OHCAO CARDIAC ARREST OVERVIEW NWAS 2020

Demographics

11,773
OHCA calls attended

3,072
Patients treated by ambulance service clinicians

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)

41.5

Males
(Age adjusted)

57.6

Females
(Age adjusted)

27.4

Age of cases

Median Age
68.7yrs
Mean Age
65.3yrs

Age Distribution

1.9%
<15yrs

40.9%
15-64yrs

57.2%
65+yrs

Sex Distribution

65.6%

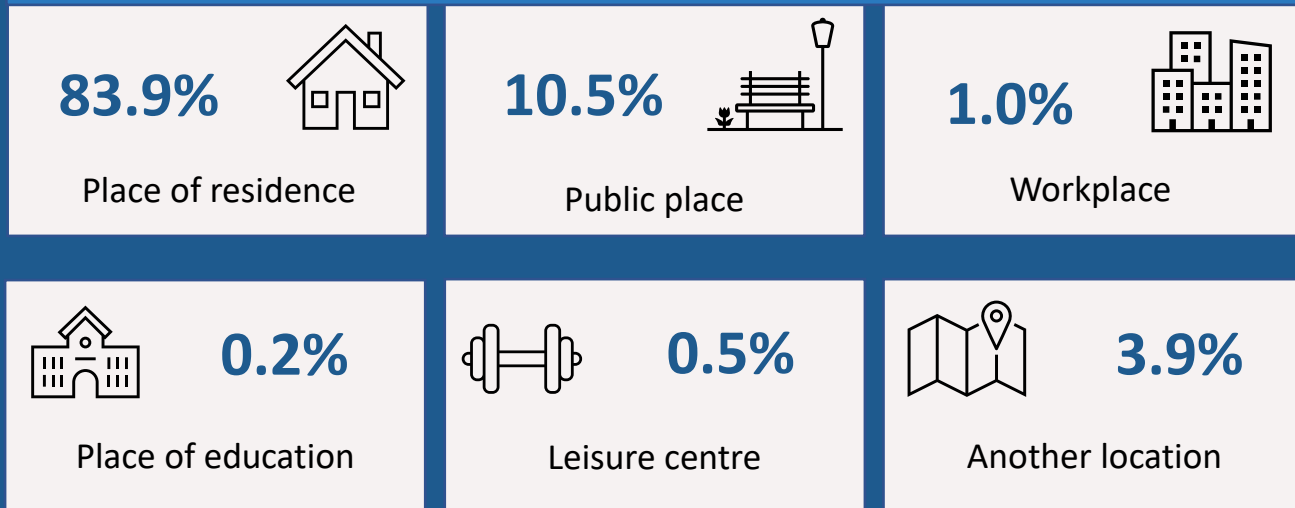Median Age
68.3yrs
Mean Age
65.2yrs

34.4%

Median Age
70.0yrs
Mean Age
65.3yrs

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NWAS 2020

Where did people have a cardiac arrest?

83.9%
Place of residence

10.5%
Public place

1.0%
Workplace

0.2%
Place of education

0.5%
Leisure centre

3.9%
Another location

Time of Day

00:00 – 05:59	06:00 – 11:59	12:00 – 17:59	18:00 – 23:59
15.0%	**30.0%**	**29.9%**	**25.1%**

Day	SUN	MON	TUE	WED	THU	FRI	SAT
	17.0%	14.8%	13.8%	13.6%	13.6%	13.9%	13.3%

Median EMS Response time
9.0 mins

90th percentile time: **18.0** mins
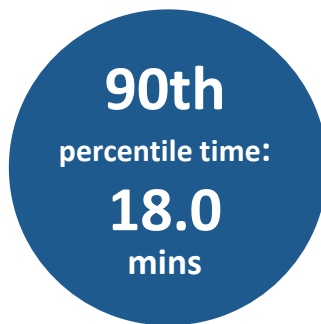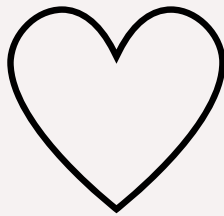
7 mins

Proportion of cases reached in 7 mins
40.7%

OHCAO | British Heart Foundation | Resuscitation Council UK | NIHR | Applied Research Collaboration West Midlands | ASSOCIATION OF AMBULANCE CHIEF EXECUTIVES

OHCAO CARDIAC ARREST OVERVIEW NWAS 2020

Aetiology

Presumed cardiac
74.9%

Trauma
3.2%
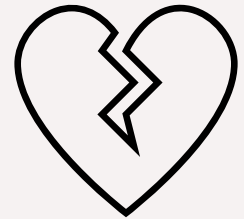
Overdose
3.9%
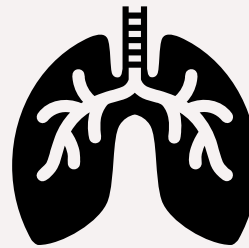
Asphyxia
3.1%

Initial Rhythm

VF/VT
23.6%

PEA
23.5%

Asystole
49.4%
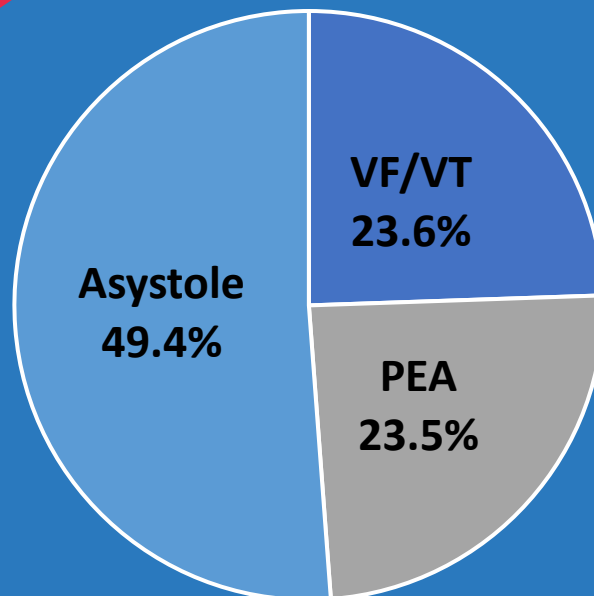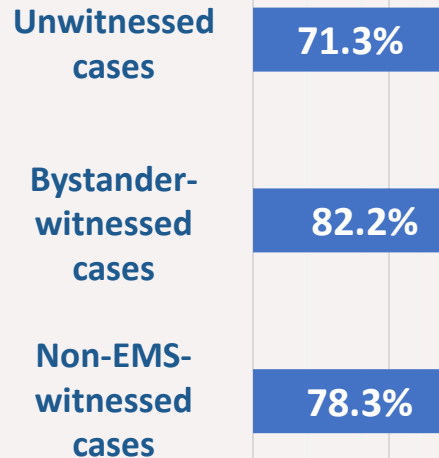
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Bystander Interventions

Who witnessed cardiac arrest?

- EMS 13.6%
- Unwitnessed 30.8%
- Bystander 55.6%

Bystander CPR rates:

- Unwitnessed cases — 71.3%
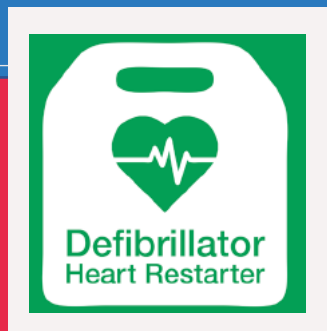- Bystander-witnessed cases — 82.2%
- Non-EMS-witnessed cases — 78.3%
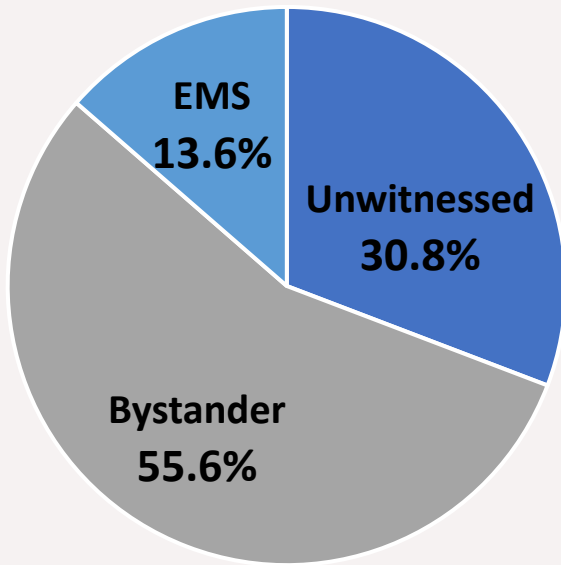
ˣNon-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use

All cases
5.0%
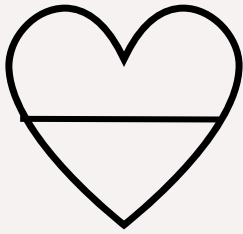
Bystander witnessed cases
6.2%

Unwitnessed cases
5.1%

Defibrillator Heart Restarter

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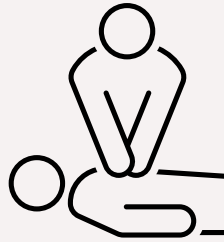
Clinical Outcomes

Declared dead on scene

40.0%

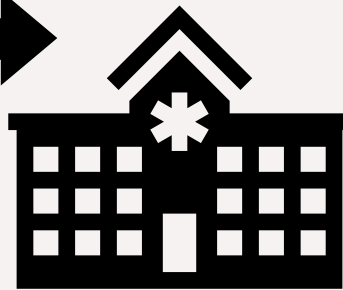**Admitted with ongoing CPR**

31.6%

Admitted with ROSC

28.4%

Admitted to hospital with ROSC

28.4%

UCG^x

49.1%

Survived to discharge

6.9%

UCG^x

23.1%

Paramedics successful in restarting

871 hearts

207 lives saved

^{x}Utstein Comparator Group: bystander witnessed, shockable rhythm

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Utstein Comparator Group[x] Flow Chart

RESUSCITATION ATTEMPTED
N = 3,072

NOT WITNESSED (INC. NOT RECORDED)
N = 947 (30.8%)

BYSTANDER WITNESSED
N = 1,709 (55.6%)

EMS WITNESSED
N = 416 (13.6%)

INITIAL RHYTHM VF/VT
N = 495 (29.2%)

OTHER RHYTHM
N = 1,203 (70.8%)

BYSTANDER CPR
N = 419 (84.6%)

BYSTANDER CPR
N = 976 (81.1%)

ROSC NOT ACHIEVED
N = 215 (43.4%)

ROSC AT ANY TIME
N = 280 (56.6%)

ROSC AT HOSPITAL HANDOVER
N = 243 (49.1%)

OUTCOME DATA
N = 464 (93.7%)

NO OUTCOME DATA
N = 31 (6.3%)

DIED IN HOSPITAL
N = 270 (58.2%)

SURVIVED TO DISCHARGE
N = 107 (23.0%)

EFFORTS STOPPED ON SCENE
N = 87 (18.8%)

[x]Bystander witnessed, shockable rhythm

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