

Proportion of COVID-19 workplace transmission among healthcare workers in the Kelantan State Health Department

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ABSTRACT

Introduction: Healthcare workers (HCWs) played an important role in managing COVID-19 pandemic. Healthcare facilities had become a high-risk place for the HCWs getting infected. The study objective was to determine the proportion of COVID-19 workplace transmission among HCWs in *Jabatan Kesihatan Negeri* (JKN) Kelantan. **Materials and Methods:** A retrospective record review using secondary data of COVID-19 HCW Case from a registry by *Unit Kesihatan Pekerjaan dan Alam Sekitar* (KPAS) JKN Kelantan and was analysed using Excel and SPSS version 26. A descriptive analysis was performed to determine the proportion of COVID-19 infection among HCWs in JKN Kelantan. **Results:** A total of 660 HCWs were notified as positive for COVID-19 between 1 March 2020 and 31 December 2021. The cases were mainly non-workplace transmission (77.1%), with workplace transmission cases 22.9%. The biggest proportion of COVID-19 infection occurred in hospitals (55.0%) followed by HCWs from health and dental health clinics (28.5%) while the least infection occurred among HCWs in health offices (16.5%). Managing more severe cases and performing high-risk procedures were the main reason most of the infections occurred in the hospital. **Conclusion:** JKN Kelantan had implemented control measures based on risk stratification in different facilities however the transmission still occurs. Further study is needed to identify significant associated factors of COVID-19 workplace transmission among HCWs in JKN Kelantan. Identifying these factors would help in the development of effective preventive measures to contain the spread of the virus at the workplace especially at the government healthcare facilities.