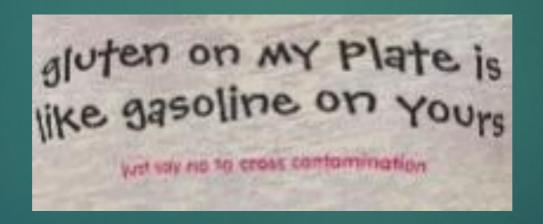
Gluten-Free in 2024: Who, What, When, Why and How?



CORY TALBOTT, RDN, SNS

Who does Celiac Disease affect?

- ▶ 1 in 100
- Significantly more common in females



What is Gluten Intolerance?

Celiac Disease

- Autoimmune
 - Villous Atrophy

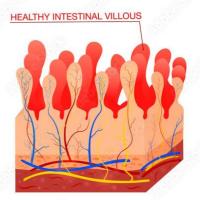
Non-Celiac Disease Gluten Intolerance

- Immune
 - Inflammation

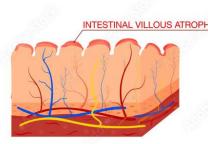
Wheat Allergy (NOT Intolerance)

- Food Allergy
 - Anaphylaxis

CELIAC DISEASE







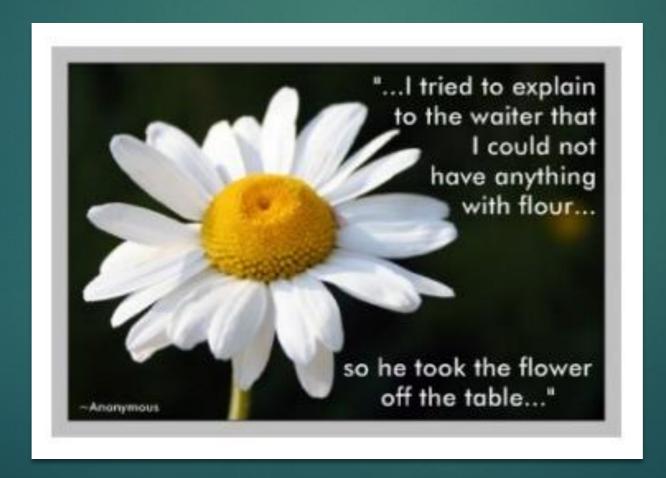
CELIAC DISEASE

When is the onset of Celiac Disease?

- ► Any time!
- ▶ 2 common windows
 - ► Early childhood (8 12 months)
 - ▶ Mid-life (ages 40 60)

Why does one get Celiac Disease?

- Genetics
- Unknown (When the body perceives trauma)



What are the symptoms?

Over 200 known symptoms

- Nutritional deficiencies
- Mg, Ca, Fe, Zn, Cu, Vitamin D, B Vitamins, Folate
- **Fiber**
- Fat Soluble Vitamins A,D,E,K

GASTRO

DIARRHOEA CONSTIPATION ABNORMAL BOWEL MOVEMENTS IRRITABLE BOWEL SYNDROME BLOATING GAS CRAMPING ABDOMINAL DISTENTION CHANGES IN APPETITE ACID REFLUX HEARTBURN NAUSEA & VOMITING MALNUTRITION MALABSORBTION VITAMIN OR MINERAL DEFICIENCIES

REPRODUCTIVE

INFERTILITY MISCARRIAGE MISSED MENSTRUAL PERIODS

KIDS

FAILURE TO THRIVE IN INFANTS DELAYED GROWTH IN CHILDREN

OTHER AUTOIMMUNE DISEASES

TYPE I DIABETES
HASHIMOTO'S THYROIDITIS
RHEUMATOID ARTHRITIS
MULTIPLE SCLEROSIS
ULCERATIVE COLITIS
ETC

Happyhealing.com



HEADACHES
MIGRAINES
BRAIN FOG
POOR CONCENTRATION
ANXIETY
DEPRESSION
NEUROPATHY (NERVE DAMAGE)
ATAXIA (LOSS OF BALANCE)
SEIZURES
ADHD
IRRITABILITY & MOOD SWINGS
BEHAVIOURAL CHANGES
DIZZINESS
SCHIZOPHRENIA
NEUROLOGICAL DISORDERS

BODY

FATIGUE & LETHARGY
TINGLING OR NUMBNESS IN
HANDS AND FEET
JOINT & BONE PAIN
OSTEOPENIA/OSTEOPOROSIS
WEIGHT LOSS
WEIGHT GAIN
INSOMNIA & POOR SLEEP
ANEMIA
EASY BRUISING

RANDOM

CANKER SORES
MOUTH ULCERS
MOUTH ULCERS
DENTAL ENAMEL DEFECTS
HAIR LOSS
SHORTNESS OF BREATH
MUSCLE CRAMPS
NOSEBLEEDS
HYPOGLYCEMIA
(LOW BLOOD SUGAR)

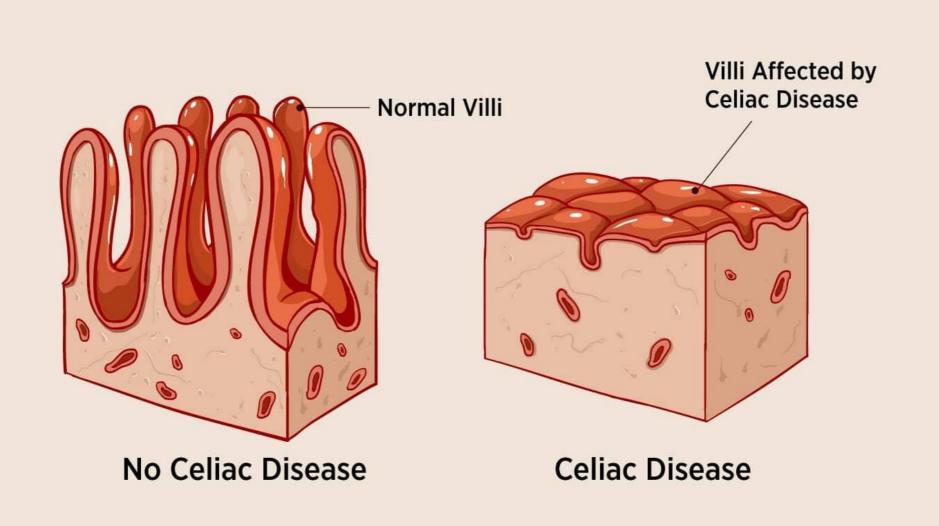


PALE & DULL SKIN RASHES & HIVES DERMATITIS HERPETIFORMIS

Who should get tested?

- Who should get tested?
 - Adults with symptoms
 - People with associated diseases
 - Asymptomatic first-degree family members
 - People with type 1 Diabetes

GET TESTED FIRST!



How is Celiac Disease diagnosed?

Anti-tissue transglutaminase (tTG)

Anti-endomysium (EMA))

Anti-deamidated gliadin peptides (DGP)

Small intestine biopsy (Gold Standard)

Halotype Test HLA DQ2 and DQ8 (occasionally recommended)

Must be ingesting gluten!

What are the related autoimmune diseases?

- Type 1 Diabetes (8 10%)
- Thyroid Disease (Grave's and Hashimoto's)
- Addison's Disease
- Autoimmune Chronic Hepatitis
- Mayasthenia Gravis
- Pernicious Anemia
- Raynaud's Phenomenon
- Scloroderma
- Sjogren's Syndrome
- Systemic Lupus Erythmatosus

Correlations

Genetic, firstdegree 1 in 22 Type 1 Diabetes 2.4 – 16.4%

Sjogrens Syndrome 2 - 15%

Autoimmune Thyroid Disease 4 – 6%

Downs Syndrome 12%

Infertility 4.1%

Peripheral Neuropathy 5% Autoimmune Hepatitis 6 – 15% Lactose Intolerance/Iron-Deficiency Anemia

You have Celiac Disease, now what?

- Gluten-Free is now your life
- You always have to think about food; what, why, when, and how
- This will challenge everything you have learned about cooking
- This will impact everyone in your family
 - Cross-contact
 - Groceries
 - Meal planning



The 10 Stages of Going Gluten-Free



Shock.

I can't believe I have to give it up.



Anger.

Why me?



Blame.

Who gave this to me?



Denial.

It's not true. Let me eat some gluten...



Guilt.

I shouldn't have eaten that gluten! I feel terrible!



Depression.

How can I enjoy eating if I can't have gluten?



Turnaround.

I need to deal with my gluten sensitivity/allergy.



Workaround.

Hey, look at all these gluten-free products – and recipes!



Relief.

Wow, I feel so much better without gluten.



Acceptance.

Gluten-free is my new way of life.



Gluten-Free, what it's not.

- Inherently healthier
- Good for weight loss
- Simply a fad
- ▶ 100% gluten-free
 - ▶ 20 ppm



How much is too much?

1/8 teaspoon flour



Nutrition Care Process

- National Institutes of Health Consensus Development Conference Statement identified six elements required for the management of celiac disease:
- Consultation with a skilled dietitian
- Education about the disease
- Lifelong adherence to a gluten-free diet
- Identification and treatment of nutritional deficiencies
- Access to an advocacy group
- Continuous long-term follow-up by a multidisciplinary team
- ADA Evidence Based Guidelines> Guideline List > Celiac Disease> Major Recommendations

The Food! What are the Challenges?



- Cost
- Time
- Locating it
- Learning curve
 - Can lead to other intolerances lactose, rice, soy, corn
 - Food labels
 - Manufactured in a facility...

Label Reading: What to Look For

- Wheat
- Rye
- Barley
- Easy
 - Wheat
- A little more challenging
 - Rye and barley
- Tricky
 - Malt, oats
 - Assumed products soy sauce, licorice, chicken



The Secret Life of a Flour Fanatic 2018



\$13.52 25 lb (\$0.54 1 lb)



The Secret Life of a Flour Fanatic



\$8.99 10 lb \$0.90 lb



2024

\$8.99 4 lb \$3.00 lb 1 slice (43 g)
Kcal 110
Fiber 3 g
Fat 2 g
Pro 4 g
Cost per slice \$0.25



1 slice (43 g)
Kcal 110
Fiber <1 g
Fat 2.5 g
Pro 3 g
Cost per slice \$0.63





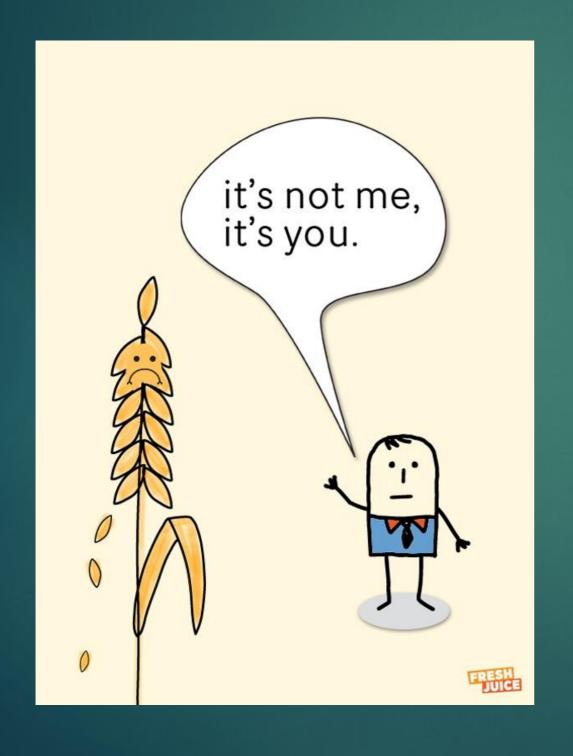
1 slice (47 g)
Kcal 99
Fiber 1.5 g
Fat 3 g \$8.52
Pro 1.9 g
Cost per slice \$0.37

How to navigate a GF diet

- Plan ahead
- Do your research
- Practice!



Don't Settle.











Gluten Free









Cravings

UNSWETENED CORNBREAD MIX





























GLUTEN FRE

DAIRY, SOY & NUT FREE

@ 8 <u>1</u>











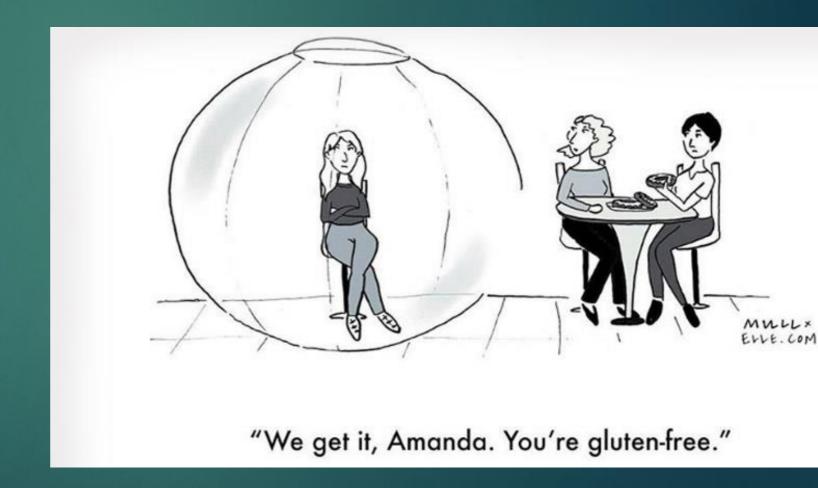






What are the Social Impacts of Celiac Disease?

- Parties/Buffet line
- School
- Business luncheon
- Holidays



What about Eating Out?

- Ask!
- Online Menus









"Seeing the bright-side of celiac, who<mark>lesome</mark> foods forever."





When Life
Hands
Lemons,
Lemons,
Be Grateful
They Are
Gluten Free
Gluten Free

It takes courage to be the best version of yourself."

free of gluten full of life

Resources

- Gluten Intolerance Group of North America © Copyright 2024 Gluten Intolerance Group Terms of Service Privacy Policy www.gluten.org
- ▶ Celiac Disease Foundation 5850 Canoga Ave | 4th FloorWoodland Hills, CA 91367. Medical information provided on this site has been prepared by medical professionals and reviewed by the Celiac Disease Foundation's Medical Advisory Board for accuracy. Information contained on this site should only be used with the advice of your physician or health care professional. © 1998-2024 Celiac Disease Foundation. The Celiac Disease Foundation is a recognized 501(c)(3) nonprofit organization. www.celiac.org
- Find Me Gluten Free. Elmore, Jason 2010. www.findmeglutenfree.com
- ► Food Allergen Labeling And Consumer Protection Act of 2004. (FALCPA). https://www.fda.gov/food/food-allergensgluten-free-guidance-documents-regulatory-information/food-allergen-labeling-and-consumer-protection-act-2004-falcpa
- ► Food Allergy Safety, Treatment, Education, And Research Act of 2021 (FASTER). https://www.foodallergy.org/resources/how-fare-advocates-helped-pass-faster-act

