OHCAO CARDIAC ARREST OVERVIEW SCAS 2020

Demographics

4,491
OHCA calls attended

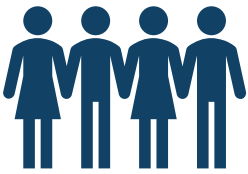**2,365**
Patients treated by ambulance service clinicians

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)
55.6

Males
(Age adjusted)
78.9

Females
(Age adjusted)
34.4

Age of cases

Median Age
69.0yrs
Mean Age
66.4yrs

Age Distribution

1.2%
<15yrs

39.9%
15-64yrs

58.9%
65+yrs

Sex Distribution

66.8%
Median Age
67.8yrs
Mean Age
65.6yrs

33.2%
Median Age
72.1yrs
Mean Age
68.1yrs

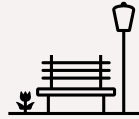# OHCAO CARDIAC ARREST OVERVIEW SCAS 2020

Where did people have a cardiac arrest?

82.3%* Place of residence
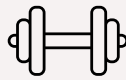
11.0%* Public place

1.0%* Workplace

0.1%* Place of education

0.4%* Leisure centre

5.2%* Another location

Time of Day

00:00 – 05:59	06:00 – 11:59	12:00 – 17:59	18:00 – 23:59
13.2%	31.9%	30.6%	24.3%

Day	SUN	MON	TUE	WED	THU	FRI	SAT
	13.4%	14.2%	14.1%	14.2%	13.7%	14.9%	15.5%

Median EMS Response time
5.7 mins

90th percentile time: **12.9** mins
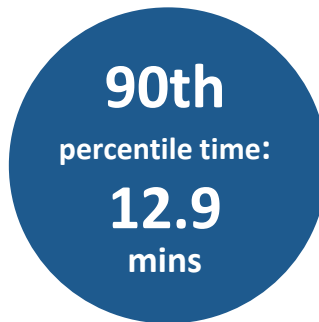
7 mins

Proportion of cases reached in 7 mins
56.3%

*national averages used

OHCAO CARDIAC ARREST OVERVIEW SCAS 2020

Aetiology

Medical
87.6%

Trauma
3.0%
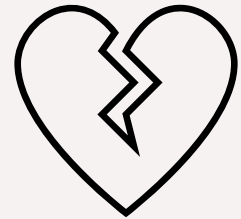
Overdose
2.6%
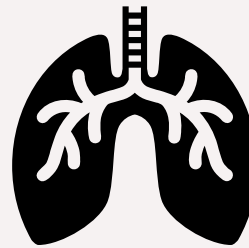
Asphyxia
4.1%

Initial Rhythm

VF/VT
23.8%

Asystole
53.2%

PEA
20.3%
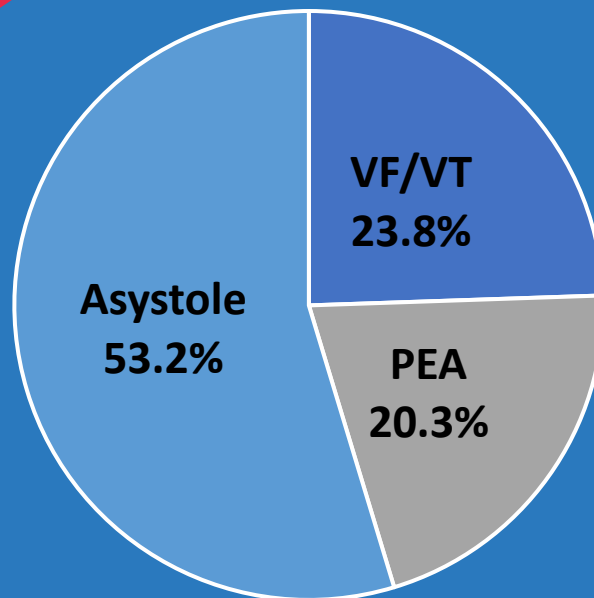
OHCAO CARDIAC ARREST OVERVIEW SCAS 2020

Bystander Interventions

Who witnessed cardiac arrest?

EMS 13.7%

Unwitnessed 41.3%

Bystander 45.0%

Bystander CPR rates:

Unwitnessed cases — 66.9%

Bystander-witnessed cases — 76.5%
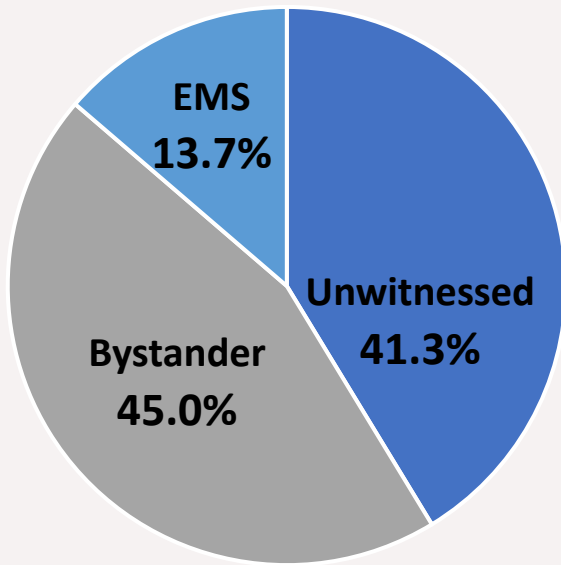
Non-EMS-witnessed cases — 71.9%
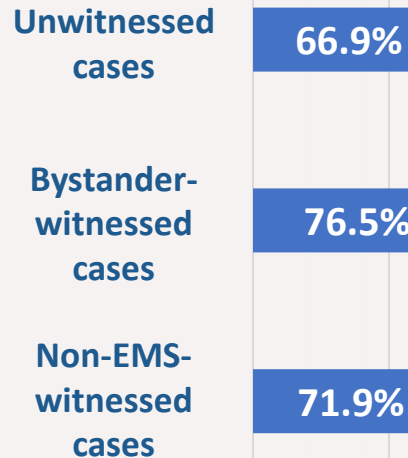
ˣNon-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use

All cases
4.4%*
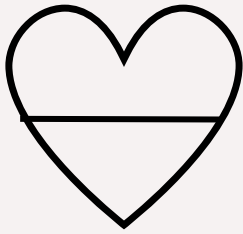
Bystander witnessed cases
5.4%*

Unwitnessed cases
4.6%*

Defibrillator
Heart Restarter
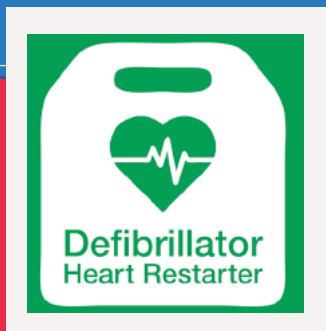
*national averages used

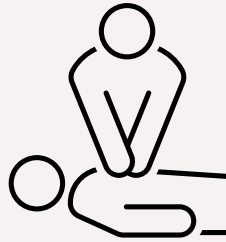# OHCAO CARDIAC ARREST OVERVIEW SCAS 2020

Clinical Outcomes

Declared dead on scene
53.8%

Admitted with ongoing CPR
23.0%

Admitted with ROSC
23.2%

Admitted to hospital with ROSC
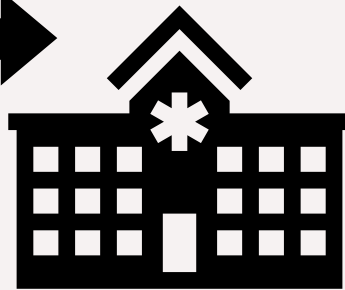**23.2%**
UCG[x]
41.9%

Survived to discharge
8.7%
UCG[x]
21.1%

Paramedics successful in restarting **549** hearts

204 lives saved

[x]Utstein Comparator Group: bystander witnessed, shockable rhythm

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

OHCAO CARDIAC ARREST OVERVIEW
SCAS 2020

Utstein Comparator Group[x] Flow Chart

RESUSCITATION ATTEMPTED
N = 2,365

NOT WITNESSED (INC. NOT RECORDED)
N = 976 (41.3%)

BYSTANDER WITNESSED
N = 1,065 (45.0%)

EMS WITNESSED
N = 324 (13.7%)

INITIAL RHYTHM VF/VT
N = 356 (34.2%)

OTHER RHYTHM
N = 685 (65.8%)

BYSTANDER CPR
N = 297 (83.4%)

BYSTANDER CPR
N = 497 (72.6%)

ROSC NOT ACHIEVED
N = 170 (47.8%)

ROSC AT ANY TIME
N = 186 (52.2%)

ROSC AT HOSPITAL HANDOVER
N = 149 (41.9%)

OUTCOME DATA
N = 351 (98.6%)

NO OUTCOME DATA
N = 5 (1.4%)

DIED IN HOSPITAL
N = 177 (50.4%)

SURVIVED TO DISCHARGE
N = 74 (21.1%)

EFFORTS STOPPED ON SCENE
N = 100 (28.5%)

[x]Bystander witnessed, shockable rhythm

OHCAO

British Heart Foundation

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ASSOCIATION OF AMBULANCE CHIEF EXECUTIVES