

OHCAO CARDIAC ARREST OVERVIEW EAST 2019

Demographics



9,901

OHCA calls attended

3672

patients treated by paramedics



In 2018 3561 patients were treated

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted):



Males
(Age adjusted)

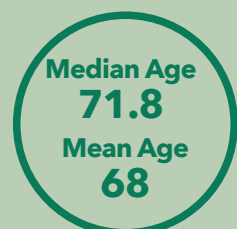


Females
(Age adjusted)



In 2018 incidence was 51.4
(males: 74.2, females: 31.5)

Age of cases



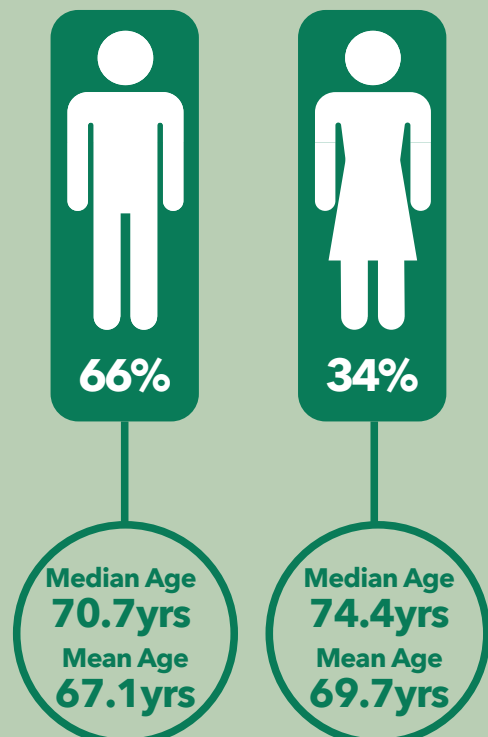
In 2018, median age was 71.4
(mean: 67.3)

Age Distribution



2018: ≤15y - 1.6%,
15-64y - 36.1%,
65+y - 62.3%

Sex Distribution



Event Details



76.4%

had a cardiac arrest at place of residence



0%

had a cardiac arrest in a public place



1.7%

had a cardiac arrest in the workplace



0%

had a cardiac arrest in a place of education



0%

had a cardiac arrest in a leisure centre



21.9%

had a cardiac arrest in another location



00:00 - 05:59

15.5%



06:00 - 11:59

30.2%



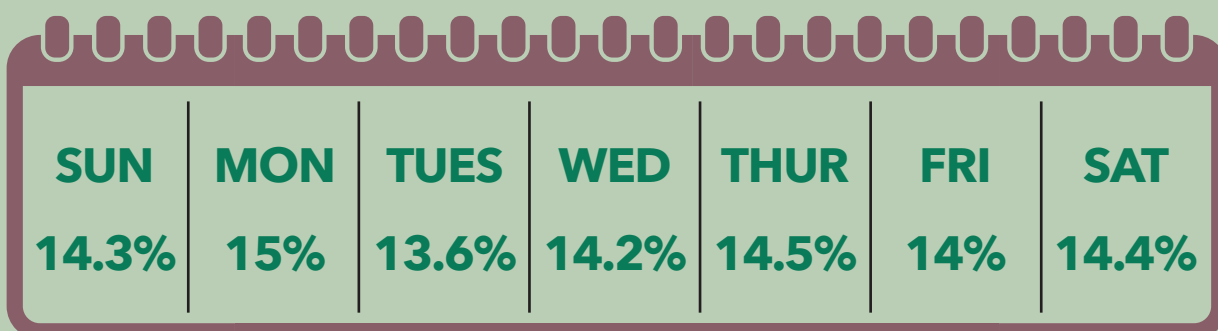
12:00 - 17:59

28.7%



18:00 - 23:59

25.6%



Median EMS response time



90th percentile time: 13 mins



Proportion of cases reached in 8 mins 72%

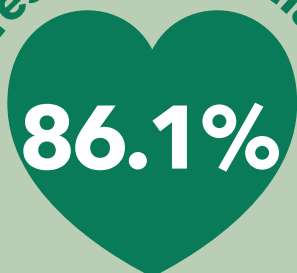
In 2018, median response time was also 6.8 mins & 90th percentile time was 16.1 mins

In 2018, 57.2% of cases were reached in 8 mins

Clinical Presentation

AETIOLOGY

Presumed cardiac

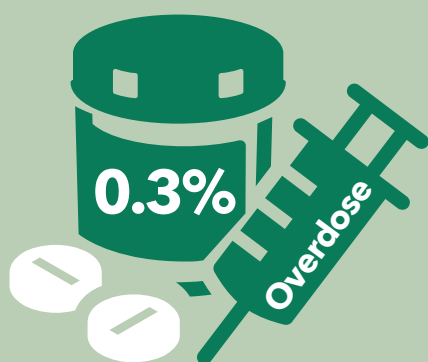


(2018: 79.9%)

Trauma



(2018: 4.9%)



(2018: 1%)

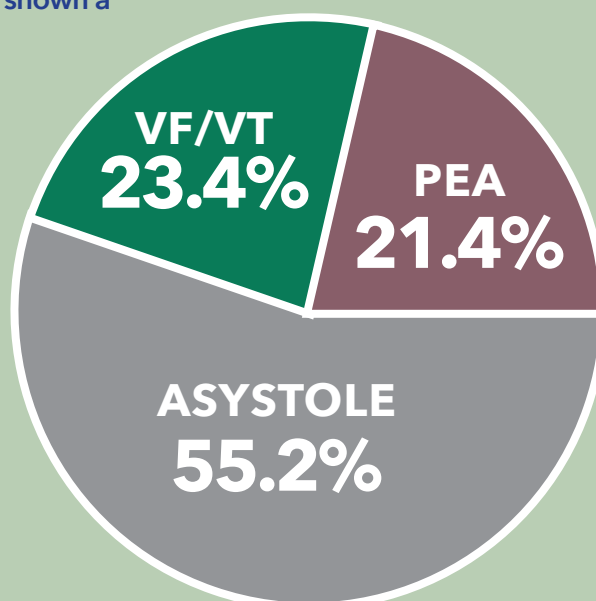
Asphyxia



(2018: 2.2%)

INITIAL RHYTHM

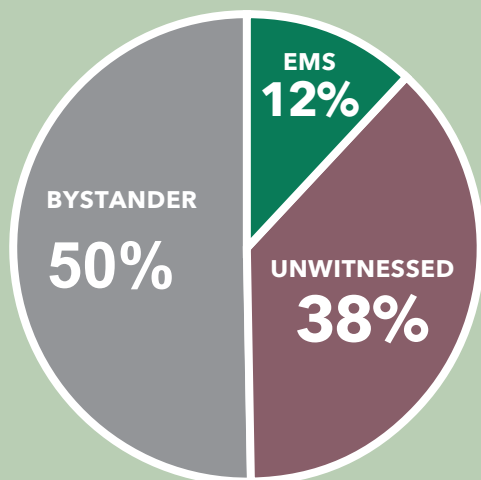
The proportion of cases presenting with a shockable rhythm has shown a year-on-year increase



2018:
VF/VT - 21%
Asystole - 54.7%
PEA - 20%

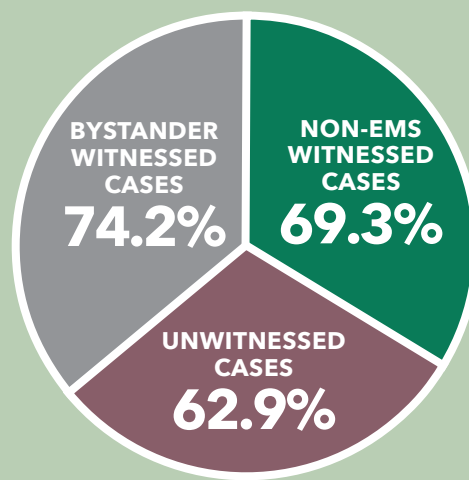
Bystander Interventions

Who witnessed cardiac arrest?



2018:
 Bystander - 49.2%
 EMS - 9.7%
 Unwitnessed - 41.1%

Bystander CPR rate:



2018:
 Non-EMS witnessed - 63.7%
 Bystander witnessed - 70.2%

Public Access Defibrillator use:



ALL CASES
3.2%

BYSTANDER WITNESSED CASES
5.1%

UNWITNESSED CASES
1.5%

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

54.4%

2018: 55.7%



Admitted with ongoing CPR

17.2%

2018: CPR - 15.1%



Admitted with ROSC

28.4%

2018: 29.3%

28.4%
admitted to hospital with ROSC



9.3%
survived to discharge

54.8%
Utstein comparator group

2018:
All cases - 29.3% UCG - 56.1%

31.1%
Utstein comparator group*

2018:
All cases - 9.9% UCG - 34.8%

Paramedics successful in restarting

1044
HEARTS

2018: 1043

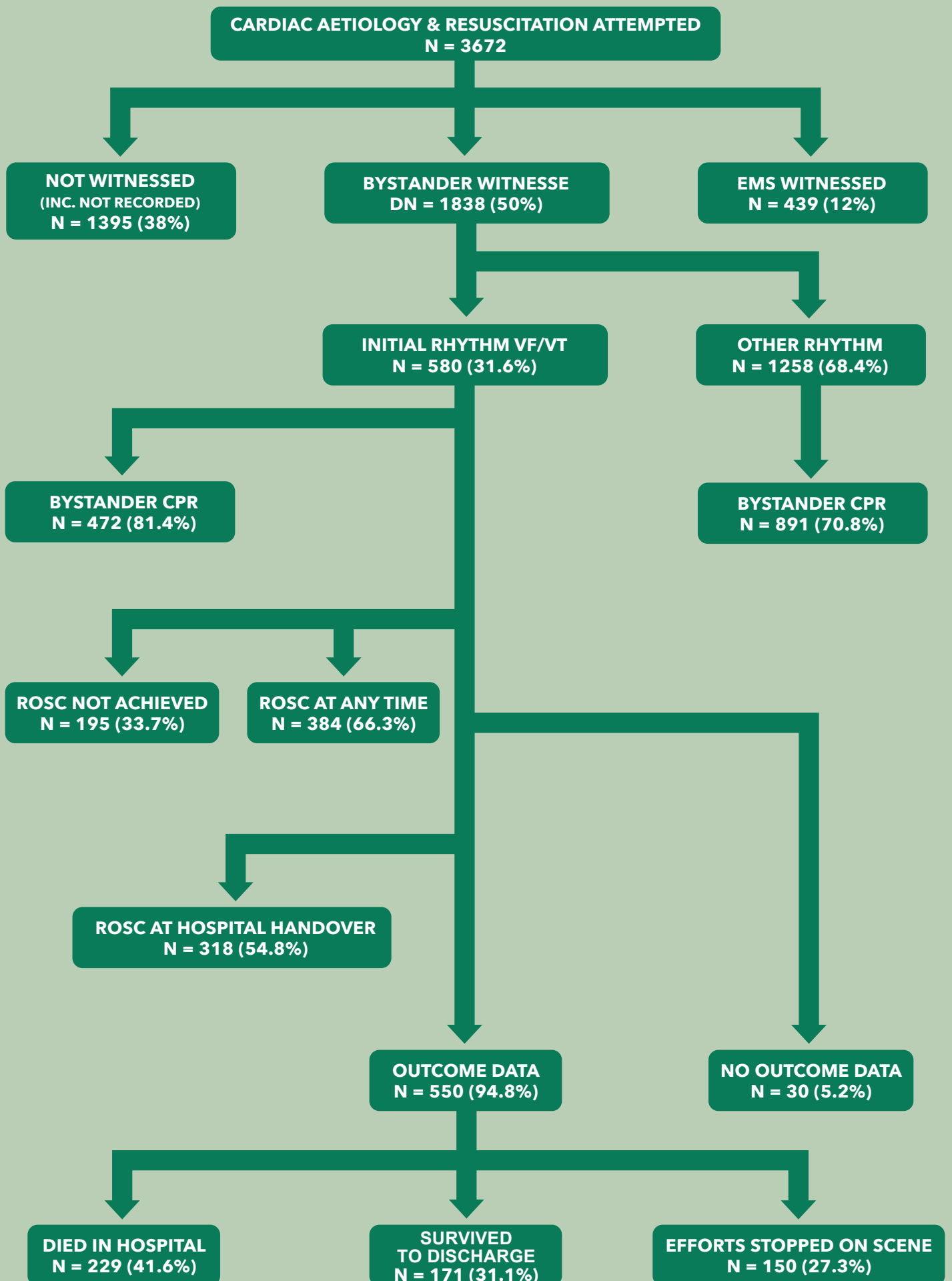
Number of lives saved

332

2018: 340

*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