

FOOD AND SUGAR INFLAMMATION PROFILE WITH GENETIC COMPONENT

MEDICAL REPORT

♀ Margareth Smith, 72 years

Sugar

♀ GEK Lab



DIAGNOSIS: FOOD PROFILE

Wheat and Gluten





Nickel

DIAGNOSIS: SUGAR PROFILE

Pay attention to

YEASTS - Given the high level of IgG for the Yeasts group, it is necessary to avoid the systematic and daily use of food that contains yeast as well as fermented products (honey, cheese, yoghurt, wine, vinegar) in your weekly diet.



FOOD INFLAMMATION







SUGAR INFLAMMATION

Glycated Albumin (GA)





HIGH

0.223

GENETIC PREDISPOSITIONS

GENE: TCF7L2



The genetic predisposition related to the development of type 2 diabetes is present

GENE: FTO



The genetic predisposition related to the development of overweight and obesity is absent

GENE: PNPLA3



The genetic predisposition related to the development of hepatic steatosis is present

TNFSF13B GENE



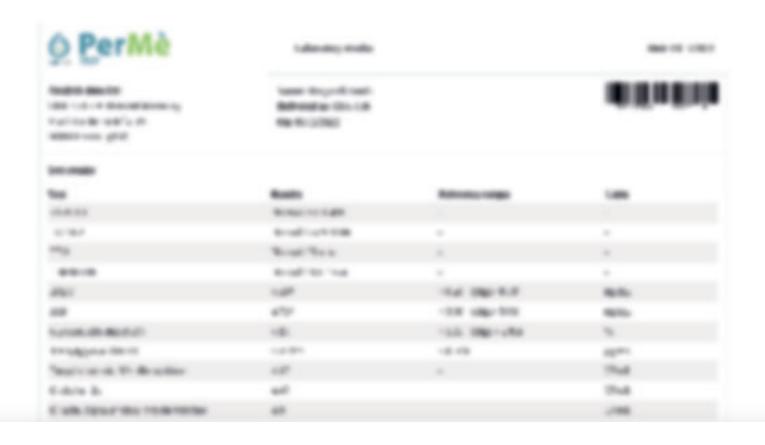
Presence of a genetic predisposition to the development of higher BAFF levels





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- ♀ GEK Lab

GENIC COMPONENT

TNFSF13B GENE



We have analysed from your DNA one particular gene of chromosome 13 (TNFSF13B) related to BAFF's production. The results showed that: one copy of the gene corresponds to a different trait (gene variant

one copy of the gene corresponds to a different trait (gene variant BAFF-var)* compared to the general population

(*) The gene variant TNFSF13B BAFF-var was examined with the Custom TaqMan SNP Genotyping test (Assay ID: ANZTJ7R) (Applied Biosystems, California, USA) performed with Real-Time PCR Rotor-Gene Q (Qiagen, Germany). The allelic discrimination analysis was carried out with the Rotor-Gene Q Series Software 2.1.0 (Qiagen, Germania).

Presence of a genetic predisposition to the development of higher BAFF levels

The specific gene variant BAFF-var is present in one of the copies of the BAFF gene in one of the two homologous chromosomes. The presence of this variant is associated with a possible increase in the level of this inflammatory cytokine in response to different stimuli. It is a predisposition that can be effectively controlled by activating the most suitable epigenetic mechanisms: lifestyle, nutrition, physical activity, and personalised supplementation.

BAFF production depends on the immunological response to external stimuli as well as endogenous ones. Among these, as explained by Lied^(F3), nutrition has a primary role, and repeated contact with the same foods contributes to keeping high levels of the inflammatory cytokine. BAFF is involved in most of the body's defensive processes and is strongly implicated in the regulation of antibodies production. An unjustified increase in BAFF can lead, for example, to the excessive synthesis of autoantibodies, favouring the development of autoimmune diseases. BAFF itself can play a role in many of the most common and frequent diseases and disorders, involving the skin, joints, muscles, endocrine system, and metabolism.

Controlling the increase of BAFF is a reliable clinical significant tool for the proper and effective prevention of these diseases. The genetic predisposition to increase the level of BAFF, identified by the analysis of your DNA, strongly highlights the importance of knowing and limit the different environmental factors that determine its production. Therefore in your case, more than for other patients is crucial, but above all possible, to carefully control your diet for more extended periods.



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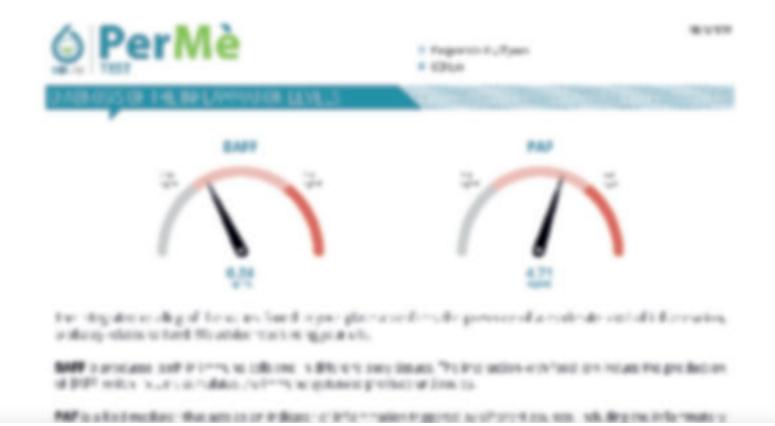
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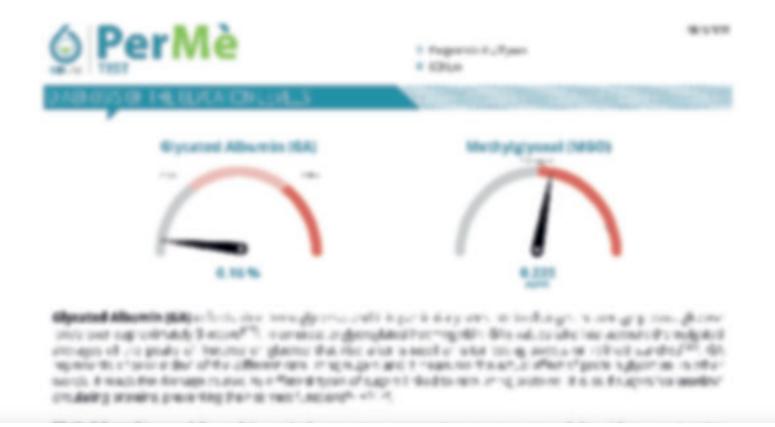
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- GEK Lab

DIAGNOSIS OF FOOD PROFILE

The Great Food Groups

The IgG values have indicated an excessive or repeated use of the foods present in the groups of:

Wheat and Gluten



Nickel



Pay attention to

YEASTS - Given the high level of IgG for the Yeasts group, it is necessary to avoid the systematic and daily use of food that contains yeast as well as fermented products (honey, cheese, yoghurt, wine, vinegar) in your weekly diet.

ALLERGIES (IgE)

The antibodies evaluated in this test are Immunoglobulins G, whose level can decrease to almost zero when a food has not been consumed in a long time. Anyone who has experienced IgE-mediated allergies to certain foods, or who has had anaphylactic reactions after eating certain foods, should NOT include them in their dietary plan (even if indicated in the report), except in the case of direct medical supervision.



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FROM STORY SHEET SHAPE



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THE FOOD GROUPS



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AVENA CANNED FOOD

Nickel is a metal present in many commonly used objects; therefore it is difficult to avoid its daily contact. Metallic alloys tend to release minimal quantities of this metal that are barely toxic since the body hardly absorbs it. Nevertheless, it can sometimes be responsible for various pathologies, mainly related to contact. It can also be found as a contaminant in tap water and, although such pollution is practically irrelevant from a toxicological point of view, it can cause problems for people who are particularly sensitive to this substance. Nonetheless, the restricted use of bottled mineral water for cooking purposes is extremely rare and linked only to severe cases.

Episodes of allergies and food-related inflammation linked to nickel have increased in the last years. Even if the common belief is that the direct contact with nickel-containing metal alloys is the only cause behind these pathologies, recent studies have shown that numerous patients can heal - or significantly get better - simply by following a rotation diet regulating those foods with high nickel sulfate content and its derivates.

One of the causes of the nickel sulfate overloads in the population is the widespread use of hydrogenated and non-hydrogenated vegetable fats in the food industry. The processing of vegetable oils releases large amounts of nickel sulfate in the final product; therefore the diet for people who have inflammation due to this metal, focuses on the restriction of many processed foods. On the other hand, home cooking oils are allowed, since they are high-quality products cooked at low temperatures.

Recent scientific studies have observed how the typical symptomatology of two important conditions, nickel sulfate allergy and Systemic Nickel Allergy Syndrome (SNAS), can also be triggered by eating food containing the element. Nickel is physiologically present almost anywhere in nature (for example, every single red blood cells contains it) then it is possible to say that any food contains a certain amount of it.

Our strategy is to implement a diet that controls only foods with a high concentration of nickel sulfate, or have shown a special tendency to stimulate the onset of symptoms (as reported by Falagiani et al., in the 2008 review on Rev Port Imunoalergologia 16(2):135-147). In general, minor quantities of the metal do not cause specific manifestations.

Not all foods, even with the same metal content, behave in the same way. For example, cacao contains high levels of nickel; but some varieties have been found to present other contaminants such as cadmium or aluminum, depending on the cultivation methods. These variants cause different symptomatological manifestations, which indicate that there are other factors, besides the content of nickel, that influence the symptoms.

The same situation has been observed with the consumption of almonds and hazelnuts. Although they both contain nickel, the intensity of the symptomatology depends on if they are roasted or not.

Regarding cereals, our diet keeps a close eye only on those with the highest nickel content, such as corn and oat. Buckwheat, wheat and rice do contain the metal as well, but in smaller amounts. For the latter, the nickel content in the (extruded or not) grain itself is negligible. However the mechanic grinding process may lead to variable amounts (often substantial) of nickel residues in the resulting flours. In case of a particular individual sensibility, the doctor could suggest controlling the intake of the low nickel content cereals too.



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ROTATION DIET

The rotation diet

You can begin your new nutritional approach with the understanding that, as with infant weaning, over the course of a few months, food-related inflammation will be under control with a marked improvement in your overall health and well-being.



Diet meals

Conform your meals with foods from the always allowed food list.



Free meals

Incorporate all the foods that you usually eat, including also those on the list of food to avoid during the diet meals.

Standard rotation: the first 8 weeks

The initial nutritional scheme must be applied every day, except for a midweek day (generally Wednesday) and 4-weekend meals (usually Saturday's dinner and all Sunday).

	mon	tue	wed	thu	fri	sat	sun
Breakfast	0	0	ü	0	0	0	Ü
Lunch		0	Ü	0	0	0	ü
Dinner		0	Ü	0	0	ü	ü

Standard rotation: the following 8 weeks

Follow-up rotation diet.

	mon	tue	wed	thu	fri	sat	sun
Breakfast	0	0	Ü	0	0	ü	ü
Lunch		0	ü	0	0	Ü	ü
Dinner		Ü	Ü			Ü	\ddot{c}

Maintenance

	mon	tue	wed	thu	fri	sat	sun
Breakfast	Ü	0	ü	ü	0	Ü	ü
Lunch	Ü	0	ü	Ü	0	ü	ü
Dinner	Ü		ü	Ü		ü	ü

Special rotation diet (children under 14, holidays)

The following diet is indicated for children under 14 years of age, who need a more varied food intake, and for adults during holidays or vacation periods.

	mon	tue	wed	thu	fri	sat	sun
Breakfast	Ü	0	Ü	Ü	0	Ü	ü
Lunch	Ü	0	ü	ü	0	Ü	ü
Dinner	Ü	0	ü	ü	0	Ü	ü



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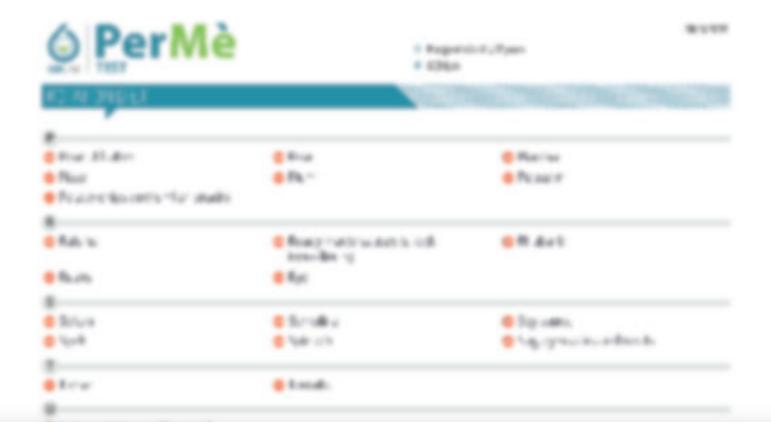






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