

OHCAO CARDIAC ARREST OVERVIEW LAS 2021

Demographics

12,946

OHCA calls attended



4,630

Patients treated
by ambulance
service personnel

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



71.2

Male
(Age adjusted)



100.3

Female
(Age adjusted)



46.2

Age of patients

Median Age
66.0yrs
Mean Age
63.6yrs

Age Distribution



1.7%

<15yrs



45.3%

15-64yrs



53.0%

65+yrs

Sex Distribution

65.3%

Median Age
63.0yrs
Mean Age
61.8yrs



34.7%

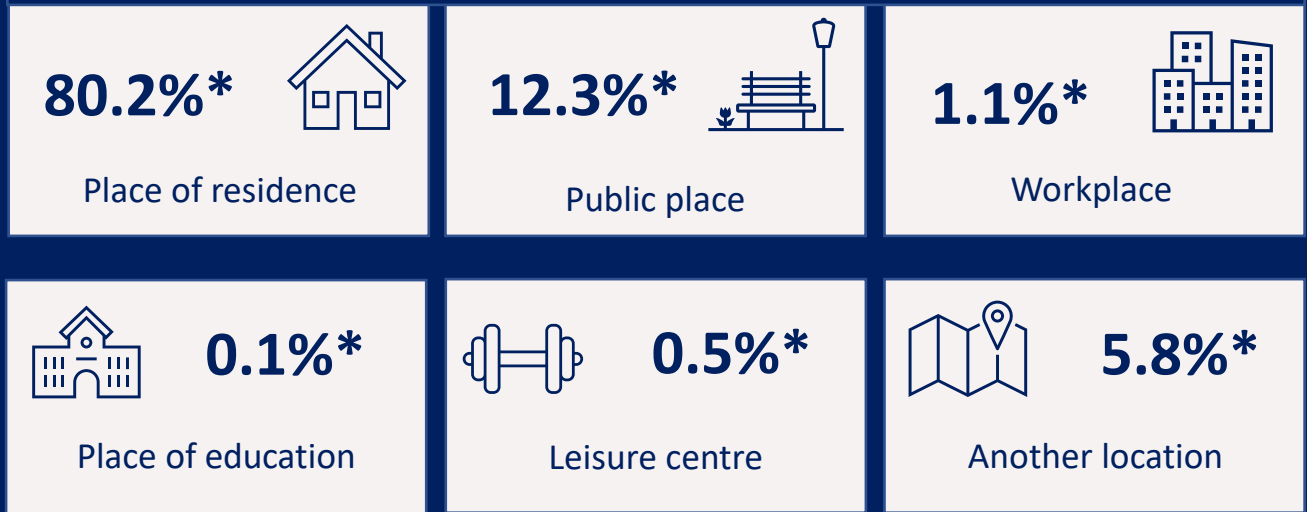


Median Age
71.0yrs
Mean Age
67.1yrs

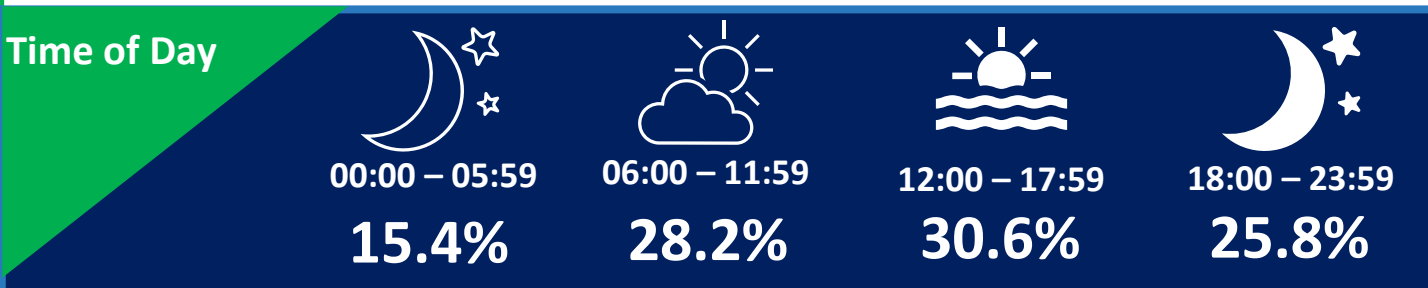
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**Regional data not available - national averages presented*

Where did people have a cardiac arrest?



When did people have a cardiac arrest?

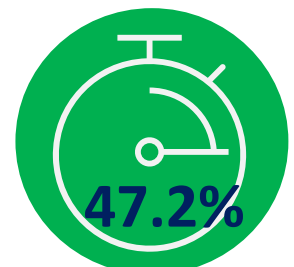


Median EMS
Response time



90th
percentile time:
17.1
mins

Proportion of cases
reached in 7 mins



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Aetiology*

Presumed cardiac

72.7%



Trauma

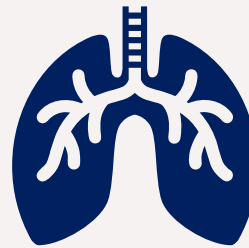
4.0%



Overdose



2.6%

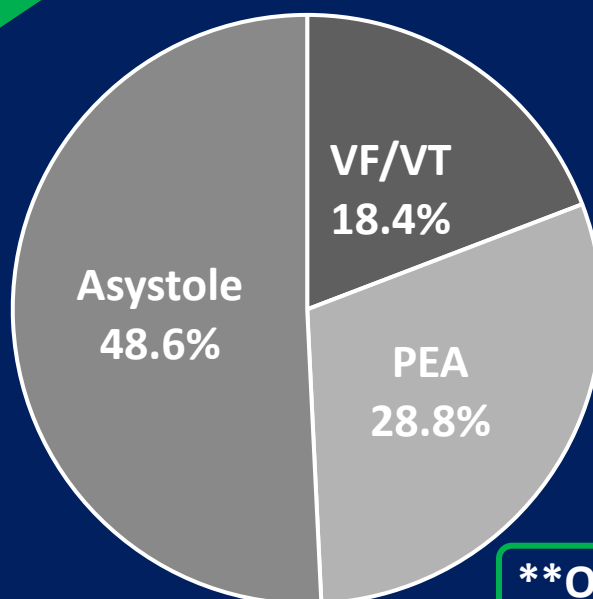


Asphyxia

4.7%

*Other/missing 16%

Initial Rhythm**

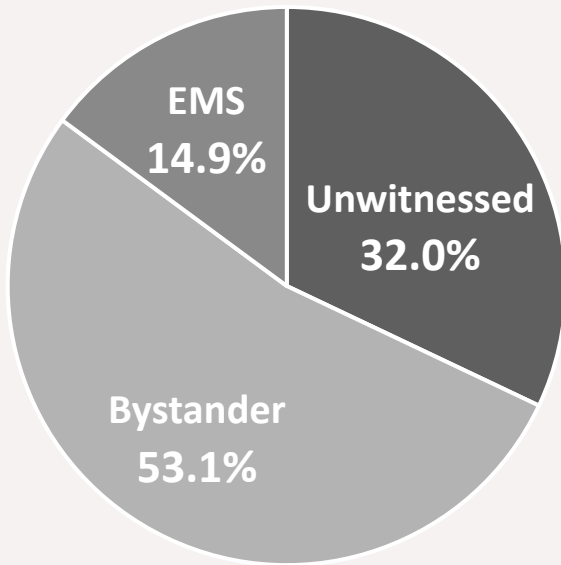


**Other/missing 4.2%

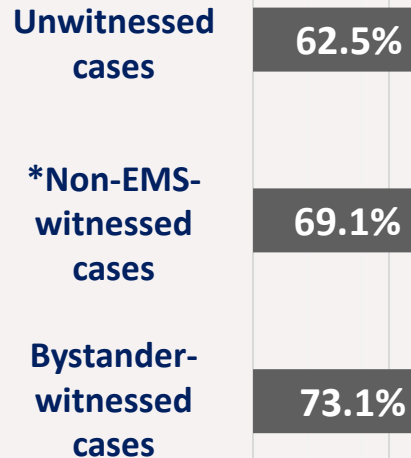
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Bystander Interventions

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
4.8%

Bystander witnessed cases
5.9%

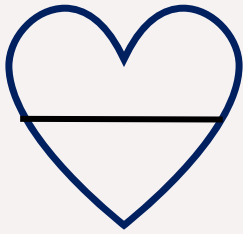
Unwitnessed cases
5.1%



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Clinical Outcomes

Declared dead
on scene



60.7%

Admitted with
ongoing CPR



12.3%

Admitted
with ROSC



27.0%

Admitted to
hospital with
ROSC

27.0%

Utstein^x

44.1%



30-day
Survival

8.7%

Utstein^x

26.9%

Ambulance
service
personnel
successful in
restarting

1,248
hearts

391

lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

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Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 4,630

**NOT WITNESSED (INC.
NOT RECORDED)**
N = 1,484 (32.0%)

**BYSTANDER
WITNESSED**
N = 2,457 (53.1%)

EMS WITNESSED
N = 689 (14.9%)

INITIAL RHYTHM VF/VT
N = 585 (24.5%)

OTHER RHYTHM
N = 1,802 (75.5%)

BYSTANDER CPR
N = 463 (79.2%)

BYSTANDER CPR
N = 1,282 (71.1%)

**ROSC NOT
ACHIEVED**
N = 231 (39.5%)

ROSC AT ANY TIME
N = 354 (60.5%)

ROSC AT HOSPITAL HANDOVER
N = 258 (44.1%)

OUTCOME DATA
N = 565 (96.6%)

NO OUTCOME DATA
N = 20 (3.4%)

**DIED WITHIN 30
DAYS**
N = 159 (28.1%)

**SURVIVED TO 30
DAYS**
N = 152 (26.9%)

**EFFORTS STOPPED
ON SCENE**
N = 254 (45.0%)

^xBystander witnessed, shockable rhythm