

Out-of-Hospital Cardiac Arrest Register





National Ambulance Service

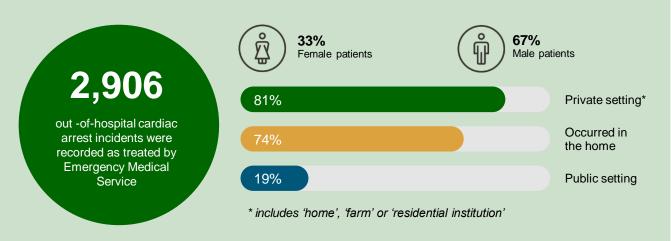
Out-of-Hospital Cardiac Arrest Register Annual Report 2021 Summary

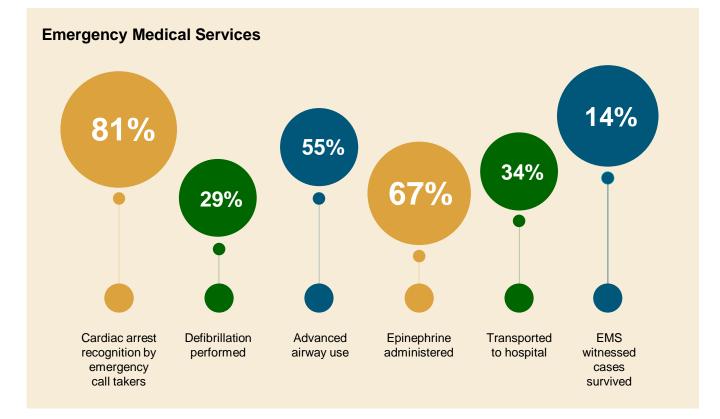
October 2022

Key findings 2021

OHCAR Annual Report Summary

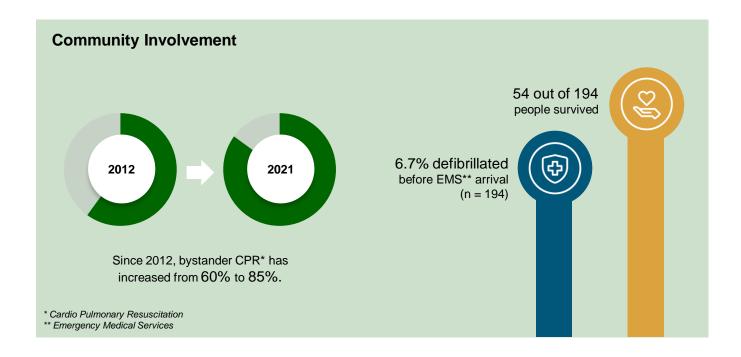
Demographics



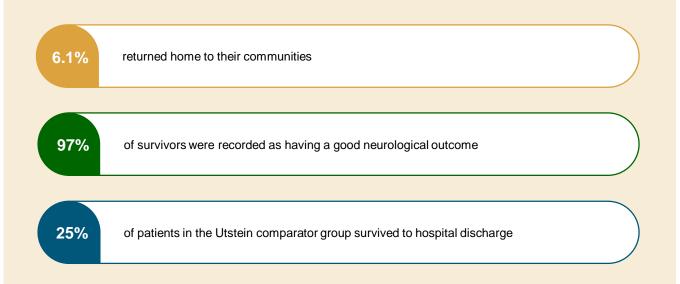


Key findings 2021

OHCAR Annual Report Summary



Post Cardiac Arrest Outcome



Key messages 2021

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Overall Patient and Event Characteristics	 2,906 out-of-hospital cardiac arrest incidents recorded on OHCAR (61 per 100,000 population in 2021) 57% occurred in an urban area 67% Male Median age 67 years (interquartile range 53 – 78) 85% presumed medical cause 74% happened in the home 85% Bystander CPR attempted 50% Bystander witnessed 6.7% of patients had defibrillation attempted pre EMS arrival 16% had sustained ROSC to Hospital arrival
Non EMS Defibrillation	 In 2021, of all cases where an initial shockable rhythm was found, non-EMS defibrillation occurred in 35% of cases Non-EMS responders defibrillated 198 patients, of whom 54 survived (27.8%) Of all survivors of OHCA in 2021, 54 (30.3%) resulted from non-EMS defibrillation
Survivors - Patient and Event Characteristics	 178 patients survived 6.1% discharged alive 152 had good to moderate neurological function on discharge
Utstein Group	 13% of patients were in the Utstein Group 48% ROSC pre-hospital 37% ROSC on arrival at hospital 25% were discharged alive

^aDefinition of urban is matched with the CSO definition of a settlement i.e. defined as having a minimum of 50 occupied dwellings, with a maximum distance between any dwelling and the building closest to it of 100 metres, and where there is evidence of an urban centre ¹⁵.

^b The Utstein subgroup includes patients who are >17 years, with presumed medical aetiology, bystander witnessed event and an initial shockable rhythm.

Key messages 2021

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C The Out of Hospital Cardiac Arrest Register (OHCAR) aims to improve outcomes in Ireland by continuous performance measurement and feedback to service providers and the broader community.

- **C** The Chain of Survival has 4 steps and can be implemented by any member of the public, supported over the phone by the HSE National Ambulance Service (NAS) 112/999 team.
- **C** The Register in Ireland is funded by the National Ambulance Service as a means of quality assuring and quality improving the care provided in this extreme emergency by ambulance services in Ireland.
- Last year 178 patients survived their out-of-hospital cardiac arrest to leave hospital alive, 97% with moderate to good neurological outcome.

Responders, who are not members of the Emergency Medical Services, can make all the difference when an out of hospital cardiac arrest occurs

C Responders include a wide range of trained volunteers (both lay and health care professionals), off-duty Emergency Medical Service (EMS) staff and members of the public who encounter an emergency and are prepared to provide care.

Community First Responders are an integral part of dealing with an emergency in the community in that they provide vital lifesaving CPR and defibrillator treatment to patients while an ambulance is on route.

Anyone interested in becoming a Community First Responder can visit <u>www.becomeacfr.ie</u> and get in touch. There is currently a need for additional Community First Responders right around the country and you will be given the essential training required.

