

FREND™ System

Vitamin D & COVID-19 IgG/IgM Duo

Microfluidic Qualitative Immunoassay

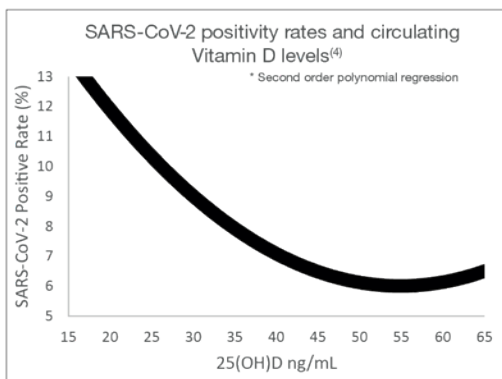


Numerous studies discuss the relationship between SARS-CoV-2 positivity rates and vitamin D. Many studies suggest that patients with deficient 25(OH)D (< 20 ng/mL) show higher positivity rates!

***With the FREND™ System
You can test both in 18 minutes!***

RESEARCH of Vitamin D for COVID-19

- "People admitted to hospitals with COVID-19 should have their vitamin D status checked and/or supplemented and" ROYAL SOCIETY OPEN SCIENCE ⁽¹⁾
- "There is a chance that their implementation might also reduce the impact of COVID-19 in populations where vitamin D deficiency is prevalent" THE LANCET ⁽²⁾
- At Northwestern University, researchers used modeling to estimate that 17% of those deficient in vitamin D would develop a severe COVID-19 infection, but only about 14% of those with healthy vitamin D levels. medRxiv ⁽³⁾

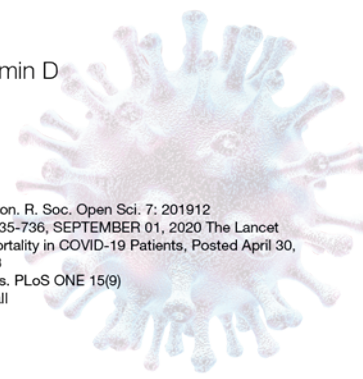


SARS-CoV-2 positivity is strongly and inversely associated with circulating 25(OH)D levels,

a relationship that persists across latitudes, races/ethnicities, both sexes, and age ranges. Our findings provide impetus to explore the role of vitamin D supplementation in reducing the risk for SARS-CoV-2 infection and COVID-19 disease.

Reference

- (1) 2020 Vitamin D and COVID-19: evidence and recommendations for supplementation. R. Soc. Open Sci. 7: 201912
- (2) Vitamin D for COVID-19: a case to answer? COMMENT] VOLUME 8, ISSUE 9, P735-736, SEPTEMBER 01, 2020 The Lancet
- (3) The Possible Role of Vitamin D in Suppressing Cytokine Storm and Associated Mortality in COVID-19 Patients, Posted April 30, 2020. medRxiv <https://www.medrxiv.org/content/10.1101/2020.04.08.20058578v3>
- (4) SARS-CoV-2 positivity rates associated with circulating 25-hydroxyvitamin D levels. PLoS ONE 15(9)
- (5) Division of Laboratory Systems (DLS), Clinical Laboratory COVID-19 Response Call



LIS Compatible

The FREND system is compatible with virtually all LIS systems allowing for tracking of your patient's **Vitamin D level** and **SARS-CoV-2 positivity rates!**



Laboratory Information System Connectivity

In the event of a pandemic, the management of a vast amount of clinical results is important. However, many laboratories face the challenge in arranging the essential information effectively⁽⁵⁾.

- Paperless
- Time-saving
- Automatic Data Transfer & Collection
- Convenient Data Management
- Can help monitoring (serosurveillance)

Specification

FREND™ Vitamin D

| | |
|------------------------------|----------------------|
| Analytical measurement range | 10 ~ 110 ng/mL |
| Sample type | Plasma or Serum |
| Sample volume | 35 µL |
| Limit of detection | 10 ng/mL |
| Reaction time | < 3 min. |
| Pretreatment method | AP (15 min.) |
| Quantity | 20 tests/kit |
| Storage condition | 2 ~ 8 °C (35~ 46 °F) |

FREND™ COVID-19 IgG/IgM Duo

| | |
|-------------------|----------------------|
| Sample type | Serum or Plasma |
| Sample volume | 35 µL |
| Reaction time | < 3 min. |
| Quantity | 20 tests/kit |
| Storage condition | 2 ~ 8 °C (35~ 46 °F) |

Ordering Information

| Product | Cat. No. |
|-----------------------------|------------|
| FREND™ System | F10 |
| FREND™ AP | F10-AP |
| FREND™ Vitamin D | FRVDAP 020 |
| FREND™ COVID-19 IgG/IgM Duo | FRCOD 020 |



Find out how you may receive a NO-COST System

Contact your medical supply distributor for details

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