

OHCAO CARDIAC ARREST OVERVIEW EAST 2020

Demographics

10,941

OHCA calls attended



3,570

Patients treated
by ambulance
service clinicians

OHCA incidence (per 100,000)

All cases
(Age/gender adjusted)



53.9

Males
(Age adjusted)



76.8

Females
(Age adjusted)



34.0

Age of cases

Median Age
70.9yrs
Mean Age
66.9yrs

Age Distribution



1.8%

<15yrs



36.3%

15-64yrs



61.9%

65+yrs

Sex Distribution

66.6%

Median Age
70.3yrs
Mean Age
66.4yrs



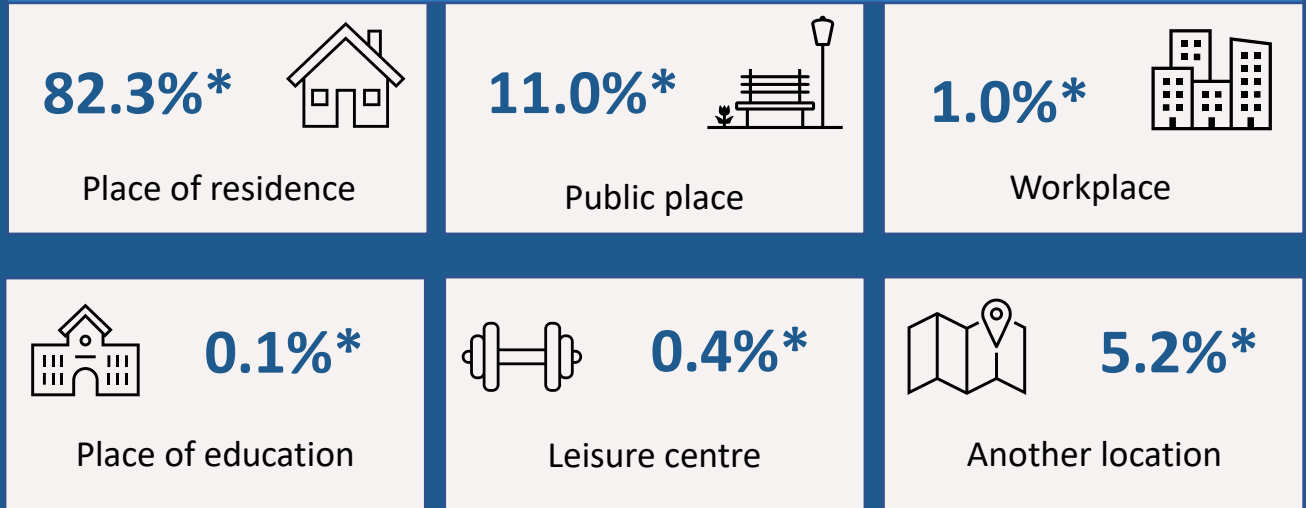
33.4%



Median Age
72.0yrs
Mean Age
68.1yrs

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Where did people have a cardiac arrest?



Time of Day



00:00 – 05:59

14.2%*



06:00 – 11:59

31.0%*



12:00 – 17:59

29.8%*



18:00 – 23:59

25.0%*



Day	SUN	MON	TUE	WED	THU	FRI	SAT
	15.4%	14.3%	13.4%	13.8%	14.3%	13.9%	14.9%

Median EMS
Response time

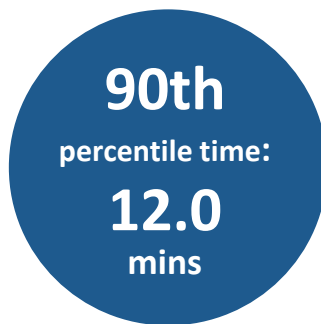
5.0 mins



*national averages used

90th
percentile time:

12.0 mins



Proportion of cases
reached in 7 mins

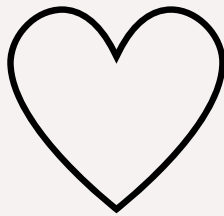
69.2%

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Aetiology

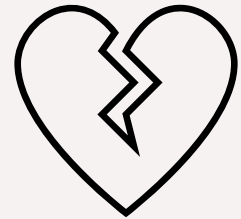
Presumed cardiac

88.6%



Trauma

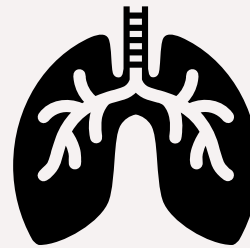
4.3%



Overdose



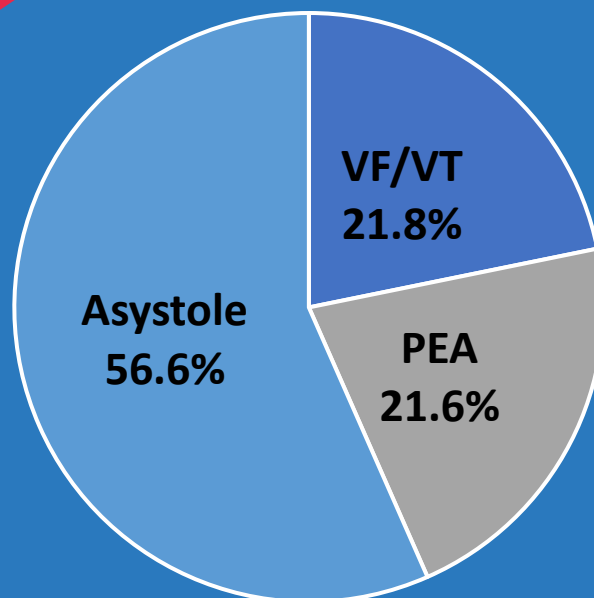
0.7%



Asphyxia

3.9%

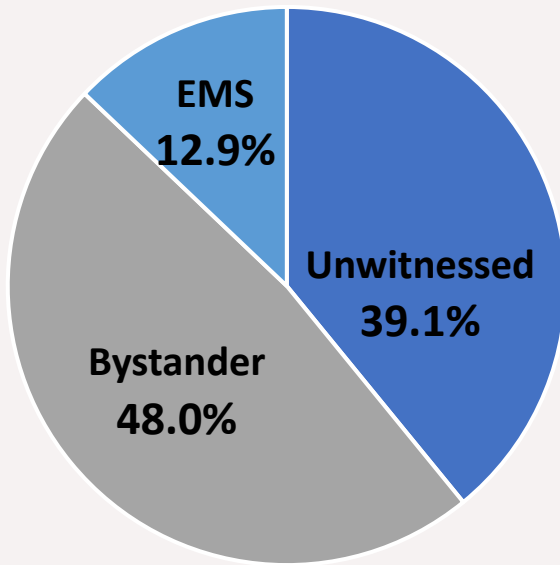
Initial Rhythm



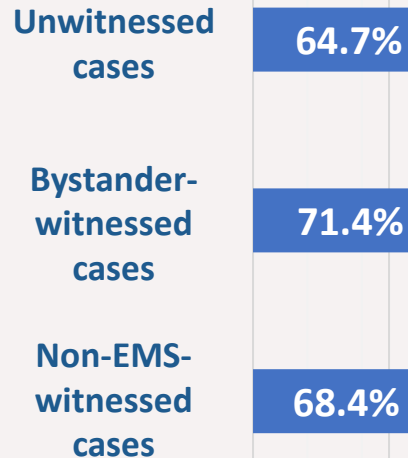
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Bystander Interventions

Who witnessed cardiac arrest?



Bystander CPR rates:

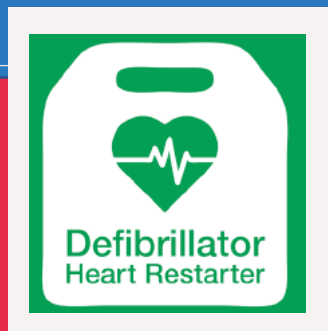


*Non-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use

All cases
1.4%

Bystander witnessed cases
2.3%

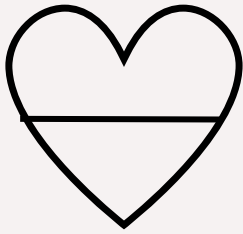


Unwitnessed cases
0.9%

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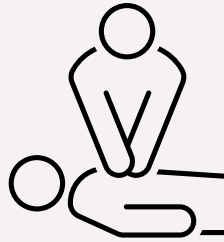
Clinical Outcomes

Declared dead
on scene



63.0%

Admitted with
ongoing CPR



12.6%

Admitted
with ROSC



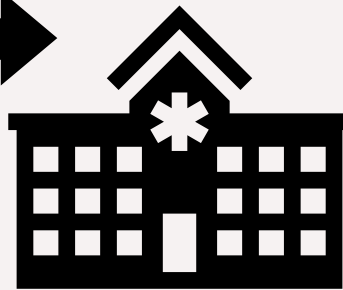
24.4%

Admitted to
hospital with
ROSC

24.4%

UCG^x

53.8%



Survived to
discharge

7.8%

UCG^x

30.2%

Paramedics
successful in
restarting

870
hearts

274

lives saved

^xUtstein Comparator Group: bystander witnessed, shockable rhythm

OHCAO CARDIAC ARREST OVERVIEW EAST 2020

Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 3,570

NOT WITNESSED (INC.
NOT RECORDED)
N = 1,397 (39.1%)

BYSTANDER
WITNESSED
N = 1,714 (48.0%)

EMS WITNESSED
N = 459 (12.9%)

INITIAL RHYTHM VF/VT
N = 493 (28.8%)

OTHER RHYTHM
N = 1,221 (71.2%)

BYSTANDER CPR
N = 381 (77.3%)

BYSTANDER CPR
N = 843 (69.0%)

ROSC NOT
ACHIEVED
N = 164 (33.3%)

ROSC AT ANY TIME
N = 329 (66.7%)

ROSC AT HOSPITAL HANDOVER
N = 265 (53.8%)

OUTCOME DATA
N = 477 (96.8%)

NO OUTCOME DATA
N = 16 (3.2%)

DIED IN HOSPITAL
N = 174 (36.5%)

SURVIVED TO
DISCHARGE
N = 144 (30.2%)

EFFORTS STOPPED
ON SCENE
N = 159 (33.3%)

^xBystander witnessed, shockable rhythm