

Study protocol: The last changes to the study protocol were made 18th of September, and the protocol version is 1.3. The study protocol is available from the Basecamp site, and it can be sent to you by mail on request.

Data set: The points in the data set have been unchanged since the start of the study. There have been some small errors in the coding, meaning that the number connected with the answer "Unknown" and "Not recorded" were not consistent. We have therefore updated the data set to version 6. The data set and the excel sheet for reporting have both been made available in Basecamp.

Country reports

Finland has a population of 5,4 million inhabitants. The EuReCa-One study expands over 15 EMS regions with more than 25 people supervising the data collection process. No major difficulties have been encountered so far. After the study collection period, centers without prior cardiac arrest registry will be encouraged to continue documenting their resuscitation results. We hope that this EuReCa-ONE collaboration will some day give rise to the national out-of-hospital cardiac arrest registry in Finland.

Germany: In the moment in Germany 40 Emergency Medical Services in all parts of the country are collecting data for the EuReCa ONE Study. The technical basis is the database of the German Resuscitation Registry. The German Resuscitation Registry is also responsible for the coordination of EuReCa ONE in Germany. In the moment everything is going well and no special problems are addressed.

Ireland (population 4.58 million). The Irish Out-of-Hospital Cardiac Arrest Register (OHCAR) has collected national data on OHCA resuscitation attempts since 2012. Statutory ambulance services in Ireland are provided by the National Ambulance Service and the Dublin Fire Brigade, both of whom adhere to the same training, clinical practice guidelines and documentation in carrying out their duties.

For the purposes of EuReCa ONE, our statutory ambulance services have also agreed to submit data on OHCA cases where resuscitation is NOT attempted. If this process proves feasible, inclusion of cases where resuscitation is NOT attempted will be considered for part of routine data collection from 2015 on.

In July 2014, OHCAR data collection was fully standardised across the National Ambulance Service stations and routine data collection procedures have been established across our control centres nationally

Missing case identification is a routine part of data validation in Ireland, and the identification process will be extended to include cases where resuscitation is not commenced

So, in Ireland, when it comes to EuReCa ONE data collection it is business as usual – but with the added extra of identifying the cases where resuscitation is not attempted.

Madeira, Portugal: In Madeira/Portugal EuReCa-ONE One is going well, data collection its ok until now. Last Years (2013) Madeira Island EMS Prehospital Cardiac Arrest Information:

TOTAL Prehospital Cardiac Arrests: 412, EMS BLS/ALS CPR: 163 (of 412) (39.5%), AED used: 45 (of 163) (27%), Died Early (No CPR initiated): 249 (60.5%), 154 Cardiac Arrests / 100.000 habitants/ Year*, 61 EMS BLS-ALS CPR / 100.000 habitants/ Year*, SEMER (EMS) Population Covered: 267.785 habitants (*Estimated)

Norway has a total population of the country of 5,1 million. The EuReCa-ONE study has increased the number of ambulance services wanting to report cardiac arrest, from 41 % in 2013 to more than 90 % for EuReCa-ONE. The number of cardiac arrests where emergency personnel starter CPR, varied between 22/ 100.000 to 70/100.000 for 2013. We hope this study will help us determine whether there is a real difference in different regions, or if data are missing.

There are people in 14 regions, and more that 20 people in total working to help collect and quality control data for the study.

We are testing out a new electronic reporting system, and because of EuReCa-ONE we got priority in setting it up. We are now piloting it.

We are using the restart a heart day to promote the registry both for lay people and the EMS services.

Serbia has a total population of 7,1 million. For the EuReCa-ONE study data is collected from a total 15 EMS services.

EMS	Population served
1 EMS Institute Novi Sad	384.240
2 EMS Institute Beograd	1.659.440
3 EMS Institute Kragujevac	179.417
4 EMS Institute Nis	260.237
5 EMS Subotica	141.554
6 EMS Sombor	85.903
7 EMS Vrbas	42.092
8 EMS Backa Topola	33.321
9 EMS Kanjiza	25.343
10 EMS Becej	37.351
11 EMS Temerin	28.287
12 EMS Zrenjanin	123.362
13 EMS Backa Palanka	55.528
14 EMS Indjija	47.433
15 EMS Ruma	54.339
Total	3.157.847

Sweden has a total population of the country: 9,7 million. The number of treated out-of-hospital cardiac arrests varied between 17/ 100.000 to 76/100.000 for 2013 (average 54/100.00 for 2013). We hope this study will help us determine whether there is a real difference in different regions, or if data are missing. There are at least two persons in each region (totally 21 regions) that are working to help collect and quality control data for the study.

Switzerland: In the Ticino canton there are 346,539 (12/2013) inhabitants and a population density of 120/km² (320/sq mi). The area is 2,812.2 km² (1,085.8 sq mi)

The region has:

- 6 EMS+1 HEMS (all linked by the umbrella organization FCTSA)
- 1 EMCC
- All ambulances are ALS equipped and skilled, also supported by emergency physician and specialized nurse (rendezvous system) – 150 professionals / ca. 20 ambulance or doctor car on call/day
- 1 Heart centre (PCI, hypothermia, heart-surgery)
- 4 primary hospitals

So far there has been 12 cardiac arrests registered for the EuReCa-ONE study, and expected number of arrests during the study period is about 30.

United Kingdom

Table 1: Population for UK regional EMS providers

	Mid-2013 Population (thousands)
United Kingdom	64,105.7
North East Ambulance Service NHS Foundation Trust	2,610.5
North West Ambulance Service NHS Trust	7,103.3
Yorkshire Ambulance Service NHS Trust	5,337.7
East Midlands Ambulance Service NHS Trust	4,598.7
West Midlands Ambulance Service NHS Foundation Trust	5,674.7
East of England Ambulance Service NHS Trust	5,954.2
London Ambulance Service NHS Trust	8,416.5
South East Coast Ambulance Service NHS Foundation Trust	8,792.6
South Western Ambulance Service NHS Foundation Trust	5,377.6
Scottish Ambulance Service NHS Trust	5,327.7
Welsh Ambulance Service NHS Trust	3,082.4
Northern Ireland Ambulance Service NHS Trust	1,829.7

Source: Office for National Statistics, National Records of Scotland, Northern Ireland Statistics and Research
Figures may not add exactly due to rounding

The UK's OHCA registry is fairly new, and as such has only just started to collect data from participating EMS regions. The UK project team are currently looking to improve data quality and quantity to ensure the information provided is a true representation of the UK's OHCA.

Because of these issues, each EMS provider has been provided with a template Excel file with 'drop down menu's that only collects EuReCa-One variable data. This will ensure that EuReCa One project data is available on time.

These files will then be submitted to the UK project team to collate and pass onwards to EuReCa-One at the end of January 2015.

We have held WebEx conference calls, newsletters, web site news items and site visits to promote the EuReCa's research questions, and will be commencing site visits to ensure the data is completed in a timely efficient manor for submission.