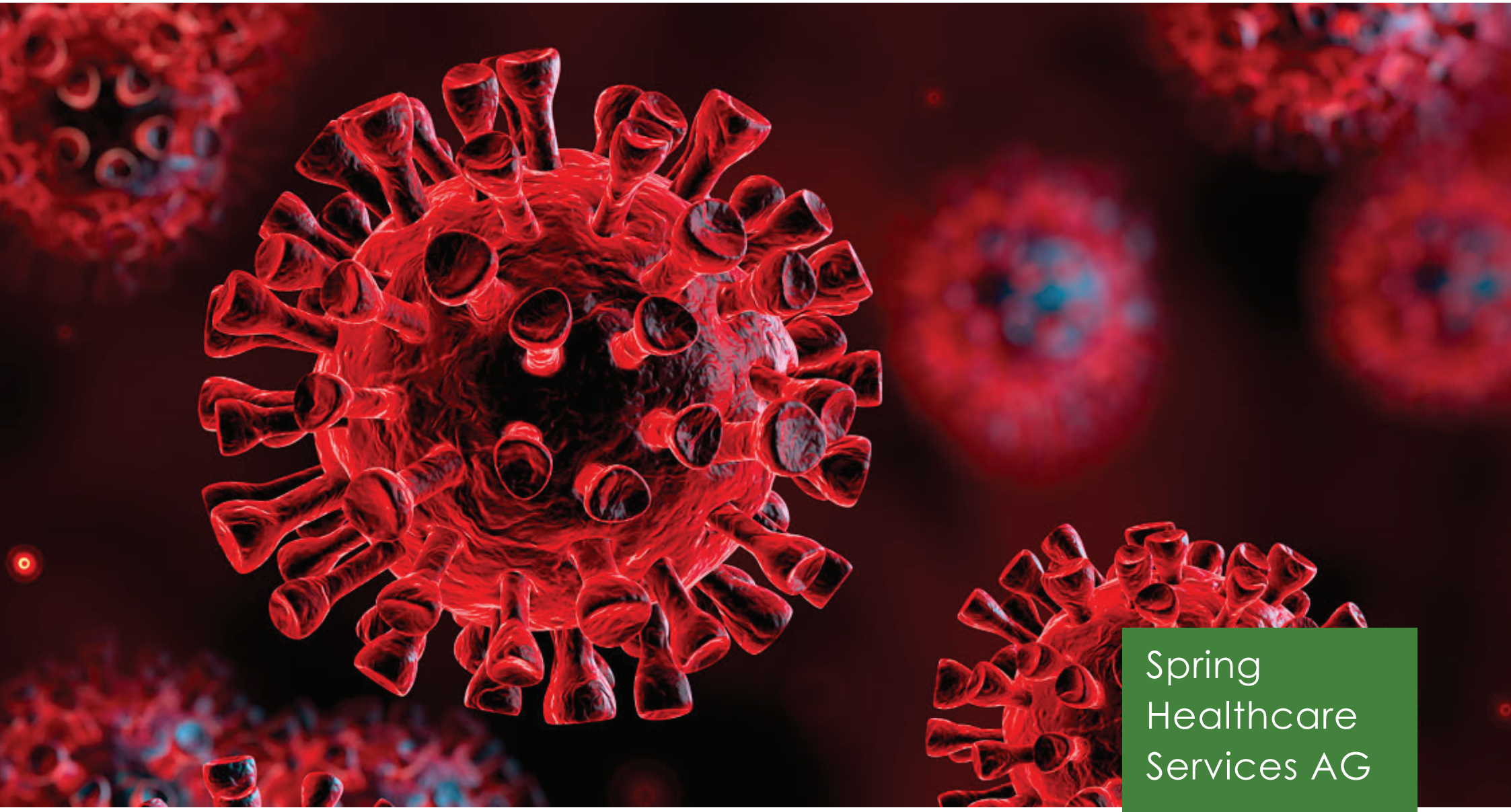

SPRING
HEALTHCARE
COVID-19
Rapid IgG/IgM Combined Antibody
Pre-Screening Kit
10 Minutes
Detection Period
ALCOHOL
SWAB
70% Isopropyl Alcoh
Single Use Only
COVID 19
ANTIGEN
S
IgM
IgG
C
COVID - 19

COVID-19 RAPID SCREENING - EMERGENCY RESPONSE TEST KIT



Spring Healthcare Services AG

10 MINUTES
DETECTION TIME

- Just one finger prick of blood

ONLY €X

- **Customs**
- **Insurance**
- **Shipping**
- **Freight Excluded**

Only Port Delivery if Turnkey preferred

CURRENT METHOD

Citizen
with symptoms

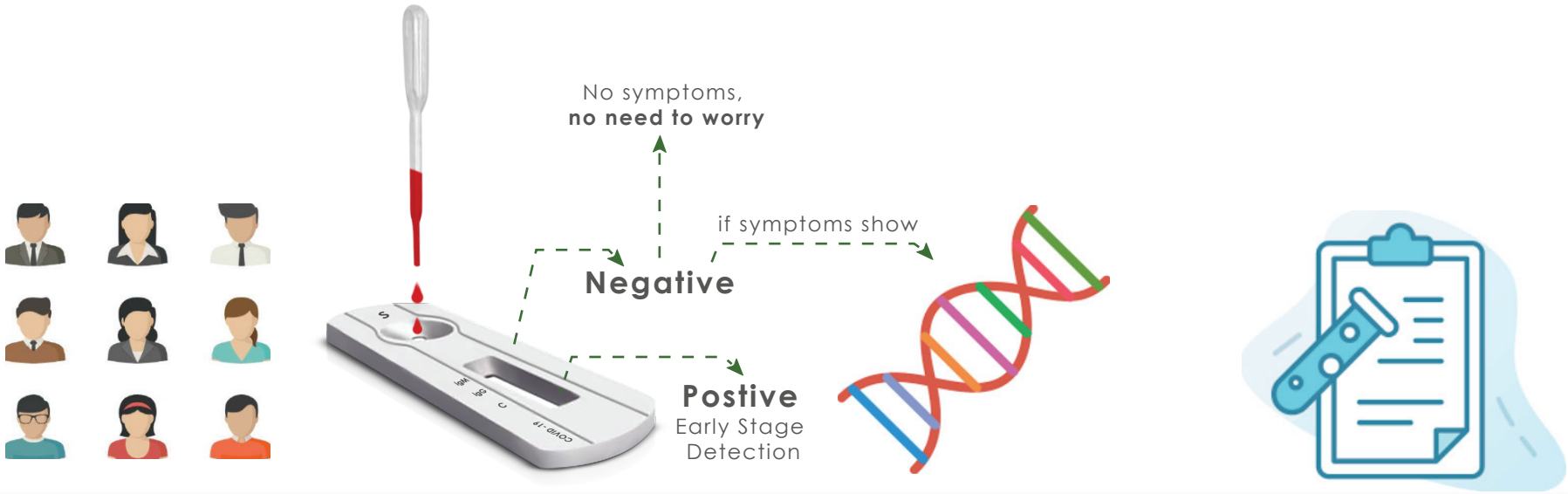
Consulates their
GP for advise

Lab test
conducted

Results
Positive or Negative

WHO urges world to **"test, test, test"** *for COVID-19*

PRE-SCREENING



Concerned **Citizen** > Self-conducted **Pre-screen test** > **Lab test** conducted > **Final Results** Positive or Negative

CE European CE certified

BENEFITS

of pre-screening

- Exponentially **faster**
- **No** Queues, **No** Wait time for results
- Exponentially more **cost effective**
- Early **Detection** & **Elimination**
- Effort less, and **accessible** to everyone nationwide, instantly
- Viable **precautionary** step

HOW IT WORKS?

Detection Period

10 MINUTES

- **Easy operation** without requirement of any Doctor or Professional Nurse
- No special equipment storage and transportation conditions required
- Works with whole blood, serum, and plasma
- **Tests for 2 antibodies** IgM and IgG simultaneously
- **Instant Field screening**

98 %+ACCURACY

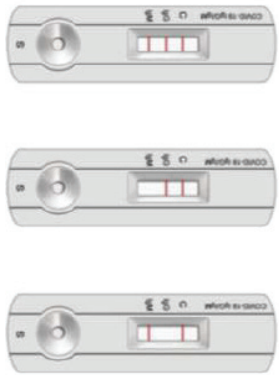
Step.1
Drop of whole blood

Step.2
Drop of buffer

Step.3
Wait for result

INVALID

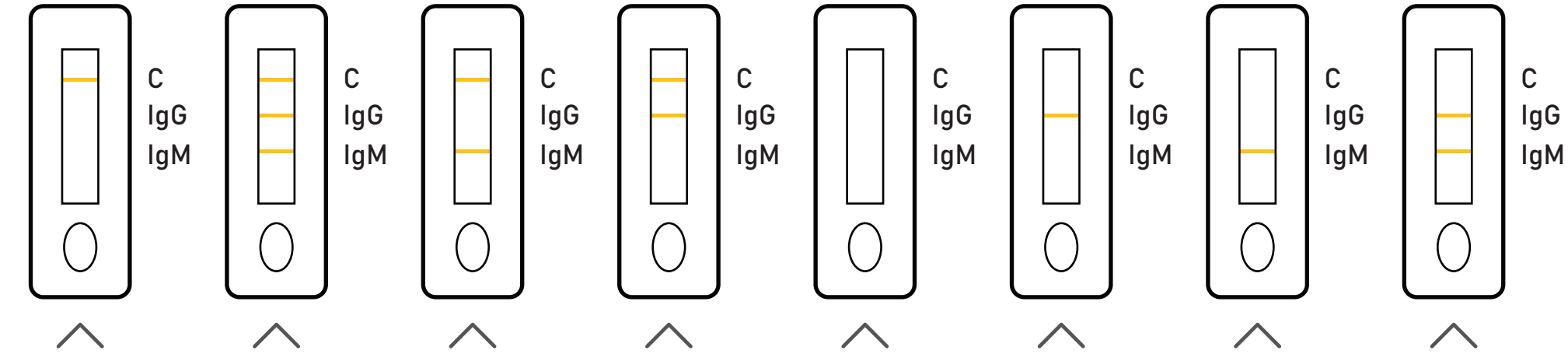
POSTIIVE



NEGATIVE

European CE certified

HOW IT WORKS?



Results	Interpretation
IgM+VE, IgG+VE	Suspected recent infection of 2019-nCov
IgM+VE, IgG-VE	Suspected recent infection of 2019-nCov
IgM-VE, IgG+VE	Patient Suspected to have past infection
IgM-VE, IgG-VE	Antibody for COVD-19 Virus undetected OR loW IgG/IgM level below limit of detection

TECHNICAL REVIEW

2019-nCOV IVD Solution

	Fluorescence PCR	CLIA	Colloidal Gold Method (our method)
Detection substance	Nucleic acid	Antibody	Antibody
Type of sample	Nasopharyngeal swabs, sputum, alveolar lavage fluid	Serum/ Plasma	Serum/ Plasma / Whole blood
Time to get result	2 hrs	20 min	**Fastest 10 minutes**
Instrument needed or not	Yes	Yes i 3000, i 1000	**Not needed**
Laboratory requirement	High	Relatively high	Average
Product usage	Confirming diagnosis	Nucleic acid negative sample reviewing or high-volume sample detection	Nucleic acid negative sample reviewing or basic hospital sample testing

Colloidal Gold Method: The 2019-nCOV IgG/IgM Rapid Test Device using this Method is a rapid chromatographic immunoassay for the qualitative detection of IgG & IgM antibody of Coronavirus in human whole blood, serum, or plasma

Clinical Report Summary

2019-nCOV IgG/IgM Rapid Test Device

RT-PCR Vs SARS-CoV-2 IgM Ab Rapid Test

Comparative Test Summary

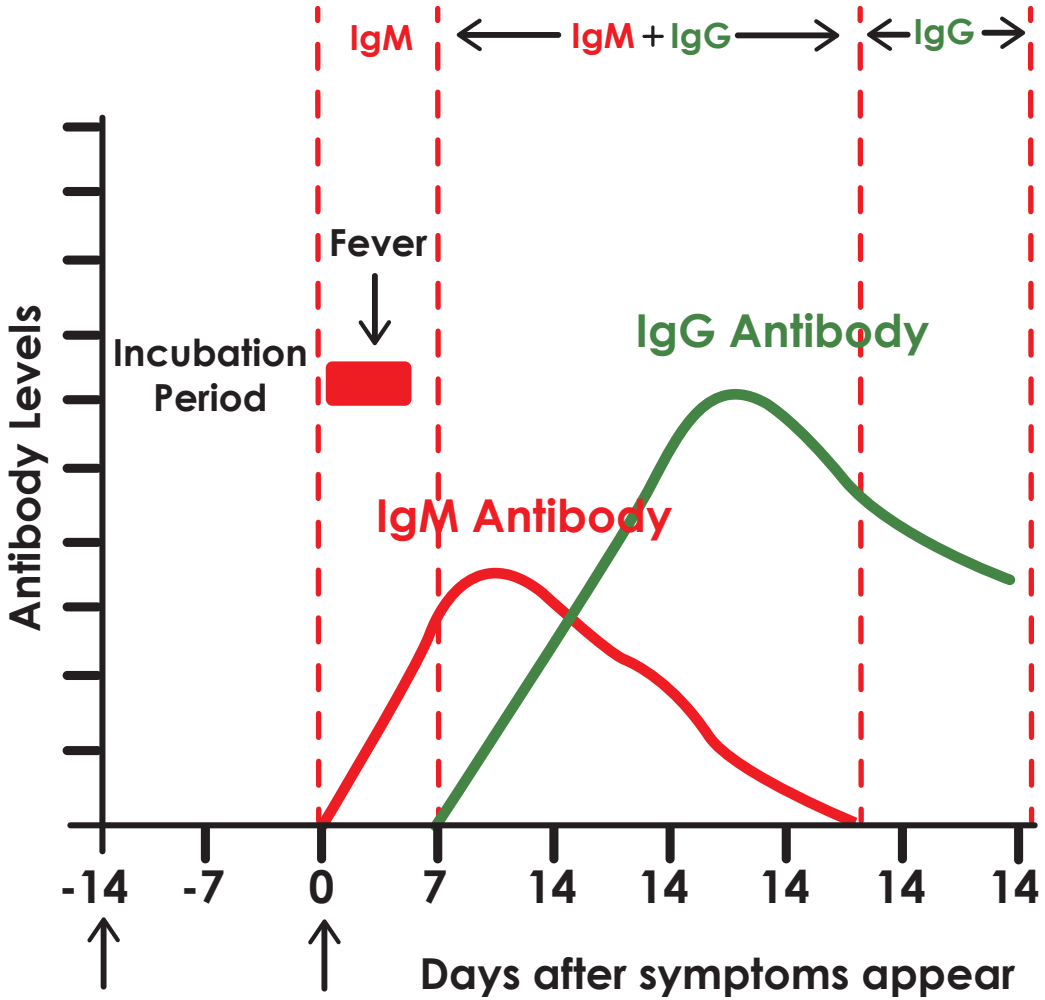
In this trial, 1300 clinical samples were selected. There were 300 positive samples and 1000 negative samples.

The SARS-CoV-2 IgM Ab rapid test and the SARS-CoV-2 RT-PCR test were detected simultaneously and the Sensitivity (positive coincidence rate), Specificity (negative coincidence rate), and Accuracy (total coincidence rate) were calculated:

Antibody	Sensitivity	Specifity	Accuracy
IgG	93%	97.5%	96.5%
IgM	92%	96%	95.8%

DIAGNOSTIC
PROCESS

It is widely accepted that IgM provides the first line of defence during viral infections, followed by the generation of adaptive, high affinity IgG responses for long term immunity and immunological memory. Therefore testing of COVID-19 IgM and IgG antibodies is an effective method for the rapid diagnosis of COVID-19 infection. Furthermore, detection of COVID-19 IgM antibodies tends to indicate a recent exposure to COVID-19, whereas detection of COVID-19 IgG antibodies indicates a later stage of infection. Thus, this combined antibody test could also provide information on the stage of infection.

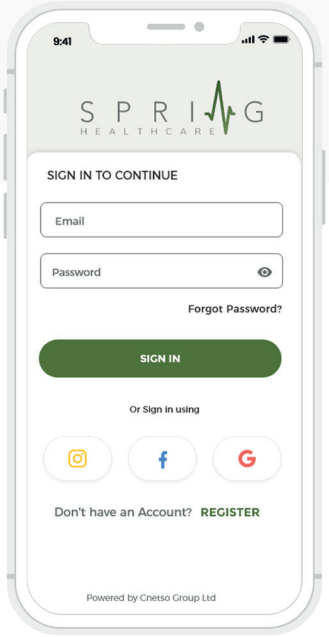


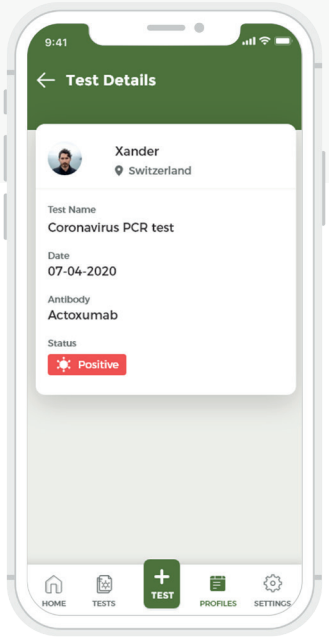
SPRING HEALTH DIAGNOSTIC APPLICATION

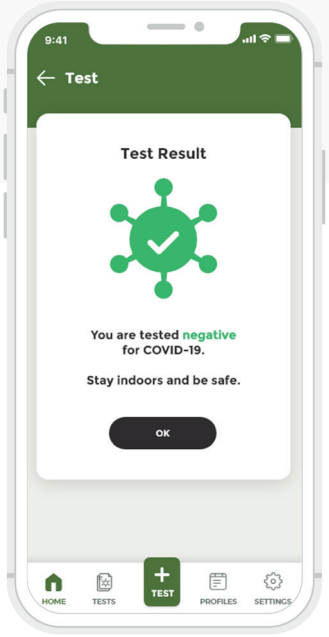
Spring Health has developed a disruptive mobile solution to capture diagnostic immediately and for analytics. The globally scalable end-to end solution has proven to be a powerful product and service.

Spring Health Infectious Diseases Reader is a solution for healthcare professionals in Point of Care diagnostics for COVID-19. The Spring Health solution consists of a smartphone mobile reader application and a backend solution.

The smart phone mobile reader application is used to digitize and analyse lateral flow tests, while the backend solution provides analysis, support and dynamic configuration for the supported lateral flow tests. With very minimal instructions even to untrained staff, the solution can be deployed to capture digitized diagnostic data. The data can be verified and analysed in 3 simple steps:







User downloads the application to a smartphone and takes a rapid diagnostic test

User scans the test using the application. Scan result is instantly analysed.

IDA application sends the test result to the IDA Secure Cloud for instant feedback.

BENEFITS

- Immediate diagnostics without costly hardware setups – only a smartphone is necessary
- Web applications in the Secure Cloud ensure real-time medical guidance back to the mobile application user
- No attachments – no additional hardware – no additional trainings or wires are required
- Seamless data management integration into client / stakeholder information systems
- Disease surveillance and real time epidemic alerts via interactive mapping
- Lateral flow test quality control and quality assurance