

## Help Alert: A First-aid Training Policy for Drivers and a Call-for-help Application for a Timely Prehospital Assistance by Traffic Bystanders

**Introduction** Trauma is one of the most serious public health problems worldwide. Injuries from road traffic accidents (RTA) have exceeded 50 million people annually, costing over 1.35 million lives. One of the causes of this massive loss is the inadequacy and delay in pre-hospital management.

**Method** Literature reviews and interviews of paramedics and the public who have taken part in the prehospital care were conducted for an insight into the situation and validity of the proposed solution.

**Findings** Comparing to average ambulance arrival time, bystanders tend to reach the scene by approximately 3 minutes in advance, resulting in a positive outcome of RTA patients after treatments. Moreover, training is also an effective way to increase bystander' engagement.

**Proposed Solutions** As a result, we have proposed a 2-step solution aiming to increase the number of first-aid responders at the sites of accident. The first phase of this study is the first-aid training policy where drivers are mandated to undergo traffic safety and first-aid training before the issue of driving licenses to reduce traffic risks, and most importantly, step up as first-aid providers. The training emphasizes performances dealing with injuries that patients at RTA are prone to. Following the completion of the training, drivers will be introduced to the latter phase of the project – the call-for-help application which registers volunteers who can provide efficient and appropriate initial care with reduced response time. The features of this application comprised of calling for first-aid assistance, conversing with individuals

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incapable of communicating (i.e., communicational disabilities, foreigners), identifying the location of the care providers and receivers, and providing the location of nearby pharmacies.

**Conclusion** The development of this sequential project will ultimately increase the number of timely first-aid care providers, hence increasing the chance of survival for the time-sensitive injuries of traffic accidents.