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999 R.E.S.P.O.N.D.







Team

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 Emergency Medical

 Retrieval & Transfer Service
 Retrieval & Transfer Service









999 R.E.S.P.O.N.D.



999 R.E.S.P.O.N.D is a collaborative research study between the Welsh Ambulance Services NHS Trust, Emergency Medical Retrieval & Transfer Service, the University of Warwick, Wales Air Ambulance Charity and the University of Bristol. The project is the first of its kind in the UK and designed to be translatable to training and policy.

The study aims to explore the way in which the decision to dispatch a critical care team is made by the teams in ambulance control rooms.

It is well documented that getting the right information to make decisions in the heat of the moment is difficult, and the recent pandemic created pressures and disruption to the system which had an impact on risk assessment decision making pathways.

The appropriate dispatch of EMS needs to balance patient safety and resource. It is therefore hoped that this study will be able to improve the process of getting critical care to the people who need it most.



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The Research



Primary Research Question

When deploying specialist critical care resources, how are risk and severity indicators in 999 callers utterances identified and brokered amongst those involved in the dispatch decision, and how might dispatch teams be supported to optimise clinically-appropriate deployment to the patients most in need of this scarce resource?

Secondary Research Question

How did a major disruption (COVID-19) impact the ways in which the dispatch service reacts to risk and severity indicators?

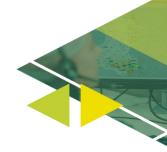
Secondary Research Question

What are the key priorities institutional and national policy should pick up in the management of risk in emergency calls?

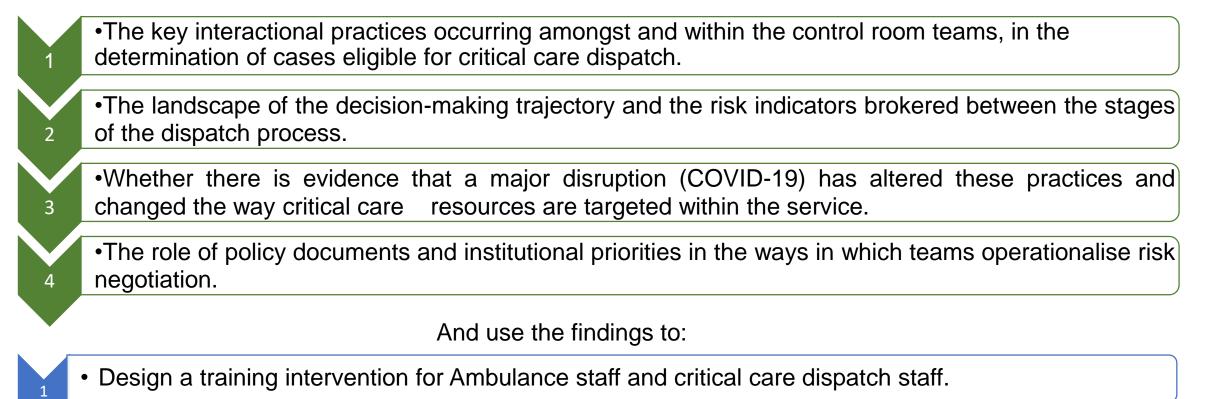




Research Objectives



The research objectives are to identify and map:



• Provide recommendations for national policy.



Study Methods



We propose a cross-sectional, qualitative study using a variety of complementary routinely collected ambulance service datasets, structured around the critical care dispatch decision.

We will analyse four main datasets:

- The original 999 call audio recordings.
- Audio recordings of the spoken and textual interactions that occur between different members of the teams involved in triaging calls, dispatch decisions and resource allocation.
- The Sequence of Events (SoE) textual record.
- Policy, operating procedures and service guidelines relating to critical care dispatch.





Study Methods

We will base our analysis around a core sample of 100 cases;

- 50 interactions receiving critical care dispatch pre-COVID-19
- 50 interactions pan-COVID-19.

*For the latter, we further differentiate between interactions occurred at the onset of the pandemic (1st wave; March-June 2020) and at later stages, when pressures of the system had less sudden impact.

Inclusion Criteria



•A minimum case dataset is available for the incident (including original 999 call recording and SOE.

•The case occurred during the pre-COVID sampling window (April 18 March 20) or the post- COVID sampling window (March 20 onwards)

Exclusion Criteria



•No critical care resources were dispatched at any point.



•The minimum case dataset is not retrievable.



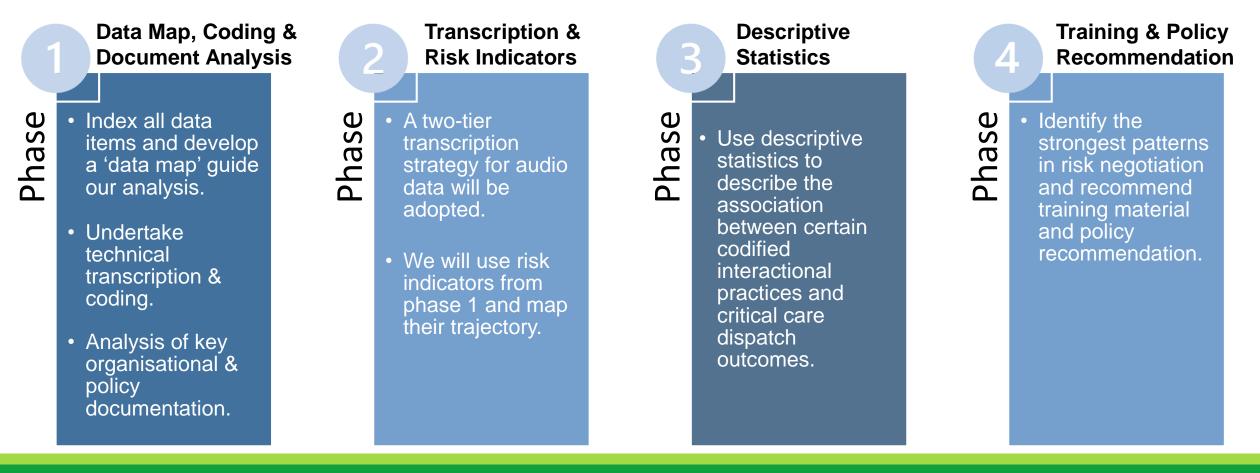
•They resulted in the stand-down of the critical care team before arrival.





Data Analysis

For our analysis, we will consider each individual incident with all of its associated data as a 'case'. We will adopt a four phase approach to data analysis.







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Sept 22	
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Nov 22

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Dec 22 REC provision al approval received. Comment s resubmitted 16th Jan.

Project Progress so far

HRA/H CRW approv al granted 23.01.2 3

Jan 23





Nov 22 IRAS and research ethics submitte d

Final collaborati on agreement send out to all sites on

Jan 23

16th Jan.

Jan 23

Policy analysi s work.



Aug 22

Study

Protocol

drafted

Group

agreed to

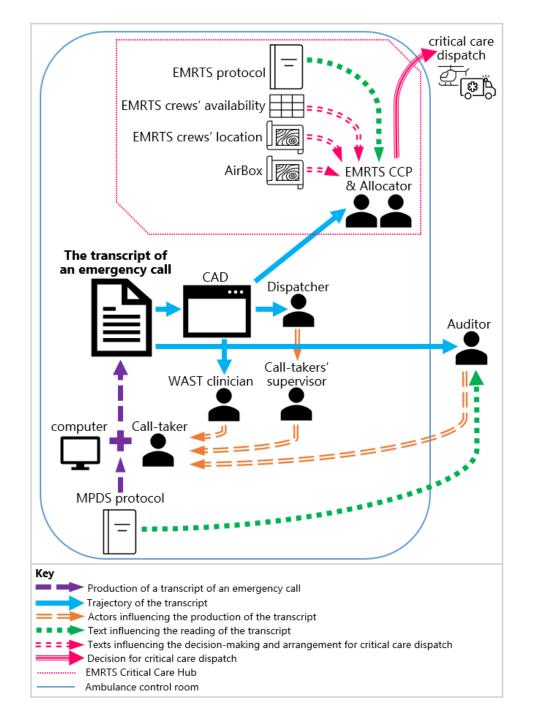
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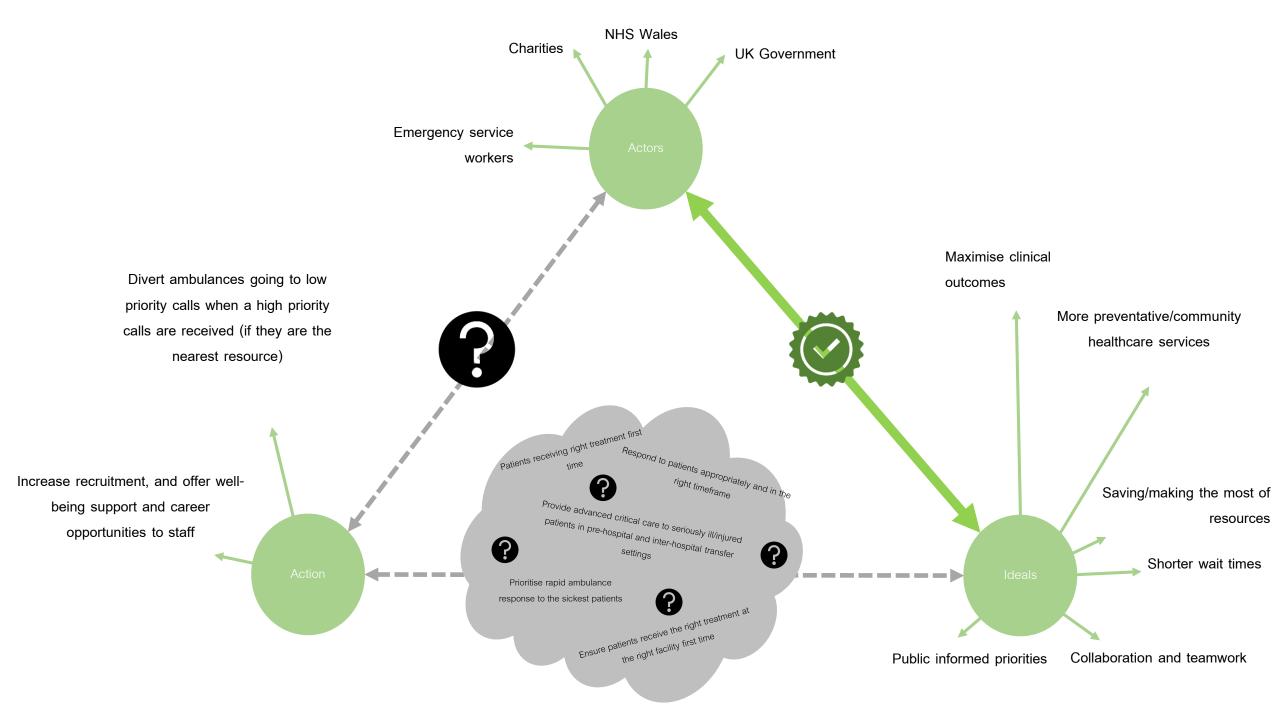
further

project

funding.

Welsh Ambulance Services NHS Trust





Next steps

- Call/ SOE extraction & Transcription
- Analysis
- Workshops





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