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**PATIENT INFO**

NAME: **SAMPLE PATIENT**  
 REQUISITION ID: 1805070000  
 SAMPLE ID: 12121  
 DOB: 1/1/2001  
 SAMPLE DATE: 5/3/2018  
 RECEIVE DATE: 5/7/2018  
 REPORT DATE: 5/9/2018

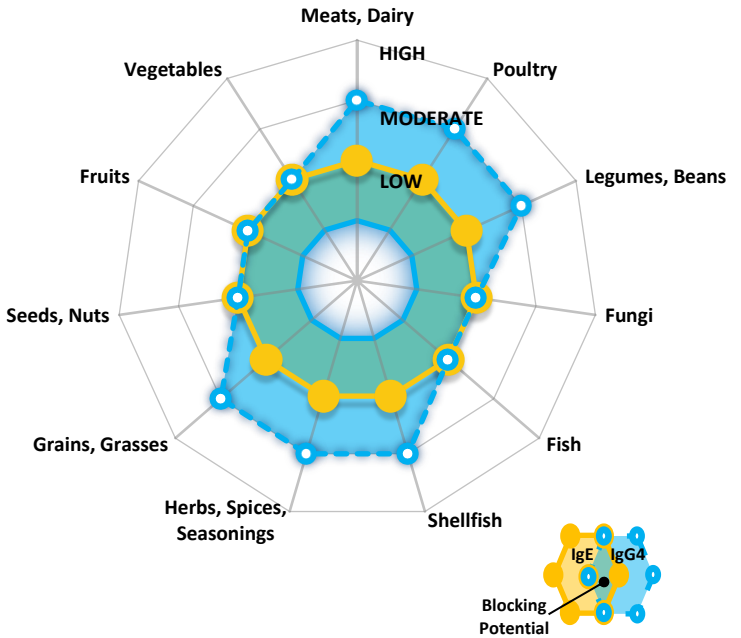
**CLINIC INFO**

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**588E - Dietary Antigen Testing | 1/4**

**Dietary Antigen Exposure by Food Group**

	IgE	IgG4
Meats, Dairy	LOW	MODERATE
Poultry	LOW	MODERATE
Legumes, Beans	LOW	MODERATE
Fungi	LOW	LOW
Fish	LOW	LOW
Shellfish	LOW	MODERATE
Herbs, Spices, Seasonings	LOW	MODERATE
Grains, Grasses	LOW	MODERATE
Seeds, Nuts	LOW	LOW
Fruits	LOW	LOW
Vegetables	LOW	LOW



**Dietary Antigen Exposure by Food Group**

In this test, a human serum sample is probed for the presence of IgE and IgG4 antibodies which have an exact affinity for specific dietary allergens. Dietary allergens are clustered by the food groups shown in the table and graph above. The quantitative summation of the IgE and IgG4 results within the offending food groups are expressed graphically. The exclusion of the offending food group(s) from the diet has been shown to reduce the severity of symptoms associated with food allergies.

**Blocking Potential**

In high levels, IgG4 antibodies alone can trigger an immune response within the body. However, data is available that provides support for the notion that IgG4 can serve another specific function of controlling antigen recognition by IgE and consequently regulating anaphylactic reactions and IgE-mediated immunity. IgG4 can act as a blocking agent by preventing IgE from binding to targeted receptor sites and releasing histamine. We refer to this as the blocking potential.

This test was developed and its performance characteristics determined by Dunwoody Labs or third-party reference affiliates. FDA clearance is not currently required for clinical use. Results are not intended to be used as the sole means for clinical diagnosis. Clinical correlation is required.

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### Understanding the Key

It is important to understand how reactive your patient is to a given food. If the patient had a high reaction, they are considered in the top 2.5% in terms of reactions; moderate reactions represent the next 2.5%. This means that moderate or severe reactions represent the top 5% of reactivity. A low reaction represents a broader population of reactivity at 20%. Therefore low, moderate, and high reactions combined represent 25% of the most reactive patients.

#### IgE

The IgE antibody response is the most commonly known food allergy response. This response usually occurs immediately and can create severe symptoms such as swelling, hives, itching, and - in some cases - anaphylaxis. Even though IgE reactions are immediate, the allergic potential of food-based allergens can remain in your system 1-2 days after ingestion, extending the presence of symptoms during this duration. IgE reactions can be permanent or they may improve with the elimination diet and gut treatment. IgE reactions stimulate the release of histamine in the body.

#### IgG4

IgG4, which is a subclass of IgG, is a distinct antibody in the immune system. IgG4 total antibody is important in relation to IgE because this antibody acts as a blocking agent for an IgE reaction. When the IgG4 reaction is greater than the IgE reaction for a particular antigen, IgG4 blocks the IgE antibodies from binding to the receptor sites and releasing histamine, thereby reducing severity of the symptoms associated with the IgE reaction. This is referred to as the blocking potential. IgG4 carries its own clinical relevance in high levels and may mediate several conditions and diseases.

### Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
<b>MEATS, DAIRY</b>			
Beef	<b>MODERATE</b>	29.66 ng/ml	0.00 - 40.08 ng/ml
Casein		0.00 ng/ml	0.00 - 9.25 ng/ml
Cow's Milk		0.32 ng/ml	0.00 - 29.17 ng/ml
Goat's Milk	<b>MODERATE</b>	20.36 ng/ml	0.00 - 29.19 ng/ml
Pork		0.29 ng/ml	0.00 - 5.2 ng/ml
<b>POULTRY</b>			
Chicken		0.00 ng/ml	0.00 - 2 ng/ml
Egg Albumin	<b>MODERATE</b>	137.58 ng/ml	0.00 - 153.7 ng/ml
Egg Yolk		0.00 ng/ml	0.00 - 28.22 ng/ml
Turkey		0.50 ng/ml	0.00 - 3.73 ng/ml
<b>LEGUMES, BEANS</b>			
Green Pea		0.00 ng/ml	0.00 - 3.13 ng/ml
Kidney Bean		0.00 ng/ml	0.00 - 34.14 ng/ml
Lima Bean		0.00 ng/ml	0.00 - 5.45 ng/ml
Navy Bean		2.45 ng/ml	0.00 - 21.14 ng/ml
Peanut		0.00 ng/ml	0.00 - 6 ng/ml
Soybean	<b>HIGH</b>	44.62 ng/ml	0.00 - 25.44 ng/ml
String Bean		0.00 ng/ml	0.00 - 3.44 ng/ml
<b>FUNGI</b>			
Aspergillus Mix		0.00 ng/ml	0.00 - 5.87 ng/ml
Brewer's Yeast		0.00 ng/ml	0.00 - 0.84 ng/ml
Candida		0.30 ng/ml	0.00 - 6.44 ng/ml
Mushroom		0.00 ng/ml	0.00 - 4.17 ng/ml
<b>FISH</b>			
Codfish		0.00 ng/ml	0.00 - 3.64 ng/ml
Flounder		0.00 ng/ml	0.00 - 2 ng/ml
Halibut		0.00 ng/ml	0.00 - 2.56 ng/ml
Salmon		0.00 ng/ml	0.00 - 2 ng/ml
Tuna	<b>HIGH</b>	5.47 ng/ml	0.00 - 5.35 ng/ml
<b>SHELLFISH</b>			
Clam	<b>HIGH</b>	59.93 ng/ml	0.00 - 38.37 ng/ml
Crab		0.00 ng/ml	0.00 - 2 ng/ml
Lobster		0.07 ng/ml	0.00 - 2.13 ng/ml
Scallops		0.00 ng/ml	0.00 - 2 ng/ml
Shrimp		0.00 ng/ml	0.00 - 2 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
<b>MEATS, DAIRY</b>				
Beef	<b>HIGH</b>	30.78 ng/ml	0.00 - 21.95 ng/ml	<b>YES</b>
Casein	L	11.61 ng/ml	0.00 - 161.68 ng/ml	
Cow's Milk	L	38.61 ng/ml	0.00 - 223.17 ng/ml	<b>YES</b>
Goat's Milk	<b>MODERATE</b>	29.97 ng/ml	0.00 - 90.64 ng/ml	<b>YES</b>
Pork	<b>HIGH</b>	7.02 ng/ml	0.00 - 5.13 ng/ml	<b>YES</b>
<b>POULTRY</b>				
Chicken		0.00 ng/ml	0.00 - 2.73 ng/ml	
Egg Albumin	<b>MODERATE</b>	208.69 ng/ml	0.00 - 244.19 ng/ml	<b>YES</b>
Egg Yolk	<b>MODERATE</b>	99.62 ng/ml	0.00 - 150.48 ng/ml	
Turkey	<b>HIGH</b>	8.37 ng/ml	0.00 - 5.05 ng/ml	<b>YES</b>
<b>LEGUMES, BEANS</b>				
Green Pea	<b>MODERATE</b>	2.43 ng/ml	0.00 - 3.38 ng/ml	
Kidney Bean	L	8.64 ng/ml	0.00 - 122.94 ng/ml	
Lima Bean	<b>HIGH</b>	6.75 ng/ml	0.00 - 6.73 ng/ml	
Navy Bean	L	12.96 ng/ml	0.00 - 113.83 ng/ml	<b>YES</b>
Peanut	<b>MODERATE</b>	4.86 ng/ml	0.00 - 29.86 ng/ml	
Soybean	<b>MODERATE</b>	26.46 ng/ml	0.00 - 29.8 ng/ml	
String Bean	L	6.48 ng/ml	0.00 - 41.44 ng/ml	
<b>FUNGI</b>				
Aspergillus Mix		0.00 ng/ml	0.00 - 5.72 ng/ml	
Brewer's Yeast		0.00 ng/ml	0.00 - 2 ng/ml	
Candida	L	2.16 ng/ml	0.00 - 7.36 ng/ml	<b>YES</b>
Mushroom		0.00 ng/ml	0.00 - 8.76 ng/ml	
<b>FISH</b>				
Codfish		0.00 ng/ml	0.00 - 5.7 ng/ml	
Flounder		0.00 ng/ml	0.00 - 2.73 ng/ml	
Halibut		0.00 ng/ml	0.00 - 3.95 ng/ml	
Salmon		0.00 ng/ml	0.00 - 2 ng/ml	
Tuna	<b>HIGH</b>	8.10 ng/ml	0.00 - 6.43 ng/ml	<b>YES</b>
<b>SHELLFISH</b>				
Clam	<b>HIGH</b>	22.68 ng/ml	0.00 - 13.9 ng/ml	
Crab		0.00 ng/ml	0.00 - 2 ng/ml	
Lobster	<b>MODERATE</b>	1.35 ng/ml	0.00 - 3.64 ng/ml	<b>YES</b>
Scallops		0.00 ng/ml	0.00 - 2 ng/ml	
Shrimp		0.00 ng/ml	0.00 - 2 ng/ml	

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Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
<b>HERBS, SPICES, SEASONINGS</b>			
Black Pepper		0.00 ng/ml	0.00 - 3.35 ng/ml
Cinnamon		0.00 ng/ml	0.00 - 2 ng/ml
Garlic		0.00 ng/ml	0.00 - 4.25 ng/ml
Ginger		0.00 ng/ml	0.00 - 6.21 ng/ml
Hops		0.00 ng/ml	0.00 - 2.57 ng/ml
Mustard	L	0.72 ng/ml	0.00 - 7.3 ng/ml
Vanilla		0.00 ng/ml	0.00 - 4.31 ng/ml
<b>GRAINS, GRASSES</b>			
Barley	MODERATE	6.34 ng/ml	0.00 - 9.19 ng/ml
Corn		0.00 ng/ml	0.00 - 2.89 ng/ml
Gluten	L	65.94 ng/ml	0.00 - 78.01 ng/ml
Oat		0.00 ng/ml	0.00 - 2 ng/ml
Rice		0.00 ng/ml	0.00 - 2.33 ng/ml
Rye		0.20 ng/ml	0.00 - 4.48 ng/ml
Whole Wheat	MODERATE	1.58 ng/ml	0.00 - 2.1 ng/ml
<b>SEEDS, NUTS</b>			
Almond		0.00 ng/ml	0.00 - 7.47 ng/ml
Cacao		0.00 ng/ml	0.00 - 3.63 ng/ml
Cashew	MODERATE	4.61 ng/ml	0.00 - 10.44 ng/ml
Coffee		0.00 ng/ml	0.00 - 2.96 ng/ml
Cottonseed		0.00 ng/ml	0.00 - 2 ng/ml
English Walnut		0.00 ng/ml	0.00 - 7.37 ng/ml
Flax Seed		0.00 ng/ml	0.00 - 2.18 ng/ml
Pecan		0.00 ng/ml	0.00 - 2 ng/ml
Sesame		0.00 ng/ml	0.00 - 2 ng/ml
<b>FRUITS</b>			
Apple		0.00 ng/ml	0.00 - 4.47 ng/ml
Avocado		0.54 ng/ml	0.00 - 4.1 ng/ml
Banana		0.00 ng/ml	0.00 - 9.74 ng/ml
Blueberry		0.00 ng/ml	0.00 - 2 ng/ml
Cantaloupe		0.00 ng/ml	0.00 - 4.66 ng/ml
Cherry		0.00 ng/ml	0.00 - 2 ng/ml
Coconut		0.00 ng/ml	0.00 - 3.75 ng/ml
Cucumber		0.00 ng/ml	0.00 - 2 ng/ml
Grapefruit		0.00 ng/ml	0.00 - 2 ng/ml
Grapes		0.00 ng/ml	0.00 - 2 ng/ml
Green Olive		0.00 ng/ml	0.00 - 2.55 ng/ml
Green Pepper		0.00 ng/ml	0.00 - 2 ng/ml
Honeydew		0.00 ng/ml	0.00 - 2 ng/ml
Lemon		0.00 ng/ml	0.00 - 2 ng/ml
Orange	HIGH	4.39 ng/ml	0.00 - 2.5 ng/ml
Peach		0.00 ng/ml	0.00 - 2 ng/ml
Pear		0.00 ng/ml	0.00 - 2 ng/ml
Pineapple		0.00 ng/ml	0.00 - 3.26 ng/ml
Plum		0.00 ng/ml	0.00 - 2 ng/ml
Strawberry		0.00 ng/ml	0.00 - 2 ng/ml
Tomato		0.00 ng/ml	0.00 - 2 ng/ml
Watermelon		0.00 ng/ml	0.00 - 3.28 ng/ml
Yellow Squash		2.45 ng/ml	0.00 - 5.34 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
<b>HERBS, SPICES, SEASONINGS</b>				
Black Pepper		0.00 ng/ml	0.00 - 9.32 ng/ml	
Cinnamon		0.00 ng/ml	0.00 - 2 ng/ml	
Garlic	HIGH	35.91 ng/ml	0.00 - 32.31 ng/ml	
Ginger	MODERATE	7.29 ng/ml	0.00 - 84.34 ng/ml	
Hops		0.54 ng/ml	0.00 - 6.1 ng/ml	
Mustard	HIGH	63.71 ng/ml	0.00 - 24.48 ng/ml	YES
Vanilla		0.00 ng/ml	0.00 - 4.51 ng/ml	
<b>GRAINS, GRASSES</b>				
Barley	MODERATE	8.91 ng/ml	0.00 - 14.72 ng/ml	YES
Corn		0.00 ng/ml	0.00 - 3.84 ng/ml	
Gluten	HIGH	275.65 ng/ml	0.00 - 139.44 ng/ml	YES
Oat		0.00 ng/ml	0.00 - 2 ng/ml	
Rice		0.00 ng/ml	0.00 - 2.2 ng/ml	
Rye	MODERATE	9.99 ng/ml	0.00 - 10.13 ng/ml	YES
Whole Wheat	HIGH	57.78 ng/ml	0.00 - 17.39 ng/ml	YES
<b>SEEDS, NUTS</b>				
Almond		1.35 ng/ml	0.00 - 66.68 ng/ml	
Cacao		0.00 ng/ml	0.00 - 5.75 ng/ml	
Cashew		0.00 ng/ml	0.00 - 31.99 ng/ml	
Coffee		0.00 ng/ml	0.00 - 4.75 ng/ml	
Cottonseed		0.00 ng/ml	0.00 - 2 ng/ml	
English Walnut		0.00 ng/ml	0.00 - 11.29 ng/ml	
Flax Seed		0.00 ng/ml	0.00 - 16.56 ng/ml	
Pecan		0.00 ng/ml	0.00 - 2 ng/ml	
Sesame		0.00 ng/ml	0.00 - 2 ng/ml	
<b>FRUITS</b>				
Apple		1.35 ng/ml	0.00 - 7.67 ng/ml	
Avocado	MODERATE	5.13 ng/ml	0.00 - 5.9 ng/ml	YES
Banana	L	11.34 ng/ml	0.00 - 34.86 ng/ml	
Blueberry		0.00 ng/ml	0.00 - 3.03 ng/ml	
Cantaloupe		0.00 ng/ml	0.00 - 4.34 ng/ml	
Cherry		0.00 ng/ml	0.00 - 2 ng/ml	
Coconut	L	1.35 ng/ml	0.00 - 6.29 ng/ml	
Cucumber		0.00 ng/ml	0.00 - 2 ng/ml	
Grapefruit		0.00 ng/ml	0.00 - 2 ng/ml	
Grapes		0.00 ng/ml	0.00 - 2 ng/ml	
Green Olive		0.00 ng/ml	0.00 - 3.1 ng/ml	
Green Pepper		0.00 ng/ml	0.00 - 2.5 ng/ml	
Honeydew		0.00 ng/ml	0.00 - 2 ng/ml	
Lemon		0.00 ng/ml	0.00 - 2.41 ng/ml	
Orange	L	1.08 ng/ml	0.00 - 3.77 ng/ml	
Peach		0.00 ng/ml	0.00 - 2.5 ng/ml	
Pear		0.00 ng/ml	0.00 - 2 ng/ml	
Pineapple	HIGH	108.26 ng/ml	0.00 - 36.06 ng/ml	
Plum		0.00 ng/ml	0.00 - 2.29 ng/ml	
Strawberry		0.00 ng/ml	0.00 - 2.43 ng/ml	
Tomato		0.00 ng/ml	0.00 - 2 ng/ml	
Watermelon		0.00 ng/ml	0.00 - 3.95 ng/ml	
Yellow Squash	MODERATE	6.21 ng/ml	0.00 - 6.44 ng/ml	YES

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Patient Results

ANTIGEN	RESULT	IgE	REF. RANGE
<b>VEGETABLES</b>			
Asparagus		0.00 ng/ml	0.00 - 7.21 ng/ml
Broccoli		0.00 ng/ml	0.00 - 2.56 ng/ml
Cabbage		0.00 ng/ml	0.00 - 2 ng/ml
Carrot		0.00 ng/ml	0.00 - 3.55 ng/ml
Cauliflower		0.00 ng/ml	0.00 - 3.05 ng/ml
Celery		0.00 ng/ml	0.00 - 2.35 ng/ml
Lettuce		0.00 ng/ml	0.00 - 2.74 ng/ml
Onion		0.00 ng/ml	0.00 - 2 ng/ml
Spinach		1.58 ng/ml	0.00 - 3.94 ng/ml
Sweet Potato		0.00 ng/ml	0.00 - 2 ng/ml
Tea		0.00 ng/ml	0.00 - 2 ng/ml
White Potato	L	0.38 ng/ml	0.00 - 3.94 ng/ml

ANTIGEN	RESULT	IgG4	REF. RANGE	BLOCKING POTENTIAL
<b>VEGETABLES</b>				
Asparagus	MODERATE	9.18 ng/ml	0.00 - 11.15 ng/ml	
Broccoli		0.00 ng/ml	0.00 - 5.72 ng/ml	
Cabbage		0.00 ng/ml	0.00 - 1.94 ng/ml	
Carrot		0.00 ng/ml	0.00 - 5.21 ng/ml	
Cauliflower		0.00 ng/ml	0.00 - 2.26 ng/ml	
Celery		0.00 ng/ml	0.00 - 3.36 ng/ml	
Lettuce	L	0.54 ng/ml	0.00 - 4.16 ng/ml	
Onion		0.00 ng/ml	0.00 - 2 ng/ml	
Spinach	L	1.35 ng/ml	0.00 - 5.87 ng/ml	
Sweet Potato		0.00 ng/ml	0.00 - 2.73 ng/ml	
Tea		0.00 ng/ml	0.00 - 2 ng/ml	
White Potato	MODERATE	2.43 ng/ml	0.00 - 9.57 ng/ml	YES

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