



KBMO Diagnostics

The FIT Test (Food Inflammation Test)

13 May 2016

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Overview of Food Sensitivity

- Food Sensitivity and related diseases affect at least 100 million people worldwide.
- The prevalence of Food Sensitivities has increased $> 50\%$ in adults and children in the past few years.
- Symptoms include a variety of illnesses from skin rashes and headaches to chronic intestinal diseases.
- 90% of sensitivities are in eight food groups: Milk, Soy, Eggs, Wheat, Peanuts, Tree Nuts, Fish, Shellfish.
- One or all of the foods in a specific group may cause Food Sensitivity.
- Delayed Food sensitivities occur hours or days after food ingestion.

Delayed Food sensitivities are caused by IgG 1-4 and Immune Complexes that activate Complement



The FIT Test: **When** I Use It

- If my patient doesn't feel well.
- If my patient has Thyroid Problems (Primarily Hashimoto's).
- If my patient has arthritis.
- If my patient has brain fog.
- If my patient has fatigue.
- If my patient has digestive/gut issues.
- If my patient has infertility or first trimester loss
- If my patient has fibroids, endometriosis or breast cancer
- If my patient has any other cancer.



The FIT Test: **Why** I Use It

The Immune Complex Issues and Inflammation that can be associated with foods are **an underlying problem for all of the conditions** I see on a daily basis.



Why Focus on the Gut and Food Reactions?

- What organ of the body produces 3/4 of its neurotransmitters?
- What organ of the body contains 2/3 + of the immune tissue?
- What organ of the body contains 10 times more cells than the rest of the body combined?
- What organ of the body houses a genome 100 times larger than the human genome?
- What organ of the body has a metabolic activity greater than the liver?



The Gut

**The First Gut Issue to
Understand:**

**Increased Intestinal
Permeability**

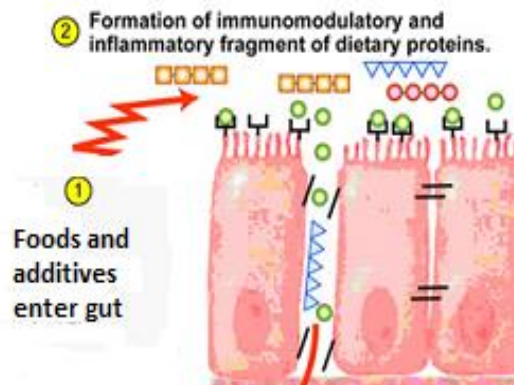
Why is this important?

“the mucosa is directly exposed to the external environment and taxed with antigenic loads consisting of commensal bacteria, *dietary antigens*, and viruses at *far greater quantities* on a daily basis than the systemic immune system sees in a lifetime”.

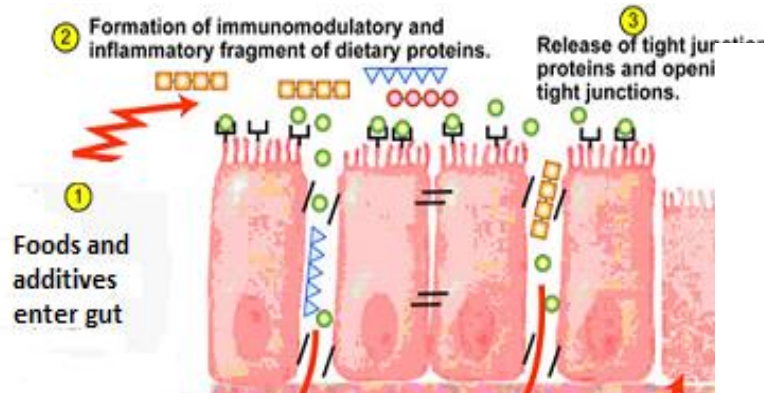
Mayer L. Mucosal immunity. Pediatrics. 2003 Jun;111(6 Pt 3):1595-600.



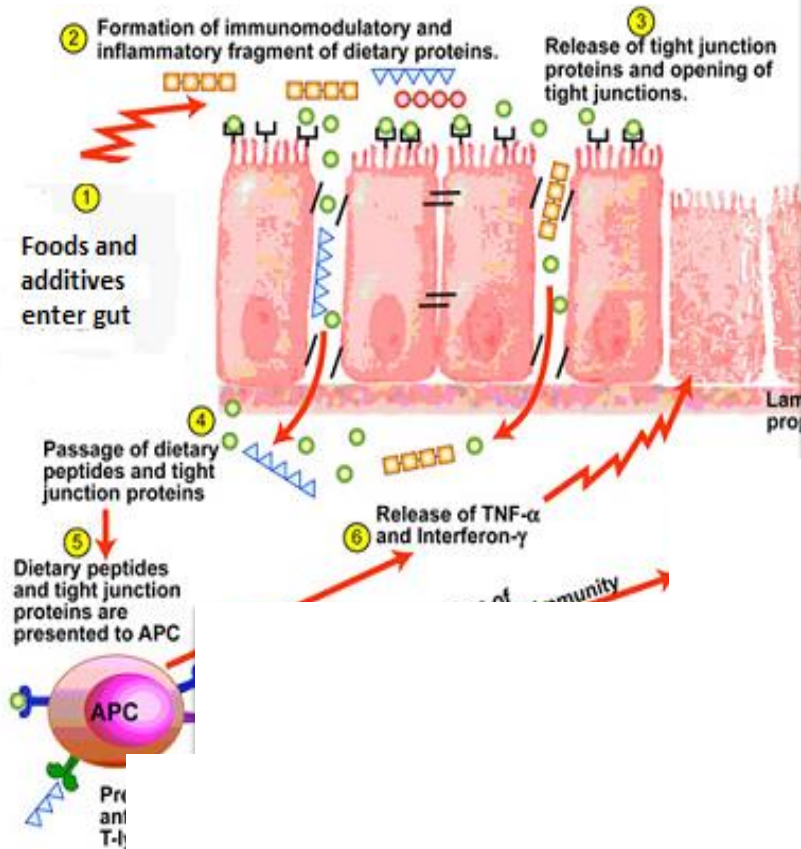
The FIT Test: In



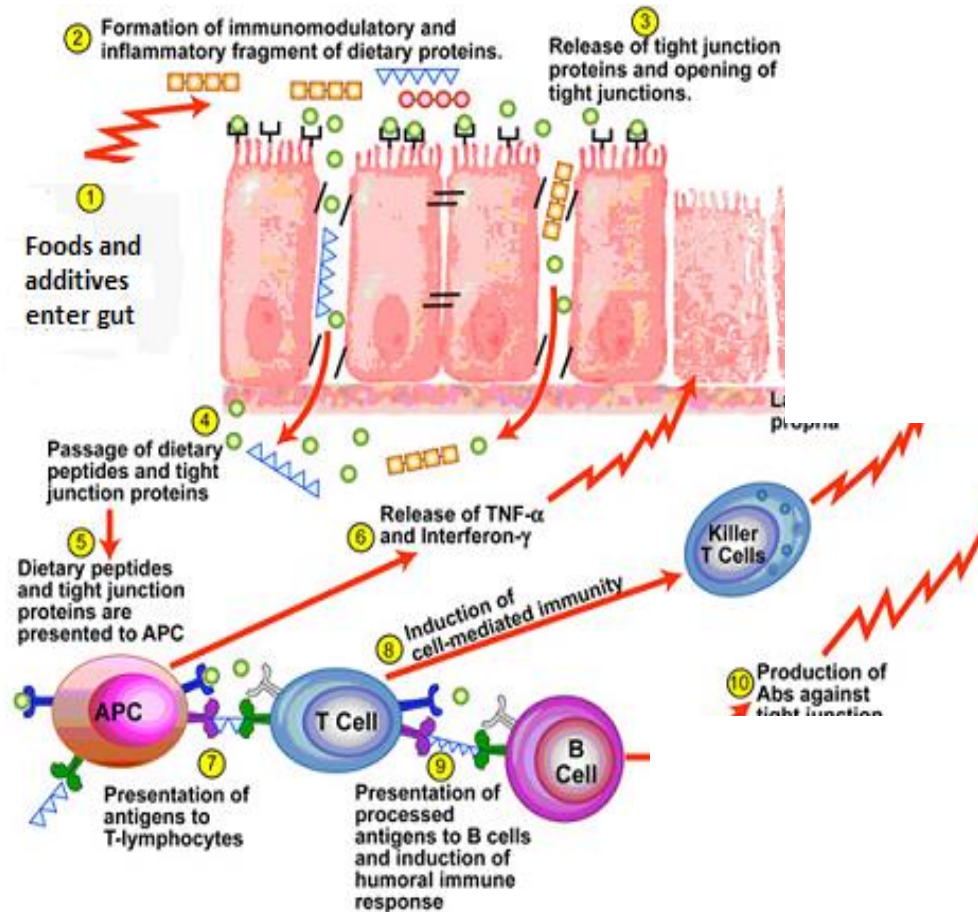
The FIT Test: Immune Complex



The FIT Test: Immune Com



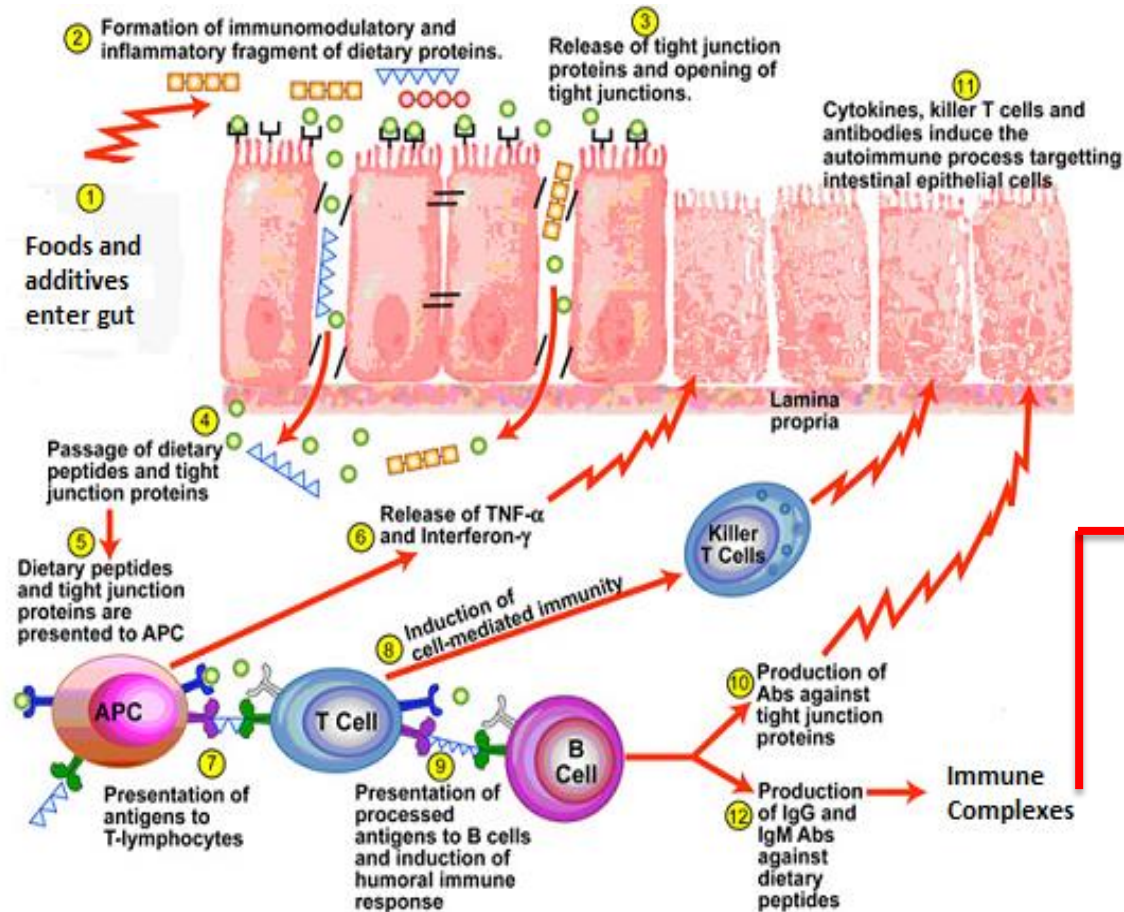
The FIT Test: Immune Complex Formation



Modified from Ari Vojdani © 2009



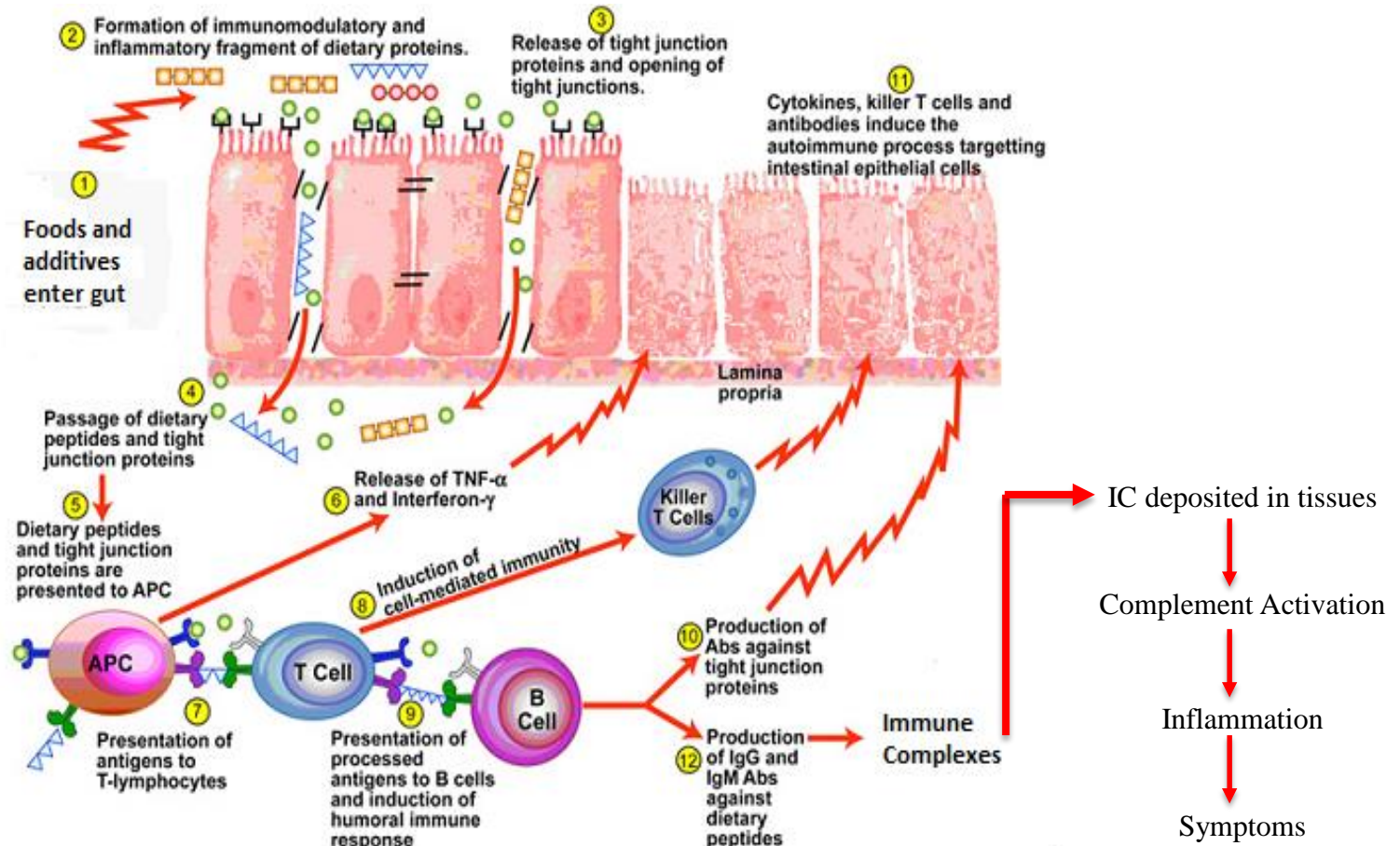
The FIT Test: Immune Complex Formation



Modified from Ari Vojdani © 2009



The FIT Test: Immune Complex Formation

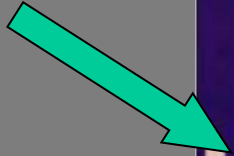


Modified from Ari Vojdani © 2009

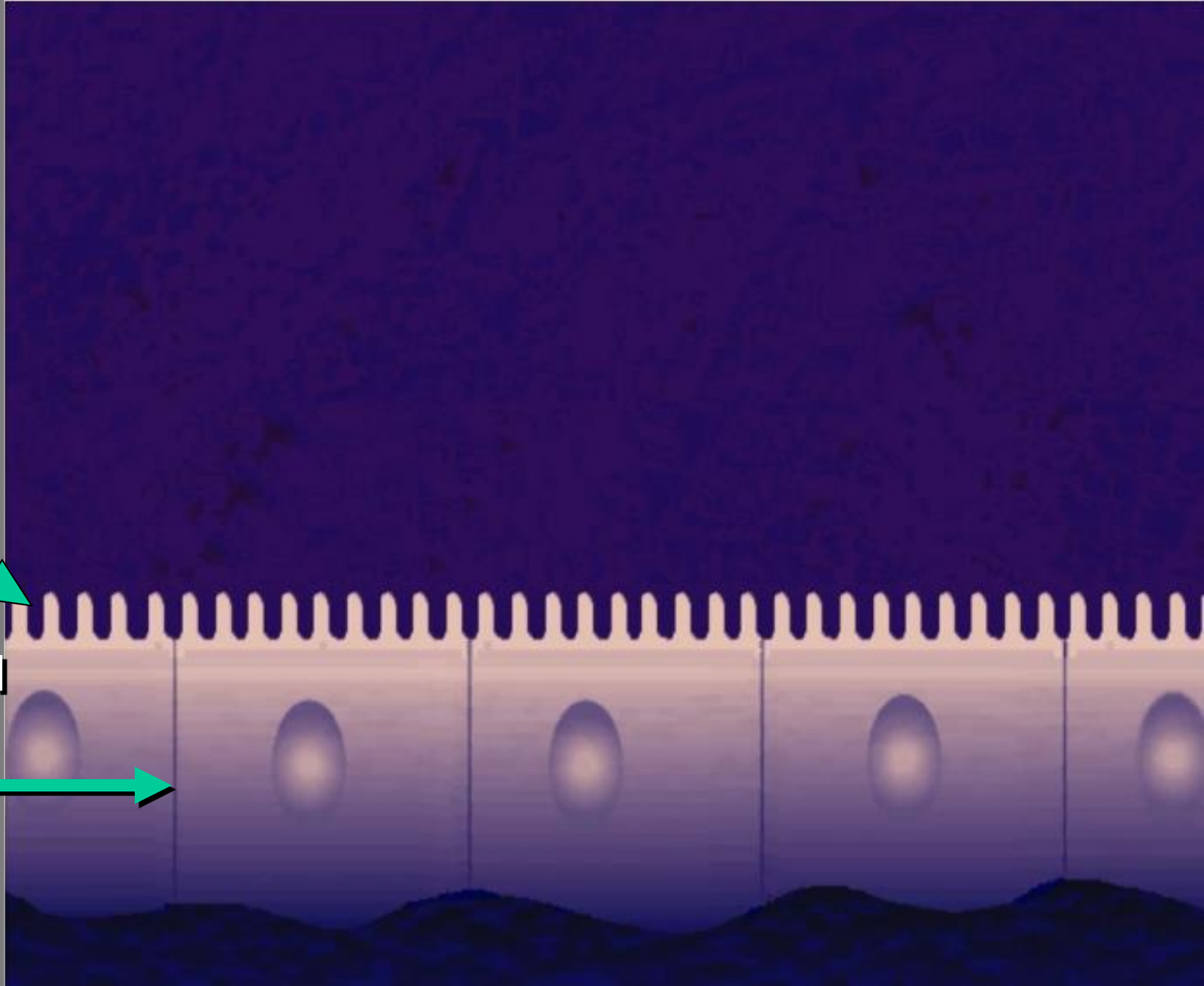
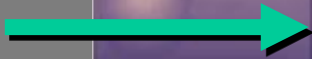


Healthy Gut

**Healthy
Villi/Good
Absorption**

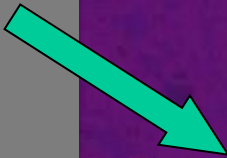


**Healthy Cell
Junctions**

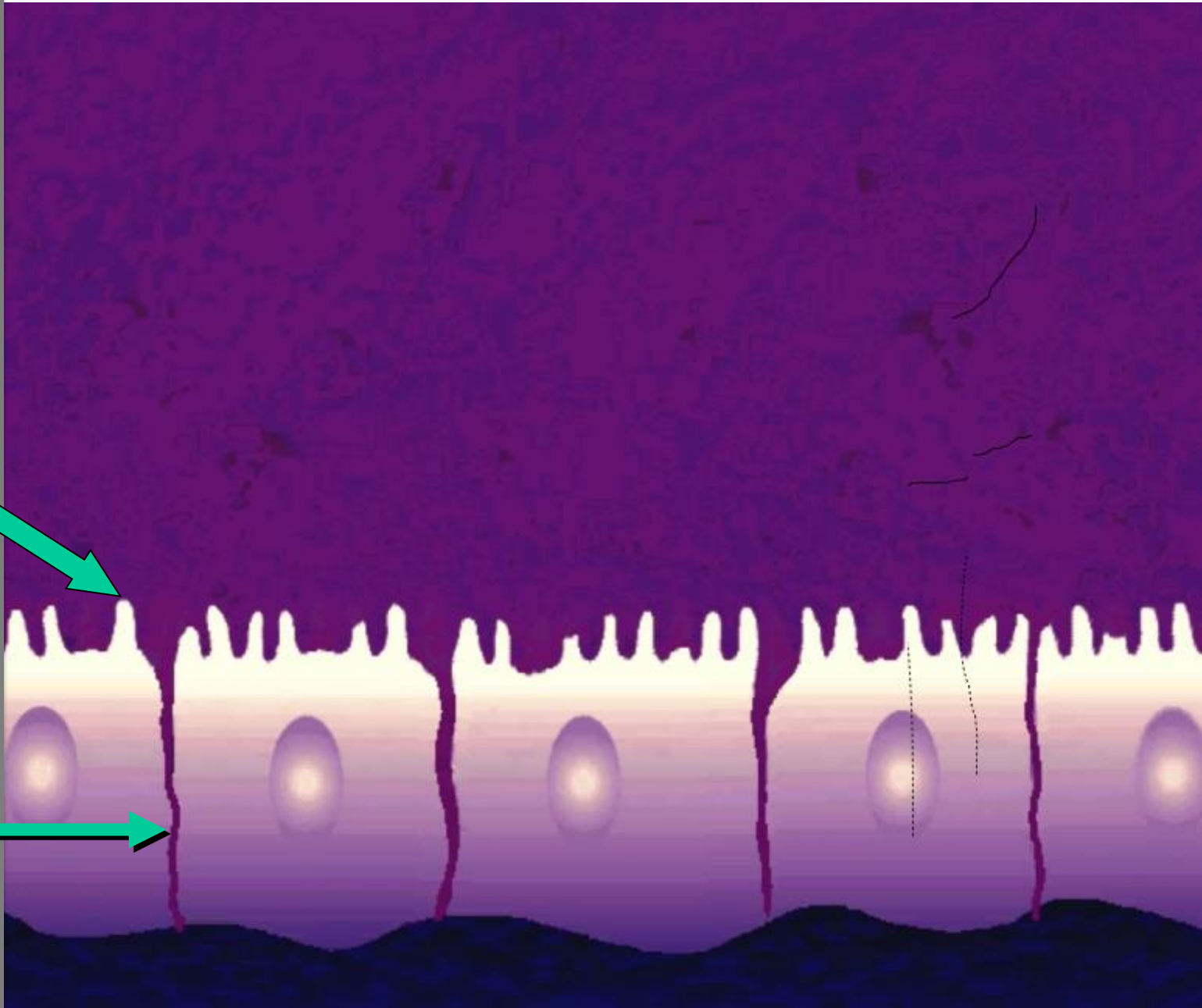


Leaky Gut

**Damaged
Villi/ Poor
Absorption**



**Damaged
Cell
junctions**



Amgen Award Lecture

Molecular Basis of Epithelial Barrier Regulation

From Basic Mechanisms to Clinical Application

Amer Jour of Path, Vol. 169, No. 6, Dec 2006

Jerrold R. Turner

*From the Department of Pathology, The University of Chicago,
Chicago, Illinois*

factor (TNF)-induced dysregulation of the intestinal barrier may be a critical pathogenic component of these diseases. The goals of this article are to review current understanding of mechanisms of barrier regulation, con-

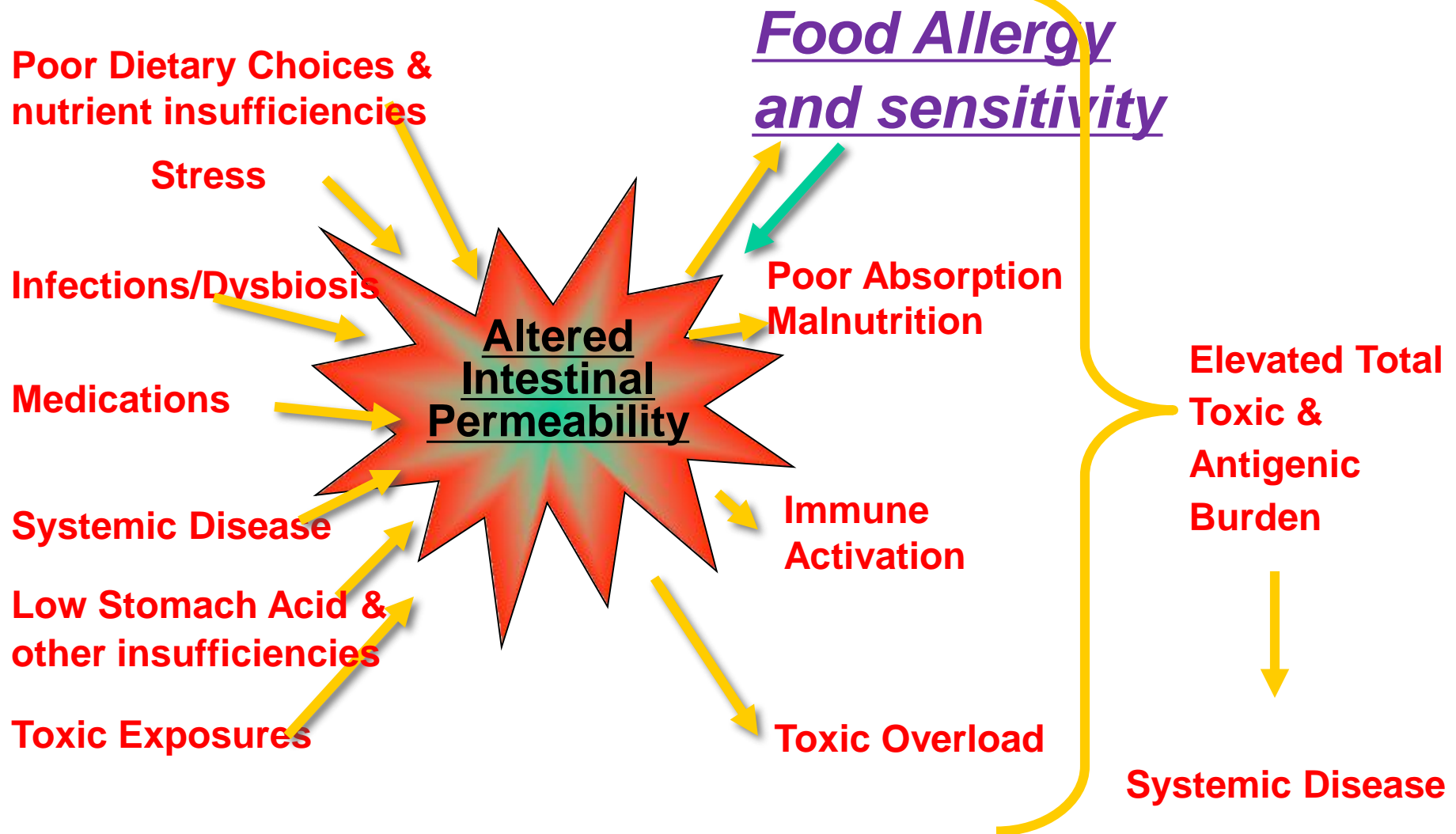
The intestinal mucosa...must balance the needs for a barrier against a hostile environment, like the skin, with the necessity of active and passive transport, like the renal tubule. An intact intestinal barrier is, therefore, critical to normal physiological function and prevention of disease.

involve multiple mechanisms of injury, including immune dysregulation, epithelial apoptosis, and signal transduction events. Many diseases, particularly inflammatory bowel disease, celiac disease, ischemic disease, and graft-versus-host disease, are also associated with loss of intestinal barrier function.²⁻¹⁵ Although incompletely explored, significant data suggest that tumor necrosis

Amgen Outstanding Investigator Award, delivered a lecture entitled "Molecular Basis of Epithelial Barrier Regulation: From Basic Science to Clinical Application" on April 2, 2006 at the annual meeting of the American Society for Investigative Pathology in San Francisco, CA.

Address reprint requests to Jerrold R. Turner, Department of Pathology, The University of Chicago, 5841 South Maryland Ave., MC 1089, Chicago, IL 60637. E-mail: jturner@bsd.uchicago.edu.

What are the Causes of increased IP and how does it relate to illness?



I've just explained what's wrong with having increased intestinal permeability?

It leads to disease!

Conditions associated with Increased intestinal permeability

Bacteraemia, infected necrosis, organ failure, and mortality were all associated with intestinal barrier dysfunction early in the course of acute pancreatitis

Migraines

Cholelithiasis

Chronic Fatigue Syndrome

A variety of *auto-immune diseases* including:

- Type 1 Diabetes₅
- Coeliac Disease
- Rheumatoid Arthritis
- Psoriasis
- Hashimoto's Thyroiditis₁

1. Besselink, MG, et.al. Intestinal barrier dysfunction in a randomized trial of a specific probiotic composition in acute pancreatitis. *Ann Surg.* 2009 Nov;250(5):712-9.
2. The role of the gut in migraine: the oral ⁵¹-Cr EDTA test in recurrent abdominal pain. Amery WK, Forget PP. *Cephalalgia.* 1989 Sep;9(3):227-9.
3. *J Gastroenterol Hepatol.* 2009 Aug;24(8):1451-6. Epub 2009 Apr 13. The preliminary experimental and clinical study of the relationship between the pigment gallstone and intestinal mucosal barrier. Su Y
6. *Diabetologia.* 2010 Apr;53(4):741-8. Epub 2009 Dec 13. Gut barrier disruption by an enteric bacterial pathogen accelerates insulinitis in NOD mice. Lee AS
7. *Nat Rev Gastroenterol Hepatol.* 2010 Apr;7(4):204-13. The spectrum of celiac disease: epidemiology, clinical aspects and treatment. Tack GJ
8. *Clin Exp Rheumatol.* 2003 Sep-Oct;21(5):657-62. Gastrointestinal symptoms and permeability in patients with juvenile idiopathic arthritis. Weber P
9. Intestinal permeability in patients with psoriasis. Humbert P, Bidet A, Treffel P, Drobacheff C, Agache P. *J Dermatol Sci.* 1991 Jul;2(4):324-6
10. Intestinal permeability in patients with psoriasis. Humbert P, Bidet A, Treffel P, Drobacheff C, Agache P. *J Dermatol Sci.* 1991 Jul;2(4):324-6
11. A randomized, double-blind, placebo-controlled trial of the effect of

Reproductive Issues

Infertility and First Trimester Loss

INTRODUCTION

Proinflammatory Th1 cytokines such as interleukin (IL)-1, tumor necrosis factor (TNF)- α , and interferon (IFN)- γ have been implicated in causation of infertility, implantation failure, recurrent miscarriage (abortion), preeclampsia and/or fetal growth restriction, and in precipitation of premature labor.^{1–7}

Clark DA, Chaouat G, Gorczynski RM. Thinking outside the box: mechanisms of environmental selective pressures on the outcome of the materno-fetal relationship. AJRI 2002; 47:275–282 © Blackwell Munksgaard, 2002

PROBLEM: Study of mechanisms causing spontaneous abortion of the vascularized

Key words:

Natural selection, pregnancy immunology, spontaneous abortion

Presidential Address

Thinking Outside the Box: Mechanisms of Environmental Selective Pressures on the Outcome of the Materno-fetal Relationship*

Figure 1 summarizes data relating intestinal flora, intestinal permeability, and abortion rates.

Clark DA, Chaouat G, Gorczynski RM. Thinking outside the box: mechanisms of environmental selective pressures on the outcome of the materno-fetal relationship. *AJRI* 2002; 47:275–282 © Blackwell Munksgaard, 2002

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278 / CLARK ET AL.

Presidential Address
**Thinking
Environment
of the M**

DAVID A. CLARK,

Clark DA, Chaouat
environmental selecti

2002; 47:275-282 © Blackwell Munksgaard, 2002

PROBLEM: Study of mechanisms causing spontaneous abortion of the vascularized

	CB17 ^{+/+}	CB17 ^{SCID/+}
Schaedler flora	18 %	41 %
“ + Staph. sp.	39 %*	55 %*
CBA x DBA/2 matings		
Control	26 %	19 %
Tetracycline po	13 %*	
Indomethacin po		31 %*

**f
Outcome**

Fig. 1. Some effects of ‘intestinal’ flora on abortion rates. Staph., sp. ¼ Staphylococcus species. *Denotes a statistically significant effect.

tion, pregnancy
immunology, spontaneous
abortion

Cancer

Causation



Hilton London Heathrow Airport

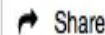
Hounslow, United Kingdom

from
£130.06

[VIEW >](#)

Science News

from research organizations



Stronger intestinal barrier may prevent cancer in the rest of the body, new study suggests

Date: February 21, 2012



A leaky gut may be the root of some cancers forming in the rest of the body, a new study published online Feb. 21 in *PLoS ONE* by Thomas Jefferson University researchers suggests.

Cancer

Causation of Breast and Colon

ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

Issue: Nutrition and Physical Activity in Aging, Obesity, and Cancer

Obesity-induced metabolic stresses in breast and colon cancer

Epidemiological studies have suggested that excess body weight gain may be a major risk factor for colon and breast cancer. A positive energy balance creates metabolic stresses, including the excess production of reactive oxygen species (ROS), hyperinsulinemia, the elevated adipokine secretion, and **increased gut permeability.**

Cancer

Issues After Cancer Treatment

Abstract ▾

Send to: ▾

Curr Opin Support Palliat Care. 2011 Mar;5(1):47-54. doi: 10.1097/SPC.0b013e328343a043.

The significance of altered gastrointestinal permeability in cancer patients.

Melichar B¹, Zezulová M.

 **Author information**

Summary: Intestinal permeability testing...may represent a tool for noninvasive objective assessment of intestinal toxicity of anticancer therapy.

disaccharide/monosaccharide ratio and decreased xylose absorption have been described in patients treated by radiotherapy as well as different cytotoxic or targeted agents across a spectrum of malignant disorders. Intestinal permeability changes correlated with clinical manifestations, including diarrhea, mucositis, neutropenic enterocolitis and systemic infections. The measurement of intestinal permeability has also been used as a surrogate end-point in interventional studies.

SUMMARY: Intestinal permeability testing using nonmetabolized sugars may represent a tool for noninvasive objective assessment of intestinal toxicity of anticancer therapy.

Increased Intestinal Permeability
is Obviously Quite Important

Did you know?

Intestinal Permeability and Food Intolerance

50-100% of Food Intolerant patients have increased intestinal permeability.

1. Bjarnason I, MacPherson A, Hollander D. Intestinal permeability: an overview. *Gastroenterology*. 1995;108:1566-81.
2. Ventura MT, Polimeno L, Amoroso AC, Gatti F, Annoscia E, Marinaro M, et al. Intestinal permeability in patients with adverse reactions to food. *Dig Liver Dis*. 2006 ;38:732-6.

**So understanding and
testing for food sensitivities
and food induced
inflammation is critical for
your practice!**

National Institute of Allergy and Infectious Disease
Definition of Food Allergy

**Adverse health effect arising from a specific
immune response that occurs reproducibly
on exposure to a given food**

Type 1 hypersensitivity (IgE)

4-8% US population have allergies that fit within the NIAID definition



According to the NIAID, there are additional groups of patients with food reactions

Approximately 12% of the US population can be diagnosed with reactions to food (IgE food allergies, Food intolerances, Celiac disease, Non-IgE FA such as eosinophilic oesophagitis/gastroenteritis)

BUT...

National Institute of Allergy and
Infectious Diseases says..

*Up to 90% of presumed food
allergies are NOT allergies*

NIAID 2010 Guidelines J Allergy Clin Immunol. 2010 Dec;126(6 Suppl):S1-58.

**Conservative estimates suggest that
a third of the US population believe
they have a reaction to some food**

**Chafen, S. *The Journal of the American Medical Association.*
May 12, 2010; vol 303: pp 1848-1856.**

Food allergy: Immunologic IgE-mediated type
1 hypersensitivity

Food sensitivity: Immunologic reaction to
food (IgA or IgG-mediated delayed
hypersensitivity)

Food intolerance: Non-immunologic reaction
to food (e.g. lactose intolerance)

Immunoglobulin G (IgG)

- IgG makes up 75% of total immunoglobulins
- Half life of ~21-23 days
 - therefore, IgG elimination diets should be at least 3 weeks to decrease IgG by half

Symptoms Associated with IgG Delayed Hypersensitivity Reactions

Systemic:

- Fever
- Fatigue
- Sweating
- Chills
- Weakness
- Reduced exertional tolerance

Digestive tract:

- Abdominal pain
- Bloating
- Nausea
- Vomiting
- Diarrhoea

Lungs:

Food-induced bronchitis and asthma

Joints, muscles, connective tissue:

- Food-allergic arthritis
- Pain
- Stiffness
- Swelling

Skin:

- Itching
- Rashes
- Hives
- Thickening
- Redness
- Swelling
- Scaling (as in eczema or psoriasis)

Brain:

- Disorganised or disturbed thinking and feeling
- Memory disturbances
- Behavioural problems

Symptom Characteristics: IgE vs. IgG

IgE ‘ALLERGY’

IgG ‘SENSITIVITY’

Onset

Rapid (minutes)

Delayed (hours)

Duration

Brief (hours)

Prolonged (days)

Mechanism

Mast Cell

Circulating Complexes

Quantity of Food

Tiny

Dose Dependent

Food

Any (uncommon)

Common Foods

Patient Awareness

Often

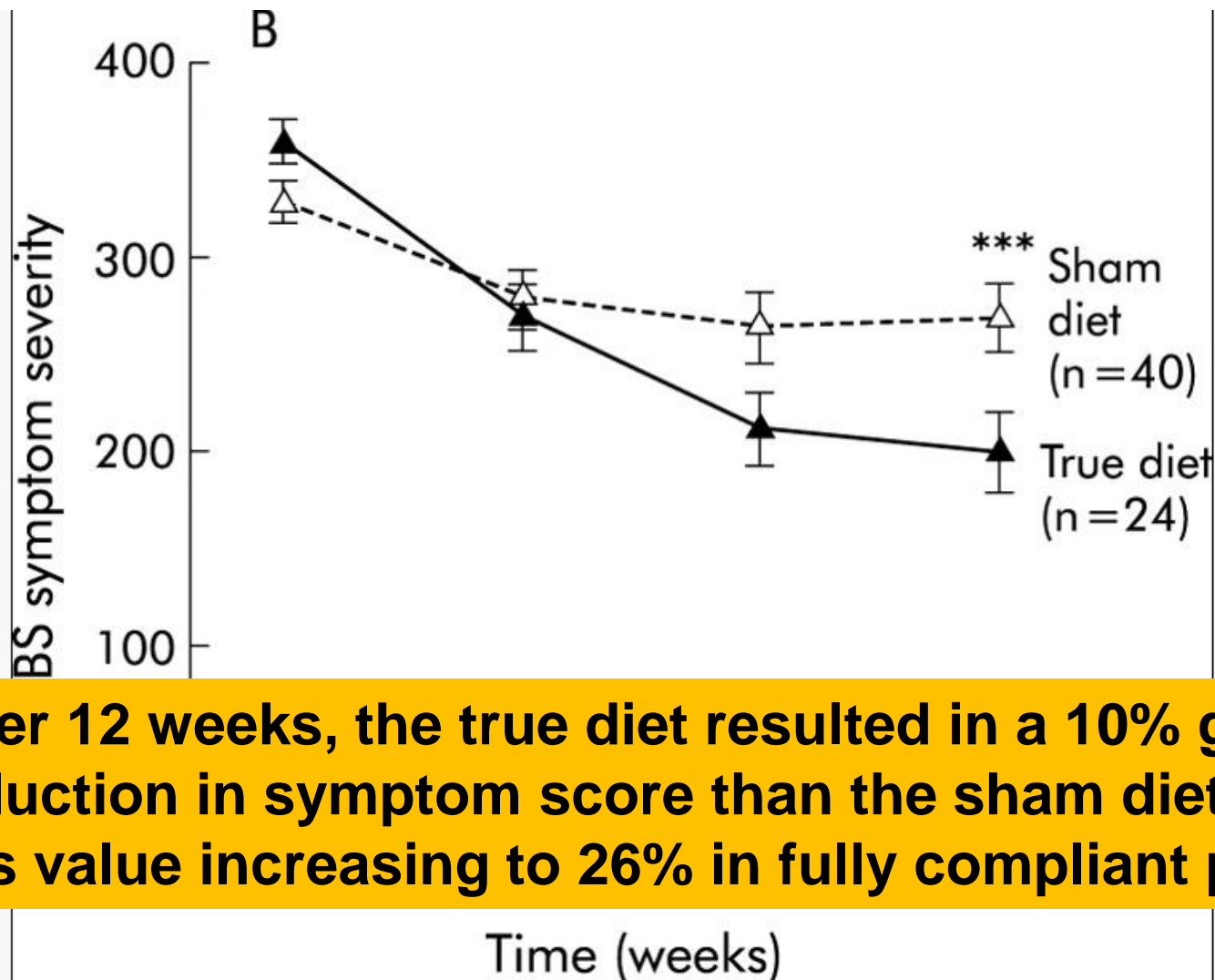
Rarely

**Persistence of
Antibody**

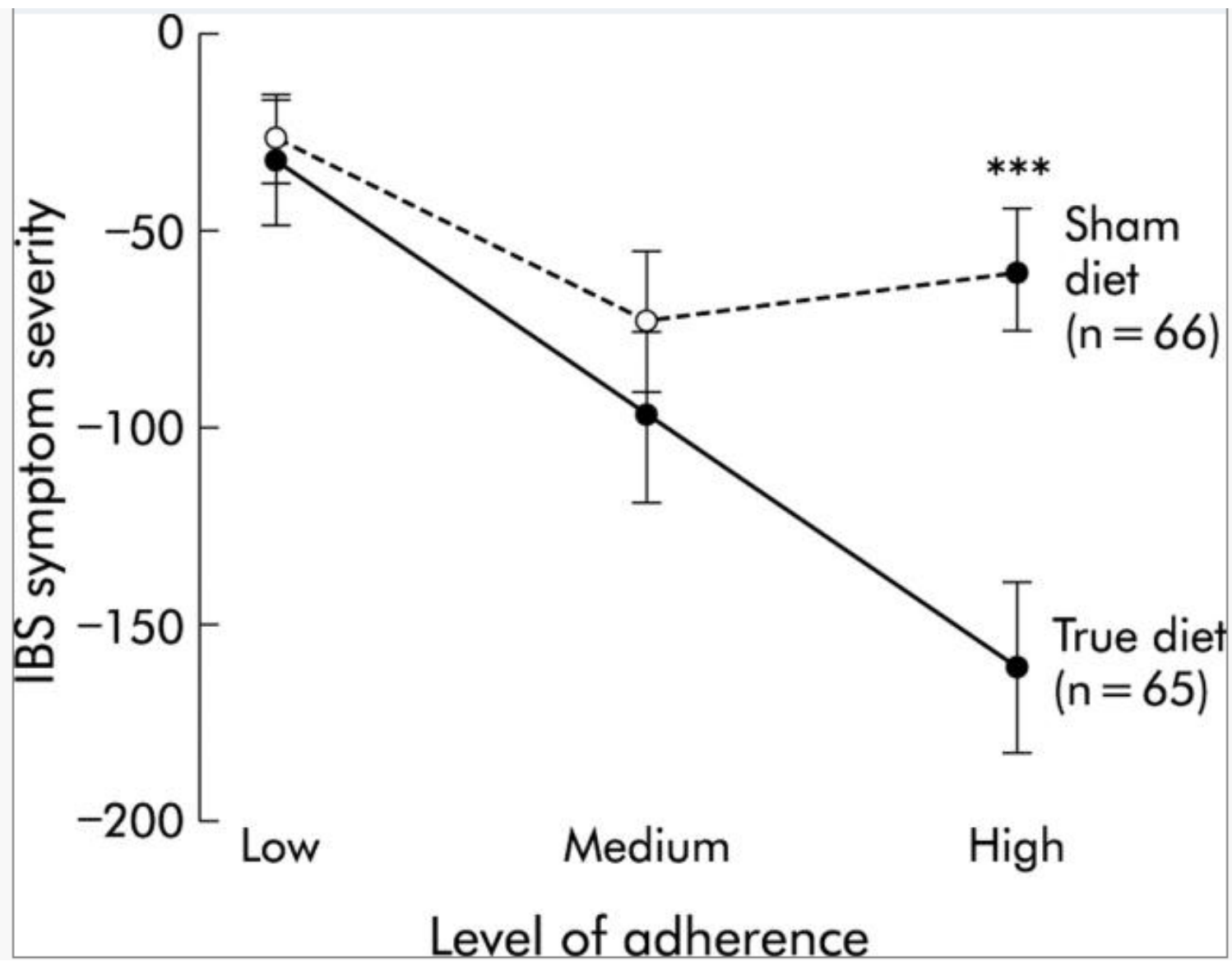
Lifelong

Months After Elimination

IgG testing and IBS



After 12 weeks, the true diet resulted in a 10% greater reduction in symptom score than the sham diet with this value increasing to 26% in fully compliant patients



Short Communication

Time to reconsider the clinical value of immunoglobulin G4 to foods?

Daniela Bernardi, Franco Borghesan, Diego Faggian, Fulvia Chieco Bianchi, Elisabetta Favero, Lucia Billeri and Mario Plebani*

Department of Laboratory Medicine, University Hospital of Padova, Padova, Italy

Abstract

Background: The usefulness of serum antibodies to common food antigens (immunoglobulin G4; IgG4) assay in management of patients suffering from food intolerance was assessed.

Methods: A total of 22 asymptomatic healthy subjects and 68 patients with symptoms referred for suspected food intolerance were studied. Serum IgG4 to 19 common foods was measured by an automated

assay. The prevalence of food-specific IgG4 antibodies was 5% in the general population (2–4). Moreover, our understanding of the pathophysiology of food intolerance is incomplete, and this drawback is paralleled by a paucity of options available for the diagnostic work-up. Elevated values of serum IgG4 (immunoglobulin G4 subclass) antibodies to specific food antigens, before dietary exclusion, may prove useful in targeted dietary exclusion, obviating the need to exclude a large number of foods from the diet. We therefore investigated the appropriateness of using in vitro diagnostics for food intolerance based on food IgG4 determination in order to evaluate the potential role of this measurement method in patient management.

Serum IgG4 concentrations were evaluated in subjects classified with no symptoms associated with

78.5% of participants had resolution of symptoms after following IgG4-based exclusion diet, and follow-up IgG4 testing showed that values decreased after 2 months of diet in 89.5% of these patients.

Keywords: diagnostic accuracy; exclusion diet; food intolerance; food-specific IgG4 antibody.

about the absence of bowel symptoms, atopic dermatitis, bronchial asthma, headache related to food ingestion, pruritus without dermatitis, gastroenteritis

IgG antibodies against food antigens are correlated with inflammation and intima media thickness in obese juveniles.

[Wilders-Truschnig M](#), [Mangge H](#), [Lieners C](#), [Gruber H](#), [Mayer C](#), [März W](#).

Clinical Institute of Medical and Chemical Laboratory Diagnostics, Medical University Graz, Austria. martie.truschnig@klinikum-graz.at

Obese juveniles showed a highly significant increase in IMT, elevated CRP values and anti-food IgG antibody concentrations compared to normal weight juveniles. Anti-food [total] IgG showed tight correlations with CRP and IMT

atherogenesis. We examined the relationship between IgG antibodies specific for food components, low grade inflammation and early atherosclerotic lesions in obese and normal weight juveniles.

IgG testing and Migraines

Diet restriction in migraine, based on IgG against foods: A clinical double-blind, randomised, cross-over trial

30(7) 829–837
© International Headache Society 2010
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sagepub.co.uk/journalsPermissions.nav
DOI: 10.1177/0333102410361404
cep.sagepub.com


Kadriye Alpay¹, Mustafa Ertas¹, Elif Kocasoy Orhan¹,
Didem Kanca Üstay², Camille Lieners³ and Betül Baykan¹

Abstract

Introduction: It is well-known that specific foods trigger migraine attacks in some patients. We aimed to investigate the

This is the first randomised, cross-over study in migraineurs, showing that diet restriction based on IgG antibodies is an effective strategy in reducing the frequency of migraine attacks

Results: The average count of reactions with abnormally high titre was 24 ± 11 against 266 foods. Compared to baseline, there was a statistically significant reduction in the number of headache days (from 10.5 ± 4.4 to 7.5 ± 3.7 ; $P < 0.001$) and number of migraine attacks (from 9.0 ± 4.4 to 6.2 ± 3.8 ; $P < 0.001$) in the elimination diet period.

Conclusion: This is the first randomised, cross-over study in migraineurs, showing that diet restriction based on IgG antibodies is an effective strategy in reducing the frequency of migraine attacks.

IgG testing and Crohn's

- **Clinical relevance of IgG antibodies against food antigens in Crohn's disease: a double-blind cross-over diet intervention study**
- **In 84% and 83% of the CD patients (n=79), IgG antibodies against processed cheese and yeast were detected.**
- **Significant reduction in stool frequency and abdominal pain on IgG diet as compared to controls on sham diet.**
- **Digestion. 2010;81(4):252-64.**

Commonly Reported Symptoms in Patients with IgG Food Reactions

Nasal congestion

Nasal drainage

Sinus headaches

Fatigue after meals

Throat clearing

Chronic fatigue

Dry cough

Sneezing

Hoarseness

Migraine headaches

Itchy eyes

Nausea

Watery eyes

Itchy skin

Cramps



IgG Testing and Treatment:

- **Eliminate reactive foods for at least 4 weeks to assess improvement.**
- **Response may show an exacerbation before improvement.**
- **If test shows reaction to many foods, or yeast, consider underlying intestinal permeability.**

IgG Testing Summary

- Testing has demonstrated clinical utility
- Testing may improve adherence
- Elevation of IgG may be evidence of underlying inflammation- symptoms or not
- Use consistent and trusted laboratory like KMBO

Why KMBO is my trusted lab:

The FIT Test: KBMO

- Founded in 2004

12,000sq ft facility with manufacturing and CLIA High Complexity lab

- ISO 13485 certified quality and FDA registered Manufacturing Facility
- Patent Granted October 2012: Detection of Antigen Specific Immune Complexes:
#8,309,318
- Over 100,000 tests manufactured and growing

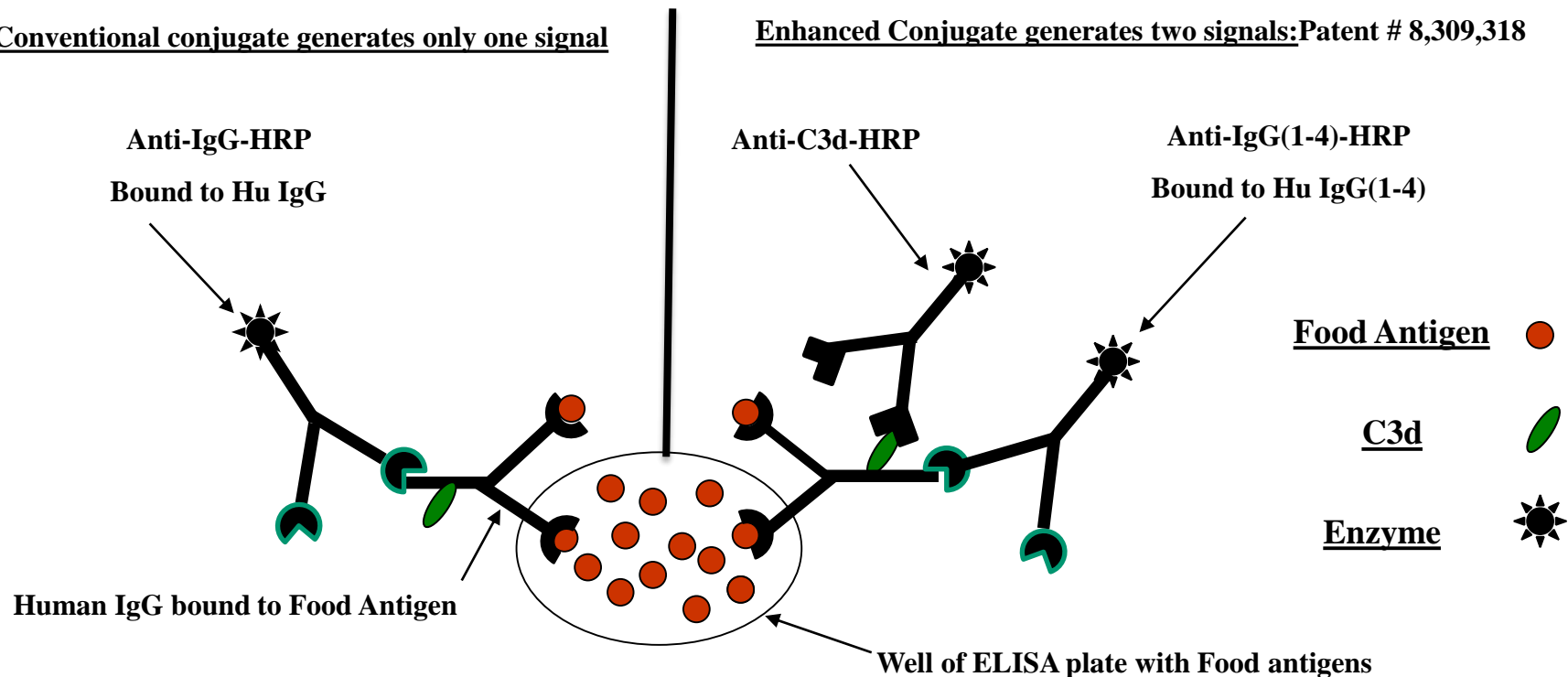


The FIT Test: Format and Technology showing Enhanced Sensitivity

Comparison of conventional conjugate: anti-IgG with enhanced conjugate: anti-IgG(1-4) and anti-C3d

Conventional conjugate generates only one signal

Enhanced Conjugate generates two signals: Patent # 8,309,318



The FIT Test: Overview

- The FIT Test measures 132 Foods and Additives
- Finger stick enables is a quick and easy way to obtain a sample
- The Patient Report is easy to understand
- A check list of common food-related symptoms is provided



The FIT Test: Foods and Additives Tested

The 132 Foods and Additives we test on the FIT Test




<u>Additives</u>	<u>Plant Foods: Beans</u>	<u>Plant Foods: Berries</u>
Aspartame	Cacao	Avocado
Benzoic Acid	Coffee	Blueberry
BHA	Green,string	Cranberry
MSG	Kidney	Grape, White seedless
Polysorbate 80	Lima	Raspberry
Red #2	Navy	Strawberry
Red #3	Pinto	<u>Extracts/Misc.</u>
Red #40	Soy	Canola Oil
Saccharin	Wax	Gelatin
Yellow #6	<u>Plant Foods: Fruits</u>	Sugar,cane
<u>Dairy</u>	Apple	Tea
Casein	Apricot	Mushroom
Milk, Cow	Banana	<u>Microbial</u>
Egg,white,chick.	Cantaloupe	Yeast,baker's
Fish	Cherry	Yeast,brewer's
Catfish	Grapefruit	<u>Poultry</u>
Codfish	Honeydew Melon	Chicken
Flounder	Lemon	Duck
Grouper	Lime	Turkey
Halibut	Olive,green	<u>Seeds</u>
Orange Roughy	Onion,white	Cotton
Salmon	Orange	Dill
Snapper	Peach	Safflower
Sole	Pear	Sesame
Swordfish	Pineapple	Sunflower
Trout	Plum	<u>Shellfish</u>
Tuna	Watermelon	Clam
<u>Grains</u>	<u>Plant Foods: Vegetable</u>	Crab
Barley	Artichoke	Lobster
Buckwheat	Asparagus	Scallops
Millet	Broccoli	Shrimp
Oat	Beets	<u>Spice</u>
Rice	Cabbage	Basil
Rye	Carob	Cinnamon
Wheat,gulten	Lettuce	Garlic
Wheat,whole	Carrot	Ginger
<u>Meats</u>	Cauliflower	Hops
Beef	Celery	Mustard
Lamb	Corn,sweet	Oregano
Pork	Cucumber	Paprika
<u>Nuts</u>	Pea,green	Pepper,Black
Almond	Potato,sweet	Pepper,Chili
Cashew	Potato,white	Pepper,Green
Coconut	Pumpkin	Pepper,Red Cayenne
Colanut	Spinach	Peppermint
Walnut,English	Squash Mix	Rosemary
Hazelnut	Tomato	Tumeric
Peanut	Zucchini	Vanilla
Pecan		



The FIT(Food Inflammation Test) Fingerstick Shipping and Reporting:



Fingerstick, Shipping and Reporting

Instructions:		
1	Use the side of the fingertip on either the middle or ring finger for the finger stick. Do not use the center pad of the finger it is the most sensitive area.	
2	Warming your finger may be necessary to acquire the correct amount of blood. Simply run warm to hot water over it for a few minutes and dry it well before gently massaging the finger from the base to the tip until the finger turns red.	
3	Clean the site you will use the finger stick with the provided alcohol swab and allow to air dry.	
4	Position the lancet provided over the area you just cleaned and press lancet firmly against puncture site. Once the site has been punctured, set the lancet aside. Gently massage from the hand toward the puncture site to obtain required volume. Do not squeeze or apply strong repetitive pressure to the site as it may damage the sample.	
5	Fill each circle on the provided collection card with blood. It is important to fill each circle to ensure enough sample can be obtained to properly administer the test. At least three circles must be filled, but if possible please fill all five.	
6	Following collection, clean the area with the second provided alcohol wipe and press clean gauze or cotton on the area until bleeding has stopped.	
	Label the collection card with name and date the sample was collected. Wait a few minutes until the blood has dried completely on the card before placing it inside the provided biohazard bag, sealing it and placing it inside the provided return envelope.	
7	Ship the envelope in the mail to:	KBMO Diagnostics 1a Business Way Hopdale MA, 01747
8	KBMO Diagnostics will analyze the sample and e-mail a complete report in 5-7 days.	

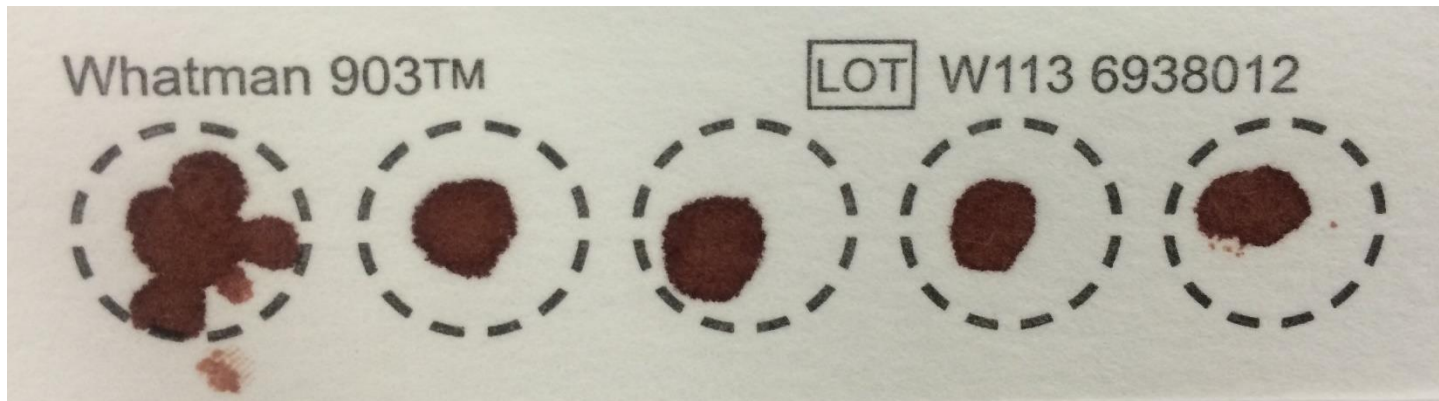
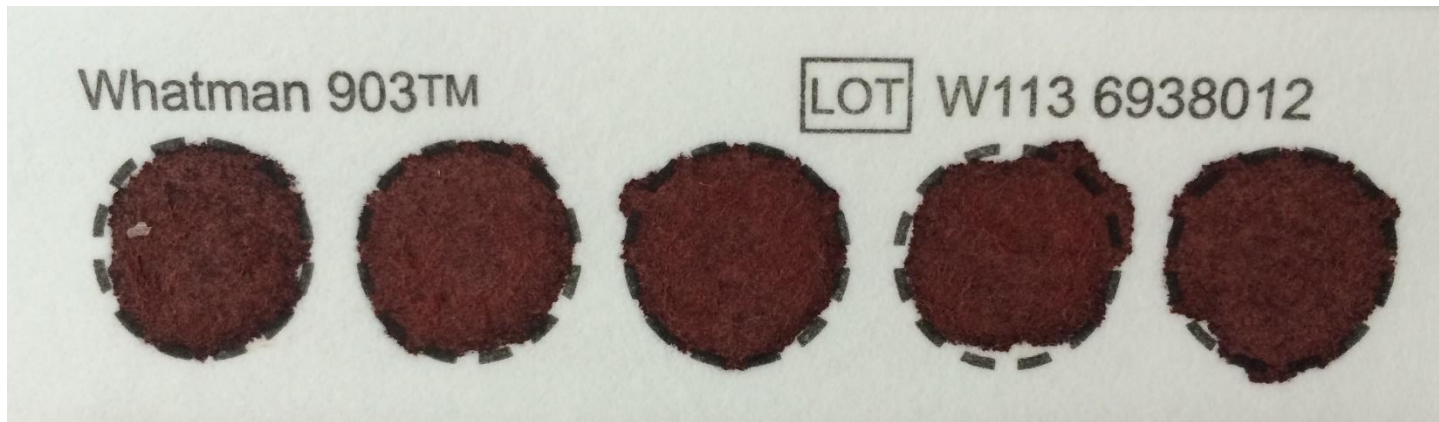


For Further Information and more Draw Kits Contact:

INFO@KBMODiagnostics.com

Call with any questions at 6179905741 or Send an e-mail: ⁶⁰

FIT(Food Inflammation Test) Test:
Good Spot versus a Rejected one



The FIT Test : Symptoms Checklist

If you have one or more symptoms, you'll probably benefit from a food sensitivity test. Place a check for each symptom and include symptoms that you've 'learned to live with'. Return the completed checklist to your physician.

Digestive Tract

- ☐ Belching
- ☐ Bloating feeling
- ☐ Constipation
- ☐ Diarrhea
- ☐ Nausea
- ☐ Passing gas
- ☐ Stomach pains
- ☐ Vomiting

Ears

- ☐ Drainage
- ☐ Ear aches
- ☐ Ear infections
- ☐ Hearing loss
- ☐ Itchy ears
- ☐ Ringing

Emotions

- ☐ Aggressiveness
- ☐ Anxiety/fear
- ☐ Depression
- ☐ Irritability/anger
- ☐ Mood swings
- ☐ Nervousness

Energy & Activity

- ☐ Apathy

- ☐ Fatigue
- ☐ Hyperactivity
- ☐ Lethargy
- ☐ Restlessness
- ☐ Sluggishness

Eyes

- ☐ Blurred vision
- ☐ Dark circles
- ☐ Itchy eyes
- ☐ Sticky eyelids
- ☐ Swollen eyelids
- ☐ Watery eyes

Head

- ☐ Dizziness
- ☐ Faintness
- ☐ Headaches
- ☐ Insomnia
- ☐ Lightheadedness

Joint & Muscles

- ☐ Aches in muscles
- ☐ Arthritis
- ☐ Feeling of weakness
- ☐ Limited movement
- ☐ Pain in joints
- ☐ Stiffness

Lungs

- ☐ Asthma/bronchitis
- ☐ Chest congestion
- ☐ Difficulty breathing
- ☐ Shortness of breath
- ☐ Wheezing

Mind

- ☐ Confusion
- ☐ Learning disability
- ☐ Poor concentration
- ☐ Poor memory
- ☐ Stuttering

Mouth & Throat

- ☐ Canker sores
- ☐ Chronic coughing
- ☐ Gagging
- ☐ Often clear throat
- ☐ Sore throat
- ☐ Swollen tongue
- ☐ Swollen lips/gums

Nose

- ☐ Excessive mucous
- ☐ Hay fever
- ☐ Sinus problems
- ☐ Sneezing attacks

- ☐ Stuffy nose

Skin

- ☐ Acne
- ☐ Dermatitis
- ☐ Eczema
- ☐ Excessive sweating
- ☐ Flushing/hot flashes
- ☐ Hair loss
- ☐ Hives/rashes
- ☐ Itching

Weight

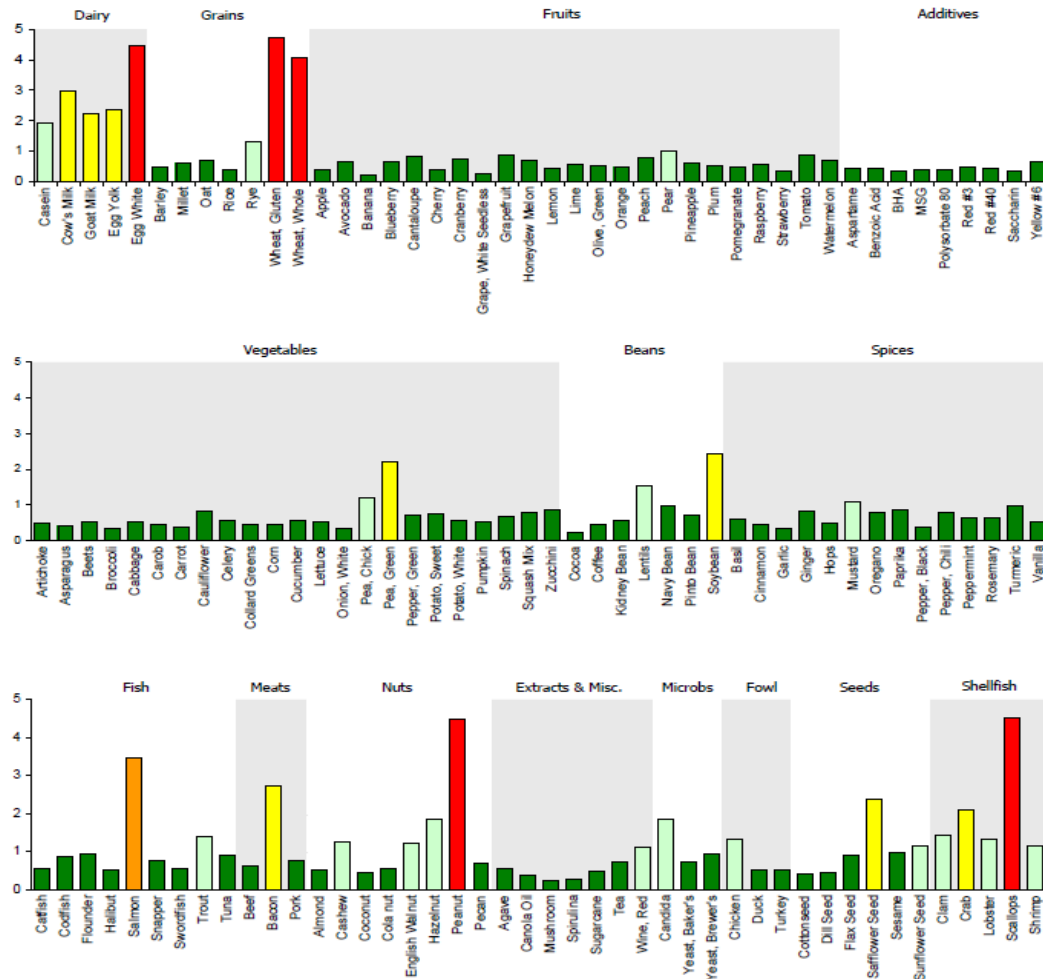
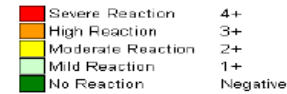
- ☐ Binge eating
- ☐ Compulsive eating
- ☐ Cravings
- ☐ Excessive weight
- ☐ Underweight
- ☐ Water retention

Other

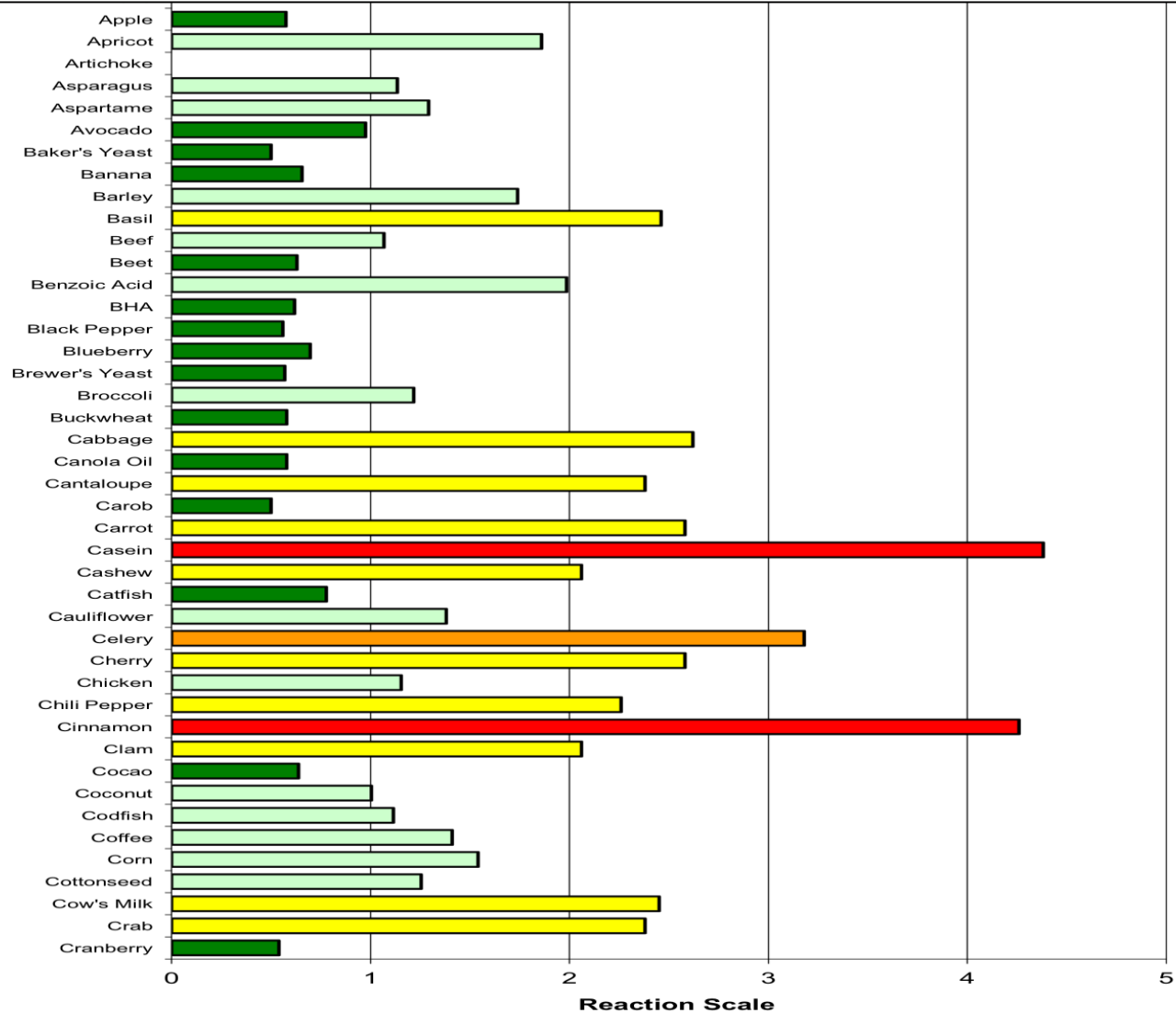
- ☐ Anaphylactic reaction
- ☐ Chest pains
- ☐ Frequent illness
- ☐ Genital itch
- ☐ Irregular heartbeat
- ☐ Rapid heartbeat
- ☐ Urgent urination



The FIT Test: Patient Report

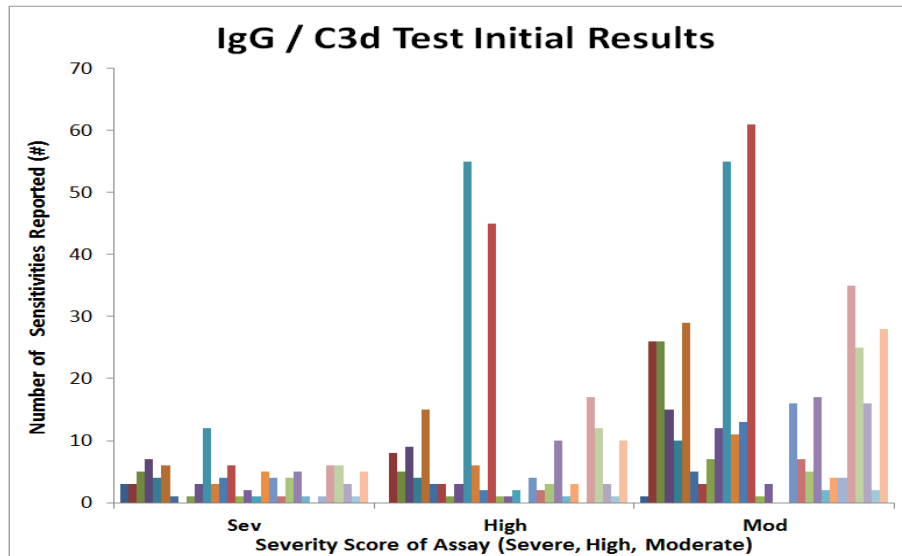


The FIT Test: Typical Report

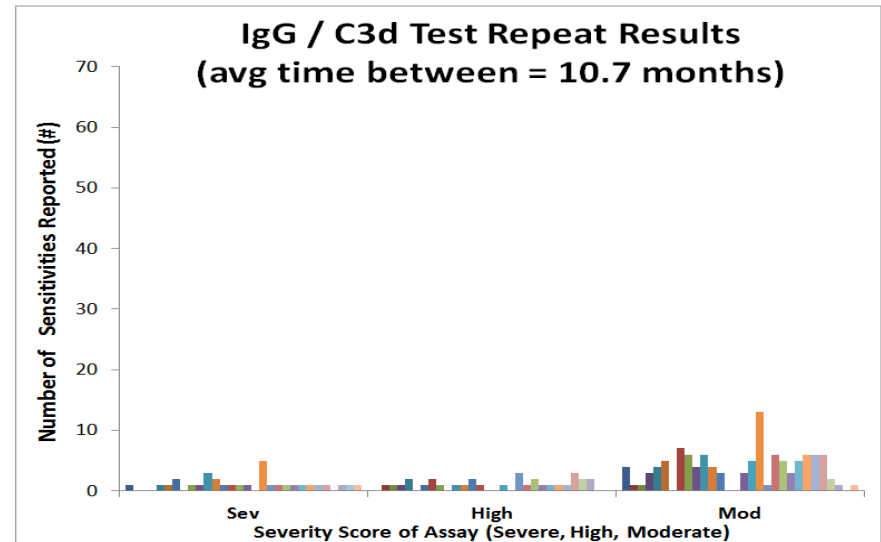


The FIT Test: Clinical

Test before elimination Diet



Test after elimination Diet



Data was analyzed for 30 patients tested before and after the elimination diet. There was a significant reduction in number of sensitivities reported after the elimination diet which indicates the FIT Test could predict specific food sensitivities.



The FIT Test: Clinical Testing Results

Significant Improvement in Symptoms was observed after the elimination diet

<u>Complaint/Symptom</u>	<u>Number of Patients Reporting on Initial Test</u>	<u>Number of Patients Reporting on Second Test</u>
<i>Memory/Concentration</i>	22	3
<i>Anxiety/Mood/Depression</i>	20	3
<i>Bloating/Stomach Pain</i>	18	2
<i>Fatigue</i>	18	4
<i>Sleeplessness/Insomnia</i>	15	3
<i>Joint Pain / Stiffness / Swelling</i>	13	1
<i>Muscle Aches</i>	13	1
<i>Craving Sugar</i>	12	2
<i>Sleeplessness/Insomnia</i>	12	0
<i>Lightheaded/Dizzy</i>	11	2
<i>Allergies/Sinus</i>	9	2
<i>Cold Intolerance</i>	9	3
<i>Inability to lose weight</i>	9	2
<i>Libido/Impotence</i>	9	0
<i>Constipation</i>	8	2
<i>Diarrhea</i>	7	1
<i>Halitosis</i>	7	1
<i>Tearing Eyes</i>	6	1
<i>Brittle Nails/Dry Skin/Dry Mouth</i>	5	0
<i>Bruising</i>	5	1
<i>Headaches</i>	5	3
<i>Irregular Heart Beat</i>	5	1
<i>Numbness Hands/Feet</i>	5	1
<i>Sinus Problems</i>	5	0
<i>Thyroid</i>	5	1
<i>Eczema</i>	4	0
<i>Drowsiness</i>	3	0
<i>PMS</i>	3	1



My Case:

The Center for Women's Health

Name: Kimberly L

Address: _____

CC: 48yo F P1021 LMP 22 d ago was referred by Dr. Pyles to Rn of "womens"
GI sk.

MENSES: Onset: _____ Regularity: 28 Intermenstrual Bleeding: 0

CONTRACEPTION: Breast Discharge or Lumps: 0 STD: 0

femion
LAST PAP: 2 no LAST MAMMO: 1 no BONE DENSITY: _____

GYN HISTORY:

0

SEXUAL HISTORY:

0

PREGNANCIES:

No.	Year	Hospital	Dur. of Gestation	Dur. of Labor	Type of Delivery	Born A or D	Weight	Mother	Complications	Child
1		MSD X/								
2		MD X/								
3		spw 70 X/								
4										

MEDICAL HISTORY:

Gut well until 3 yrs ago then would wake up & stomach "soreness" - worse & away - not worse -

Last full lab 2 and go for vertigo

SURGICAL HISTORY:

0

STRESSORS: not very hard some relief emotionally - good spiritually - atheist - great.

MEDS: fencan

ALLERGIES: 0

SUMMARY OF PROBLEMS:

GI issue - 2 IBS

TREATMENT PLAN:

Before HCC protocol

FIT

Mixed

metastatic stool

Cup - HCA Da 2 & 8, full labs, BIL, DHEA


IBS

Pap:


Mammo:

6/20/15 explained Metametrics and Nutreval to Pt.
Gave Pt. BidWK, Did FIT today.

7/15/15 Spoke to pt and informed her FIT results
are in. Pt has consult scheduled 7/21/15.
pt stated she did not do metametrics or
nutreval.



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7/21/15 Consult
did not FIT test

Restricted Foods

4+
ItemsWheat, Gluten
Wheat, Whole3+
Items2+
ItemsCow's Milk
Egg White
Oregano
Lobster

6/20/15 explained Metametrics and Nutreval to Pt.
Gave Pt. BldWK, Did FIT today.


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are in. Pt has consult scheduled 7/21/15.
pt stated she did not do metametrics or
nutreval. 

7/21/15 Consult

did not FIT test

will await other test - avoid gym, drug, ESS, organ, labor, stress
either one

will do other test.



10-20-15 Consult

11-3-15 Consult

I feel great

I feel really good

H+E doing

Wants to stay on all sept

will report cost until January



The FIT Test: Conclusions

- The test is highly sensitive and accurate
- Manufactured using a ISO 13485 quality system in a FDA registered facility to ensure quality, reliability and reproducibility
- Patented technology which ensures patients the best in class technology
- Excellent clinical outcomes demonstrating a reduction in symptoms
- A growing list of thought leaders are adopting this test in their practices

