

# OHCAO CARDIAC ARREST OVERVIEW

## NEAS 2020

The majority of the results presented are the national averages as NEAS did not submit data to OHCAO

### Demographics

**5,522\***

OHCA calls attended



**2,125\***

Patients treated by ambulance service clinicians

### OHCA incidence (per 100,000)

All cases  
(Age/gender adjusted)



**53.4**

Males  
(Age adjusted)



**74.9**

Females  
(Age adjusted)



**33.9**

### Age of cases

Median Age  
**69.5yrs**  
Mean Age  
**65.9yrs**

### Age Distribution



**1.6%**

<15yrs



**39.5%**

15-64yrs



**58.8%**

65+yrs

### Sex Distribution

**66.0%**

Median Age  
**68.4yrs**  
Mean Age  
**65.2yrs**



**34.0%**



Median Age  
**71.6yrs**  
Mean Age  
**67.4yrs**

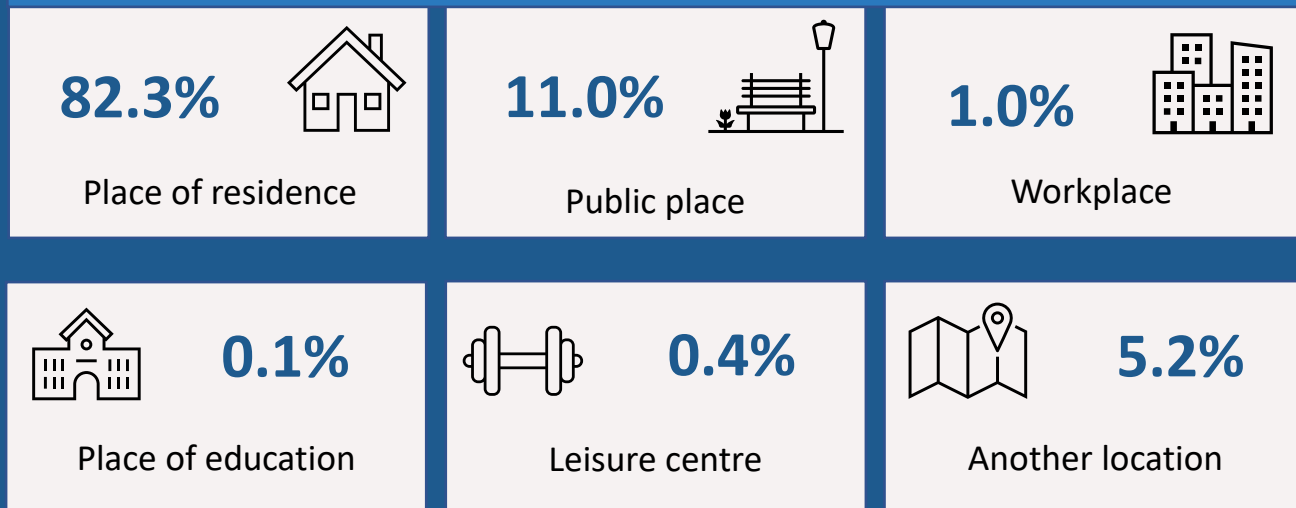
\*NEAS values supplied to OHCAO

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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
14.6%	14.7%	13.7%	14.2%	14.1%	14.2%	14.5%

Median EMS  
Response time

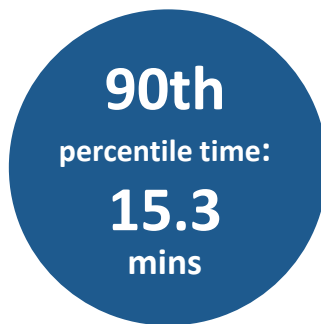
**6.6 mins**



**90th**

percentile time:

**15.3 mins**



Proportion of cases  
reached in 7 mins

**53.8%**

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### Aetiology

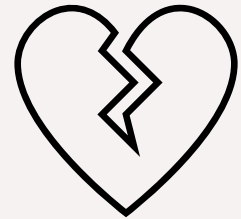
Medical / presumed cardiac

84.9%



Trauma

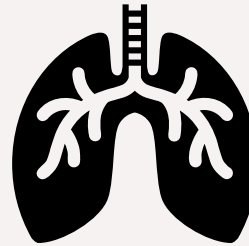
3.5%



Overdose



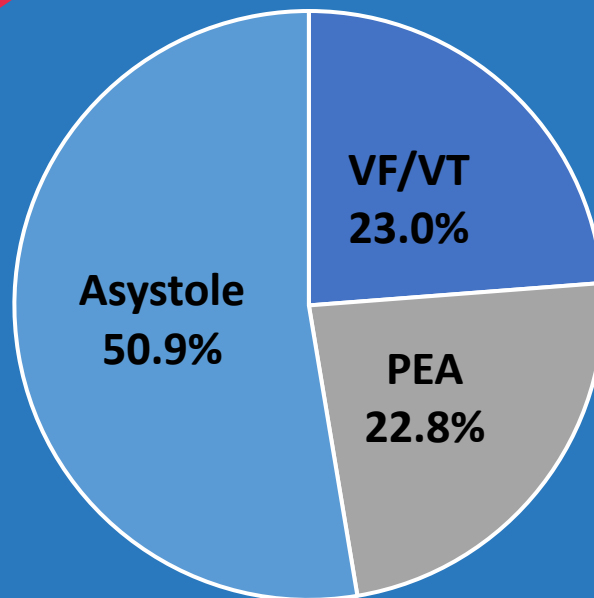
2.0%



Asphyxia

3.4%

### Initial Rhythm



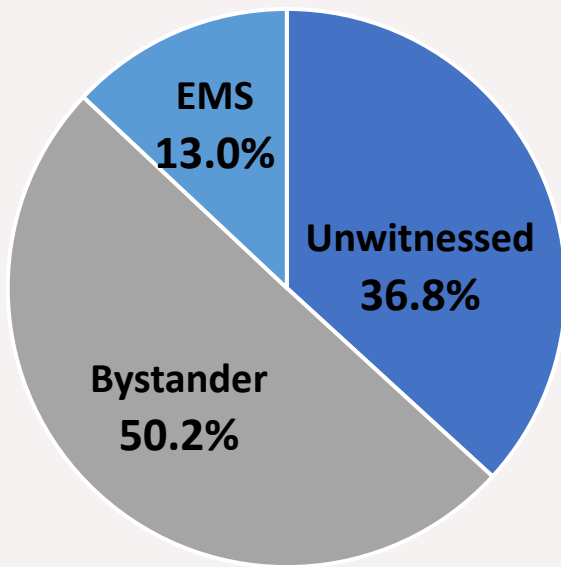
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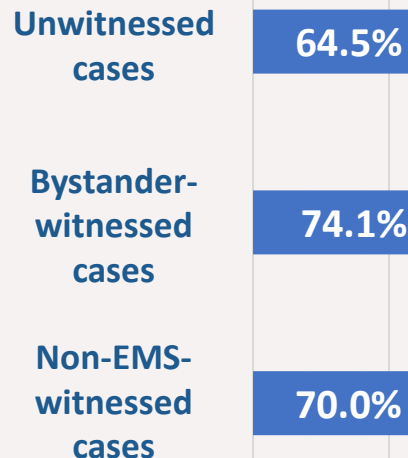
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### Bystander Interventions

#### Who witnessed cardiac arrest?



#### Bystander CPR rates:

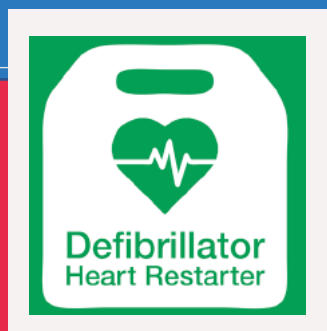


\*Non-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

### Public Access Defibrillator use

All cases  
**4.4%**

Bystander witnessed cases  
**5.4%**



Unwitnessed cases  
**4.6%**

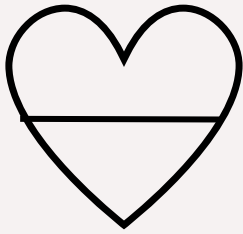
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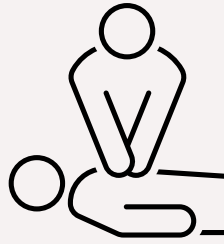
### Clinical Outcomes

Declared dead  
on scene



**54.7%**

Admitted with  
ongoing CPR



**19.4%**

Admitted  
with ROSC



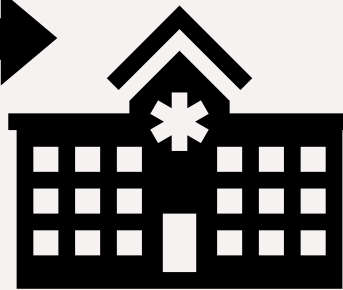
**25.9%**

Admitted to  
hospital with  
ROSC

**25.4%\***

UCG<sup>x</sup>

**47.9%**



Survived to  
discharge

**5.2%\***

UCG<sup>x</sup>

**27.8%**

Paramedics  
successful in  
restarting

**539\***  
hearts

**106\***

lives saved

\*NEAS values supplied to OHCAO

\*Utstein Comparator Group: bystander witnessed, shockable rhythm

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### Utstein Comparator Group<sup>x</sup> Flow Chart

**RESUSCITATION ATTEMPTED**  
N = 2,125

**NOT WITNESSED (INC. NOT RECORDED)**  
N = - (36.8%)

**BYSTANDER WITNESSED**  
N = - (50.2%)

**EMS WITNESSED**  
N = - (13.0%)

**INITIAL RHYTHM VF/VT**  
N = - (30.5%)

**OTHER RHYTHM**  
N = - (69.5%)

**BYSTANDER CPR**  
N = - (80.7%)

**BYSTANDER CPR**  
N = - (71.4%)

**ROSC NOT ACHIEVED**  
N = - (42.2%)

**ROSC AT ANY TIME**  
N = - (57.8%)

**ROSC AT HOSPITAL HANDOVER**  
N = - (47.9%)

**OUTCOME DATA**  
N = - (94.9%)

**NO OUTCOME DATA**  
N = - (5.1%)

**DIED IN HOSPITAL**  
N = - (42.2%)

**SURVIVED TO DISCHARGE**  
N = - (25.3%)

**EFFORTS STOPPED ON SCENE**  
N = - (32.5%)

<sup>x</sup>Bystander witnessed, shockable rhythm