

Out-of-Hospital Cardiac Arrest Overview: England 2020

Analysis based on 10 of 11 English Ambulance Services, unless indicated otherwise by **

Demographics

93,920**

OHCA calls attended



31,698**

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



58.9%

65+yrs

Sex Distribution

66.0%

Median Age
68.4yrs
Mean Age
65.2yrs



34.0%



Median Age
71.6yrs
Mean Age
67.4yrs

**inclusive of data from all 11 English Ambulance Services

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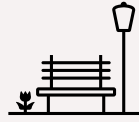
Where did people have a cardiac arrest?

82.3%



Place of residence

11.0%



Public place

1.0%



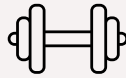
Workplace

0.1%



Place of education

0.4%



Leisure centre

5.2%



Another location

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

14.6%

MON

14.7%

TUE

13.7%

WED

14.2%

THU

14.1%

FRI

14.2%

SAT

14.5%

Median EMS Response time

6.6 mins

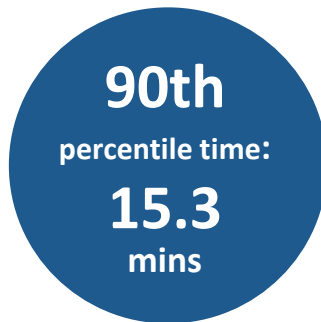


90th

percentile time:

15.3

mins



7 mins

Proportion of cases reached in 7 mins

53.8%



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Aetiology

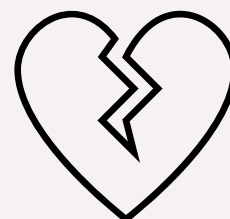
Medical / presumed
cardiac

84.9%



Trauma

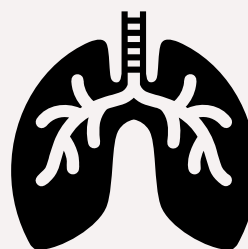
3.5%



Overdose



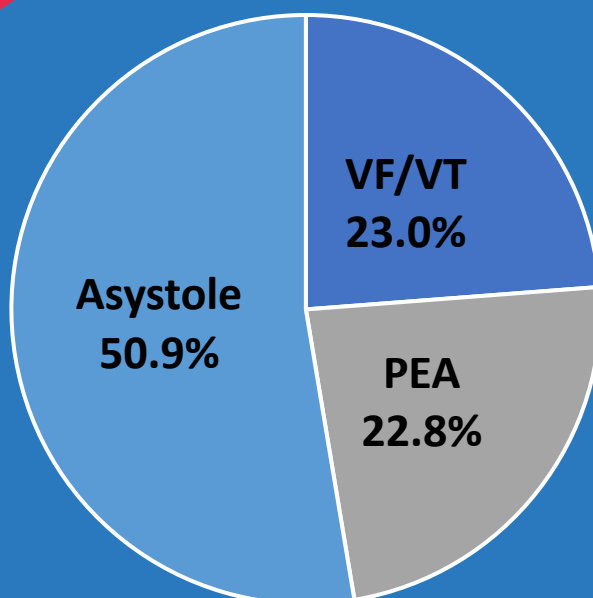
2.0%



Asphyxia

3.4%

Initial Rhythm

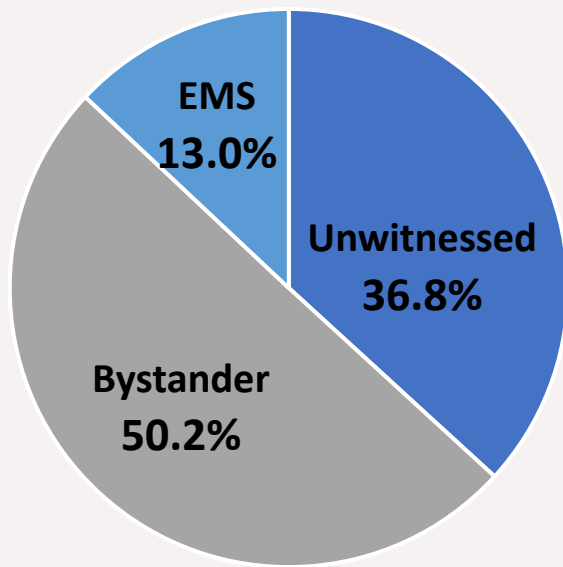


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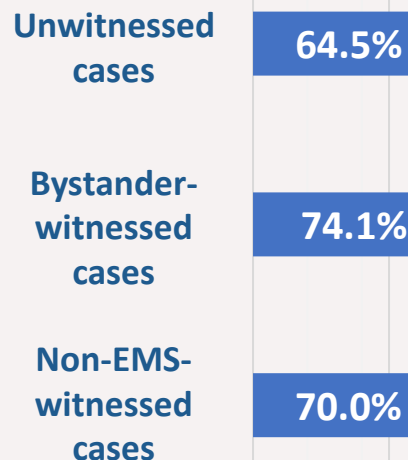
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Bystander Interventions

Who witnessed cardiac arrest?



Bystander CPR rates:

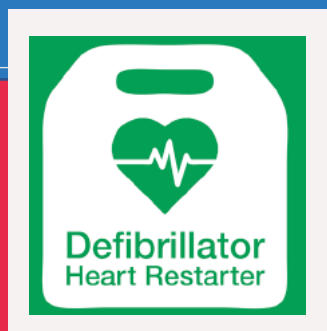


*Non-EMS-witnessed cases is the combination of unwitnessed and bystander-witnessed cases

Public Access Defibrillator use

All cases
4.4%

Bystander witnessed cases
5.4%



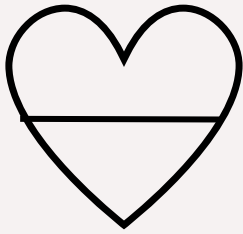
Unwitnessed cases
4.6%

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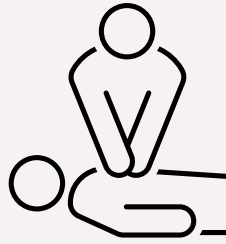
Clinical Outcomes

Declared dead
on scene



54.7%

Admitted with
ongoing CPR



19.4%

Admitted
with ROSC



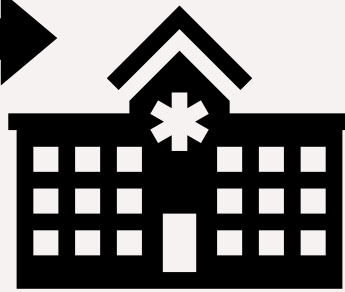
25.9%

Admitted to
hospital with
ROSC

25.9%

UCG^x

47.9%



Survived to
discharge

8.3%

UCG^x

25.3%

Paramedics
successful in
restarting

8,185**
hearts

2,497** lives saved

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^xUtstein Comparator Group: bystander witnessed, shockable rhythm

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Utstein Comparator Group^x Flow Chart

RESUSCITATION ATTEMPTED
N = 29,573

NOT WITNESSED (INC. NOT RECORDED)
N = 10,881 (36.8%)

BYSTANDER WITNESSED
N = 14,850 (50.2%)

EMS WITNESSED
N = 3,842 (13.0%)

INITIAL RHYTHM VF/VT
N = 4,426 (30.5%)

OTHER RHYTHM
N = 10,099 (69.5%)

BYSTANDER CPR
N = 3,572 (80.7%)

BYSTANDER CPR
N = 7,209 (71.4%)

ROSC NOT ACHIEVED
N = 1,866 (42.2%)

ROSC AT ANY TIME
N = 2,558 (57.8%)

ROSC AT HOSPITAL HANDOVER
N = 2,117 (47.9%)

OUTCOME DATA
N = 4,201 (94.9%)

NO OUTCOME DATA
N = 225 (5.1%)

DIED IN HOSPITAL
N = 1,772 (42.2%)

SURVIVED TO DISCHARGE
N = 1,062 (25.3%)

EFFORTS STOPPED ON SCENE
N = 1,367 (32.5%)

^xBystander witnessed, shockable rhythm