

## Increasing Trends in Out-of-Hospital Cardiac Arrests During COVID-19 Era: A Scoping Review

Syeda Humayra <sup>a</sup> Mohammed Tahayneh <sup>b</sup> Tamara Rizqallah Qassasfeh <sup>c</sup>  
Barani Karikalan <sup>d</sup> Charles Ganaprakasam <sup>e</sup> Abd Latiff Mohamed <sup>f</sup>

<sup>a, f</sup> Faculty of Medicine, University of Cyberjaya, Persiaran Bestari, Cyber 11, 63000 Cyberjaya, Selangor, Malaysia

<sup>b, c</sup> Faculty of Allied Medical Sciences, Palestine Ahliya University, Bethlehem, Palestine

<sup>d</sup> Faculty of Medicine, Perdana University-RCSI, Wisma Chase Perdana, Kuala Lumpur, Malaysia

<sup>e</sup> Department of Educational Psychology and Counselling, University of Malaya, 50603 Kuala Lumpur, Malaysia

### Corresponding Author:

Syeda Humayra, MD, PhD  
Faculty of Medicine, University of Cyberjaya  
Persiaran Bestari, Cyber 11, 63000 Cyberjaya, Malaysia  
Contact number: +60 176553671  
Email: syedahumayra@gmail.com

### ABSTRACT

**Background:** COVID-19 pandemic has severely impacted millions of lives and attributed to an elevated mortality rate, through both direct and indirect mechanisms; thus causing a ceaseless burden on the healthcare system. **Objectives:** This study aims to identify the out-of-hospital cardiac arrest related events, outcomes, management, patient characteristics, direct/indirect factors and mortality during the COVID-19 pandemic. **Methods:** We conducted a scoping review in accordance with the PRISMA Extension for Scoping Reviews. A systemic search was performed from March 2020 to January 2021, on PubMed, OVID Embase and Science Direct. Two authors independently screened the electronic databases for eligible articles written or translated in English, and related to OHCA during COVID-19 pandemic compared to non-pandemic period. Later, data were extracted and charted in tables to narratively summarise the study findings. **Results:** We identified 1,271 online search records, whereof 28 publications were selected for the full-text assessment, and only 13 eligible studies