OHCAO CARDIAC ARREST OVERVIEW SECAMB 2021

Demographics

8,189
OHCA calls attended

2,774
Patients treated by ambulance service personnel

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)

Male
(Age adjusted)

Female
(Age adjusted)

55.7

79.5

35.0

Age of patients

Median Age
69.0yrs
Mean Age
65.2yrs

Age Distribution

1.7%
<15yrs

39.4%
15-64yrs

58.9%
65+yrs

Sex Distribution

66.3%

33.7%

Median Age
68.0yrs
Mean Age
65.0yrs

Median Age
70.0yrs
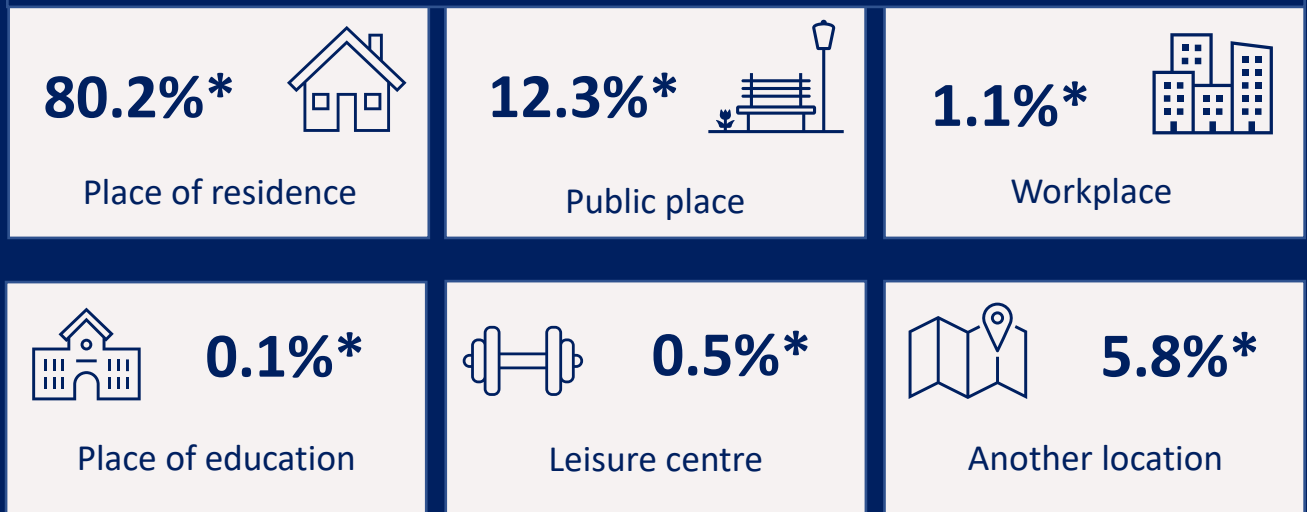Mean Age
65.6yrs

OHCAO CARDIAC ARREST OVERVIEW
SECAMB 2021
Regional data not available - national averages presented

Where did people have a cardiac arrest?

80.2%* Place of residence	**12.3%*** Public place	**1.1%*** Workplace
0.1%* Place of education	**0.5%*** Leisure centre	**5.8%*** Another location

When did people have a cardiac arrest?

Time of Day

00:00 – 05:59	06:00 – 11:59	12:00 – 17:59	18:00 – 23:59
14.3%	**30.8%**	**30.9%**	**24.0%**

Day

SUN	MON	TUE	WED	THU	FRI	SAT
14.7%	14.4%	14.4%	13.6%	13.7%	14.6%	14.6%
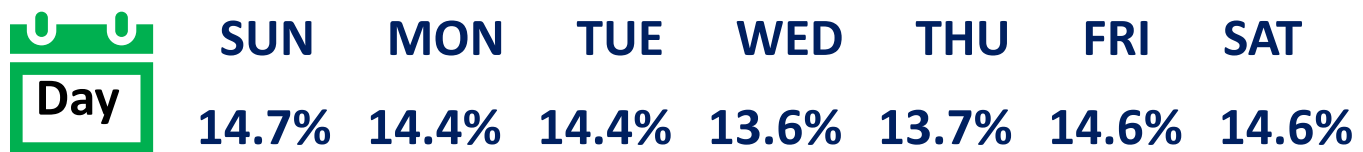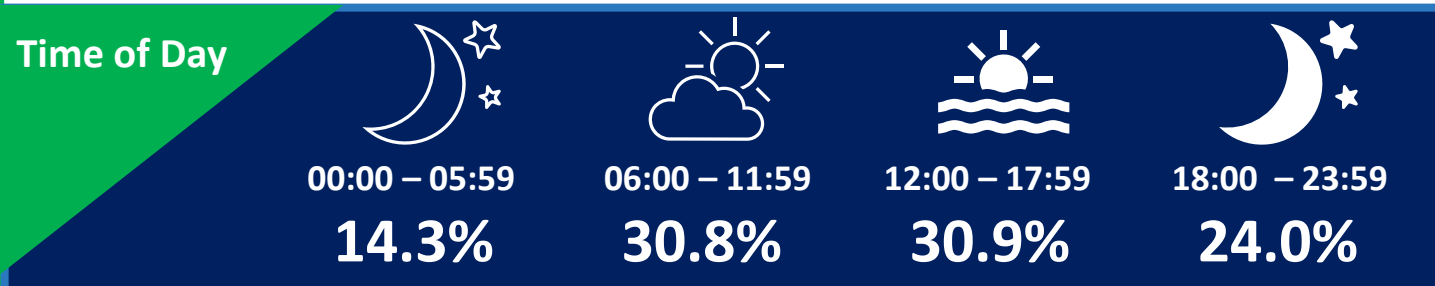
Median EMS Response time
7.2 mins

90th percentile time: **16.8** mins

Proportion of cases reached in 7 mins
48.2%
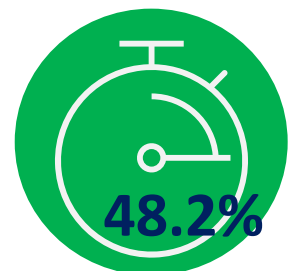
OHCAO CARDIAC ARREST OVERVIEW SECAMB 2021

Aetiology*

Presumed cardiac

89.8%

Trauma

3.1%

Overdose

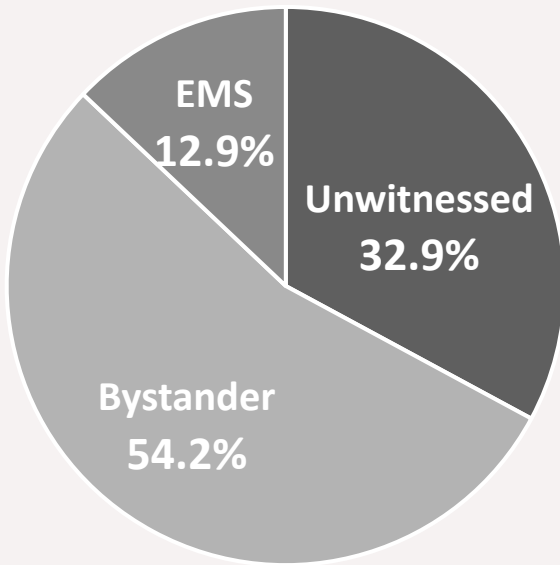1.6%
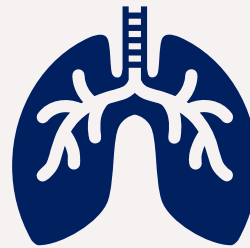
Asphyxia

4.3%

*Other/missing 1.2%

Initial Rhythm**

Asystole
46.7%

VF/VT
25.6%

PEA
19.7%
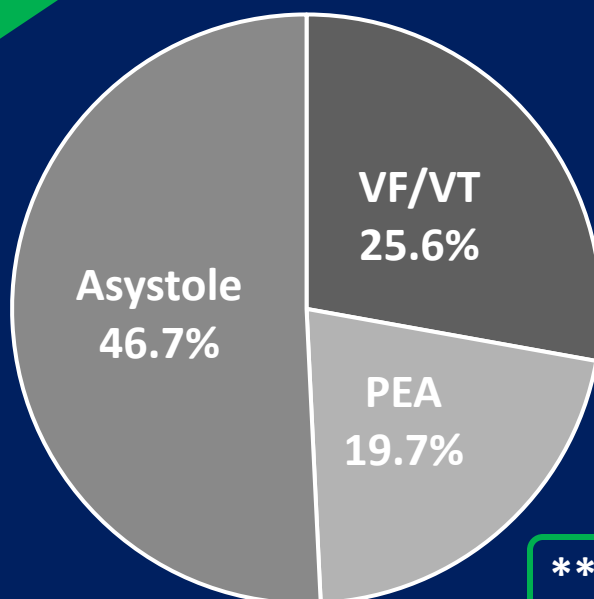
**Other/missing 8.0%

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Bystander Interventions

Who witnessed cardiac arrest?

- EMS 12.9%
- Unwitnessed 32.9%
- Bystander 54.2%

Bystander CPR rates:

- Unwitnessed cases: 75.6%
- *Non-EMS-witnessed cases: 78.4%
- Bystander-witnessed cases: 80.2%
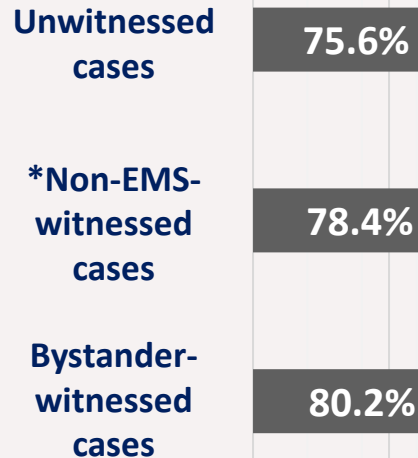
*Non-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use

All cases
6.6%

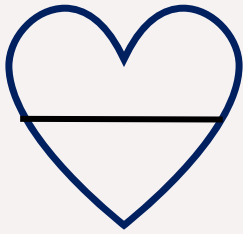**Bystander witnessed cases**
8.4%

Unwitnessed cases
6.3%

Defibrillator Heart Restarter

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

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Clinical Outcomes

Declared dead on scene

69.3%

Admitted with ongoing CPR

5.7%

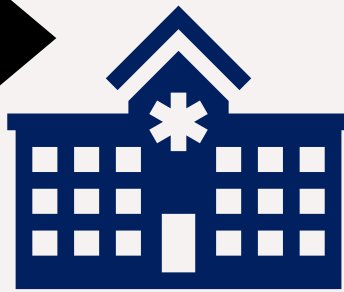**Admitted with ROSC**

25.0%

Admitted to hospital with ROSC

25.0%

Utstein[x]

46.1%

30-day Survival

10.3%

Utstein[x]

28.4%

Ambulance service personnel successful in restarting

687 hearts

281 lives saved

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

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Utstein Comparator Group[x] Flow Chart

RESUSCITATION ATTEMPTED
N = 2,774

NOT WITNESSED (INC. NOT RECORDED)
N = 912 (32.9%)

BYSTANDER WITNESSED
N = 1,503 (54.2%)

EMS WITNESSED
N = 359 (12.9%)

INITIAL RHYTHM VF/VT
N = 485 (33.4%)

OTHER RHYTHM
N = 967 (66.6%)

BYSTANDER CPR
N = 426 (87.8%)

BYSTANDER CPR
N = 737 (76.2%)

ROSC NOT ACHIEVED
N = 219 (45.2%)

ROSC AT ANY TIME
N = 266 (54.8%)

ROSC AT HOSPITAL HANDOVER
N = 222 (46.1%)

OUTCOME DATA
N = 472 (97.3%)

NO OUTCOME DATA
N = 13 (2.7%)

DIED WITHIN 30 DAYS
N = 109 (23.1%)

SURVIVED TO 30 DAYS
N = 134 (28.4%)

EFFORTS STOPPED ON SCENE
N = 229 (48.5%)

[x]Bystander witnessed, shockable rhythm