



## Introduction

Emergency care delivery in remote and rural areas can be **challenging**

Low volume but high stakes presentations

Complex care with few specialist resources

Clinicians must work across traditional professional boundaries

Long and complex transfer time to specialist care centres

It is essential that the rural multi-disciplinary team (MDT) builds skills together to ensure effective care in difficult situations

These challenges have led to the development of **multi-disciplinary in-situ simulation**

## The Purpose

To instigate a successful and sustainable in-situ simulation program that meets the multi-disciplinary team's training requirements in the remote and rural setting of National Health Service Shetland.



## Method

Qualitative interviews with staff to identify areas of anxiety, a syllabus to improve confidence, knowledge and ascertain barriers to implementing in-situ simulation

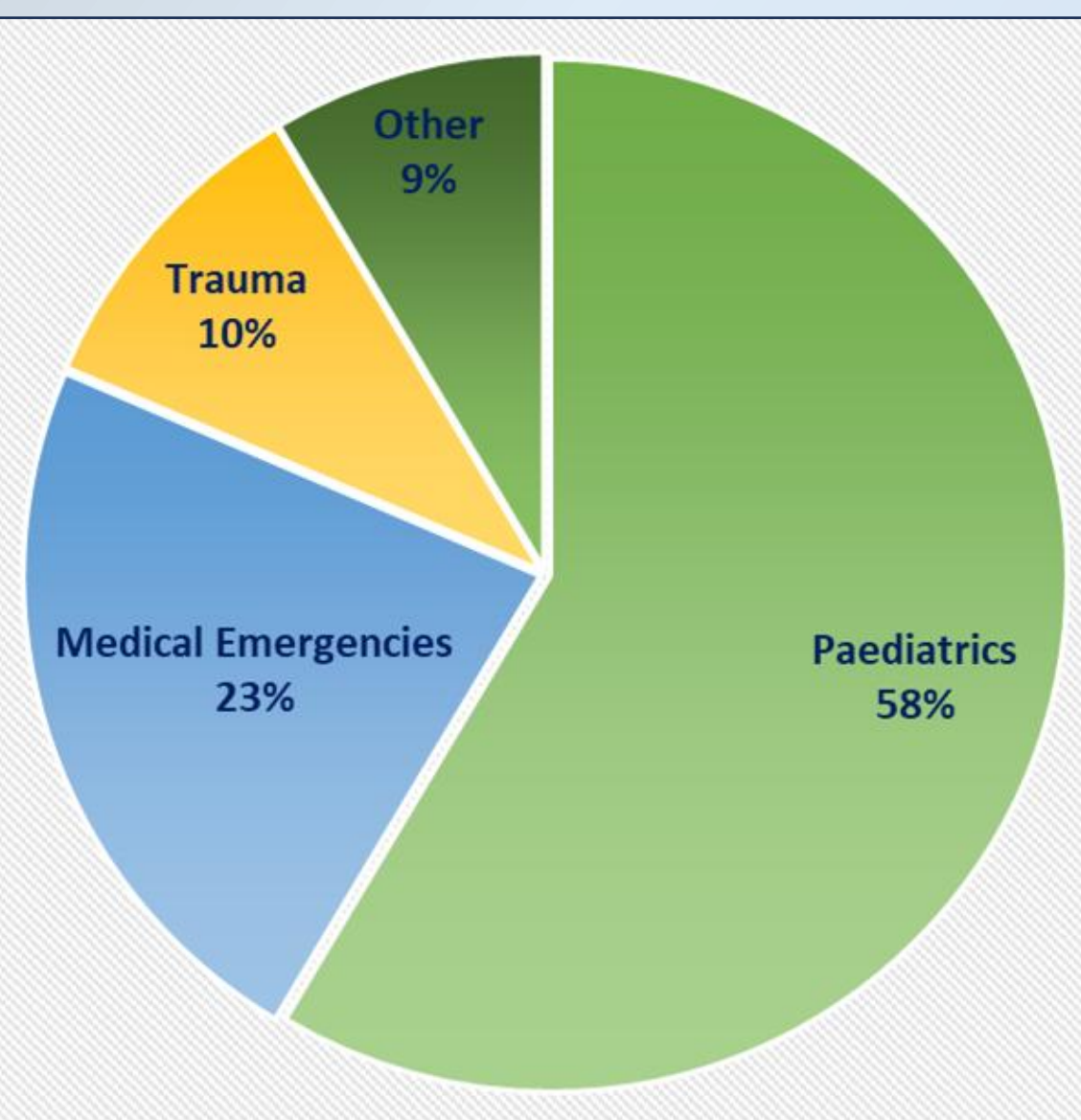
"We do have occasions when I wonder – where is that protocol or that piece of kit?"

Development of in-situ simulation MDT faculty  
Development of syllabus and scenarios

Simulation sessions were designed to run once weekly with an associated theme of the month

Teams were re-interviewed at two- and ten-month intervals to assess areas for improvement, the impact on confidence, and preparedness on the MDT thus far

Scenarios were adapted based off feedback.  
Pre-hospital scenarios were added to cater to needs of Scottish Ambulance Service.  
Sessions are being expanded to hospital wards and primary care unifying the wider rural medical community



Areas causing the most anxiety were used to design weekly themed cases



In –Situ Simulation Faculty



## Results

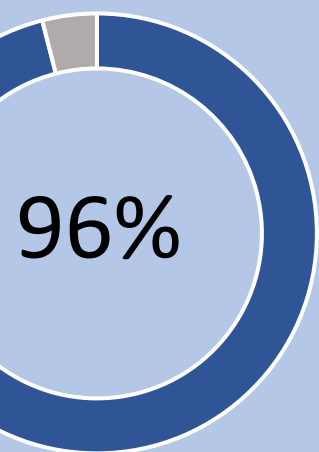
A multi-disciplinary faculty was formed and a weekly simulation programme developed

When Thursday morning 10am

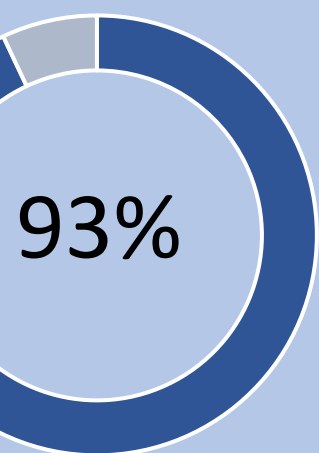
Where Emergency department or hospital wards

Format Pre-hospital scenario  
20 min scenario  
10 min debrief

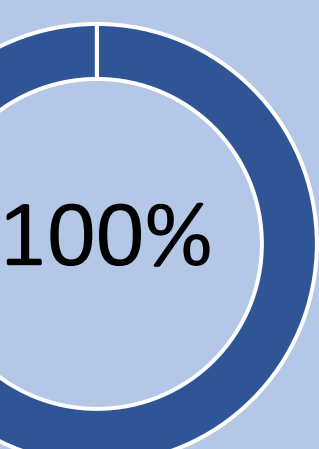
Who Extended multi-disciplinary team



Found Sessions Beneficial



Empowered To Speak Up



Felt In-Situ Sim Is Important To Retain In Shetland



A positive learning environment

Really pulls the team together

Now I know where the protocol is



## Conclusions

Vital to the rural hospital by ensuring teams work together

Improves preparation, coordination and skills of MDT healthcare teams

Allows for integration of new protocols & technology

Enhances patient safety & quality management

Rural Emergency Departments are exposed to low volume and high-stake presentations which deems readiness and training of utmost importance.

In-situ simulation training in Shetland has formed a crucial part of MDT training improving confidence and team dynamics



## References

Lewis et al. Is high fidelity simulation the most effective method for the development of non-technical skills in nursing? A review of the current evidence.

Rosen et al. In situ simulation in continuing education for the health care professions: a systematic review.

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