

OHCAO CARDIAC ARREST OVERVIEW IOWAS 2021

Demographics

302

OHCA calls attended



126

Patients treated
by ambulance
service personnel



OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



69.2

Male
(Age adjusted)



93.8

Female
(Age adjusted)



49.6

Age of patients

Median Age
74.5yrs
Mean Age
69.3yrs

Age Distribution



2.4%

<15yrs



26.2%

15-64yrs



71.4%

65+yrs

Sex Distribution

61.9%

Median Age
74.5yrs
Mean Age
69.8yrs



38.1%

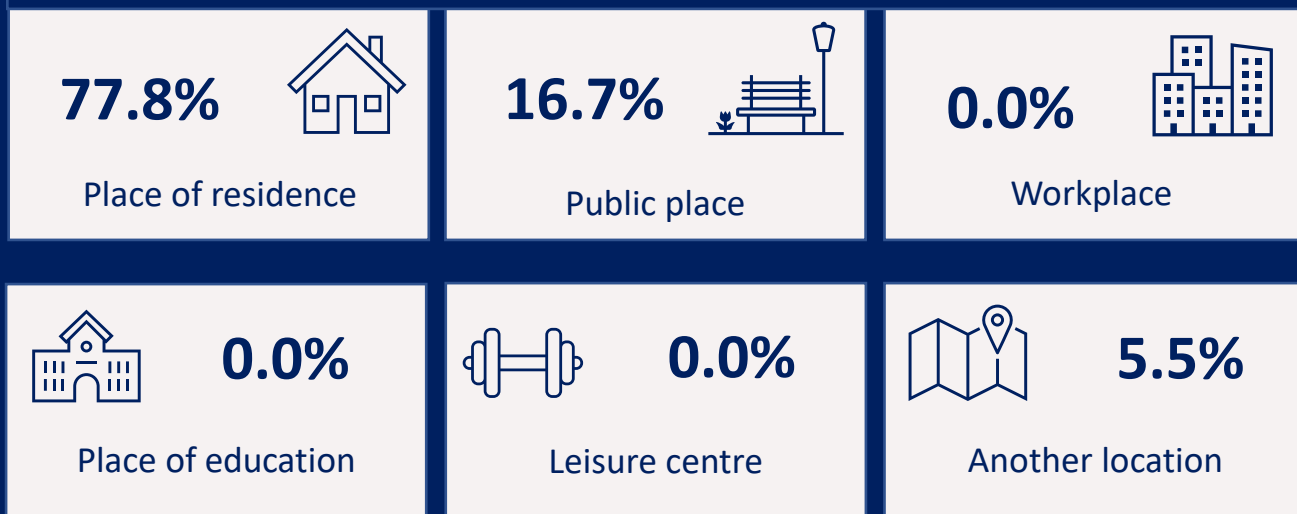


Median Age
74.5yrs
Mean Age
68.5yrs

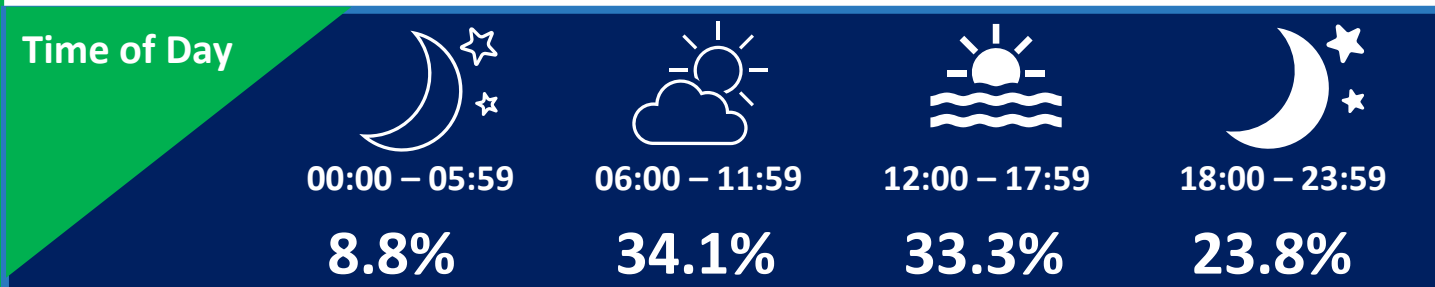
OHCAO CARDIAC ARREST OVERVIEW

IOWAS 2021

Where did people have a cardiac arrest?



When did people have a cardiac arrest?

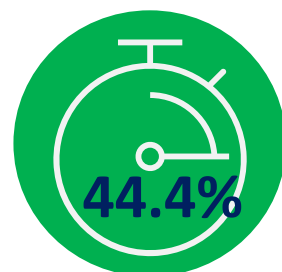


Median EMS
Response time



90th
percentile time:
18.2
mins

Proportion of cases
reached in 7 mins



OHCAO CARDIAC ARREST OVERVIEW IOWAS 2021

Aetiology*

Presumed cardiac

86.5%



Trauma

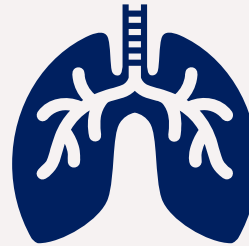
3.2%



Overdose



3.2%

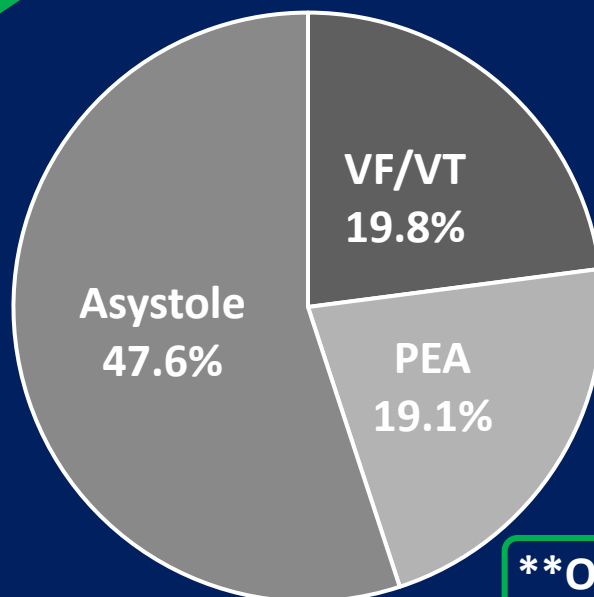


Asphyxia

6.4%

*Other/missing 0.7%

Initial Rhythm**

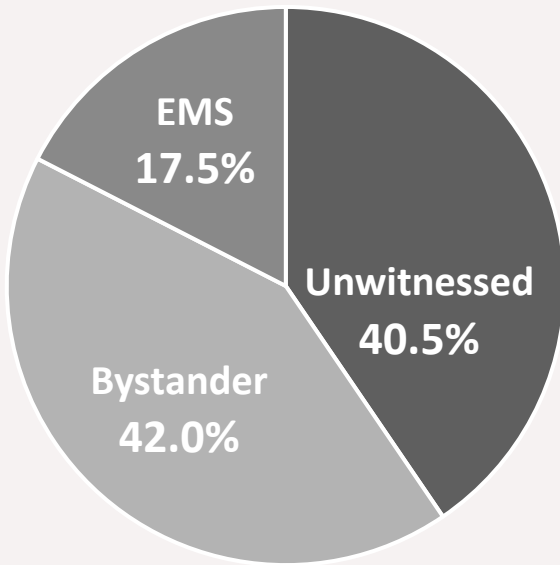


**Other/missing 13.5%

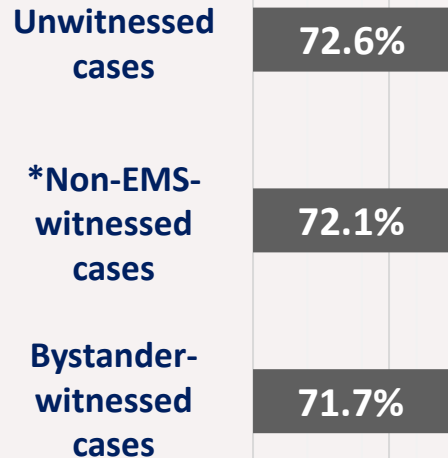
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Bystander Interventions

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
9.5%

Bystander witnessed cases
15.1%

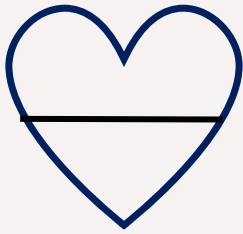
Unwitnessed cases
7.8%



OHCAO CARDIAC ARREST OVERVIEW IOWAS 2021

Clinical Outcomes

Declared dead
on scene



53.6%

Admitted with
ongoing CPR



26.4%

Admitted
with ROSC



20.0%

Admitted to
hospital with
ROSC

20.0%

Utstein^x

18.2%



30-day
Survival

8.9%

Utstein^x

10.0%

Ambulance
service
personnel
successful in
restarting



lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

OHCAO CARDIAC ARREST OVERVIEW IOWAS 2021

Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 126

NOT WITNESSED (INC. NOT RECORDED)
N = 51 (40.5%)

BYSTANDER WITNESSED
N = 53 (42.1%)

EMS WITNESSED
N = 22 (17.4%)

INITIAL RHYTHM VF/VT
N = 11 (20.8%)

OTHER RHYTHM
N = 42 (79.2%)

BYSTANDER CPR
N = 8 (72.7%)

BYSTANDER CPR
N = 30 (71.4%)

ROSC NOT ACHIEVED
N = 7 (63.6%)

ROSC AT ANY TIME
N = 4 (36.4%)

ROSC AT HOSPITAL HANDOVER
N = 2 (18.2%)

OUTCOME DATA
N = 10 (90.9%)

NO OUTCOME DATA
N = 1 (9.1%)

DIED WITHIN 30 DAYS
N = 5 (50.0%)

SURVIVED TO 30 DAYS
N = 1 (10.0%)

EFFORTS STOPPED ON SCENE
N = 4 (40.0%)

^xBystander witnessed, shockable rhythm