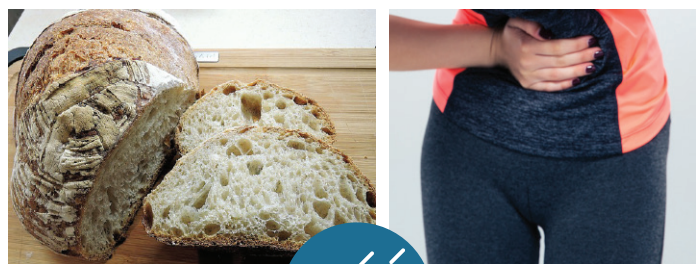


Celiac Screening

FDA-reagent approved test



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Celiac Disease (CD)

CD is an intestinal condition with various different clinical symptoms, some of which are obscure but can cause severe malnutrition. Symptoms also depend on the interaction between internal (genetic) and external (consumption of gluten-containing food).

Those genetically predisposed to CD have signs of damage on intestinal mucosa, which can also cause many different symptoms. Those who have CD but have not received treatment, are also prone to developing other autoimmune diseases.



Hardly Noticeable!

CD can develop at any age. "Celiac iceberg"¹ concept speculates that those diagnosed with CD is only the tip of the iceberg – the actual iceberg itself represent the large population with less obvious symptoms but is still show intestinal damage and malnutrition.

¹ Prof. Richard Logan, Professor of Epidemiology of Nottingham University in UK, proposed the concept in 1991.

Gluten

A protein found in wheat which responsible for the sticky and spongy texture of bread.

Damages on the mucous layer of the small intestine by own immune system are often observed in CD.

Symptoms are divided into these two:

Symptoms

TYPICAL	ATYPICAL	
Chronic diarrhea	Secondary to malabsorption	Independent of malabsorption
	Sideropenic anemia Short stature	Dermatitis herpetiformis Ataxia
Failure to thrive	Osteopenia	Alopecia
	Recurrent abdominal pain	Recurrent aphthous stomatitis
Abdominal distention	Recurrent abortions	Epilepsy
	Hepatic steatosis	Dental enamel hypoplasia
	Gaseousness	Hypo/Hyperthyroidism

Why should I use blood test to test for CD?



CD symptoms can develop at any age when foods in your diet contains gluten. Not only children, individuals aged between 30 and 60 years are determined as a group with high occurrence of having CD.

Compared to gastrointestinal endoscopy and intestinal biopsy, blood test is a non-invasive and easier way testing method. It avoids discomfort and damage caused by invasive testing method and provides a more valuable reference when considering invasive intestinal biopsies.



HK BioTek Celiac Screening

Our Celiac Screening Panel is a FDA-reagent approved test which utilizes the QUANTA Flash[®] CIA immunoassay. This test measures four antibodies:

ANTIGENTS	ANTIBODIES
Tissue transglutaminase (tTG)	IgA-tTG, IgG-tTG
Deamidated gliadin peptide (DGP)	IgA-DGP, IgG-DGP

Our test fulfills the guideline from the American College of Gastroenterology on the diagnosis and management of CD, and can detect nearly all biopsy proven celiac patients.

- ✓ IgA-tTG is the preferred single test in individuals.
- ✓ When suspecting patients with CD and IgA deficiency, they should use IgA & IgG-based testing.
- ✓ IgA-tTG should be combined with IgA- & IgG-DGP for patients younger than 2 years of age.
- ✓ IgG-based testing for patients with low IgA or selective IgA deficiency.

Each report contains a set of patient information sheets which further explains the background and detail of each test area and suggests viable substitutes, giving patients a solid supportive plan.

