

OHCAO CARDIAC ARREST OVERVIEW SCAS 2019

Demographics



4,143

OHCA calls attended

2135

patients treated by paramedics



In 2018 1883 patients were treated

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted):



Males
(Age adjusted)

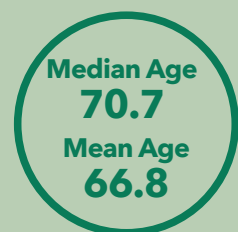


Females
(Age adjusted)



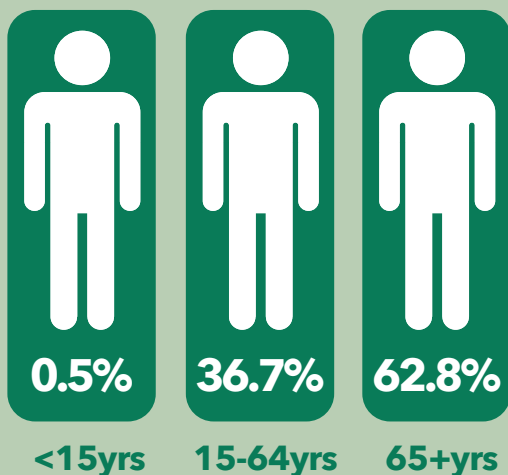
In 2018 incidence was 44.2
(males: 62.3, females: 28.3)

Age of cases



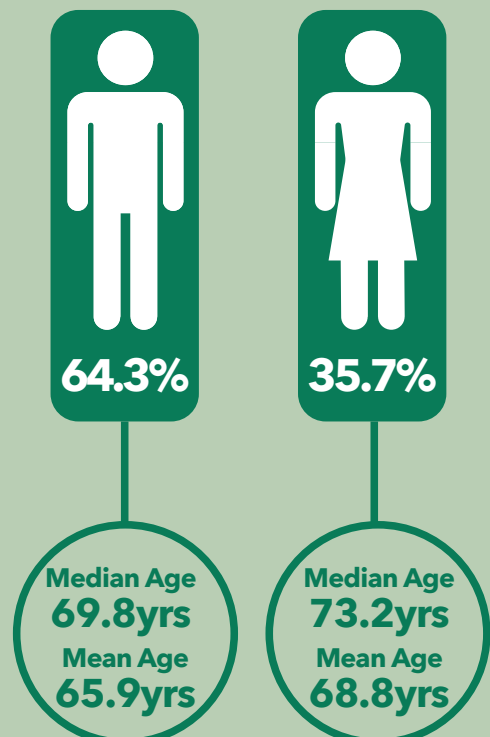
In 2018, median age was 72.2
(mean: 68.1)

Age Distribution



2018: ≤15y - 1%,
15-64y - 35.1%,
65+y - 63.8%

Sex Distribution



Event Details



79.1%

had a cardiac arrest at place of residence



9.1%

had a cardiac arrest in a public place



0.9%

had a cardiac arrest in the workplace



0.1%

had a cardiac arrest in a place of education



0.3%

had a cardiac arrest in a leisure centre



10.4%

had a cardiac arrest in another location



00:00 - 05:59

13.9%



06:00 - 11:59

34.4%



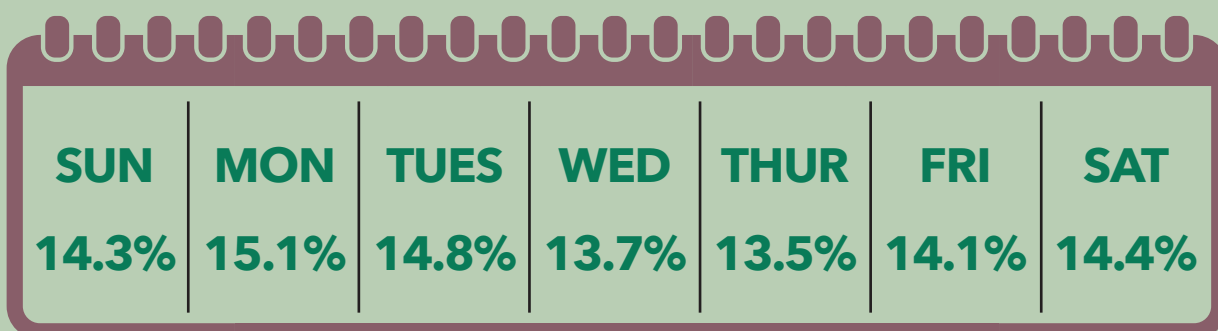
12:00 - 17:59

27.8%



18:00 - 23:59

23.8%



Median EMS response time



90th percentile time: 12.2 mins



Proportion of cases reached in 8 mins 73.1%

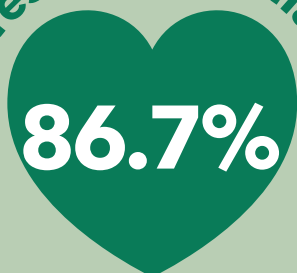
In 2018, median response time was also 6.4 mins & 90th percentile time was 14.3 mins

In 2018, 62% of cases were reached in 8 mins

Clinical Presentation

AETIOLOGY

Presumed cardiac

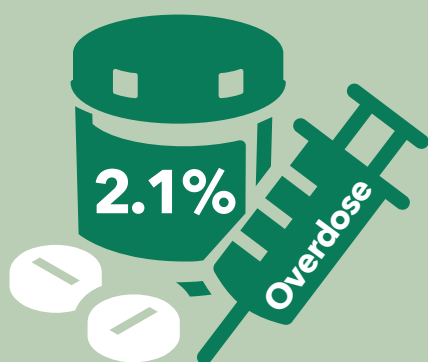


(2018: 61.6%)

Trauma



(2018: 2.4%)



(2018: 1.1%)

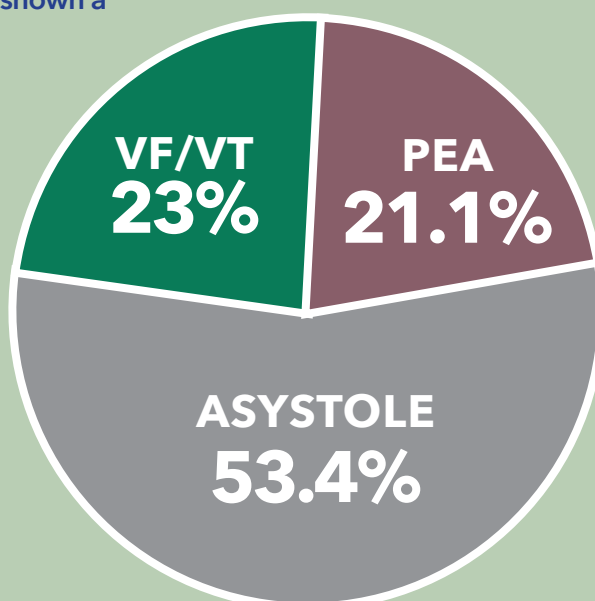
Asphyxia



(2018: 1.9%)

INITIAL RHYTHM

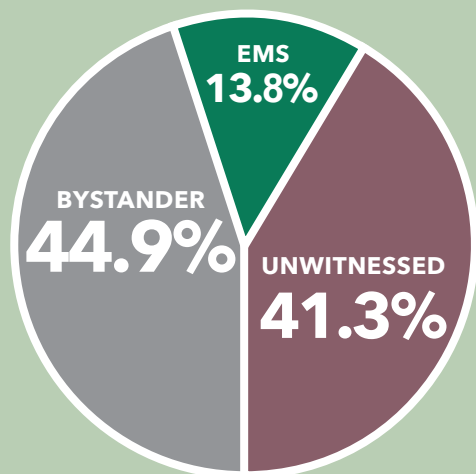
The proportion of cases presenting with a shockable rhythm has shown a year-on-year increase



2018:
VF/VT - 21.6%
Asystole - 55.1%
PEA - 17.3%

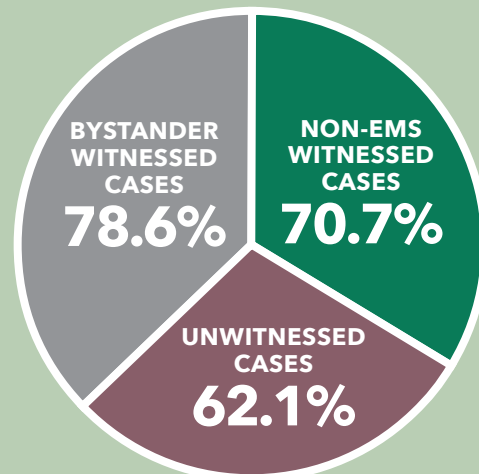
Bystander Interventions

Who witnessed cardiac arrest?



2018:
 Bystander - 37.3%
 EMS - 12.8%
 Unwitnessed - 49.9%

Bystander CPR rate:



2018:
 Non-EMS witnessed - 61.6%
 Bystander witnessed - 78.3%

Public Access Defibrillator use:



ALL CASES	BYSTANDER WITNESSED CASES	UNWITNESSED CASES
5.9%	7.8%	5.1%

2018:
 Bystander witnessed - 6.4%
 Unwitnessed - 4.7%

Comments:

- Over time, the proportion of cases that were witnessed by a bystander continues to be around 51%
- Bystander CPR rate of non-EMS witnessed cases has increased over time
- Bystander CPR rate in bystander witnessed cases has also increased significantly over time
- Use of a PAD continues to increase substantially

Clinical Outcomes



Declared dead on scene

42.9%

2018: 42.4%



Admitted with ongoing CPR

27.2%

2018: CPR - 33.1%



Admitted with ROSC

29.9%

2018: 24.4%

29.9%
admitted to hospital with ROSC



10.8%
survived to discharge

56.8%
Utstein comparator group

2018:
All cases - 24.4% UCG - 53.9%

32.3%
Utstein comparator group*

2018:
All cases - 12.4% UCG - 32.2%

Paramedics successful in restarting

639
HEARTS

2018: 460

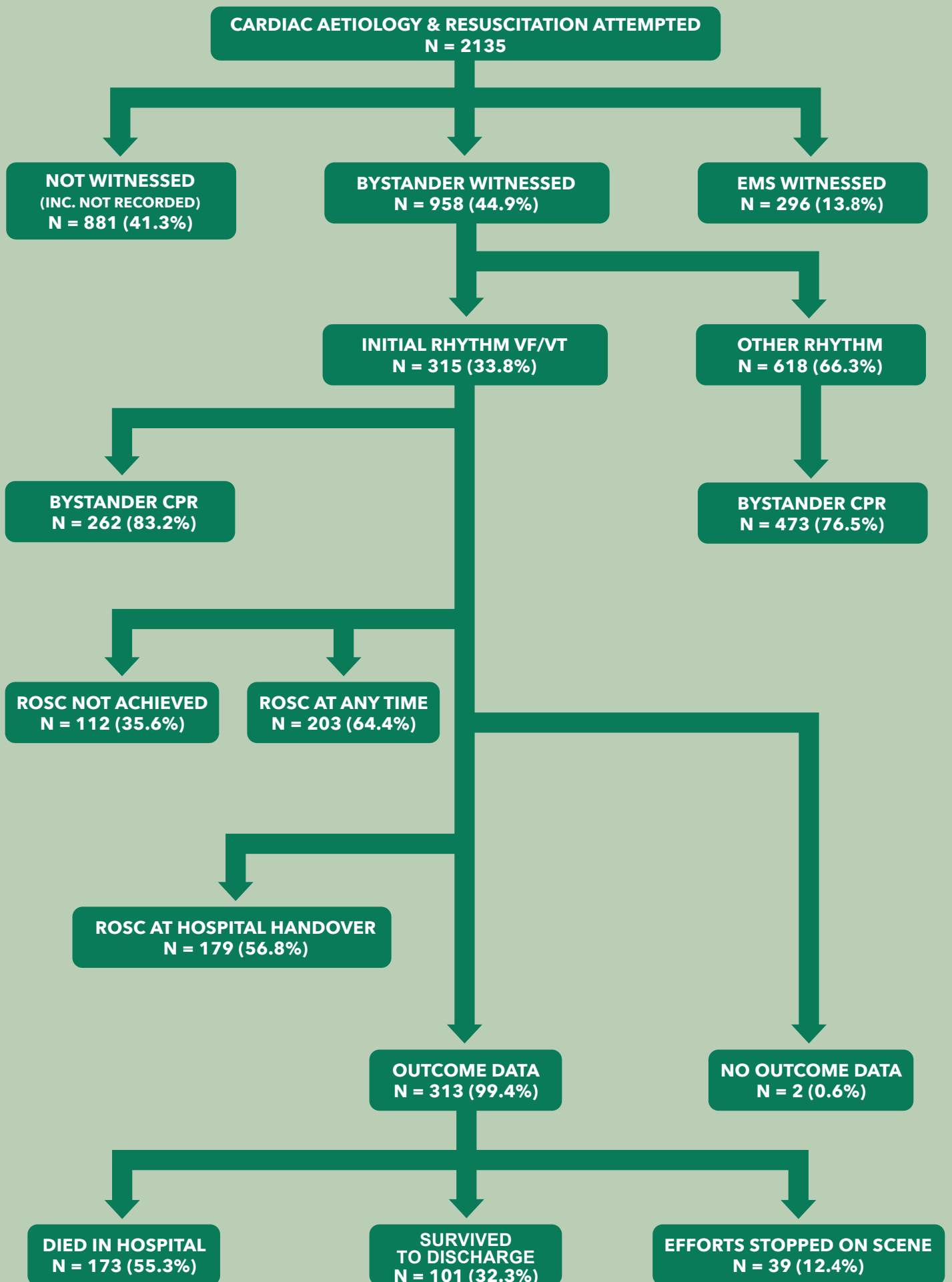
Number of lives saved

230

2018: 207

*Bystander witnessed, shockable rhythm

Utstein Comparator Group* Flow Chart



*Allows some adjustment for case-mix to facilitate comparisons between ambulance services in UK and rest of world