



# National Ambulance Service

Out of Hospital Cardiac Arrest Register

## Annual Report 2022 Summary

October 2023

Out-of-Hospital Cardiac Arrest Register

**OHCAR** Ireland



At the heart of evidence



# Key Data 2022

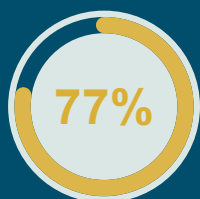
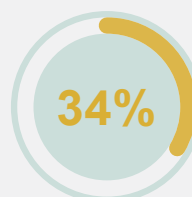
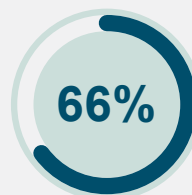
OHCA Annual Report Summary

## DEMOGRAPHICS



**2,802**

out of hospital  
arrest incidents were  
recorded as attended  
by the EMS



**Private Setting\***

\*Includes home,  
farm or residential institution



**Occurred in  
the home**



**Public Setting**

## COMMUNITY INVOLVEMENT



Since 2012, Bystander CPR has  
increased from 60% to 84%



**10%**

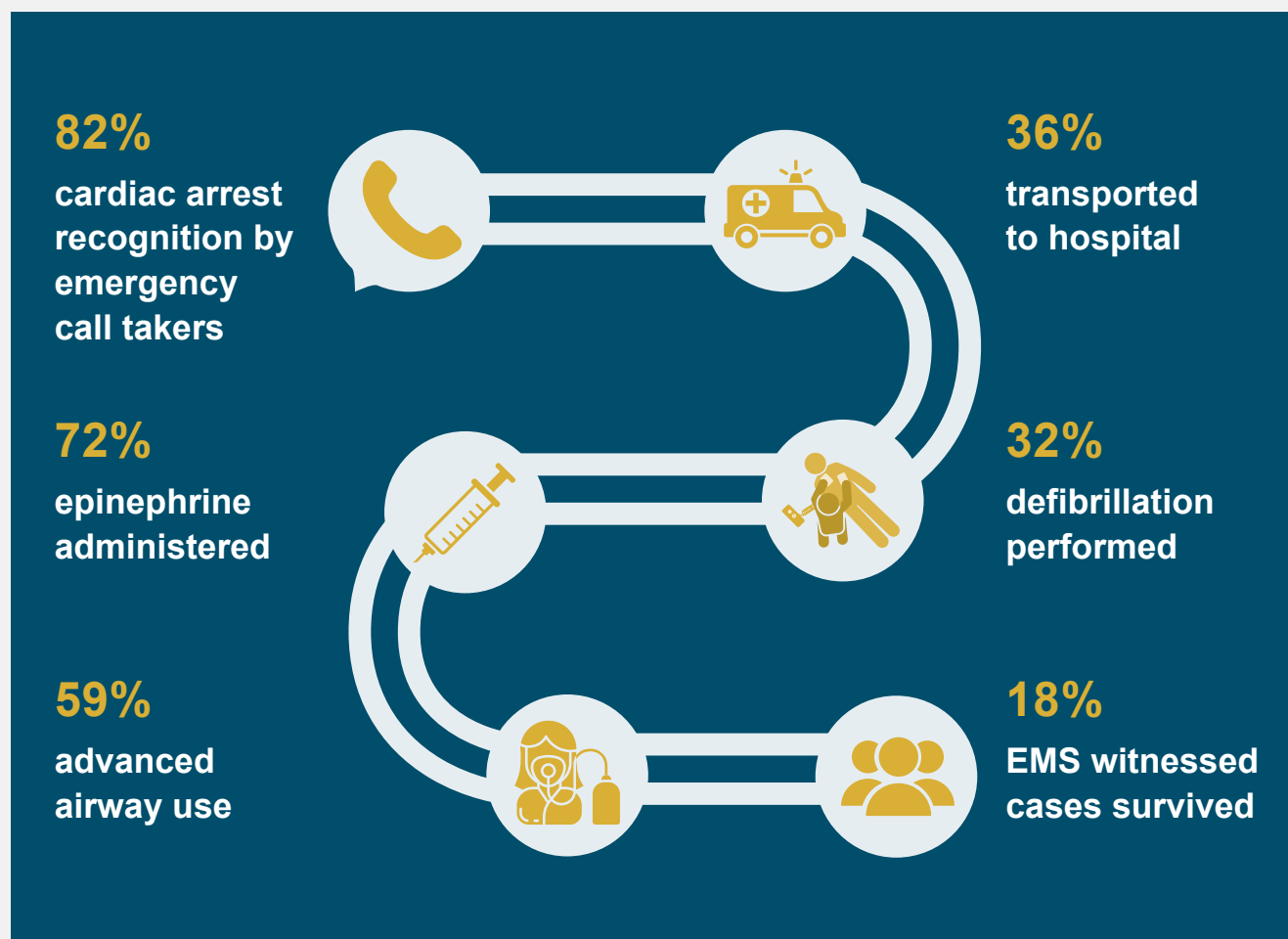
defibrillated before EMS arrival  
(n=282/2,802)

**31% of cases defibrillated  
before EMS arrival survived  
(n=87/282)**

# Key Data 2022

OHCAR Annual Report Summary

## EMERGENCY MEDICAL SERVICES



## POST CARDIAC ARREST OUTCOME

**206 PEOPLE**



Returned to their communities

**98%**



98% of survivors were recorded as having a good neurological outcome

**25%**



25% of patients in the Utstein comparator group survived to hospital discharge

# OHCAR Key Data 2022

## Overall Patient and Event Characteristics

- 2,802 out-of-hospital cardiac arrest incidents recorded on OHCAR (55 per 100,000 population in 2022)
  - 59% occurred in an urban area<sup>a</sup>
  - 66% Male
  - Median age 69 years (interquartile range 54 – 79)
  - 84% presumed medical cause
  - 69% happened in the home
  - 84% Bystander CPR attempted
  - 53% Bystander witnessed
  - 10% of patients had defibrillation attempted pre EMS arrival
  - 19% had sustained ROSC to Hospital arrival

## Non EMS Defibrillation

- In 2022, of all cases where an initial shockable rhythm was found, non-EMS defibrillation occurred in 10% of cases
- Non-EMS responders defibrillated 282 patients, of whom 87 survived (31%)
  - Of all survivors of OHCA in 2022, 42% resulted from non-EMS defibrillation (n=87/206)

## Survivors - Patient and Event Characteristics

206 patients survived

- 7.3% Discharged alive
  - 183 had good to moderate neurological function on discharge

## Utstein Group

- 14% of patients were in the Utstein Group<sup>b</sup>
  - 50% ROSC pre-hospital
  - 39% ROSC on arrival at hospital
  - 25% were discharged alive

<sup>a</sup>Definition 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.

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

# OHCAR Key Messages 2022

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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

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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

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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

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Last year 206 patients survived their out-of-hospital cardiac arrest to leave hospital alive, 98% with moderate to good neurological outcome

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

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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

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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

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**Anyone interested in becoming a Community First Responder can [visit www.becomeacfr.ie](https://www.becomeacfr.ie) 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**

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