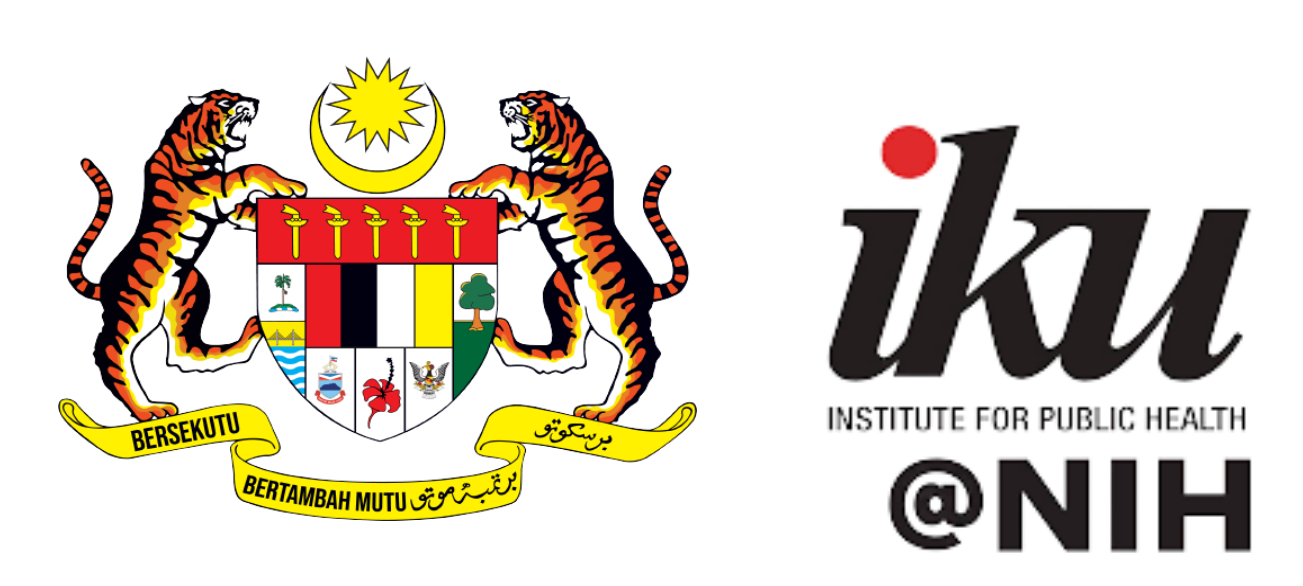


Diagnostic Accuracy of Rapid SARS-CoV-2 PCR compared to Reverse Transcription Polymerase Chain Reaction RT-PCR



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INTRODUCTION

Malaysia had reached five million COVID-19 cases as of May 2023. Perak alone recorded 238,369 cases with 2,141 deaths. Due to the capability of producing results within 1-2 hours, rapid SARS-CoV-2 PCR (rapid PCR) is used to hasten case detection, hence improving the diagnosis and management of COVID-19 patients.

METHOD

112,442

*cases in Perak were reported through SIMKA (Jan-Dec 2021)

801

cases requested for rapid PCR

130

cases requested for rapid PCR paired with RT-PCR (excluding inconclusive result)

90

final cases selected for data analysis

* the case selection was made regardless of the purpose of testing; critically ill patients, urgent transplant cases, brought-in-dead (BID) patients, or others upon consultation.

CONCLUSION

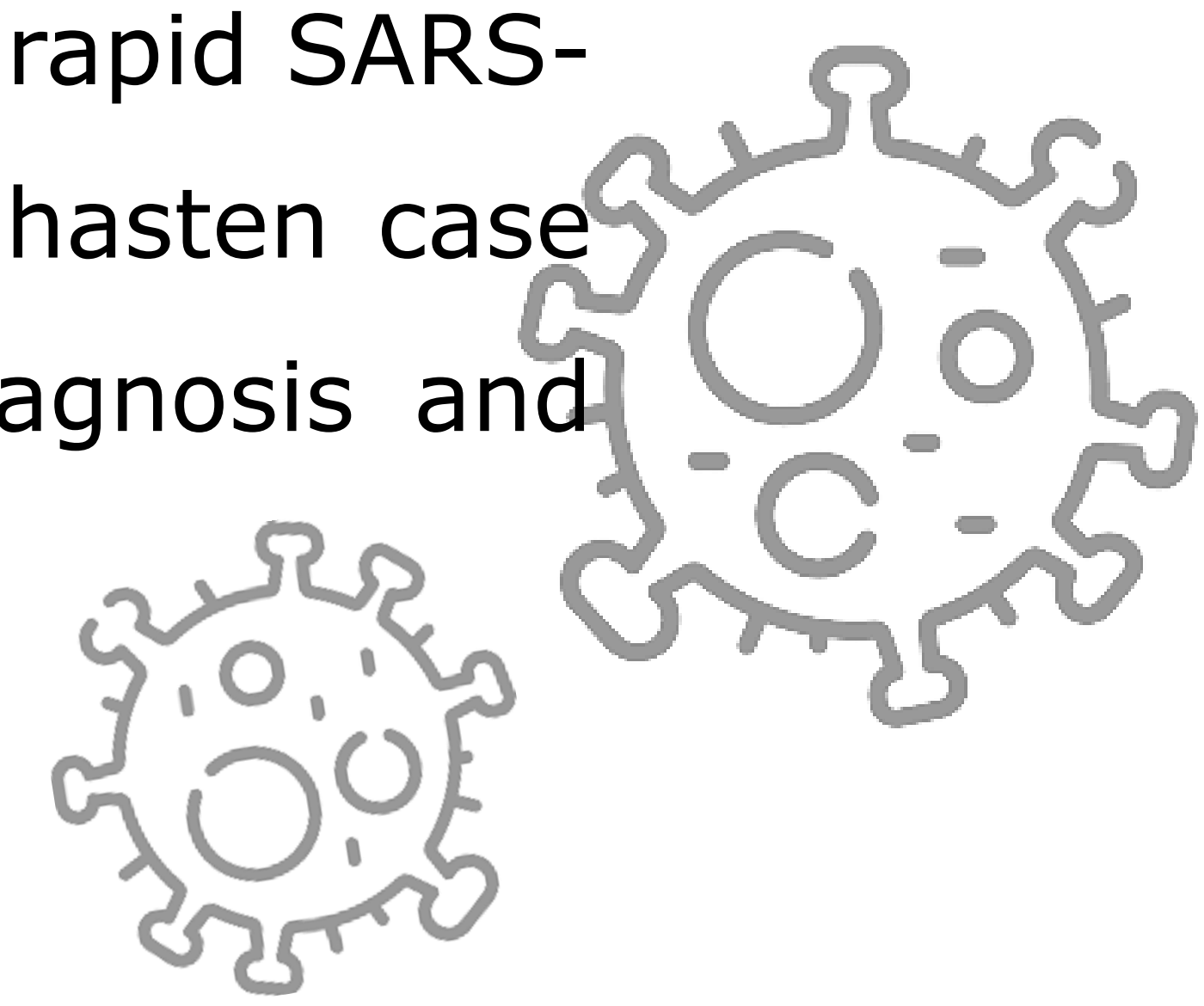
This study demonstrates that rapid PCR performance is consistent with RT-PCR.

ACKNOWLEDGEMENT

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OBJECTIVE

This study aims to determine the diagnostic accuracy of rapid PCR using reverse transcription polymerase chain reaction (RT-PCR) test as a reference standard.



GeneXpert – Xpert Xpress SARS-CoV 2



QIAstat – Dx Respiratory SARS-CoV-2

RESULTS

Inconclusive RT-PCR
Inconclusive Rapid PCR

Rapid PCR		RT-PCR	
Detected	Not detected	Detected	Not detected
4	28		
		2	6

