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# CPR literacy: Little room for ignorance on a matter of life and death

Singapore has made much progress in training residents to perform CPR and use a defibrillator, but more can be done.



oth run by the Singapore Civil Defence Force as part of NTUC May Day Domestic Em

### Marcus Ong

Mr Tan (not his real name) was playing badminton with his friends at a school sports hall. During the game, he suddenly felt unwell and collapsed. Fortunately, schoolchildren playing nearby schoolchildren playing nearby schoolchildren playing nearby cardiopulmonary resuscitation or CPR training and recognised this was a cardiac arrest. While they started doing CPR, their teacher ran to get the automated external defibrillator automated external defibrillator recently installed in its sports hall.

Together, they were able to successfully restart Mr Tan's heart, saving his life. This scenario of someone recours five to 10 times every dono people throughout the country will suffer an out-of-hospital cardiac arrest every year. More than 300 per cont these

will see the ran out-of-hospital cardiac arrest every year. Amore than 70 per cent of these events occur at home, where family members are the ones witnessing the event. A cardiac arrest occurs when the heart suddenly stops beating and the suddenly stops beating and family and the suddenly stops beating and family are suddenly stops beating and family are suffered to the suddenly stops beating and family are key for survival. CPR is the simple act of pumping a person's chest to circulate blood and oxygen to the brain and heart. This buys time performed by anyone with coaching from 995 emergency service dispatchers at the Singapore Civil Defence Force (SCDP).

Singapore Givil Defence Force (SCDP). Combined with the use of a defibrillator, chances of survival for a cardiac arrest victim increase dimains and increase of the i

guide a user with voice prompts on the actions to take.

guide a user with voice prompts on the actions to take. Almost anyone can use a defibrillator, with the equipment being widely available even in parks and easy to use. Yet, in Singapore, the chances that a bystander might perform a bystander might perform a bystander might perform a continuation of the performance o

cent.
Clearly more can be done, but how do we increase "CPR literacy" in our population?

## WHAT PUTS PEOPLE OFF TRAINING?

Training numbers certainly have improved since a national survey in 2010 by Singapore General Hospital and the Health Promotion Board. The survey found that while 83 per cent of adults believed people should be trained in CPR, only 31 per cent and ever undergone training and less than 10 per cent had current certification.

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and the casualty being a stranger (6.3 per cent).

During the Covid-19 pandemic, a study done at Duke-NUS found our bystander CPR rate dropped slightly during the height of the pandemic compared with pre-pandemic. The study suggests this drop could have been related to fewer cardiac arrests happening in public places, as

## 83%

31%

Those who had undergone training before.

Under Proportion who had current certification

We need more partnerships between civic societies and organisations trying to bring life-saving skills to the population. Schools, workplaces and

programmes.

organisations can play a key role to increase CPR literacy by collaborating with the National Community Emergency and Resilience workgroup to provide more low cost, or even free CPR and AED

well as the fear of infectious diseases.

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Amid these human obstales, much is now under way with considerable and the second of th

Recognising how critical the first minutes of a cardiac arrest are, and how bystanders could provide vital help, the aim is to enrol 500,000 members of the republic to be community first responders on the myResponder app, up from 130,000. The app notifies people if someone is having a cardiac arrest within 400 m of their location, and the defibrillators nearby.

artest within 400 in the location and the defibrillators location.

The SCDF is also using community events to train members of the public in the use of CPR and AED.

These include events jointly organised with the Community Emergency and Engagement Committees, such as Community Resilience Days and programmes under the SGSecure movement. SCDF also conducts free Community Emergency Preparedness Programmes at its four division headquarters to impart life-saving skills to the public.

The SCDF has also been The SCDF has also been working with the Singapore Heart Foundation, People's Association and National Parks Board to have more defibrillators available. The NCER workgroup estimates that B80,000 people are trained every year in life-saving skills by the combined efforts of the Government, community partners

Government, community partners and private agencies.

## MAKING CPR MORE ACCESSIBLE

Maintaining and increasing these

efforts will help us meet our target of one million people trained in five years. To facilitate that, CPR training should be made simpler, easier to learn, more affordable and more

To facilitate that, CPR training should be made simpler, easier to learn, more affordable and more For example, a traditional CPR class usually takes three to four hours to complete and costs around \$100 to \$200 due to the equipment and manpower needed to conduct it. However, new programmes such as the school-based Dispatcher Assisted Piris to follow instructions provided by the officer on the 995 phone call. Dispatcher Assisted Piris to follow instructions provided by the officer on the 995 phone call. This programme requires only 45 to 60 minutes to complete. Teaching is video-based and fun, with no requirements for exams or testing. It also incorporates activities for Teaching is sideo-based and fun, with no requirements for exams or testing. It also incorporates activities for Teaching is free of charge for the public. It is a collaboration between the Ministry of Education and the Upec under the Ministry of Health. Community penetration also needs to increase. The control of the propulation.

Schools, workplaces and organisations can play a key role to increase CPR literacy by collaborating with the NCER workgroup to provide more low organisations can play a key role to increase CPR literacy by collaborating with the NCER workgroup to provide more low programmes.

cost, or even tree trransactions.
For every minute that nothing is done during a cardiac arrest, the chance of survival decreases by 10 to waif for an ambulance to arrive and hesitate to take simple actions that could help save a life. We can certainly do more to keep our communities "heart-safe".