

OHCAO CARDIAC ARREST OVERVIEW SECAMB 2019

Demographics



7,130

OHCA calls attended

2625

patients treated by paramedics



In 2018 2930 patients were treated

OHCA incidence (per 100,000)

Age of cases

All cases
(Age/gender adjusted):



51.9

Males
(Age adjusted)



73.9

Females
(Age adjusted)



31.9

In 2018 incidence was 58.6
(males: 56.5, females: 60.8)

Median Age
71.7
Mean Age
68

In 2018,
median age was 72
(mean: 67.9)

Age Distribution

Sex Distribution



<15yrs



15-64yrs

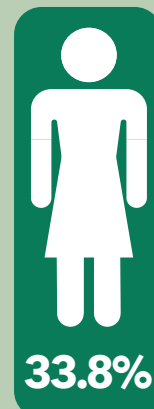


65+yrs

2018: ≤15y - 1.8%,
15-64y - 33.9%,
65+y - 64.2%



Median Age
70.3yrs
Mean Age
66.7yrs



Median Age
73.8yrs
Mean Age
70.5yrs

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

14.9%



06:00 - 11:59

30.5%



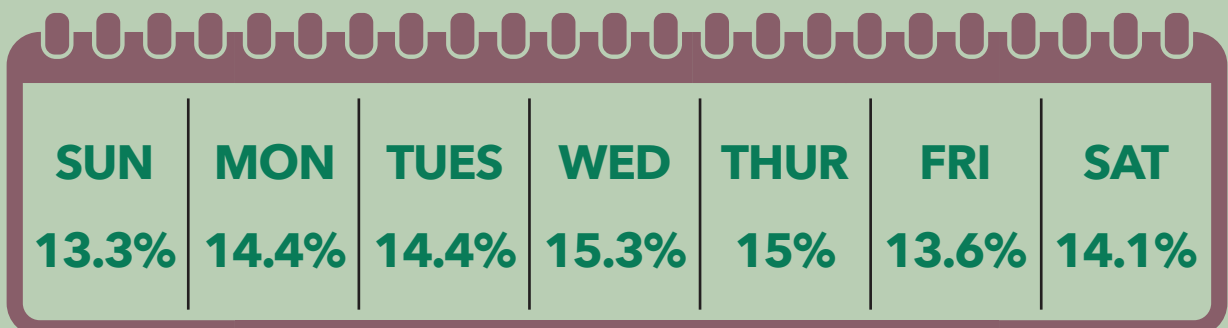
12:00 - 17:59

29.6%



18:00 - 23:59

25.1%



Median EMS response time



90th percentile time: 15.2 mins



Proportion of cases reached in 8 mins 60.8%

In 2018, median response time was also 6.4 mins & 90th percentile time was 14.8 mins

In 2018, 42.4% of cases were reached in 8 mins

Clinical Presentation

AETIOLOGY

Presumed cardiac

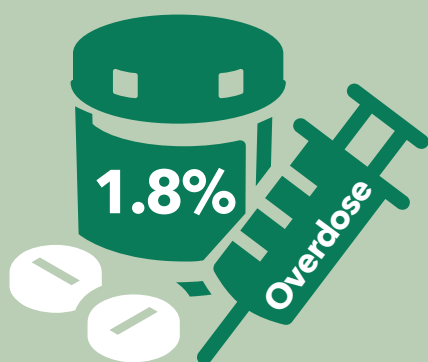


(2018: 92.2%)

Trauma



(2018: 3.4%)



(2018: 1.5%)

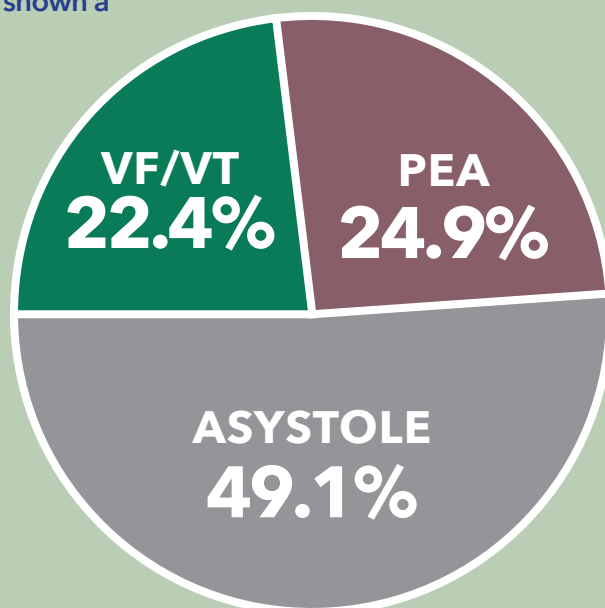
Asphyxia



(2018: 1.8%)

INITIAL RHYTHM

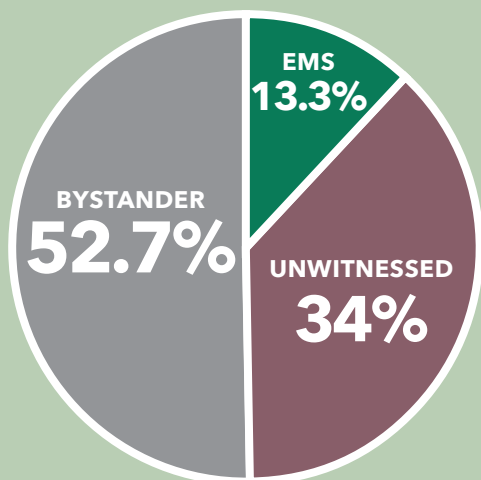
The proportion of cases presenting with a shockable rhythm has shown a year-on-year increase



2018:
VF/VT - 21.7%
Asystole - 50.1%
PEA - 21.9%

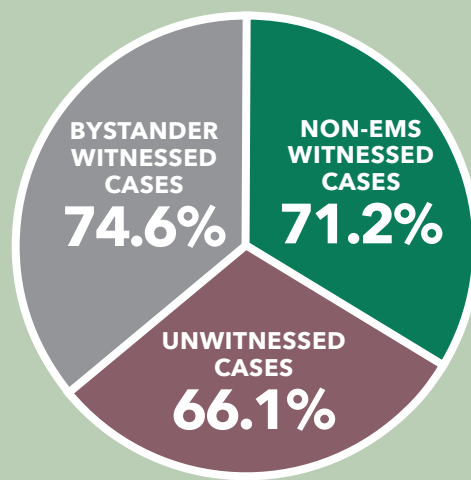
Bystander Interventions

Who witnessed cardiac arrest?



2018:
Bystander - 47.9%
EMS - 12.1%
Unwitnessed - 40%

Bystander CPR rate:



2018:
Non-EMS witnessed - 68.3%
Bystander witnessed - 74.8%

Public Access Defibrillator use:



ALL CASES
4.8%

BYSTANDER WITNESSED CASES
7.2%

UNWITNESSED CASES
2.9%

2018:
Bystander witnessed - 2.3%
Unwitnessed - 1.5%

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

58.9%

2018: 63.5%



Admitted with
ongoing CPR

13.6%

2018: CPR - 9.7%



Admitted with
ROSC

27.5%

2018: 26.8%

27.5%
admitted to
hospital with ROSC



8.7%
survived to discharge

52.1%
Utstein comparator group

2018:
All cases - 26.8% UCG - 49.6%

27.5%
Utstein comparator group*

2018:
All cases - 7.1% UCG - 22.5%

Paramedics successful
in restarting

722
HEARTS

2018: 785

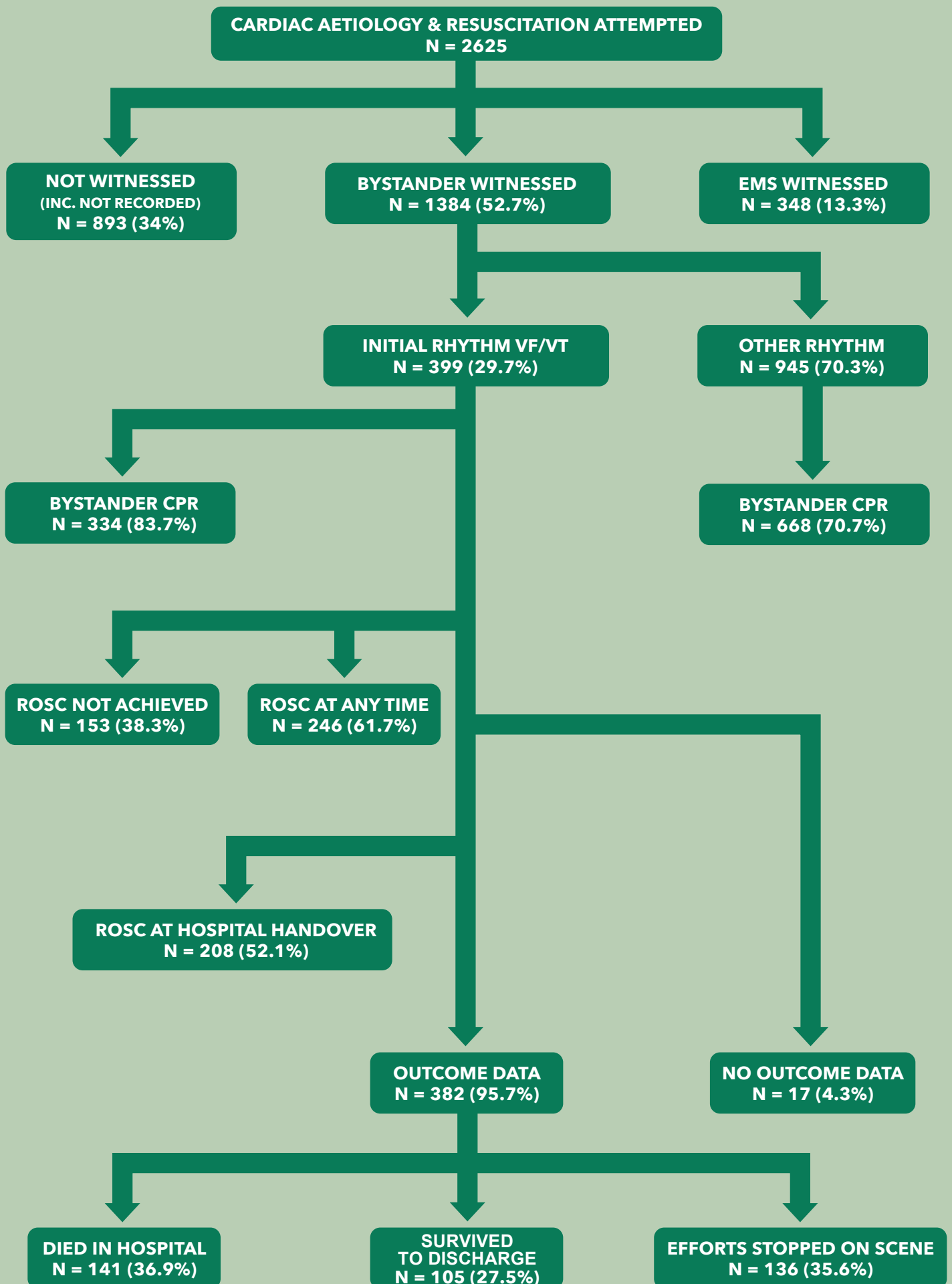
Number of lives saved

223

2018: 198

*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