceedings of Carcio Mingalion CJ, Fernonace-Bolott JD, Cenued S, Ros L, Bueno O, excluting H, Camper H SC, Salon JJ, Dannes A, Ward JA, Aldoky AM, et al.	
***	Multiple case control studies Meta-analysis of case control Follow up cohort <80% Cross sectional studies >1000 people Case control good quality		
**	Single case control not in 3 Case-series Cross sectional <1000 people	Wilson CP, Ward M, McNully H, Str and JJ, Touton TG, Horigan G, et al. 8 hypertension in patients with the MIHI'R 8771T genotype: a 44 follow-up Wilson CP. McNully H. Ward M. Strain JJ. Touton TG. Neet BA, et al. Bio with the MIHI'R 8771T genotype is responsive to intervention with ribotila Hypertension. 2013;61(6):1322-8.	
*	Single care report Expert opinion Blochemistry First principle Animal/bacteria analogy	Ru V., Marthylenetlenbrighdotolare Reductare CATP Tolymorphism and Population: A Melo anonkjin. Indiar J. Chili. Societum. 2014. 3 (1)(2), a. 42-1 Chen, H., X. Tang, and M. Li, Marthylenetlenbrighdotolare reductare ge in China: a sylemetic review and melo anangki. Arch Grynecz Obstett. Yadar, U., et al. "Polymorphism in folder methodom genes as mattern melo anangki?" Attention Table. 2015. (1); p. 724. Chen H. Trang, X. Liu M. Methylenetletichyrdodolar eductare gene pho China: a sylemetic review and melod anangki. Arch Gryneca Obstett. 2	