

OHCAO CARDIAC ARREST OVERVIEW NWS 2021

Demographics

12,447

OHCA calls attended



3,506

Patients treated
by ambulance
service personnel

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



46.9

Male
(Age adjusted)



67.4

Female
(Age adjusted)



29.0

Age of patients

Median Age
68.0yrs
Mean Age
64.8yrs

Age Distribution



1.5%

<15yrs



41.7%

15-64yrs



56.8%

65+yrs

Sex Distribution

67.6%

Median Age
67.0yrs
Mean Age
64.5yrs



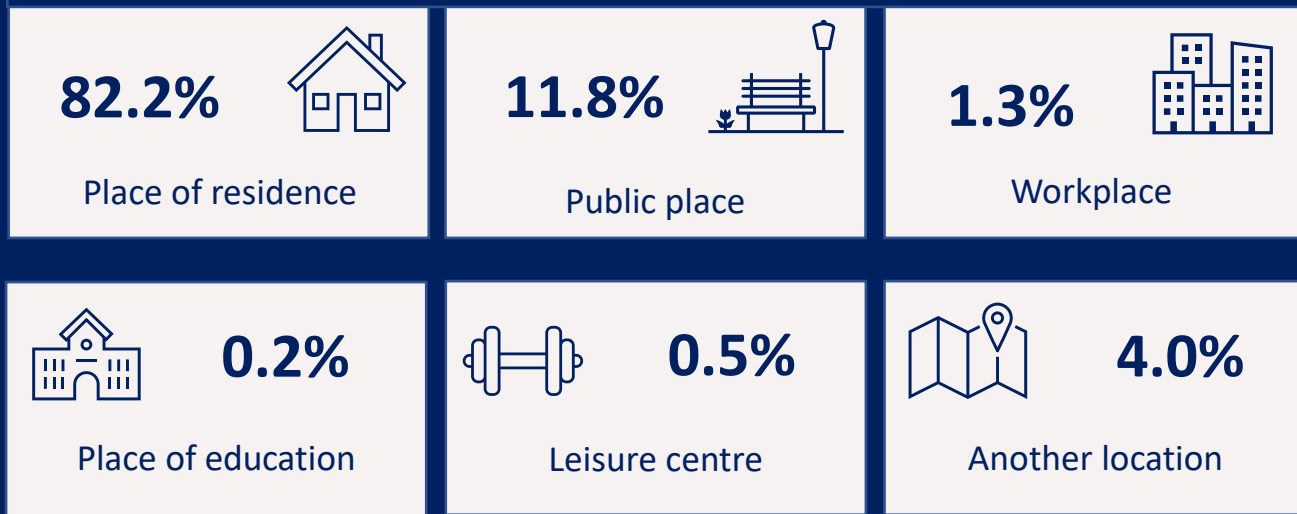
32.4%



Median Age
69.0yrs
Mean Age
65.5yrs

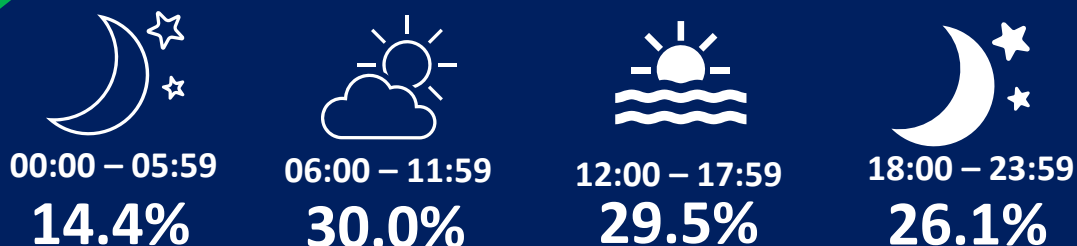
OHCAO CARDIAC ARREST OVERVIEW NWS 2021

Where did people have a cardiac arrest?



When did people have a cardiac arrest?

Time of Day



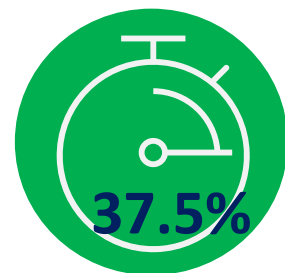
Median EMS Response time



9.0 mins

90th
percentile time:
19.0
mins

Proportion of cases reached in 7 mins



OHCAO CARDIAC ARREST OVERVIEW NWS 2021

Aetiology*

Presumed cardiac

77.5%



Trauma

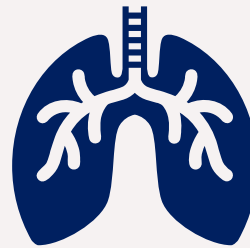
3.9%



Overdose



2.9%

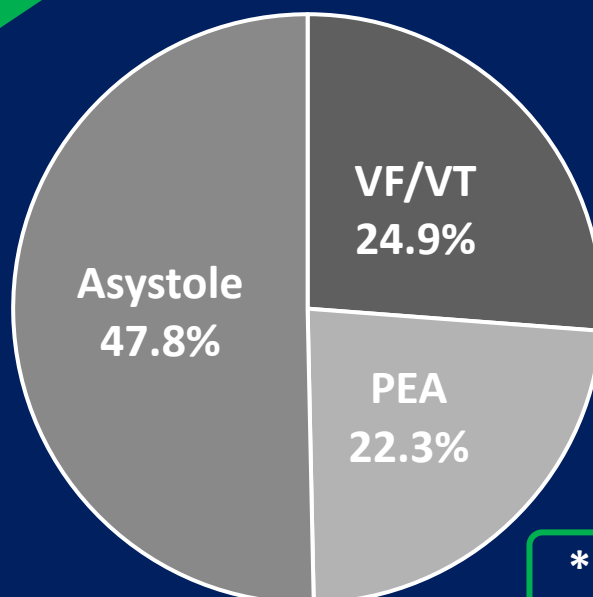


Asphyxia

3.0%

*Other/missing 12.7%

Initial Rhythm**

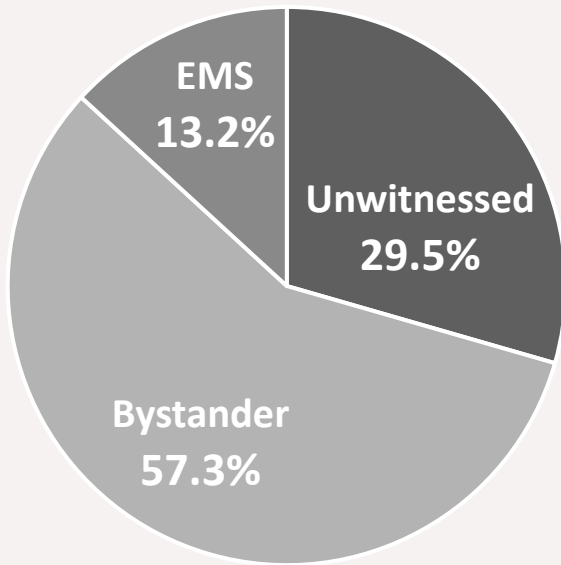


**Other/missing 5%

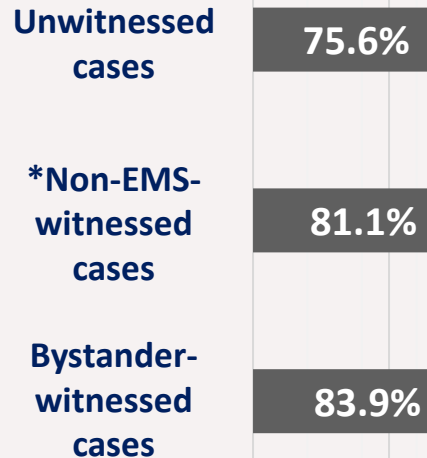
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Bystander Interventions

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
7.0%

Bystander witnessed cases
8.3%

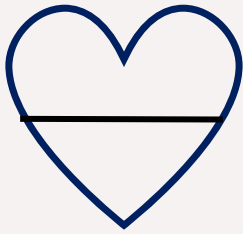
Unwitnessed cases
7.6%



OHCAO CARDIAC ARREST OVERVIEW NWSAS 2021

Clinical Outcomes

Declared dead
on scene



36.7%

Admitted with
ongoing CPR



34.4%

Admitted
with ROSC



28.9%

Admitted to
hospital with
ROSC

28.9%

Utstein^x

48.0%



30-day
Survival

8.2%

Utstein^x

26.1%

Ambulance
service
personnel
successful in
restarting

1,013
hearts

279

lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

OHCAO CARDIAC ARREST OVERVIEW NWSAS 2021

Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 3,506

NOT WITNESSED (INC. NOT RECORDED)
N = 1,033 (29.5%)

BYSTANDER WITNESSED
N = 2,011 (57.3%)

EMS WITNESSED
N = 462 (13.2%)

INITIAL RHYTHM VF/VT
N = 602 (30.1%)

OTHER RHYTHM
N = 1,401 (69.9%)

BYSTANDER CPR
N = 549 (91.2%)

BYSTANDER CPR
N = 1,132 (80.8%)

ROSC NOT ACHIEVED
N = 263 (43.7%)

ROSC AT ANY TIME
N = 339 (56.3%)

ROSC AT HOSPITAL HANDOVER
N = 289 (48.0%)

OUTCOME DATA
N = 567 (94.2%)

NO OUTCOME DATA
N = 35 (5.8%)

DIED WITHIN 30 DAYS
N = 336 (59.3%)

SURVIVED TO 30 DAYS
N = 148 (26.1%)

EFFORTS STOPPED ON SCENE
N = 83 (14.6%)

^xBystander witnessed, shockable rhythm