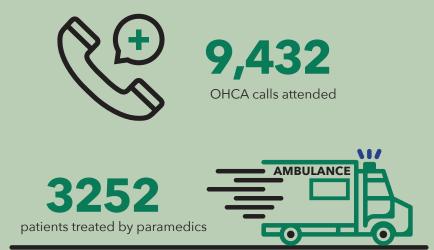
## **OHCAO CARDIAC ARREST OVERVIEW NWAS 2019 Demographics**

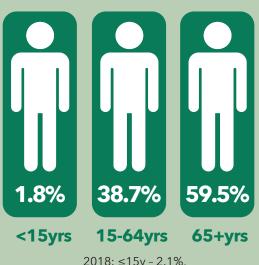


In 2018 3718 patients were treated

### **OHCA incidence (per 100,000)**



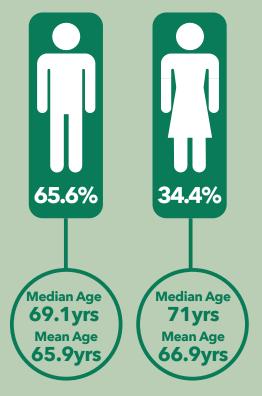
**Age Distribution** 



2018: ≤15y - 2.1%, 15-64y - 36%, 65+y - 61.9%

**Sex Distribution** 

Age of cases

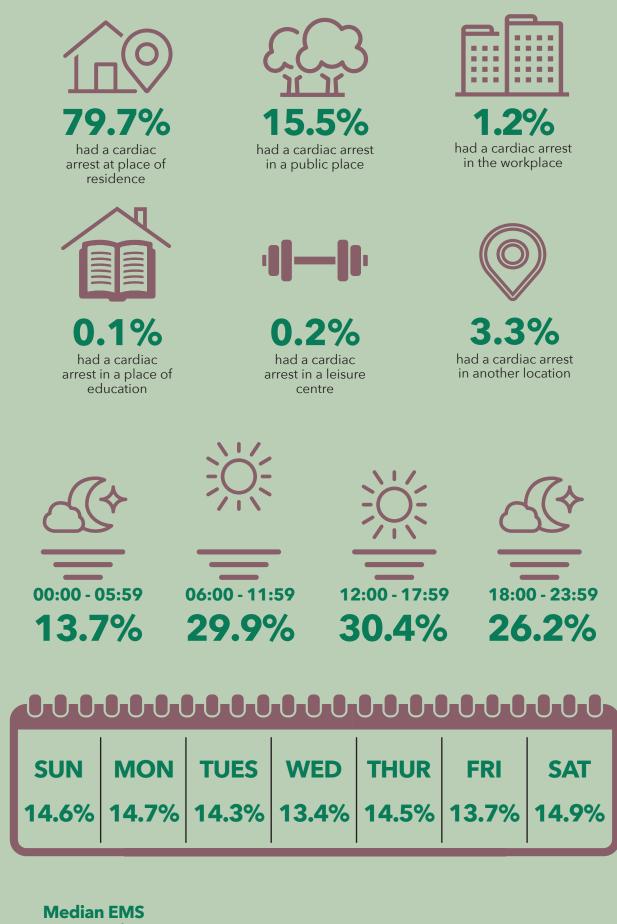


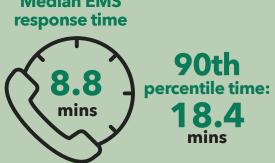




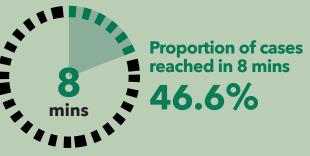


### **Event Details**





In 2018, median response time was also 8 mins & 90th percentile time was 18 mins



In 2018, 50.8% of cases were reached in 8 mins



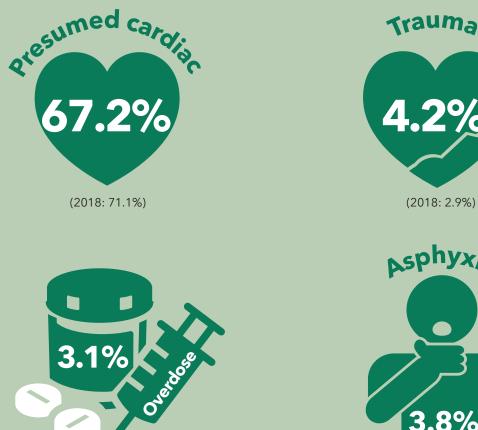


Resuscitation Council UK



### **Clinical Presentation**

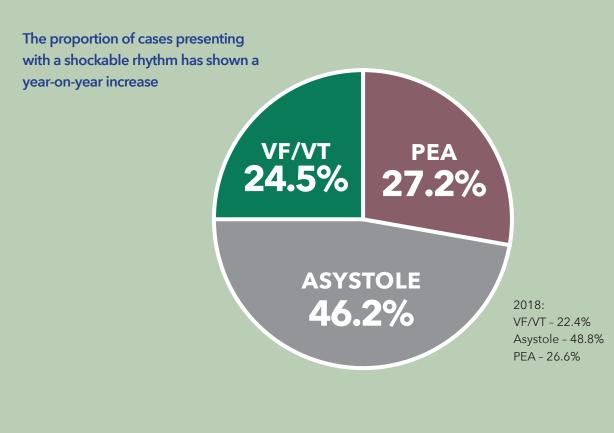
**AETIOLOGY** 



(2018: 2.9%)

Asphyxia (2018: 3.1%)

**INITIAL RHYTHM** 





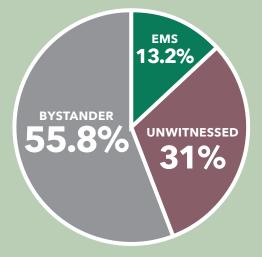






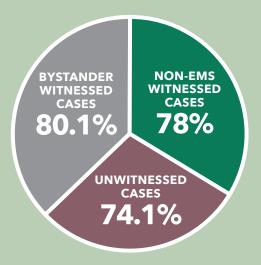
### **Bystander Interventions**

### Who witnessed cardiac arrest?



2018: Bystander - 55.6% EMS - 12.5% Unwitnessed - 31.9%

### **Bystander CPR rate:**



2018: Non-EMS witnessed - 78.1% Bystander witnessed - 80.3%

#### **Public Access Defibrillator use:**





2018:





Bystander witnessed - 9.6% Unwitnessed - 8.3%

#### **Comments:**

- Over time, the proportion of cases that were witnessed by a bystander continues to be around 51%
- Bystander CPR rate of non-EMS witnessed cases has increased over time
- Bystander CPR rate in bystander witnessed cases has also increased significantly over time
- Use of a PAD continues to increase substantially







**NIHR** Applied Research Collaboration West Midlands

## **Clinical Outcomes**





```
2018: 30.9%
```

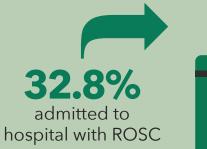


ongoing CPR 34.4%

2018: CPR - 35%







53.4%

Utstein comparator group

2018:

All cases -34.1% UCG - 53%





**28.7%** Utstein comparator group\*

> 2018: All cases - 8.8% UCG - 27.9%



2018: 1267



2018: 321

\*Bystander witnessed, shockable rhythm

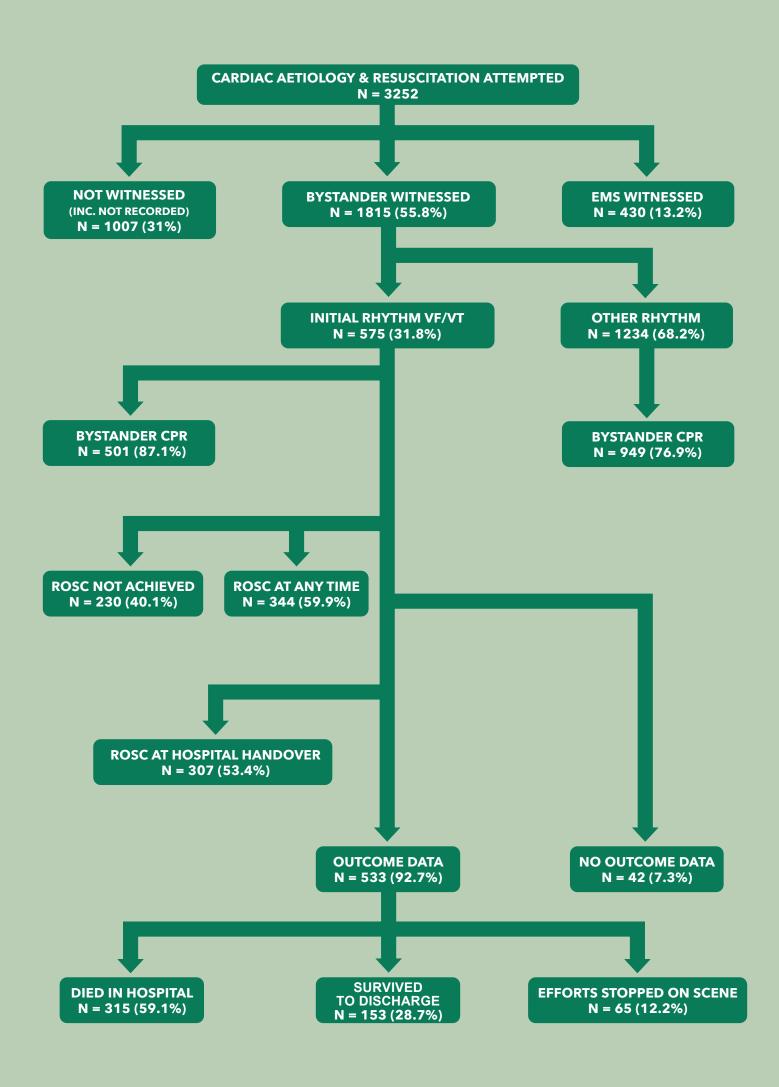








# **Utstein Comparator Group\* Flow Chart**



\*Allows some adjustment for case-mix to facilitate comparisons between ambulance services in UK and rest of world





Resuscitation **Council UK** 



**NIHR** Applied Research Collaboration West Midlands