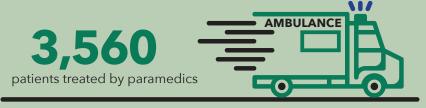
OHCAO CARDIAC ARREST OVERVIEW WMAS 2019 Demographics





In 2018 3,842 patients were treated

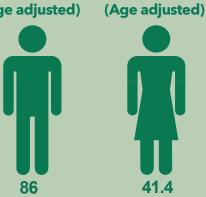
Females

OHCA incidence (per 100,000)

All cases (Age/gender adjusted):







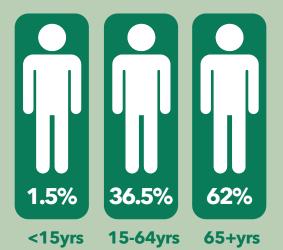
In 2018 incidence was 67.8 (males: 95.9, females: 43)

Age of cases



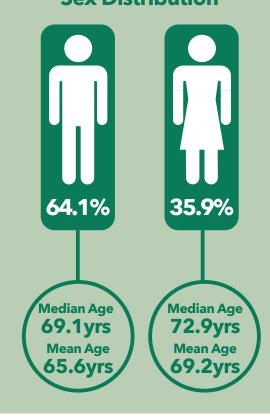
In 2018, median age was 71.2 (mean: 67.6)

Age Distribution



2018: ≤15y - 1.5%, 15-64y - 35.5%, 65+y - 63%

Sex Distribution











Event Details



80.5%

had a cardiac arrest at place of residence



12.0%

had a cardiac arrest in a public place



1.6%

had a cardiac arrest in the workplace



0.2%

had a cardiac arrest in a place of education



0.5%

had a cardiac arrest in a leisure centre



5.2%

had a cardiac arrest in another location



00:00 - 05:59

14.1%



06:00 - 11:59

33%



12:00 - 17:59

28%



18:00 - 23:59

24.9%

SUN	MON	TUES	WED	THUR	FRI	SAT
15.7%	14.3%	12.7%	13.7%	14.8%	13.8%	15%

Median EMS response time



90th percentile times
12.3
mins

In 2018, median response time was also 5.6 mins & 90th percentile time was 12.2 mins



Proportion of cases reached in 8 mins 73.7%

In 2018, 71.5% of cases were reached in 8 mins









Clinical Presentation

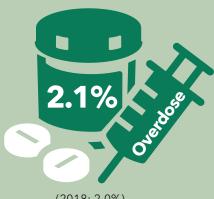
AETIOLOGY



(2018: 91.1%)



(2018: 3.3%)



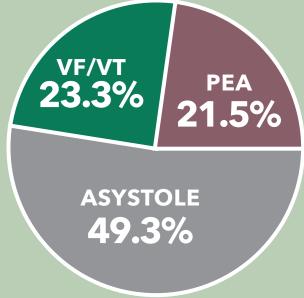
(2018: 2.0%)



INITIAL RHYTHM

The proportion of cases presenting with a shockable rhythm has shown a

year-on-year increase



2018: VF/VT - 20.4% Asystole - 50.1% PEA - 22.2%



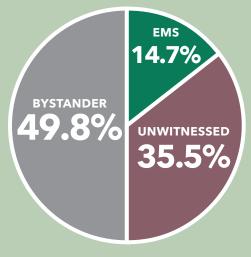






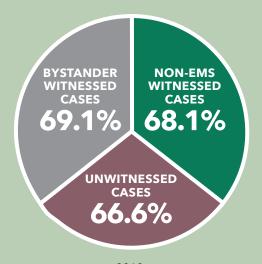
Bystander Interventions

Who witnessed cardiac arrest?



2018: Bystander - 46.6% EMS - 15.6% Unwitnessed - 37.8%

Bystander CPR rate:



2018: Non-EMS witnessed - 68.9% Bystander witnessed - 73.2%

Public Access Defibrillator use:



ALL CASES

BYSTANDER WITNESSED CASES

6.8%

UNWITNESSED CASES

5.4%

2018:

Bystander witnessed - 7.0% Unwitnessed - 4.4%

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

33.9%

2018: 34.9%



Admitted with ongoing CPR

32.7%

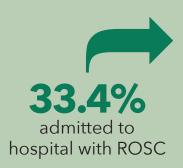
2018: CPR - 33.9%



Admitted with ROSC

33.4%

2018: 31.2%





11.5% survived to discharge

32.2%
Utstein comparator group*

2018: All cases - 10.5% UCG - 33.3%

54.2%Utstein comparator group

2018: All cases -31.2% UCG - 55.9%



2018: 1200



2018: 392

*Bystander witnessed, shockable rhythm

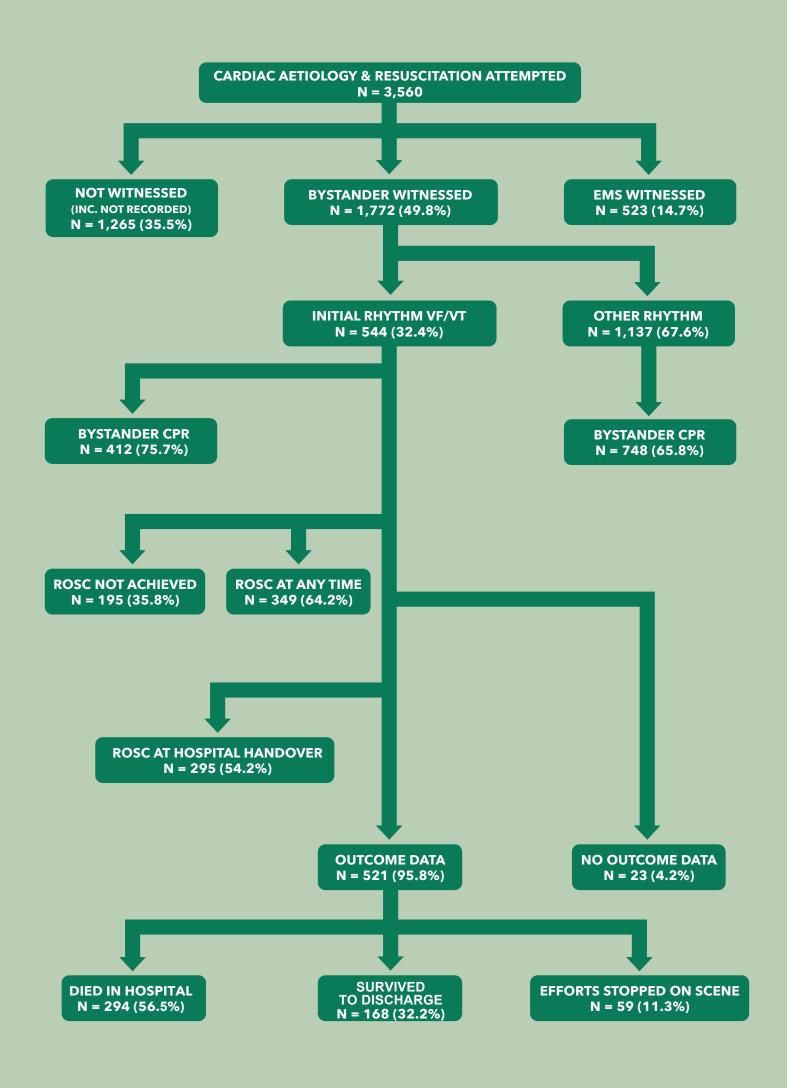








Utstein Comparator Group* Flow Chart



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







