

OHCAO CARDIAC ARREST OVERVIEW

WMAS 2021

Demographics

11,553

OHCA calls attended



3,698

Patients treated by ambulance service personnel



OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



63.7

Male
(Age adjusted)



88.8

Female
(Age adjusted)



41.2

Age of patients

Median Age
69.0yrs
Mean Age
65.8yrs

Age Distribution



1.3%

<15yrs



40.1%

15-64yrs



58.6%

65+yrs

Sex Distribution

65.2%

Median Age
67.0yrs
Mean Age
64.7yrs



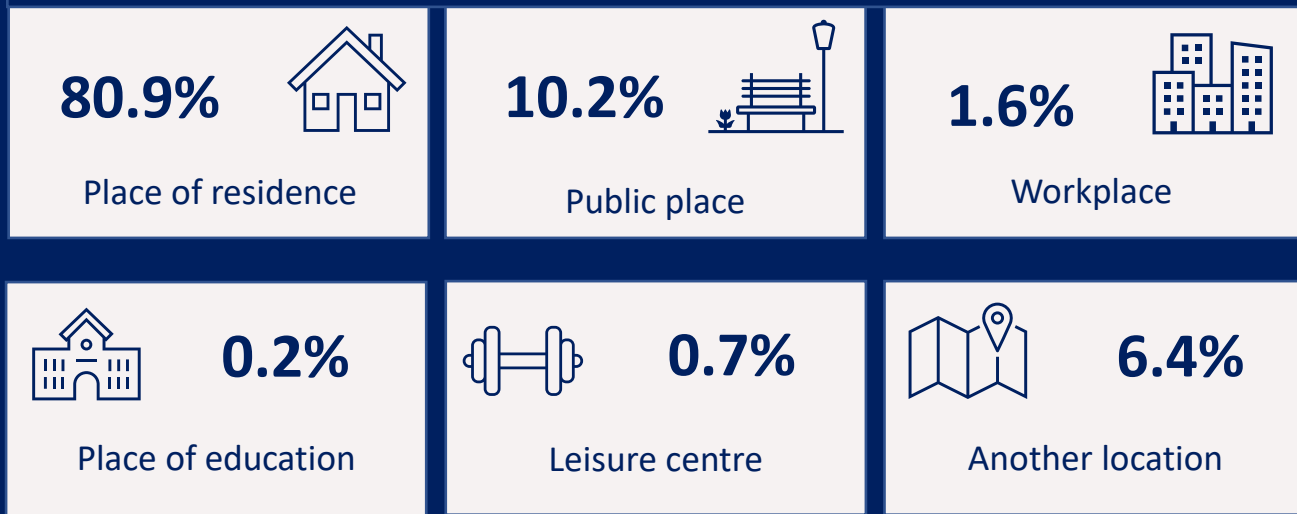
34.8%

Median Age
72.0yrs
Mean Age
68.0yrs



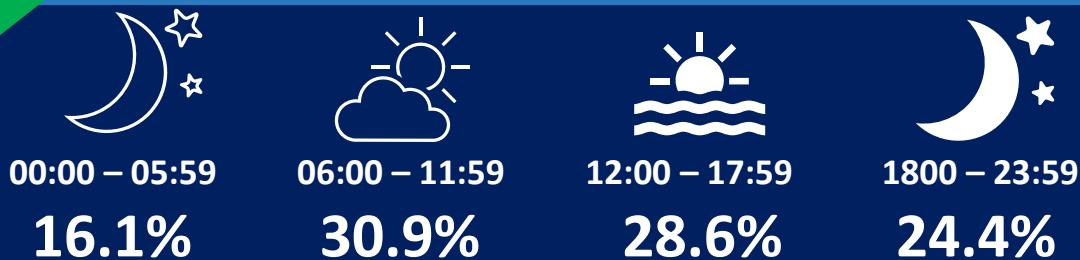
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Where did people have a cardiac arrest?



When did people have a cardiac arrest?

Time of Day



Median EMS Response time

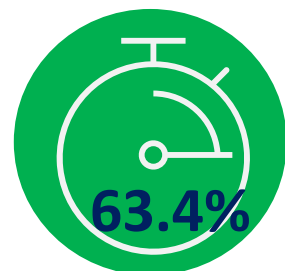


5.6 mins

90th
percentile time:

13.0
mins

Proportion of cases reached in 7 mins



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Aetiology*

Presumed cardiac

92.5%



Trauma

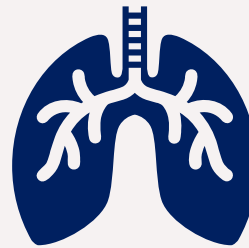
2.7%



Overdose



1.5%

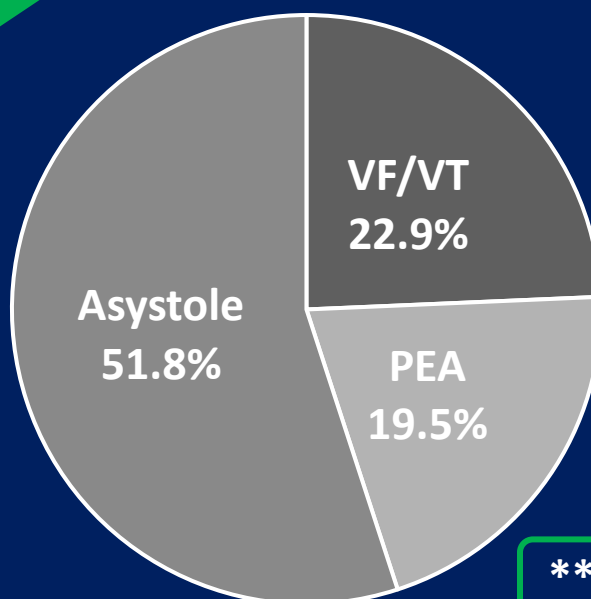


Asphyxia

2.9%

*Other/missing 0.4%

Initial Rhythm**

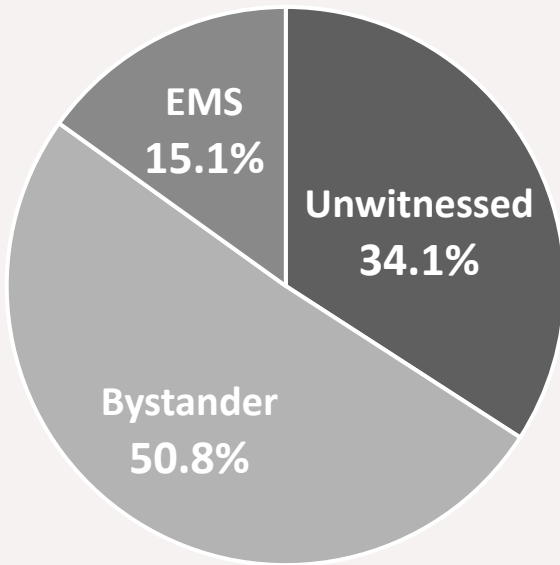


**Other/missing 5.8%

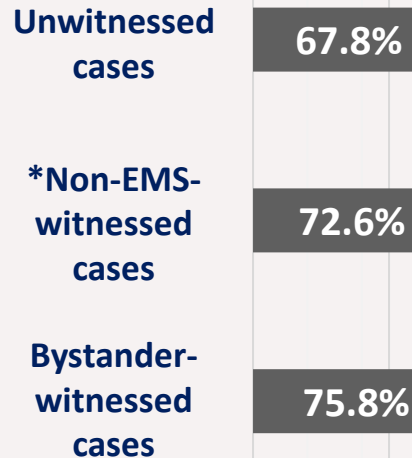
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Bystander Interventions

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
4.1%

Bystander witnessed cases
4.9%

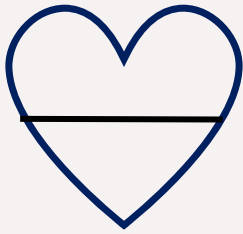
Unwitnessed cases
4.8%



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Clinical Outcomes

Declared dead
on scene



47.1%

Admitted with
ongoing CPR



28.8%

Admitted
with ROSC



24.1%

Admitted to
hospital with
ROSC

24.1%

Utstein^x

41.5%



30-day
Survival

7.9%

Utstein^x

23.1%

Ambulance
service
personnel
successful in
restarting

893
hearts

286

lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

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Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 3,698

NOT WITNESSED (INC. NOT RECORDED)
N = 1,262 (34.1%)

BYSTANDER WITNESSED
N = 1,878 (50.8%)

EMS WITNESSED
N = 558 (15.1%)

INITIAL RHYTHM VF/VT
N = 562 (31.5%)

OTHER RHYTHM
N = 1,222 (68.5%)

BYSTANDER CPR
N = 459 (81.7%)

BYSTANDER CPR
N = 894 (73.2%)

ROSC NOT ACHIEVED
N = 259 (46.1%)

ROSC AT ANY TIME
N = 303 (53.9%)

ROSC AT HOSPITAL HANDOVER
N = 233 (41.5%)

OUTCOME DATA
N = 536 (95.4%)

NO OUTCOME DATA
N = 26 (4.6%)

DIED WITHIN 30 DAYS
N = 293 (54.7%)

SURVIVED TO 30 DAYS
N = 124 (23.1%)

EFFORTS STOPPED ON SCENE
N = 119 (22.2%)

^xBystander witnessed, shockable rhythm