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*Retrospective Study*

**Clinical application of combined detection of SARS-CoV-2-specific antibody and nucleic acid**

Qing-Bin Meng, Jing-Jing Peng, Xin Wei, Jia-Yao Yang, Peng-Cheng Li, Zi-Wei Qu, Yong-Fen Xiong, Guang-Jiang Wu, Zhi-Min Hu, Jian-Chun Yu, Wen Su

**Abstract**

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## Overview of Testing for SARS-CoV-2 | CDC

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/testing-overview.html> ▼

Feb 11, 2020 · Authorized assays for viral testing include those that detect SARS-CoV-2 **nucleic acid** or antigen. Viral (**nucleic acid** or antigen) tests check samples from the respiratory system (such as nasal swabs) and determine whether an infection with SARS-CoV-2, the virus that causes COVID-19, is present.

## Detection of SARS-CoV-2-Specific Humoral and Cellular ...

<https://www.sciencedirect.com/science/article/pii/S1074761320301813>

A case report recently published showed the kinetics of T cell subpopulations (T FH, CD4 and CD8) and **SARS-CoV-2-specific antibody** responses in one COVID-19 patient (Thevarajan et al., 2020). One COVID-19 patient in Finland was shown to possess a low level of neutralizing **antibody** titer ( Haveri et al., 2020 ).

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**Publish Year:** 2020

## SARS-CoV-2 proteome microarray for global profiling of ...

<https://www.nature.com/articles/s41467-020-17488-8>

Jul 14, 2020 · Fig. 3: The overall **SARS-CoV-2-specific** IgG profiles of the 29 convalescent sera against the proteins. Each square indicates the IgG **antibody** response against the protein (row) in the serum (column).

## Development and clinical application of a rapid IgM-IgG ...

<https://onlinelibrary.wiley.com/doi/10.1002/jmv.25727>

We believe the **combination** of nucleic acid RT-PCR and the IgM-IgG **antibody test** can provide more accurate **SARS-CoV-2 infection diagnosis**. 5 CONCLUSION We developed a **rapid SARS-CoV-2 IgG-IgM combined antibody test** using lateral flow immune assay techniques.

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Clinical application of combined detection of SARS-CoV-2-specific antibody



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## Characteristics and roles of SARS-CoV-2 specific ...

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Detection of **SARS-CoV-2-specific combined IgA-IgG** antibodies is advantageous in **diagnosing COVID-19**. **IgA detection** is suitable during early and late stages of the disease. IgA and IgG levels correspond to disease severity. Characteristics and roles of **SARS-CoV-2** specific antibodies in patients with different severities of COVID-19

**Author:** Zhifeng Huang, Hao Chen, Mingshan ... **Publish Year:** 2020

## Detection of SARS-CoV-2-Specific Humoral and Cellular ...

<https://www.sciencedirect.com/science/article/pii/S1074761320301813>

Jun 16, 2020 · A case report recently published showed the kinetics of T cell subpopulations (T FH, CD4 and CD8) and **SARS-CoV-2-specific antibody** responses in one COVID-19 patient (Thevarajan et al., 2020). One COVID-19 patient in Finland was shown to possess a low level of neutralizing **antibody** titer ( Haveri et al., 2020 ).

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**Author:** Zhifeng Huang, Hao Chen, Mingshan ... **Publish Year:** 2020

## [Interim Guidance for Rapid Antigen Testing for SARS-CoV-2](#)

<https://www.cdc.gov/coronavirus/2019-ncov/lab/...> ▾

Aug 16, 2020 - The "gold standard" for **clinical** diagnostic **detection** of SARS-CoV-2 remains RT-PCR. Thus, it may be necessary to confirm a rapid antigen test result with a **nucleic acid** test, especially if the result of the antigen test is inconsistent with the **clinical** context.

## [Development and clinical application of a rapid IgM-IgG ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32104917>

Although the virus (**severe acute respiratory syndrome coronavirus [SARS-Cov-2]**) nucleic acid real-time polymerase chain reaction (PCR) test has become the standard method for d ... **Development** and **clinical application** of a rapid **IgM-IgG combined antibody test** for SARS-CoV-2 infection diagnosis

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3.2 The **detection** sensitivity and specificity of SARS-CoV-2 IgG-IgM **combined antibody** kit. To test the **detection** sensitivity and specificity of SARS-CoV-2 IgG-IgM **combined antibody** test, blood samples were collected from COVID-19 patients from multiple hospitals and Chinese CDC laboratories. The tests were done separately at each ...

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