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## Identifying Potential Disparities in Paediatric Out-of-Hospital Cardiac Arrest Incidence and Outcomes

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Paediatric out-of-hospital cardiac arrest (POHCA) is associated with significant neurological morbidity and mortality. Interventions such as bystander CPR and shorter EMS response times have been shown to increase the likelihood of survival with neurologically favourable outcomes, yet recent research from the U.S. reports racial and neighbourhood-level inequities in the provision of these services. The impact of sociodemographic factors on POHCA incidence and survival in Canada has not yet been examined, even though their impact is potentially modifiable. The proposed study would use databases housed within ICES to describe the population of children who have experienced an OHCA in Ontario to identify potential sociodemographic disparities in incidence and outcomes. This research aims to identify at-risk communities or groups, and work to reduce disparities through mobilizing resources and informing local interventions which could include CPR training or improved access to EMS.