

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

1001 IgG Food Antibodies Profile - Serum

Methodology: EIA and Chemiluminescent

IgG Food Antibody Results			
<p>Dairy</p> <p>Casein VL <input type="checkbox"/></p> <p>Cheddar cheese VL <input type="checkbox"/></p> <p>Cottage cheese VL <input type="checkbox"/></p> <p>Cow's milk 1+ <input type="checkbox"/></p> <p>Goat's milk 0 <input type="checkbox"/></p> <p>Lactalbumin VL <input type="checkbox"/></p> <p>Yogurt 1+ <input type="checkbox"/></p> <p>Fruits</p> <p>Apple 0 <input type="checkbox"/></p> <p>Apricot 0 <input type="checkbox"/></p> <p>Banana 0 <input type="checkbox"/></p> <p>Blueberry 0 <input type="checkbox"/></p> <p>Cranberry 0 <input type="checkbox"/></p> <p>Grape VL <input type="checkbox"/></p> <p>Grapefruit 0 <input type="checkbox"/></p> <p>Lemon 0 <input type="checkbox"/></p> <p>Orange 0 <input type="checkbox"/></p> <p>Papaya 0 <input type="checkbox"/></p> <p>Peach VL <input type="checkbox"/></p> <p>Pear 0 <input type="checkbox"/></p> <p>Pineapple 1+ <input type="checkbox"/></p> <p>Plum 0 <input type="checkbox"/></p> <p>Raspberry 0 <input type="checkbox"/></p> <p>Strawberry 0 <input type="checkbox"/></p>	<p>Vegetables</p> <p>Alfalfa 0 <input type="checkbox"/></p> <p>Asparagus VL <input type="checkbox"/></p> <p>Avocado 0 <input type="checkbox"/></p> <p>Beets 0 <input type="checkbox"/></p> <p>Broccoli VL <input type="checkbox"/></p> <p>Cabbage 0 <input type="checkbox"/></p> <p>Carrot 0 <input type="checkbox"/></p> <p>Celery 0 <input type="checkbox"/></p> <p>Cucumber 0 <input type="checkbox"/></p> <p>Garlic 1+ <input type="checkbox"/></p> <p>Green Pepper 0 <input type="checkbox"/></p> <p>Lettuce 0 <input type="checkbox"/></p> <p>Mushroom 0 <input type="checkbox"/></p> <p>Olive 0 <input type="checkbox"/></p> <p>Onion 0 <input type="checkbox"/></p> <p>Pea 0 <input type="checkbox"/></p> <p>Potato, sweet 0 <input type="checkbox"/></p> <p>Potato, white VL <input type="checkbox"/></p> <p>Spinach VL <input type="checkbox"/></p> <p>String bean VL <input type="checkbox"/></p> <p>Tomato VL <input type="checkbox"/></p> <p>Zucchini 0 <input type="checkbox"/></p>	<p>Fish/Shellfish</p> <p>Clam 0 <input type="checkbox"/></p> <p>Cod 0 <input type="checkbox"/></p> <p>Crab 0 <input type="checkbox"/></p> <p>Lobster 0 <input type="checkbox"/></p> <p>Oyster 0 <input type="checkbox"/></p> <p>Red snapper 0 <input type="checkbox"/></p> <p>Salmon 0 <input type="checkbox"/></p> <p>Sardine 0 <input type="checkbox"/></p> <p>Shrimp 0 <input type="checkbox"/></p> <p>Sole 0 <input type="checkbox"/></p> <p>Trout 0 <input type="checkbox"/></p> <p>Tuna 0 <input type="checkbox"/></p> <p>Poultry/Meats</p> <p>Beef 0 <input type="checkbox"/></p> <p>Chicken 0 <input type="checkbox"/></p> <p>Egg white 0 <input type="checkbox"/></p> <p>Egg yolk 0 <input type="checkbox"/></p> <p>Lamb 0 <input type="checkbox"/></p> <p>Pork 0 <input type="checkbox"/></p> <p>Turkey 0 <input type="checkbox"/></p>	<p>Nuts and Grains</p> <p>Almond VL <input type="checkbox"/></p> <p>Buckwheat VL <input type="checkbox"/></p> <p>Corn 0 <input type="checkbox"/></p> <p>Corn gluten 1+ <input type="checkbox"/></p> <p>Gluten 3+ <input type="checkbox"/></p> <p>Kidney bean VL <input type="checkbox"/></p> <p>Lentil 0 <input type="checkbox"/></p> <p>Lima bean VL <input type="checkbox"/></p> <p>Oat 0 <input type="checkbox"/></p> <p>Peanut 0 <input type="checkbox"/></p> <p>Pecan 0 <input type="checkbox"/></p> <p>Pinto bean 0 <input type="checkbox"/></p> <p>Rice VL <input type="checkbox"/></p> <p>Rye 0 <input type="checkbox"/></p> <p>Sesame 3+ <input type="checkbox"/></p> <p>Soy VL <input type="checkbox"/></p> <p>Sunflower seed 3+ <input type="checkbox"/></p> <p>Walnut VL <input type="checkbox"/></p> <p>Wheat 3+ <input type="checkbox"/></p> <p>Miscellaneous</p> <p>Yeast VL <input type="checkbox"/></p> <p>Cane sugar VL <input type="checkbox"/></p> <p>Chocolate VL <input type="checkbox"/></p> <p>Coffee 3+ <input type="checkbox"/></p>
Total IgE			
Total IgE ♦		Inside <input type="checkbox"/> 9.2	Outside <input type="checkbox"/> Reference Range <=87.0 IU/mL

0 <input type="checkbox"/> None Detected	VL <input type="checkbox"/> Very Low	1+ <input type="checkbox"/> Low	2+ <input type="checkbox"/> Moderate	3+ <input type="checkbox"/> High
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- The performance characteristics of all assays have been verified by Genova Diagnostics, Inc. Unless otherwise noted with ♦, the assay has not been cleared by the U.S. Food and Drug Administration.
- Total IgE level may have clinical significance regardless of specific antibody levels.
- Increasing levels of antibody detected suggest an increasing probability of clinical reactivity to specific foods.
- The Elimination Diet commentary is specific to IgG results only. Allergens inducing an IgE response should be completely avoided.

Laboratory Comments

Summary of IgG Test Results

Reactive / Non-Reactive Foods

3+ High

Coffee	Gluten	Sesame	Sunflower seed
Wheat			

1+ Low

Corn gluten	Cow's milk	Garlic	Pineapple
Yogurt			

VL Very Low

Almond	Asparagus	Broccoli	Buckwheat
Cane sugar	Casein	Cheddar cheese	Chocolate
Cottage cheese	Grape	Kidney bean	Lactalbumin
Lima bean	Peach	Potato, white	Rice
Soy	Spinach	String bean	Tomato
Walnut	Yeast		

0 None Detected

Alfalfa	Apple	Apricot	Avocado
Banana	Beef	Beets	Blueberry
Cabbage	Carrot	Celery	Chicken
Clam	Cod	Corn	Crab
Cranberry	Cucumber	Egg white	Egg yolk
Goat's milk	Grapefruit	Green pepper	Lamb
Lemon	Lentil	Lettuce	Lobster
Mushroom	Oat	Olive	Onion
Orange	Oyster	Papaya	Pea
Peanut	Pear	Pecan	Pinto bean
Plum	Pork	Potato, sweet	Raspberry
Red Snapper	Rye	Salmon	Sardine
Shrimp	Sole	Strawberry	Trout
Tuna	Turkey	Zucchini	



Commentary

Overview

Immunoglobulin G (IgG) antibodies that elicit an immune response to food are in a class distinct from Immunoglobulin E (IgE) food allergy reactions. IgG-mediated food responses are described as delayed hypersensitivity reactions and have been associated in the peer-reviewed literature with an array of common clinical conditions including migraine, obesity, asthma, autoimmune diseases, and irritable bowel syndrome.

IgG Testing: Factors to Consider

IgG testing can be very useful in screening foods that a person is eating on a regular basis and which may be causing adverse reactions. However, it is possible to have adverse reactions to foods with low or non-detected levels of IgG. Because the IgG profile measures exposure of the immune system to food antigens, performing this test on a patient who is not consuming a particular food or who is taking a drug with known ability to suppress immune function (i.e. steroids) may result in the test not showing a positive reaction, potentially leading to a false negative result for the particular food. Be advised that if the patient is already on an elimination diet due to known food reactions, a negative result on an IgG food antibody profile does not necessarily mean that they can freely eat the food without experiencing symptoms.

IgG Results Interpretation

The amount of IgG antibodies is measured using a semi-quantitative ELISA assay procedure. The relative degrees of IgG present for each food are reported using a semi-quantitative level; None Detected (0), VL (very low), Low (1+), Moderate (2+) or High (3+). The degree of reactivity may not correlate with the severity of patient's response, therefore clinical correlation is advised as it can help direct treatment.

Clinical Management of Reactive IgG Foods: Elimination Diet

The purpose of an elimination diet is to pinpoint symptom-triggering foods that may be the root cause of and/or perpetuating chronic health issues. This diet is specific to food sensitivities that elicit an Immunoglobulin G (IgG) response and not those defined as classic (IgE-mediated) food allergy reactions. An elimination diet is a strategic process which depends on the oversight of the healthcare provider to ensure that a patient's nutritional requirements - macronutrient, micronutrient, and caloric needs - are adequate.

Four-Phases of an Elimination Diet



PHASE 1 – PREPARATION

A patient's clinical presentation and the IgG Food Antibody Assessment results typically determine which food(s) to temporarily remove from the diet. The average time frame for an elimination diet is 1 to 3 months. It is optimal to work with the patient to determine a start and end date for the elimination diet. Patient guidance around preparation ahead of the start date is important to ensure success. These include: (1) encouraging the patient to remove offending foods from the home and adjust grocery shopping accordingly; (2) providing the patient with resources that advance meal preparation, such as recipe books or reputable websites. Directing the patient to record foods consumed, date of consumption/elimination, and any notable changes in symptoms in a food journal can help track the progress of the diet.



Commentary



PHASE 2 – ELIMINATION

It is important to ensure the patient avoids those foods which resulted in a demonstrable reaction, either in whole food forms or as ingredients in other prepared foods to gain the greatest benefit. For patients unable to eliminate all reactive foods from their diet, focusing on the foods that elicited a stronger reaction (i.e.: 2+ and 3+) may be considered for an elimination diet. Practitioners may also encourage elimination of a complete food group when the patient shows reactivity to all foods tested within that group.



PHASE 3 – REINTRODUCTION

The reintroduction of eliminated foods is done one food at a time while monitoring for any adverse reaction. The patient should consume the test food several times throughout the day for several days. If symptoms occur with reintroduction, the patient should be instructed to remove that food once again and to evaluate whether the symptoms diminish over the next few days following elimination. Signs which may indicate an IgG food reaction include the following: headache, itching, bloating, fatigue, diarrhea or constipation, and indigestion. If the food does not cause symptoms during the reintroduction phase, it can be added back into the diet. The patient should continue this process with each food eliminated.

CAUTION: All patients warrant counseling related to signs and management of immediate hypersensitivity reactions prior to food reintroduction following an elimination diet. If reintroduction of a food causes an immediate allergic reaction (i.e. swelling of face, mouth, tongue, etc.; wheezing, rash/hives, or other allergic symptoms), it is imperative that the patient be treated as soon as possible. Following resolution of the immediate hypersensitivity reaction, the patient should be instructed to completely avoid consumption of that food.



PHASE 4 – LONG TERM MANAGEMENT

An elimination diet based on food sensitivity testing is part of a comprehensive approach to overall gastrointestinal health. Based on the test results and the complete clinical presentation of the patient, a long-term plan is usually developed utilizing the results of the reintroduction phase. Clinicians may also consider assessing and treating intestinal permeability, as gut barrier integrity is important for proper immune responses to foods. Nutrients that have been found to support intestinal barrier and decrease potential inflammation are glutamine, vitamin A, vitamin D, essential fatty acids (Omega-3), probiotics, and butyrate. Botanicals that can also be considered to assist with intestinal health are slippery elm, deglycyrrhizinated licorice (DGL), Aloe vera extract, and marshmallow root.

For additional information on the elimination diet and how to better understand your results, please download the "Elimination Diet Handout" from our website at <https://www.gdx.net/elimination-diet-handout.pdf>.

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

1000 IgE Food Antibodies Profile - Serum

Methodology: Chemiluminescent

IgE Food Antibody Results

	RESULT kU/L	CLASS	INDICATOR		RESULT kU/L	CLASS	INDICATOR
Grains				Nuts			
Buckwheat	0.89	II		Almond	0.24	0/1	
Corn	16.31	V		Brazil nut	<0.24	0/1	
Oat	<0.24	0/1		Coconut	0.4	II	
Rice	<0.24	0/1		Hazelnut	<0.24	0/1	
Sesame	<0.24	0/1		Peanut	98.36	VI	
Soybean	<0.24	0/1		Seafood			
Wheat	1.3	III		Blue mussel	26.12	VI	
Dairy				Codfish	3.89	III	
Egg white	0.26	I		Salmon	<0.24	0/1	
Cow's milk	<0.24	0/1		Shrimp	3.9	IV	
				Tuna	<0.24	0/1	

Total IgE

	Inside	Outside	Reference Range
Total IgE		139.1	<=87.0 IU/mL

- IgE levels must be used in conjunction with the clinical picture and are not intended to be independently diagnostic.
- The performance characteristics of all assays have been verified by Genova Diagnostics, Inc.
- All assays are cleared by the U.S. Food and Drug Administration.
- Total IgE level may have clinical significance regardless of specific antibody levels.
- Increasing levels of antibody detected suggest an increasing clinical reactivity to specific foods.

Key

Class	kU/L	Levels of Specific IgE	Indicator
0/1	<=0.24	Undetectable or Equivocal	
I	0.25 - 0.39	Low	
II	0.4 - 1.29	Moderate	
III	1.3 - 3.89	High	
IV	3.9 - 14.99	Very High	
V	15 - 24.99	Very High	
VI	>=25	Very High	

Laboratory Comments

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

1014 IgE Inhalant Profile - Serum

Methodology: Chemiluminescent

IgE Antibody Levels							
INHALANT	RESULT	CLASS	INDICATOR	INHALANT	RESULT	CLASS	INDICATOR
	kU/L				kU/L		
Trees				Weeds			
Alder	<0.24	0/1	<input type="checkbox"/>	Common Ragweed	4.56	IV	<input type="checkbox"/>
Birch	<0.24	0/1	<input type="checkbox"/>	Dandelion	<0.24	0/1	<input type="checkbox"/>
Elm	0.24	0/1	<input type="checkbox"/>	English Plantain	<0.24	0/1	<input type="checkbox"/>
Maple	<0.24	0/1	<input type="checkbox"/>	Lamb's quarters	<0.24	0/1	<input type="checkbox"/>
Oak	1.0	II	<input type="checkbox"/>	Nettle	<0.24	0/1	<input type="checkbox"/>
Olive	<0.24	0/1	<input type="checkbox"/>	Russian Thistle	<0.24	0/1	<input type="checkbox"/>
Walnut	<0.24	0/1	<input type="checkbox"/>	Moulds			
Grasses				Mould Generic	2.0	III	<input type="checkbox"/>
June Grass (Kentucky Blue)	<0.24	0/1	<input type="checkbox"/>	Misc.			
Orchard Grass	1.45	III	<input type="checkbox"/>	Cat dander	100.0	VI	<input type="checkbox"/>
Perennial Rye Grass	<0.24	0/1	<input type="checkbox"/>	Cockroach	<0.24	0/1	<input type="checkbox"/>
Timothy Grass	<0.24	0/1	<input type="checkbox"/>	Dog dander	8.83	IV	<input type="checkbox"/>
Sweet Vernal Grass	<0.24	0/1	<input type="checkbox"/>	Mite - D. farinae	0.24	0/1	<input type="checkbox"/>
				Mite - D. microceras	0.24	0/1	<input type="checkbox"/>
				Mite - D. pteronyssinus	0.56	II	<input type="checkbox"/>

Lab Comments

Total IgE			
	Inside	Outside	Reference Range
Total IgE	<input type="checkbox"/>	140.2	<=87.0 IU/mL
Key			
Class	kU/L	Levels of Specific IgE	Indicator
0/1	<=0.24	Undetectable or Equivocal	<input type="checkbox"/>
I	0.25 - 0.39	Low	<input type="checkbox"/>
II	0.4 - 1.29	Moderate	<input type="checkbox"/>
III	1.3 - 3.89	High	<input type="checkbox"/>
IV	3.9 - 14.99	Very High	<input type="checkbox"/>
V	15 - 24.99	Very High	<input type="checkbox"/>
VI	>=25	Very High	<input type="checkbox"/>

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- Total IgE level may have clinical significance regardless of specific antibody levels.
- IgE levels must be used in conjunction with the clinical picture and are not intended to be independently diagnostic.

Patient: **SAMPLE**
PATIENT

DOB:

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1005 IgG Spice Profile - Serum

Methodology: EIA and Chemiluminescent

IgG Spice Antibody Results					
Allspice	0	<input type="checkbox"/>	Curry	0	<input type="checkbox"/>
Basil	VL	<input type="checkbox"/>	Dill	0	<input type="checkbox"/>
Bayleaf	VL	<input type="checkbox"/>	Fennel	1+	<input type="checkbox"/>
Black Pepper	1+	<input type="checkbox"/>	Ginger	1+	<input type="checkbox"/>
Cayenne	VL	<input type="checkbox"/>	Horseradish	VL	<input type="checkbox"/>
Cinnamon	VL	<input type="checkbox"/>	Marjoram	1+	<input type="checkbox"/>
Cloves	VL	<input type="checkbox"/>	Mustard	0	<input type="checkbox"/>
Cumin	2+	<input type="checkbox"/>	Nutmeg	0	<input type="checkbox"/>
Oregano	0	<input type="checkbox"/>	Paprika	VL	<input type="checkbox"/>
Parsley	0	<input type="checkbox"/>	Peppermint	0	<input type="checkbox"/>
Rosemary	0	<input type="checkbox"/>	Sage	VL	<input type="checkbox"/>
Thyme	VL	<input type="checkbox"/>	Vanilla	3+	<input type="checkbox"/>

Total IgE			
	Inside	Outside	Reference Range
Total IgE ♦	3.5		<=87.0 IU/mL

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- Increasing levels of antibody detected suggest an increasing probability of clinical reactivity to specific foods.

- Total IgE level may have clinical significance regardless of specific antibody levels.

0	<input type="checkbox"/>	None Detected	VL	<input type="checkbox"/>	Very Low	1+	<input type="checkbox"/>	Low	2+	<input type="checkbox"/>	Moderate	3+	<input type="checkbox"/>	High
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Lab Comments

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

1004 IgE Moulds Profile - Serum

Methodology: Chemiluminescent

IgE Mould Antibody Results

INHALANT	RESULT kU/L	CLASS	INDICATOR
Aspergillus fumigatus	<0.24	0/1	<input type="checkbox"/>
Alternaria tenuis (Alternaria alternata)	1.66	III	<input checked="" type="checkbox"/>
Candida albicans	0.98	II	<input checked="" type="checkbox"/>
Cladosporium herbarum	<0.24	0/1	<input type="checkbox"/>
Curvularia lunata	<0.24	0/1	<input type="checkbox"/>
Epicoccum purpurascens	<0.24	0/1	<input type="checkbox"/>
Fusarium moniliforme	<0.24	0/1	<input type="checkbox"/>
Helminthosporium halodes	<0.24	0/1	<input type="checkbox"/>
Mucor racemosus	<0.24	0/1	<input type="checkbox"/>
Penicillium notatum	<0.24	0/1	<input type="checkbox"/>
Phoma betae	0.29	I	<input checked="" type="checkbox"/>
Pityrosporum orbiculare	2.46	III	<input checked="" type="checkbox"/>
Rhizopus nigricans	<0.24	0/1	<input type="checkbox"/>
Stemphylium botryosum	<0.24	0/1	<input type="checkbox"/>
Trichoderma viride	<0.24	0/1	<input type="checkbox"/>

Key

Class	kU/L	Levels of Specific IgE	Indicator
0/1	<=0.24	Undetectable or Equivocal	<input type="checkbox"/>
I	0.25 - 0.39	Low	<input checked="" type="checkbox"/>
II	0.4 - 1.29	Moderate	<input checked="" type="checkbox"/>
III	1.3 - 3.89	High	<input checked="" type="checkbox"/>
IV	3.9 - 14.99	Very High	<input checked="" type="checkbox"/>
V	15 - 24.99	Very High	<input checked="" type="checkbox"/>
VI	>=25	Very High	<input checked="" type="checkbox"/>

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- Total IgE load may have clinical significance regardless of specific antibody levels.
- IgE levels must be used in conjunction with the clinical picture and are not intended to be independently diagnostic.

Total IgE

	Inside	Outside	Reference Range
Total IgE	<input type="checkbox"/>	<input checked="" type="checkbox"/> 197.0	<=87.0 IU/mL

Lab Comments

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

1002 IgG Vegetarian Food Profile - Serum

Methodology: EIA and Chemiluminescent

IgG Vegetable Food Results		
Artichoke	0	<input type="checkbox"/>
Bean sprout	VL	<input type="checkbox"/>
Cantaloupe	0	<input type="checkbox"/>
Cashew	VL	<input type="checkbox"/>
Cherry	0	<input type="checkbox"/>
Coconut	0	<input type="checkbox"/>
Flax seed	3+	<input type="checkbox"/>
Garbanzo	1+	<input type="checkbox"/>
Filbert	0	<input type="checkbox"/>
Kamut	0	<input type="checkbox"/>
Millet	0	<input type="checkbox"/>
Mung bean	0	<input type="checkbox"/>
Navy bean	0	<input type="checkbox"/>
Oat bran	1+	<input type="checkbox"/>
Parmesan cheese	VL	<input type="checkbox"/>
Pistachio	0	<input type="checkbox"/>
Safflower	0	<input type="checkbox"/>
Triticale	0	<input type="checkbox"/>
Watermelon	1+	<input type="checkbox"/>
Wheat bran	3+	<input type="checkbox"/>
Wild rice	0	<input type="checkbox"/>

Total IgE		
	Inside	Outside
Total IgE ♦	<input type="checkbox"/>	<input type="checkbox"/>
		176.0
		Reference Range <=87.0 IU/mL

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- Increasing levels of antibody detected suggest an increasing probability of clinical reactivity to specific foods.

- Total IgE level may have clinical significance regardless of specific antibody levels.

0	<input type="checkbox"/>	None Detected	VL	<input type="checkbox"/>	Very Low	1+	<input type="checkbox"/>	Low	2+	<input type="checkbox"/>	Moderate	3+	<input type="checkbox"/>	High
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Laboratory Comments

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

Coeliac Profile - Serum

Methodology: FEIA, Immunoturbidometric and IFA (when EMA IgA testing is performed)

Immunologic Markers

Biomarker	Result	Reference Range
Total IgA	128 Sufficient	98-591 mg/dL
Anti-Tissue Transglutaminase IgG (tTG IgG)	13.8 Positive	<=6.9 U/ml
Anti-Deamidated Gliadin IgG (DGP IgG)	9.1 Equivocal	<=6.9 U/ml
Anti-Tissue Transglutaminase IgA (tTG IgA)	51.0 Positive	<=6.9 U/ml
Anti-Deamidated Gliadin IgA (DGP IgA)	37.4 Positive	<=6.9 U/ml
Anti-Endomysial IgA (EMA IgA)	Detected	Not Detected

Interpretation

