

OHCAO CARDIAC ARREST OVERVIEW

EMAS 2021

Demographics

8,560

OHCA calls attended



3,112

Patients treated by ambulance service personnel

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



62.6

Male
(Age adjusted)



87.7

Female
(Age adjusted)



40.3

Age of patients

Median Age
70.0yrs
Mean Age
66.2yrs

Age Distribution



1.1%

<15yrs



38.3%

15-64yrs



60.6%

65+yrs

Sex Distribution

66.4%

Median Age
69.0yrs
Mean Age
65.6yrs



33.6%

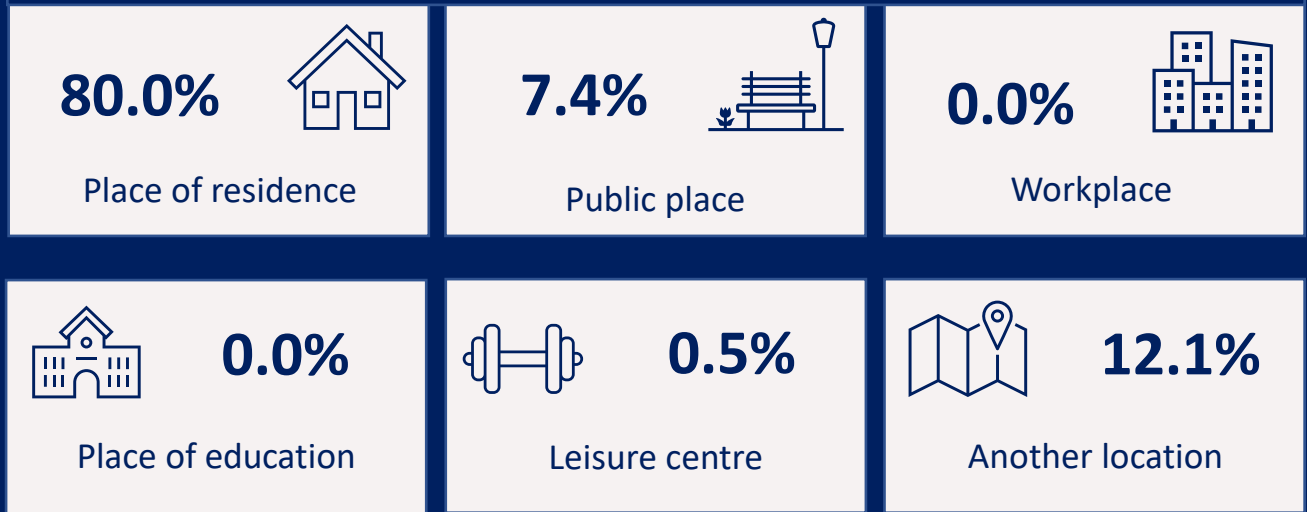
Median Age
71.0yrs
Mean Age
67.3yrs



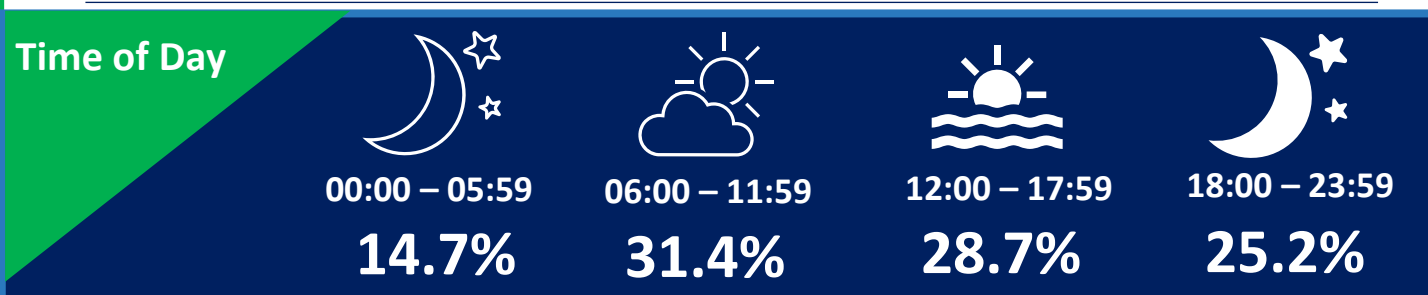
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Where did people have a cardiac arrest?



When did people have a cardiac arrest?



Median EMS
Response time



9.8 mins

90th
percentile time:
23.6
mins

Proportion of cases
reached in 7 mins



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Aetiology^{^*}

Presumed cardiac

85.6%



Trauma

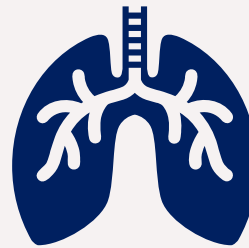
3.6%



Overdose



2.2%



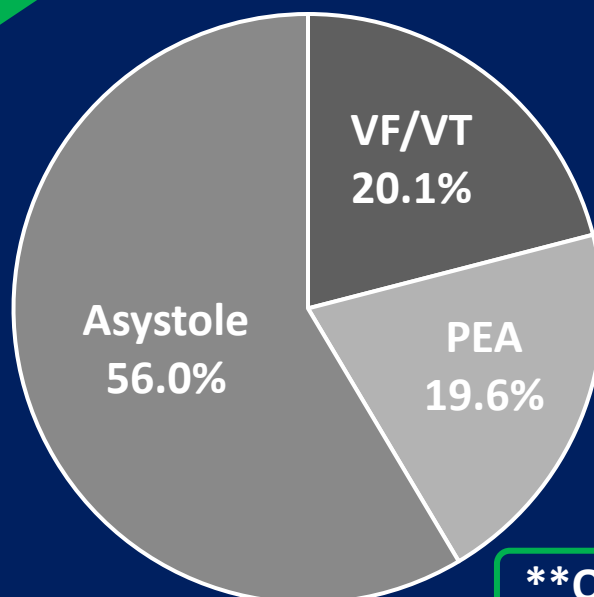
Asphyxia

3.7%

[^]National averages used as data missing

*Other/missing 4.9%

Initial Rhythm**

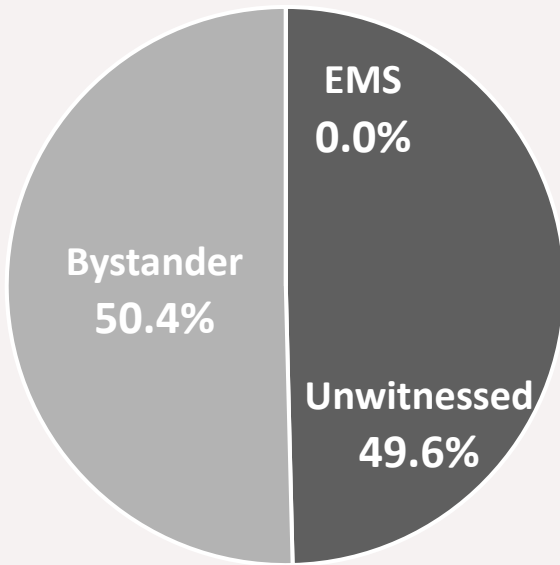


**Other/missing 4.3%

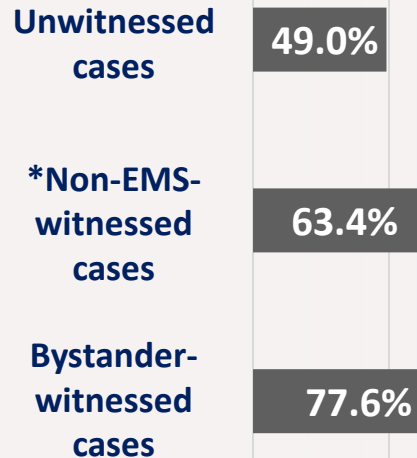
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Bystander Interventions

Who witnessed cardiac arrest?



Bystander CPR rates:



*Non-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use*

All cases
5.5%

Bystander witnessed cases
6.8%

Unwitnessed cases
5.5%



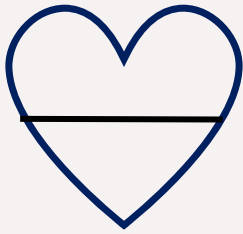
*national averages used as data missing

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Clinical Outcomes

Declared dead
on scene



58.4%

Admitted with
ongoing CPR



18.3%

Admitted
with ROSC



23.3%

Admitted to
hospital with
ROSC

23.3%

Utstein^x

44.4%



30-day
Survival

7.1%

Utstein^x

20.3%

Ambulance
service
personnel
successful in
restarting



lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

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Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 3,112

NOT WITNESSED (INC. NOT RECORDED)
N = 1,544 (49.6%)

BYSTANDER WITNESSED
N = 1,568 (50.4%)

EMS WITNESSED
N = 0 (0.0%)

INITIAL RHYTHM VF/VT
N = 412 (27.5%)

OTHER RHYTHM
N = 1,084 (72.5%)

BYSTANDER CPR
N = 343 (83.3%)

BYSTANDER CPR
N = 825 (76.1%)

ROSC NOT ACHIEVED
N = 188 (45.6%)

ROSC AT ANY TIME
N = 224 (54.4%)

ROSC AT HOSPITAL HANDOVER
N = 183 (44.4%)

OUTCOME DATA
N = 395 (95.9%)

NO OUTCOME DATA
N = 17 (4.1%)

DIED WITHIN 30 DAYS
N = 192 (48.6%)

SURVIVED TO 30 DAYS
N = 80 (20.3%)

EFFORTS STOPPED ON SCENE
N = 123 (31.1%)

^xBystander witnessed, shockable rhythm