



Association between Coronavirus 2019 exposure and
Coronavirus disease 2019 among hospital personnel
at Queen Sirikit National Institute of Child Health



Thanatcha Ngowjirasak, MD

Pugpen Sirikutt, MD

Division of Pediatric Infectious Diseases, Department of Pediatrics,
Queen Sirikit National Institute of Child Health

Background



- From April 2021 to February 2022, there were **almost 12,000 healthcare workers with COVID-19 in Thailand** (0.5% of total reported case)
- Hospital personnel are presumed to be **at risk for COVID-19 through occupational exposure**
- Exploration of factors associated with COVID-19 may help guidance of hospital infection control measure

Objectives



- Primary objective

- To describe factors associated with SARS-CoV-2 infection among hospital personnel

- Secondary objective

- To assess Coronavirus 2019 exposure and COVID-19 using the definition of Thai Department of Disease Control (Thai DDC) and Centers for Disease Control and prevention, the United State (U.S. CDC)

Methods



- Study design
 - Cross-sectional analytic study
- Target population
 - Hospital personnel at Queen Sirikit National Institute of Child Health (QSNICH) who underwent RT-PCR for SARS-CoV-2 due to COVID-19 exposure or acute respiratory symptoms
- Duration From April 1st to December 31st, 2021 total 9 months

Population



Inclusion criteria

1. Hospital personnel at QSNICH who exposed to COVID-19 or had acute respiratory symptoms
2. Underwent RT-PCR for SAR-CoV-2 from nasopharygeal swab from April 1st to December 31st, 2021

Exclusion criteria

1. Incomplete detail of COVID-19 exposure