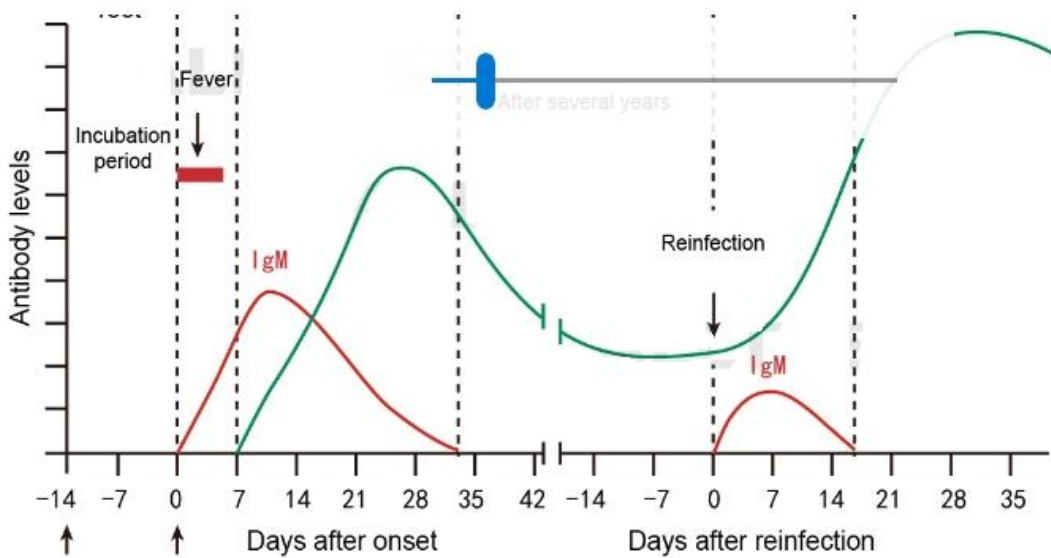


SARC-COV-2 Antigen and IgG/IgM antibody test result report.

1. Window period is the time period required for antibodies to come to detectable level. It is about 2-14 days and 7 days in average.
2. During Window period, the test line can be absent or can be barely visible (weak signal)
3. Our Test protocol says that any line (Including weak line) is a positive result.
4. This is due to the fact that on color gradient, it is difficult to mark a definite digitized point. So there would always be overlaps. If the test line is expected to appear strong, it would mean that the color gradient needs to be calibrated to such a scale that some negative cases would also turn out to be positive causing false results. Therefore, color gradient has to be maintained at such a point that only presence of antibodies above threshold levels are detected to minimize false positive results.
5. Therefore, even weak signals are just considered positive, as mentioned on package insert.
6. It is a common phenomenon during "seroconversion phase" that a test returns positive results later than some other test or test method. It has been widely studied in case of HIV. However, since COVID-19 is new, there are some studies, but still need to have more studies to reach a conclusive level.
7. In case 7 cases are supposedly positive, they seem to be from early seroconversion, where there IgM antibody titers have not reached the desired levels for detection. In general, it is suggested to retest them in 7 days time, the results would be positive.



SARS-COV-2 Antigen and IgG/IgM Antibody Test Results & Clinic Significance

Test Results			Significance
PCR (Ag test)	IgM Ab	IgG Ab	
+	-	-	Patients may be in the "window period" of SARS-COV-2 infection.
+	+	-	Patient may be in the early stage of infection, and the body's immune response first produced the antibody IgM, but no IgG was produced or the IgG content did not reach the detection limit of the diagnostic reagent.
+	-	+	Patients may be in late or recurrent stage of infection.
+	+	+	Patient is in the active phase of infection, but the human body has developed some immunity to SARS-COV-2 (the persistent antibody IgG has been produced).
-	+	-	Patient may be in the acute phase of SARS-COV-2 infection. At this time, nucleic acid test results need to be considered (PCR may be false negative).
-	-	+	Patient may have been infected with SARS-COV-2 in the past, but the patient has been recovered or the virus in body has been cleared.
-	+	+	Patient has recently been infected with SARS-COV-2 and is in the recovery stage. Or the nucleic acid test result is false negative and the patient is in the active infection stage.