OHCAO CARDIAC ARREST OVERVIEW NEAS 2019 Demographics



3259
OHCA calls attended

2035
patients treated by paramedics



Females

(Age adjusted)

In 2018 1989 patients were treated

OHCA incidence (per 100,000)

All cases (Age/gender adjusted):



Males (Age adjusted)



102.4 52.1 In 2018 incidence was 75 (males: 102.5, females: 51.1)

Age of cases

Median Age 69.7 Mean Age 66.2

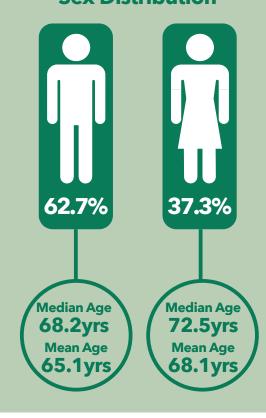
In 2018, median age was 70 (mean: 66)

Age Distribution



2018: ≤15y - 1.6%, 15-64y - 38.2%, 65+y - 60.2%

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

14.9%



06:00 - 11:59

30.6%



12:00 - 17:59

28.6%



18:00 - 23:59

25.9%

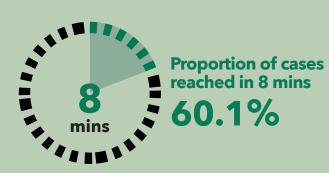
SUN	MON	TUES	WED	THUR	FRI	SAT
15.1%	15.6%	14.7%	13.7%	12.5%	14%	14.3%

Median EMS response time



90th percentile time: 15.6 mins

In 2018, median response time was also 6.7 mins & 90th percentile time was 15.4 mins



In 2018, 58.2% of cases were reached in 8 mins



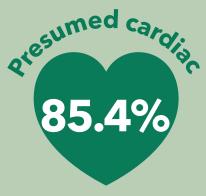






Clinical Presentation

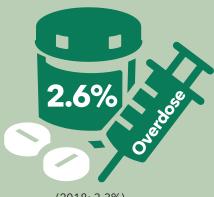
AETIOLOGY



(2018: 86.1%)



(2018: 2.4%)

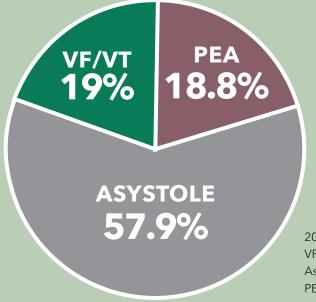


(2018: 3.3%)



INITIAL RHYTHM

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



2018: VF/VT - 19.9% Asystole - 55.2% PEA - 18.3%



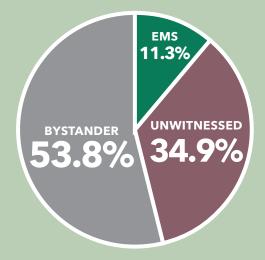






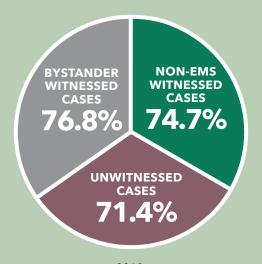
Bystander Interventions

Who witnessed cardiac arrest?



2018: Bystander - 48.2% EMS - 12.5% Unwitnessed - 39.3%

Bystander CPR rate:



2018 Non-EMS witnessed - 73.3% Bystander witnessed -77.7%

Public Access Defibrillator use:



ALL CASES

BYSTANDER WITNESSED CASES

UNWITNESSED CASES

Bystander witnessed - 2.5% 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

56.9%

2018: 57.7%



Admitted with ongoing CPR

10.4%

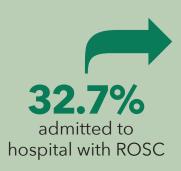
2018: CPR - 14.9%



Admitted with ROSC

32.7%

2018: 27.4%





7.7%

survived to discharge **27.9%**

Utstein comparator group*

2018: All cases - 10.6% UCG - 36.2%

57%Utstein comparator group

2018: All cases -27.8% UCG - 56.9%



2018: 545



2018: 192

*Bystander witnessed, shockable rhythm

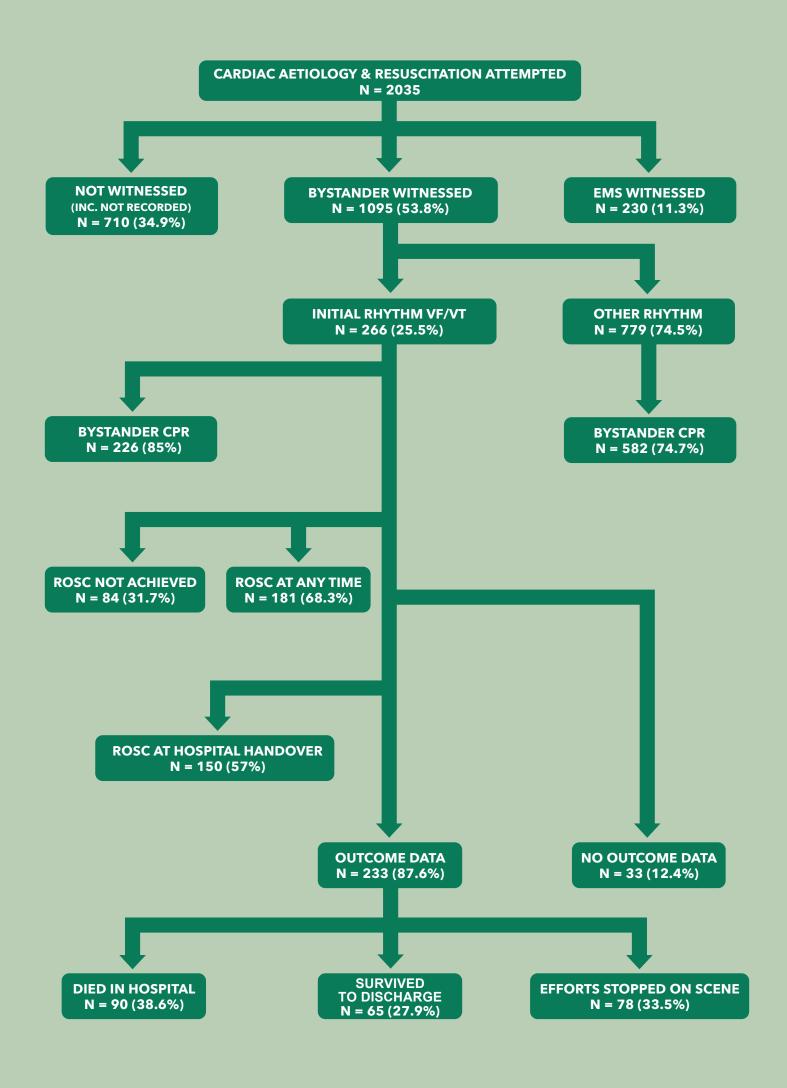








Utstein Comparator Group* Flow Chart



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







