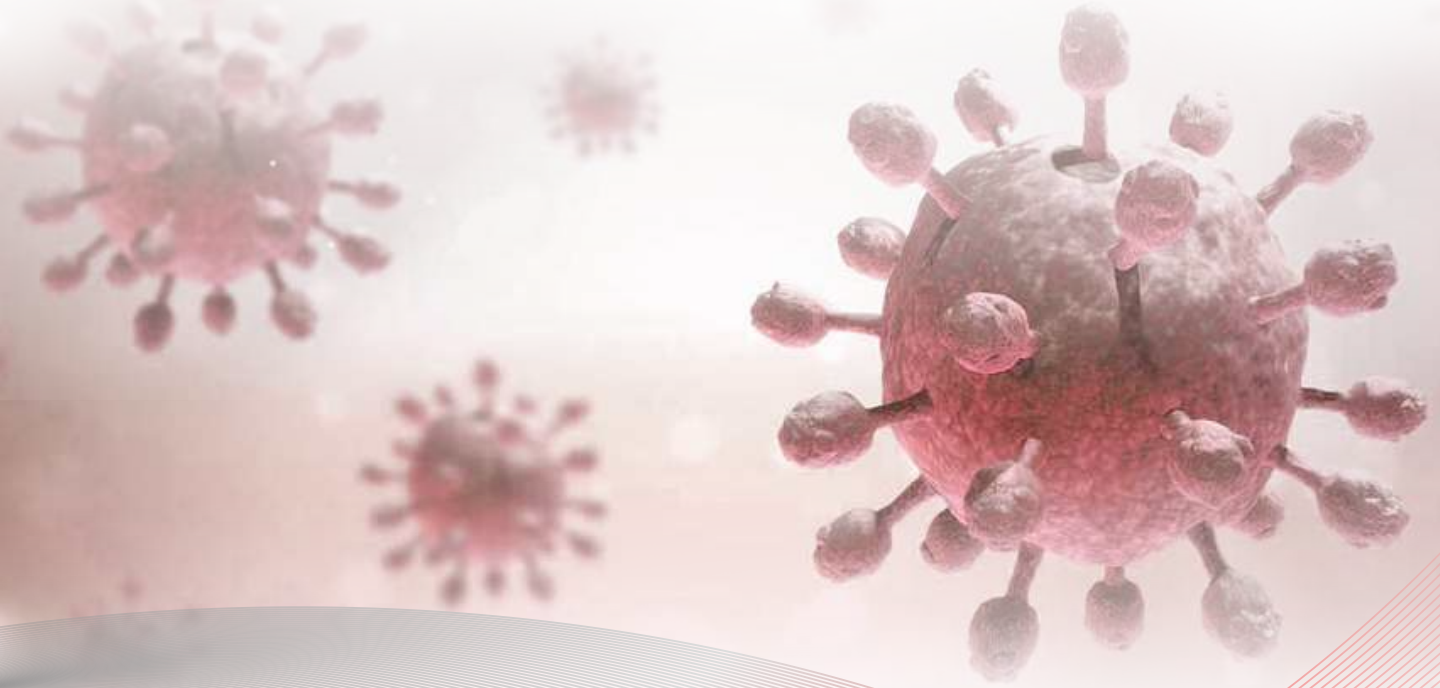


# Lifotronic

— Caring for Better Life —

(SSE: 688389)



## FLUORESCENCE IMMUNOASSAY (FIA)—BASED **COVID-19** OVERALL SOLUTIONS

- Antibody: IgG, IgM, Neutralizing Ab
- Coagulation Marker: D-dimer
- Cardiac Marker: cTnI, NT-proBNP
- Inflammation Marker: CRP, hs-CRP, PCT
- Thyroid Function: TSH, T3, T4

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## Rapid Timely Simple Accurate

- Methodology: FIA (Fluorescence Immunoassay)
- Rapid: 3~15min
- Reliable and Stable: CV≤5%
- Sensitive and Accurate
- Small: Suitable for areas with limited spaces

### ● Assay specifications

Classification	Detection items	Sample Type	Packing Specification	Reaction Time
SARS-COV-2	SARS-CoV-2 IgM	Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	SARS-CoV-2 IgG	Whole Blood	10T / 25T / 50T / 100T	15 minutes
	SARS-CoV-2 NAb	Serum	25T	15 minutes
Cardiovascular	NT-proBNP	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	cTnI	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	D-dimer	Plasma	10T / 25T / 50T / 100T	10 minutes
Inflammation	PCT	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	CRP	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	3 minutes
	hs-CRP	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	3 minutes
Thyroid	TSH	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	T3	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes
	T4	Whole Blood / Serum / Plasma	10T / 25T / 50T / 100T	15 minutes

# Antibody

## IgG & IgM

- The "golden standard" for the auxiliary diagnosis of suspected COVID-19 patients; which can effectively avoid missed diagnosis caused by false negative results of nucleic acid tests.
- Evaluate the course of disease and predict the prognosis according to the content of IgG and IgM.

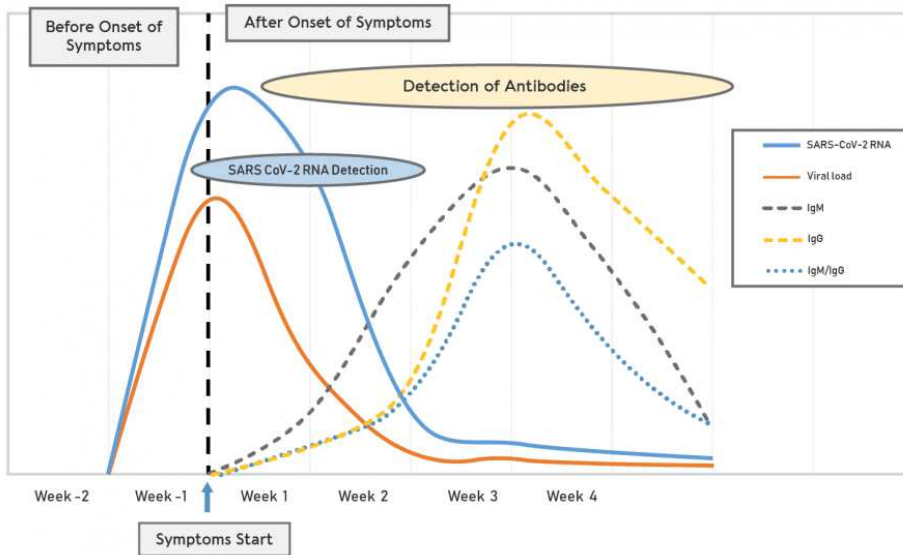
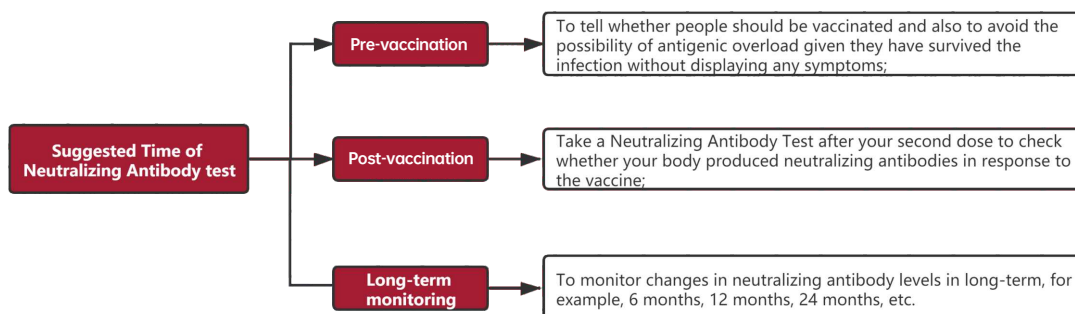


Fig 1 Antibody response due to overlapping periods of active infection<sup>[1]</sup>

## Neutralizing Antibody

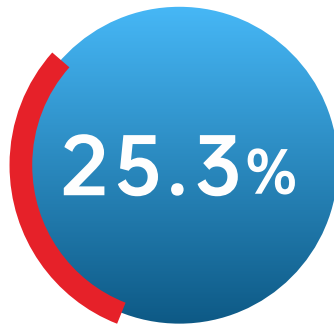
- The tools for people to understand their level of immunity against SARS-CoV-2 virus.
- Long-term evaluation of vaccine effect post vaccination.



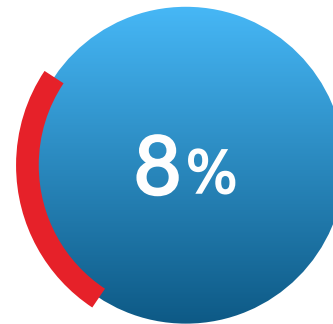
# Coagulation Marker

## D-dimer

- Efficient and reliable early predictor of COVID-19 associated mortality.
- An early and helpful marker to evaluate the prognosis of patients.
- Guide the anticoagulant therapy in the treatment of COVID-19 patients.



of patients had D-dimer levels higher than 500ng/mL for up to 4 months after diagnosis <sup>[2]</sup>



of patients assessed during the recovery phase had D-dimer levels more than twice the upper limit of normal

# Cardiac Marker

## cTnl, NT-proBNP

- Used as an indication of direct myocardial injury, which is associated with disease severity of COVID-19 patients.
- Early recognition of myocardial injury indicated by elevated cardiac marker aids in appropriate triage to a critical care area and informs the use of corresponding treatment.
- Associated with mortality after adjusting for relevant confounders, including chronic HF and acute HF.

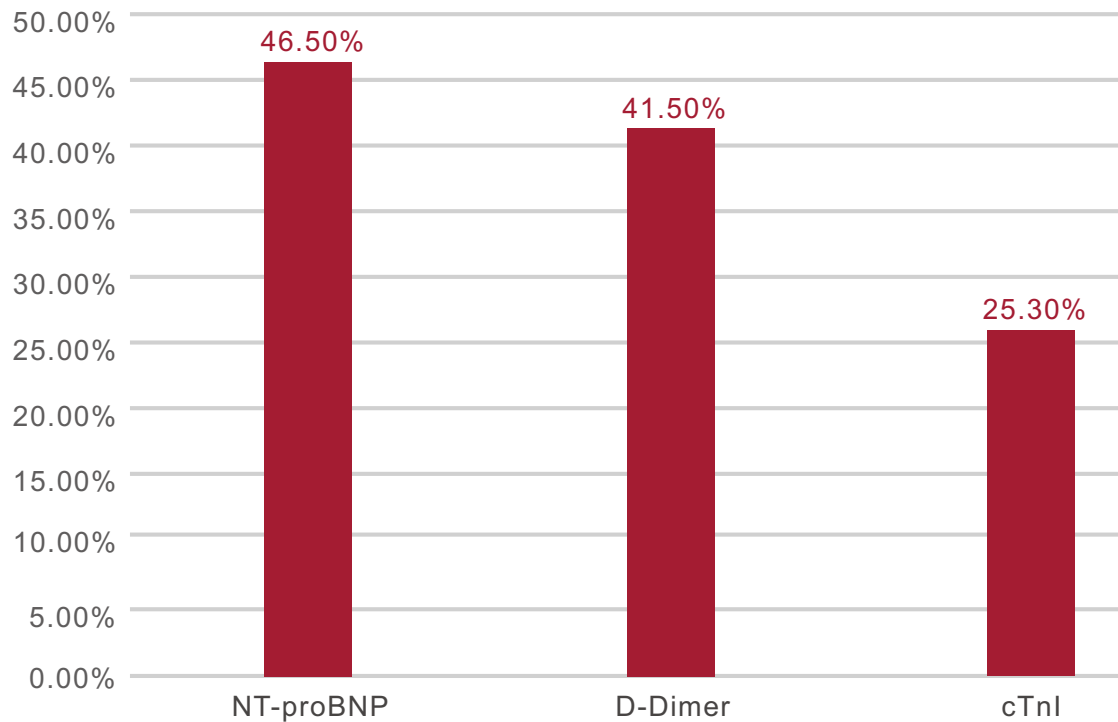


Fig 2 Pooled frequency of elevated coagulation and cardiac biomarkers<sup>[3]</sup>

## Inflammatory Marker

### PCT, CRP, hs-CRP

- Measurement of inflammatory markers assists to monitor the severity of COVID-19.
- Monitoring the inflammatory markers of COVID-19 is imperative to reduce the poor outcome.
- The IFCC identifies PCT on the Recommended Test List for potential clinical and biological significance in recognizing bacterial (super) infection.
- High levels of inflammatory markers, suggesting potential immune dysregulation.

# Thyroid Function

## TSH, T3, T4

- Used as an indication of hyperthyroidism or thyroiditis, which are common in patients with COVID-19.
- Changes in serum TSH and TT3 levels may be important manifestations of the courses of COVID-19 pneumonia.
- Used as prognostic indicators for patients hospitalized for COVID-19.

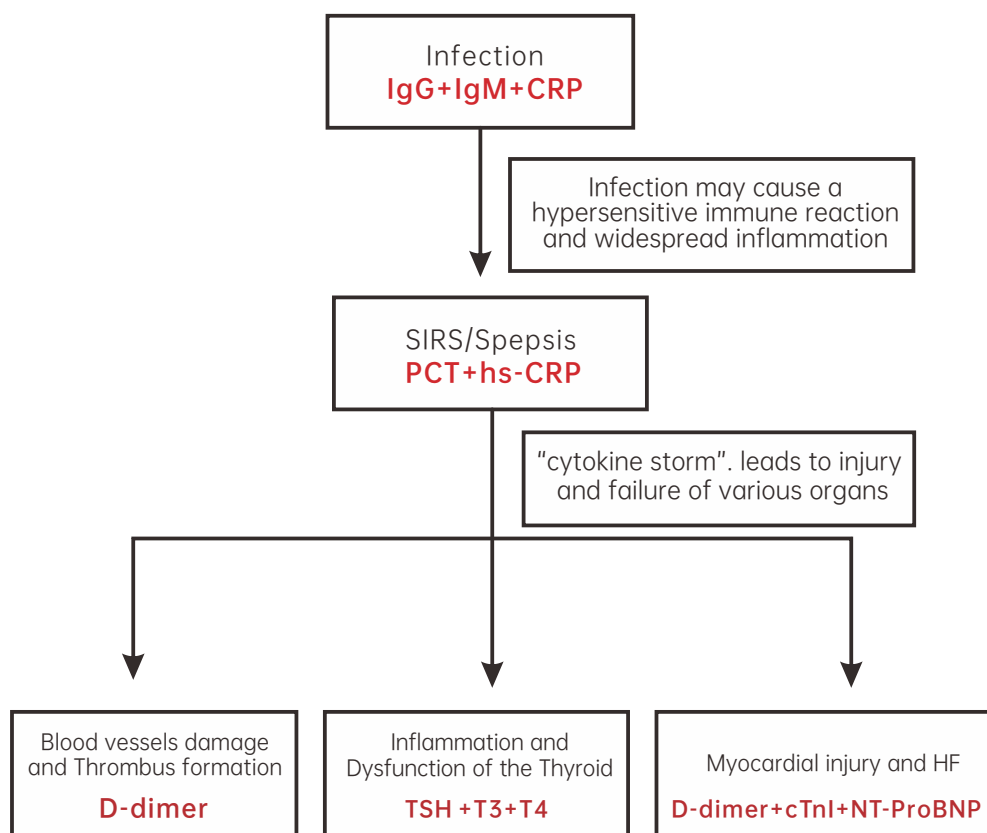


Fig 3 Course of disease<sup>[4]</sup>

## Reference:

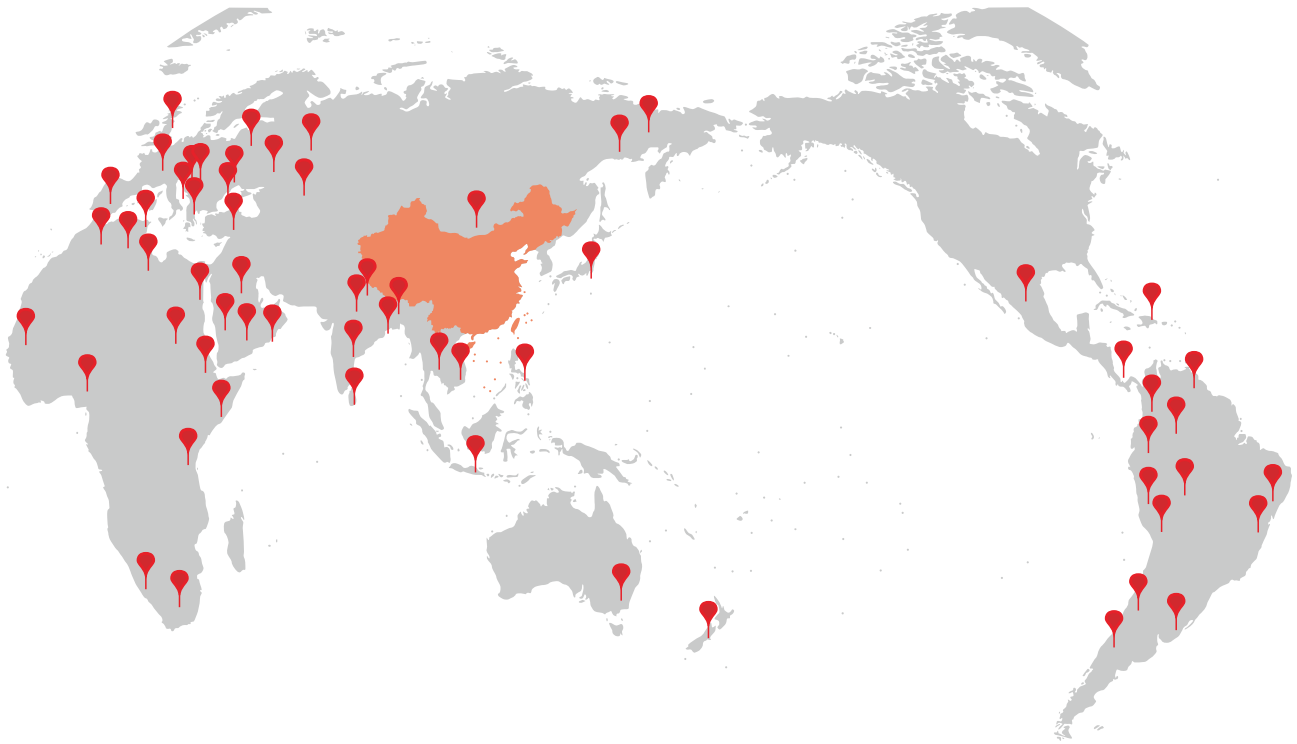
- [1] igenex-COVID-19-testing.
- [2] Doi:10.1111 / jth.15267.
- [3] Momtazmanesh, S., Shobeiri, P., Hanaei, S. et al. Cardiovascular disease in COVID-19: a systematic review and meta-analysis of 10,898 patients and proposal of a triage risk stratification tool. Egypt Heart J 72, 41 (2020).
- [4] Doi: 10.1530 / EJE-20-0335.PMID: 32698147.

# Lifotronic

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NMPA



## Our Vision

- To be a globally admired healthcare solution provider across life span

## Our Mission

- To deliver better products and services of outstanding value for human life
- To create value for employees, shareholders and society

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