

IgE 敏速知

了解101種過敏原，
為家人健康做到足。

全球 >30% 人受過敏困擾

世界過敏組織報告顯示，全球最少30%人士受過敏困擾，數字持續上升¹。如在香港，每五個人便有一個因過敏反應而出現濕疹，情況不能忽視²。

全球最少
30%
人士受過敏困擾

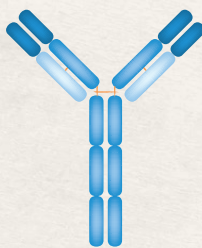
數字持續上升

香港每年約有
50至60宗
兒童食物過敏休克

8大主要的致敏食物
牛奶、雞蛋、甲殼類
海產、魚類、果仁、
大豆、小麥和花生

IgE (免疫球蛋白E)及敏感

IgE是由免疫系統產生的抗體。當過敏患者接觸到某種特定的過敏原時(一般無害的物質)，IgE會大量增加，這同時導致化學物質(例如組織胺)於血液循環系統內釋放，誘發有害的免疫系統反應而產生過敏徵狀。

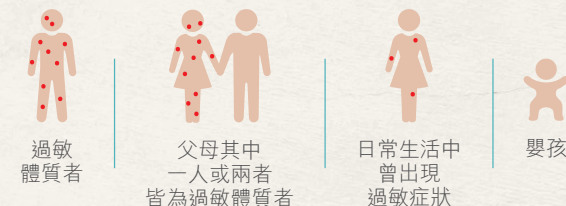


過敏患者的過敏反應不一，可能會出現輕微徵狀，但嚴重的徵狀則可能會危及性命³。過敏的嚴重程度是主要視乎個人身體反應。一個嚴重的過敏反應可以於接觸過敏原後數秒發生並發展至危及生命的情況，如過敏性休克，甚至死亡。



敏速知檢測對象

適合所有人士，尤其以下情況：



過敏測試比較

IgE 敏速知 採用已獲ISO 13485認證的德國廠房先進儀器及試劑。

檢測類別	IgE 敏速知	IgG 血液測試	皮膚點刺測試
抽取樣本及過程	篩查 抽取3ml血液樣本並量度血液內IgE濃度	篩查 抽取2ml血液樣本並量度血液內IgG濃度	診斷性測試 把過敏原點於皮膚上，再以針刺穿皮膚，觀察皮膚的紅腫情況
檢測結果	3 - 5天	3 - 5天	15 - 20分鐘
風險	沒有風險	沒有風險	對極度過敏者有風險

香港過敏協會指出IgG血液測試缺乏健全的科學依據和有效性證據，不建議使用IgG測試食物過敏或不耐⁴。

IgE 敏速知 檢測項目

三個測試計劃涵蓋最常見外來的兩種外來過敏原：食物及環境³

食物過敏原

蛋白	花生	大豆	芝麻
小麥麵粉	豌豆	玉米	米
香蕉	蒜	洋蔥	α-乳白蛋白
β-乳球蛋白	酪蛋白	花蛤	榛子
牛肉	豬肉	雞肉	牛油果
鱈魚	蟹	蝦	番茄
檸檬	青檸	橙	橘
黃鰭吞拿魚	商業酵母	奇異果	芹菜

環境過敏原

歐洲塵蟎	美洲塵蟎	熱帶無爪蟎
貓皮屑	馬皮屑	狗皮屑
德國蟑螂	乳膠	矮豚草花粉
蒿花粉	牆草花粉	草地早熟禾花粉
燕麥花粉	小麥花粉	白蠟木花粉
狗牙根草花粉	雞腳草花粉	貓尾草花粉
烟曲霉	鏈格孢菌	黑麥花粉
樺樹花粉	橡樹花粉	柏樹花粉
合果芋花粉	白色念珠菌	榛樹花粉
橄欖花粉	長葉車前草花粉	

特異性過敏原

歐洲塵蟎	美洲塵蟎	貓皮屑	狗皮屑
蒿花粉	草本支孢霉	鴨茅花粉	草甸羊茅
黑麥草	貓尾草	草地早熟禾	絨毛草
烟曲霉	鏈格孢菌	黑麥花粉	樺樹花粉
榛樹花粉	蛋黃	蛋白	牛奶
花生	大豆	小麥	黑麥
大麥	燕麥	米	酪蛋白
α-乳白蛋白	β-乳球蛋白	朱古力	雞肉
鱈魚	番茄	檸檬	酸橙
橙	橘	胡蘿蔔	蘋果

*本篩檢檢測I型過敏反應，在臨床實踐中，還有II，III，IV型過敏反應或混合型過敏反應。

關於雅士能

雅士能基因科技有限公司自2014年成立，藉著不同的基因檢測、先進的實驗室設備、專業的化驗技術及人員，獲得大眾信任。未來雅士能將秉持嚴謹、誠懇的態度，專注提供高品質服務，同時透過基因科技及研發新技術，致力帶動更多更全面的分析和檢測，繼續守護大眾健康。

為家人健康做到足

雅士能提供不同的基因檢測服務，讓所有人士均能夠從初生到年老也可以為自己的健康作準備。孕婦可於懷孕時進行敏兒安safeT21express™，以了解胎兒健康。其後，可為懷疑有過敏癥狀的初生子女或家人進行 IgE敏速知- 免疫球蛋白E (IgE) 過敏篩檢，以預防過敏對健康的影響⁶。

愈早了解自己及家人的健康狀況，愈早可以作出適當的治療及關懷。

參考文獻：

1. Sánchez-Borges M, Martín BL, Muraro AM, et al. The importance of allergic disease in public health: an iCAALL statement. *World Allergy Organ J* 2018; 11(1): 8. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC540413-018-0187-2/#citeas>
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4. Lee TH, Wu YY, Chan KC et al. Immunoglobulin G testing in the diagnosis of food allergy and intolerance. *Hong Kong Medical Journal* 2017; 23: 419-420.
5. Eigenmann PA, Markovic MA, Hourihane JOB. Testing Children for Allergies: Why, How, Who and When: An Updated Statement of the European Academy of Allergy and Clinical Immunology (EAACI) Section on Pediatrics and the EAACI-Clemens Von Pirquet Foundation. *Pediatric Allergy and Immunology* 2013; 24(2): 195-209. <https://onlinelibrary.wiley.com/doi/10.1111/pai.12111>
6. Lau YL et al. 2009, 'Health Information', Metro Daily, 30 July, p. 31.



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IgE Allergy & Me

Learn 101 Allergens.
Prepare for Your Family's Health.

>30% of the world population suffers from Allergies

Allergies (also known as Allergic diseases) constitute a significant percentage of morbidity worldwide. with the prevalence still on the rise. According to the World Allergy Organization, over 30% of the world's population are affected by allergies¹. In Hong Kong, 1/5 person suffers from eczema caused by an allergic reaction².

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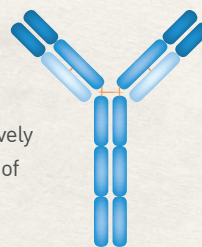
The prevalence still
on the rise

50 to 60
cases of children anaphylaxis
in Hong Kong each year

Top
Eight Food
Allergies
Dairy, Egg, Shellfish,
Fish, Tree Nuts, Soy,
Wheat, Peanuts

IgE (Immunoglobulin E) & Allergy

IgE is a type of antibody produced by our immune system. When a patient with an allergy has contact with a specific allergen (typically harmless substances), IgE is excessively produced. This results in the release of chemicals (e.g. histamine) into the bloodstream which then induces detrimental immune responses in the form of an allergic reaction.

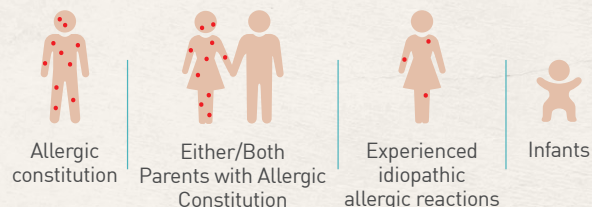


The allergic reaction can be mild to life threatening³ and varies within patients. The severity is mainly determined by the person and his/her response. A severe allergic reaction can develop within seconds after exposure to an allergen and may result in life-threatening consequences such as anaphylaxis or even death.



Who should consider 'our allergy test'?

Anyone can suffer from an allergic reaction, especially with the conditions below:



Allergy Test Comparison

Our Allergy Test adopts the latest Germany made medical equipment and reagents which are made from the factory that fulfils ISO 13485.

	IgE 敏速知	IgG Blood Test	Skin Prick Test
Test Type	Screening Test	Screening Test	Diagnostic Test
Sample Type and Process	3ml blood to measure the amount of IgE in blood	2ml blood to measure the amount of IgG in blood	A microscopic amount of an allergen is introduced to the skin of the patient. Any allergic reactions such as redness and swelling will be observed within a time limit.
Turnaround Time	3 - 5 Days	3 - 5 Days	15-20 mins
Risk	No	No	Patients may encounter severe allergic reaction due to the exposure to allergens

The Hong Kong Allergy Association indicates IgG blood testing lacks both sound scientific rationale and evidence of effectiveness. Measurement of food-specific IgG concentrations to diagnose food allergies and intolerance are not recommended.⁴

IgE

Allergy & Me Panel Testing Items

Three panels included two most common external allergens: foods and environment³

Food allergens

Egg white, Peanut, Soybean, Sesame, Wheat flour, Pea, Corn, Rice, Banana, Garlic, Onion, Alpha lactalbumin, Beta lactoglobulin, Casein, Clam Shell, Hazelnut, Beef, Pork, Chicken meat, Cod fish, Crab, Shrimp, Tomato, Lemon, Lime, Orange, Mandarin, Yellowfin Tuna, Baker's yeast, Kiwi, Celery

Inhale allergens

Derm. pteronyssinus, Derm. faromae, Blomia tropicalis, Cat epithelia, Horse epithelia, Dog epithelia, German Cockroach, Latex, Ragweed pollen, Mugwort pollen, Wall Pellitory pollen, Kentucky Blue Grass pollen, Cultivated Oat pollen, Cultivated Wheat pollen, White Ash pollen, Bermuda grass pollen, Cocksfoot pollen, Timothy grass pollen, Aspergillus fumigatus, Alternaria alternata, Rye pollen, Birch pollen, White oak pollen, Cypress pollen, Goosefoot pollen, Candida albicans, Hazel pollen, Olive pollen, Plantain pollen

Atopic allergens

Derm. pteronyssinus, Derm. faromae, Cat epithelia, Dog epithelia, Mugwort pollen, Cladosporium herbarum, Pollen of Cocksfoot, Meadow Fescue, Rye Grass, Timothy Grass, Kentucky Blue Grass, Velvet Grass, Aspergillus fumigatus, Alternaria alternata, Rye pollen, Birch pollen, Hazel pollen, Egg yolk, Egg white, Cow's Milk, Peanut, Soybean, Wheat, Rye, Barley & Oat, Rice, Alpha lactalbumin, Beta lactoglobulin, Casein, Cacao (Chocolate), Chicken meat, Cod fish, Tomato, Lemon, Lime, Orange, Mandarin, Carrot, Apple

*This allergy test detects Type I hypersensitivity, there are Type II, Type III, Type IV hypersensitivity or mixed hypersensitivity in practice.



About Xcelom

Founded in 2014, Xcelom has gained extensive support from the public for the services offered by our team of experts and state of the art laboratory. Xcelom will strive to improve and expand the spectrum of services offered, to continue to provide well-rounded care for our client's health.

Be Prepared for You and Your Family's Health

At our company, we have different genetic tests to meet your various needs. We take care of your needs throughout your journey of life. Pregnant women could consider safeT21express™ to ensure a healthy pregnancy as well as the wellbeing of your child. IGE Allergy & Me is suitable for anyone who is suspected to have an allergy and to reduce the incidence of any allergic reactions.⁵

Identify the true triggers as early as possible, to prevent the harms from affecting your family.

Reference:

- Sánchez-Borges M, Martín BL, Muraro AM, et al. The importance of allergic disease in public health: an iCAALL statement. *World Allergy Organ J* 2018; 11(1): 8. <https://waojournal.biomedcentral.com/articles/10.1186/s40413-018-0187-2#citeas>
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