

Royal Perth  
Hospital



Royal Flying Doctor Service  
WESTERN AUSTRALIA



## Boosting Confidence through interagency Aeromedical Simulation:

A Quality Assurance exercise of a critical care helicopter landing at a Tertiary Trauma Hospital.

John Iliff



Royal Flying Doctor Service  
WESTERN AUSTRALIA

# Acknowledgement of Country

The Royal Flying Doctor Service in Western Australia respects and acknowledges the Traditional Owners of the lands upon which we work, live and fly.





We acknowledge their continuing connection to the land, sea and skies of Western Australia.

INNOVATION

Open Access




# Improving quality through simulation; developing guidance to design simulation interventions following key events in healthcare

Cristina Diaz-Navarro<sup>1,2\*</sup> , Bridie Jones<sup>1</sup>, Gethin Pugh<sup>1,3</sup>, Michael Money Penny<sup>4,5</sup> , Marc Lazarovici<sup>6,7</sup>  and David J. Grant<sup>7,8,9</sup> 



Narrative Review

## The impact of simulation-based training in medical education

### A review

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# Improving Critical Care Teamwork: Simulation-Based Interprofessional Training for Enhanced Communication and Safety

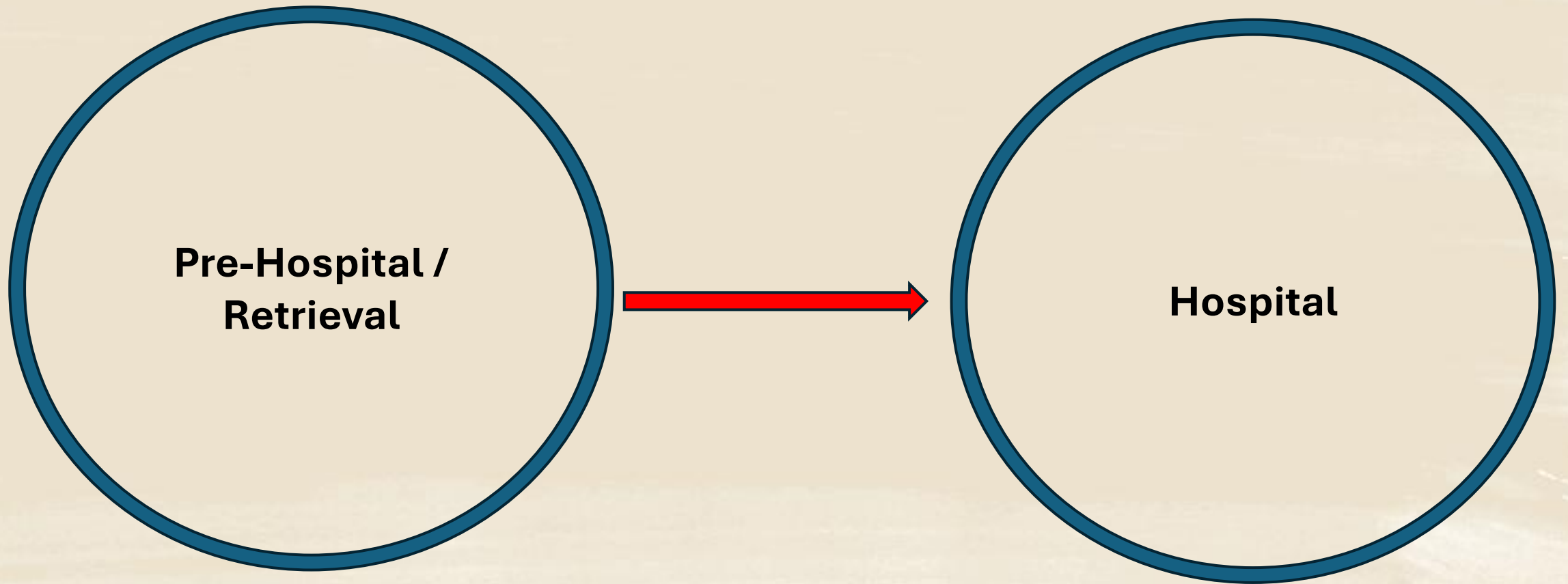
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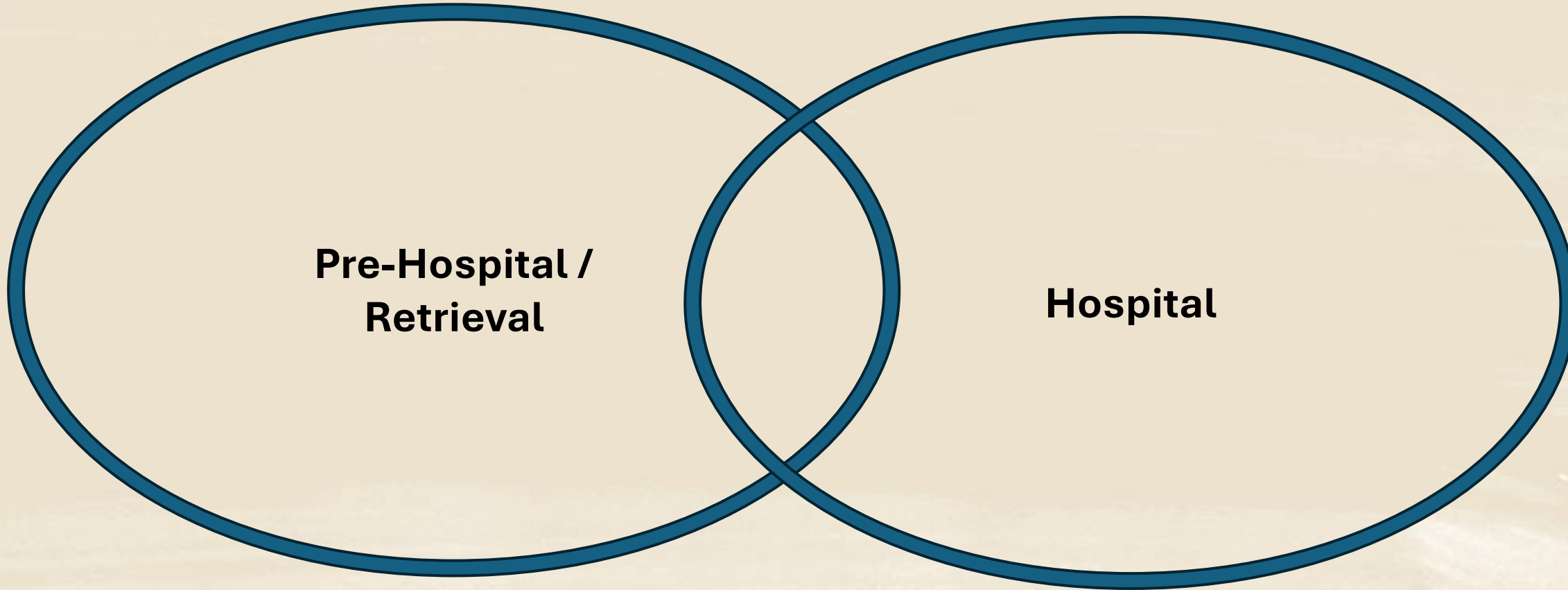
OPEN



**Pre-Hospital /  
Retrieval**

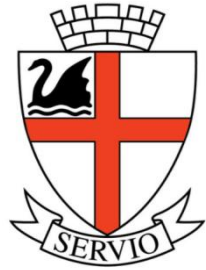
**Hospital**





**Pre-Hospital /  
Retrieval**

**Hospital**



Royal Perth  
Hospital

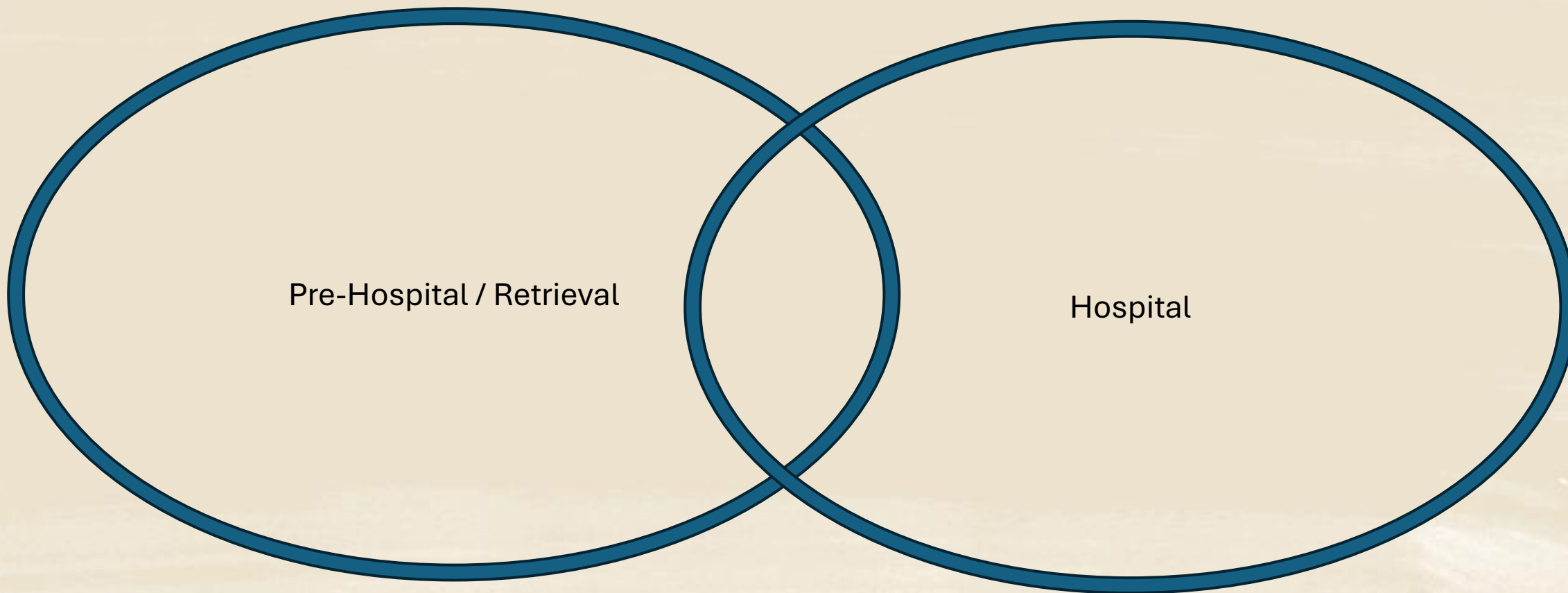


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- *What are the participant and facilitator experiences of an interagency critical care simulation exercise involving a helicopter landing at a tertiary hospital?*
- *Was this an effective method to identify areas for process improvement?*

# The Setting

Activation of the Heliport Code Blue Process at Royal  
Perth Hospital



Pre-Hospital / Retrieval

Hospital

# The Methods

## **Qualitative Study**

### **Participant questionnaires**

- Pre-Simulation Survey
- Post-Simulation Debrief
- Interviews 1 month post simulation
- Simulation facilitators Survey

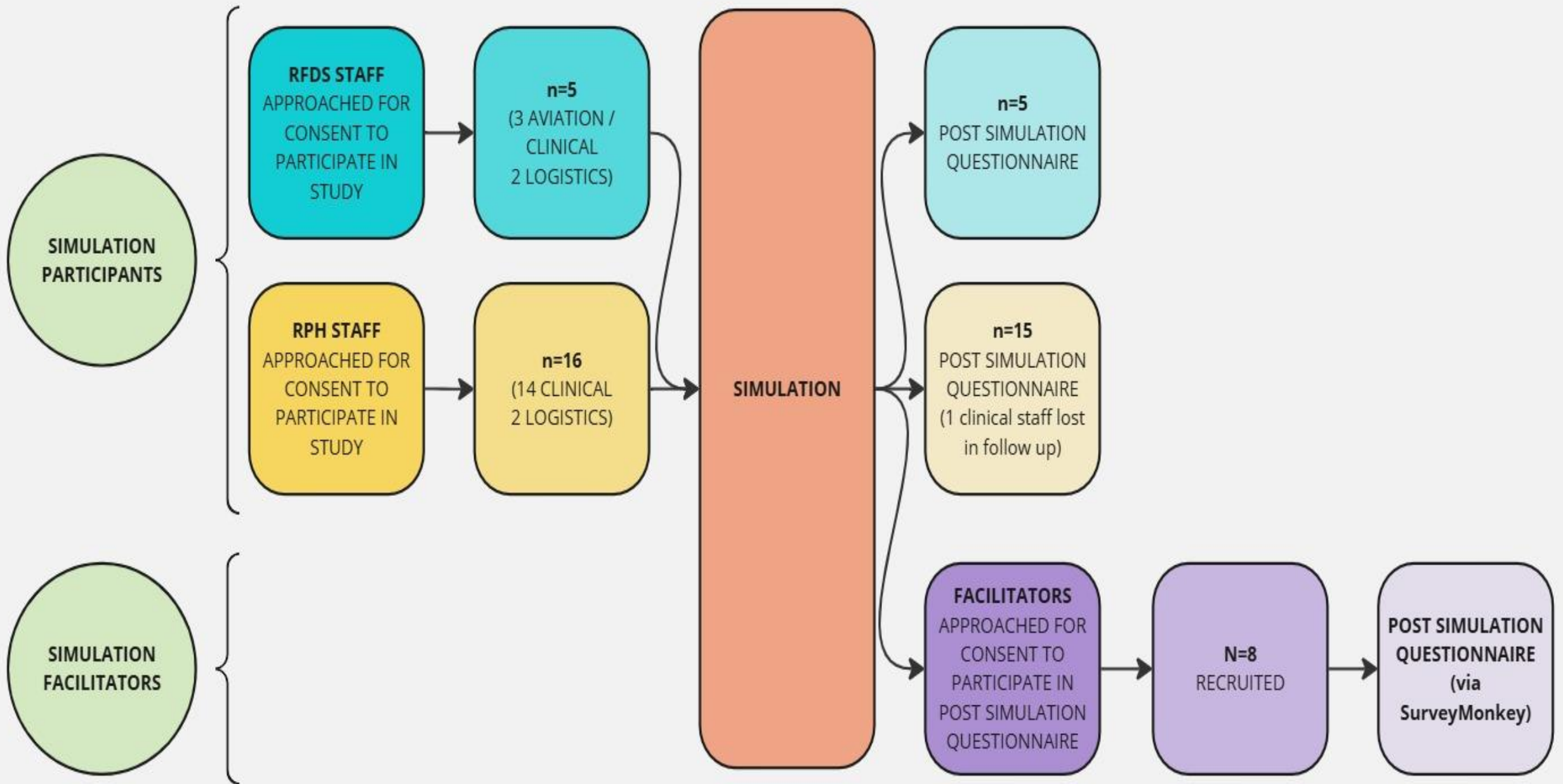
# Ethics

State and National Approval through Royal Flying Doctor Service Western Operations on 10<sup>th</sup> July 2023 and Royal Flying Doctor Service of Australia National Research Working Group 28<sup>th</sup> June 2023

Ethical Endorsement was approved by ACT HREC on 12<sup>th</sup> July 2023 ( Ref 2023.LRE.00106.RFDS Reference 2023/RFDS/00010)

# Inclusion Criteria

- RPH or RFDSWO Staff member
- Available staff member rostered or 'off-duty volunteer' surplus to immediate clinical duties
- Staff member with specific role in 'Helicopter Code Blue' process
- Consent to participate obtained



# The Simulation

- 46 year-old male
- Stab wound to the groin and subsequent hypovolaemic arrest
- ROSC with direct pressure and blood products
- RFDS tasked with patient retrieval

OFFS MANUAL  
ACTIVATION









**RAC RESCUE**

**CRITICAL CARE  
PARAMEDIC**

**VISITOR**



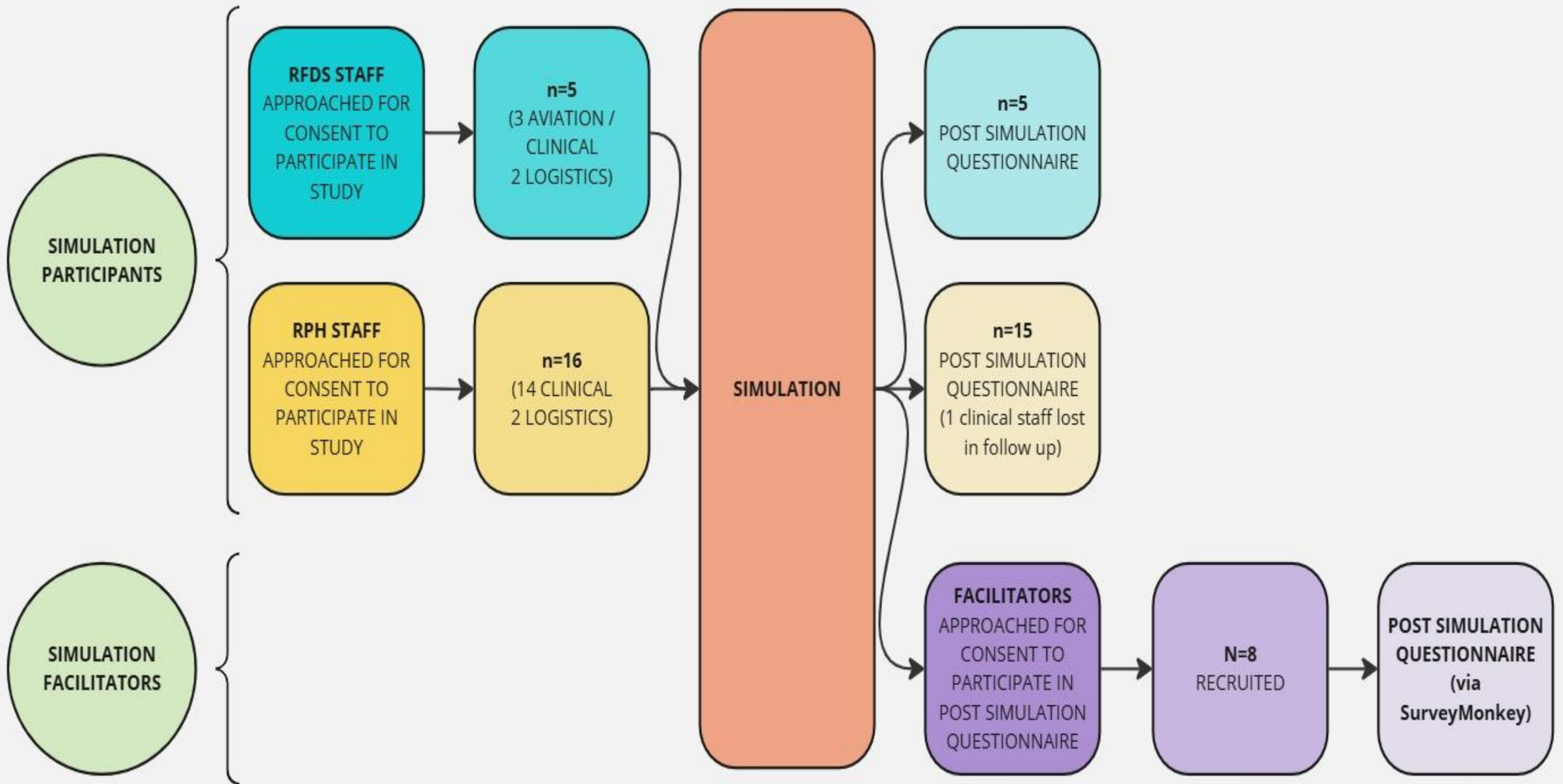
Simulation  
Team

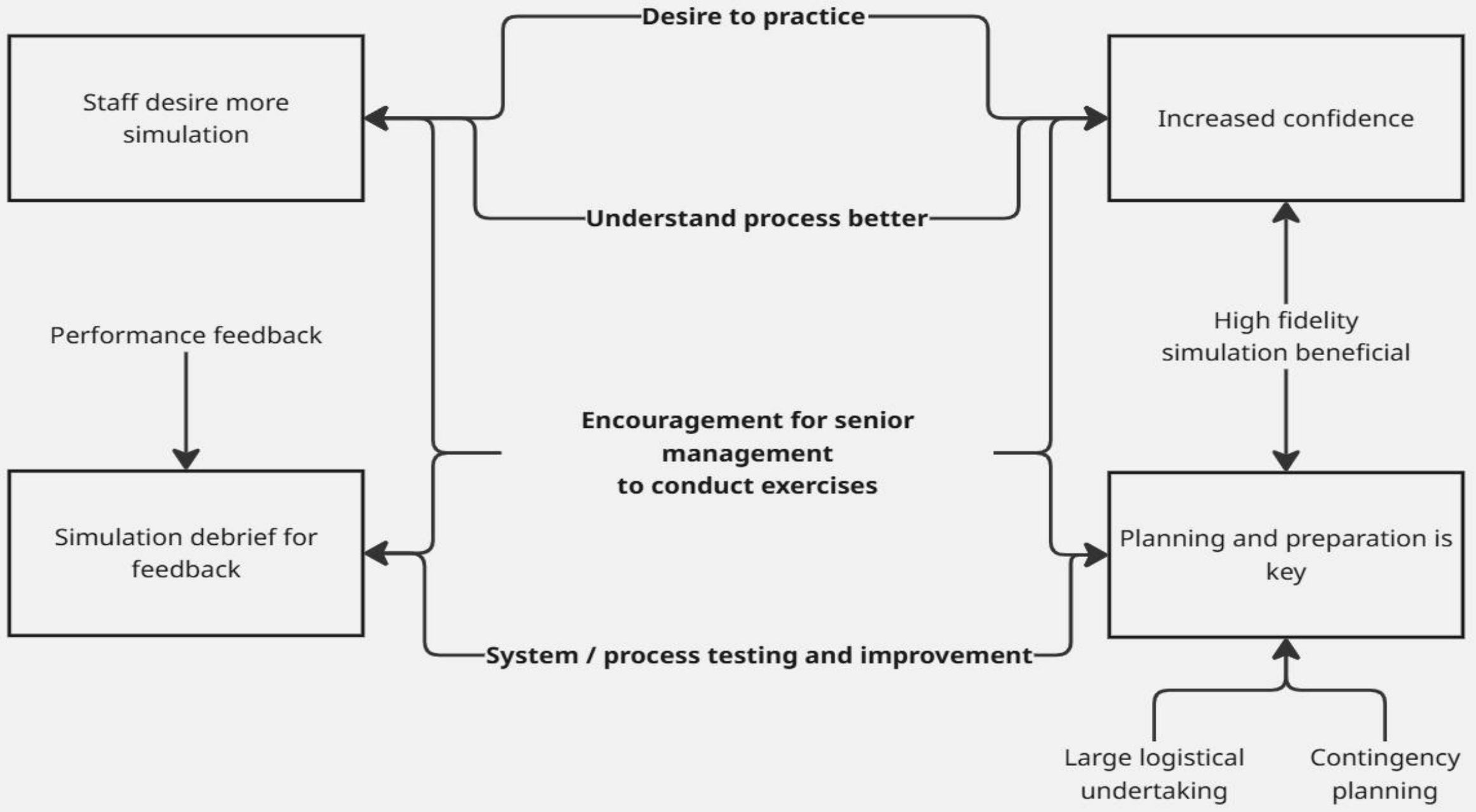
DOCTOR

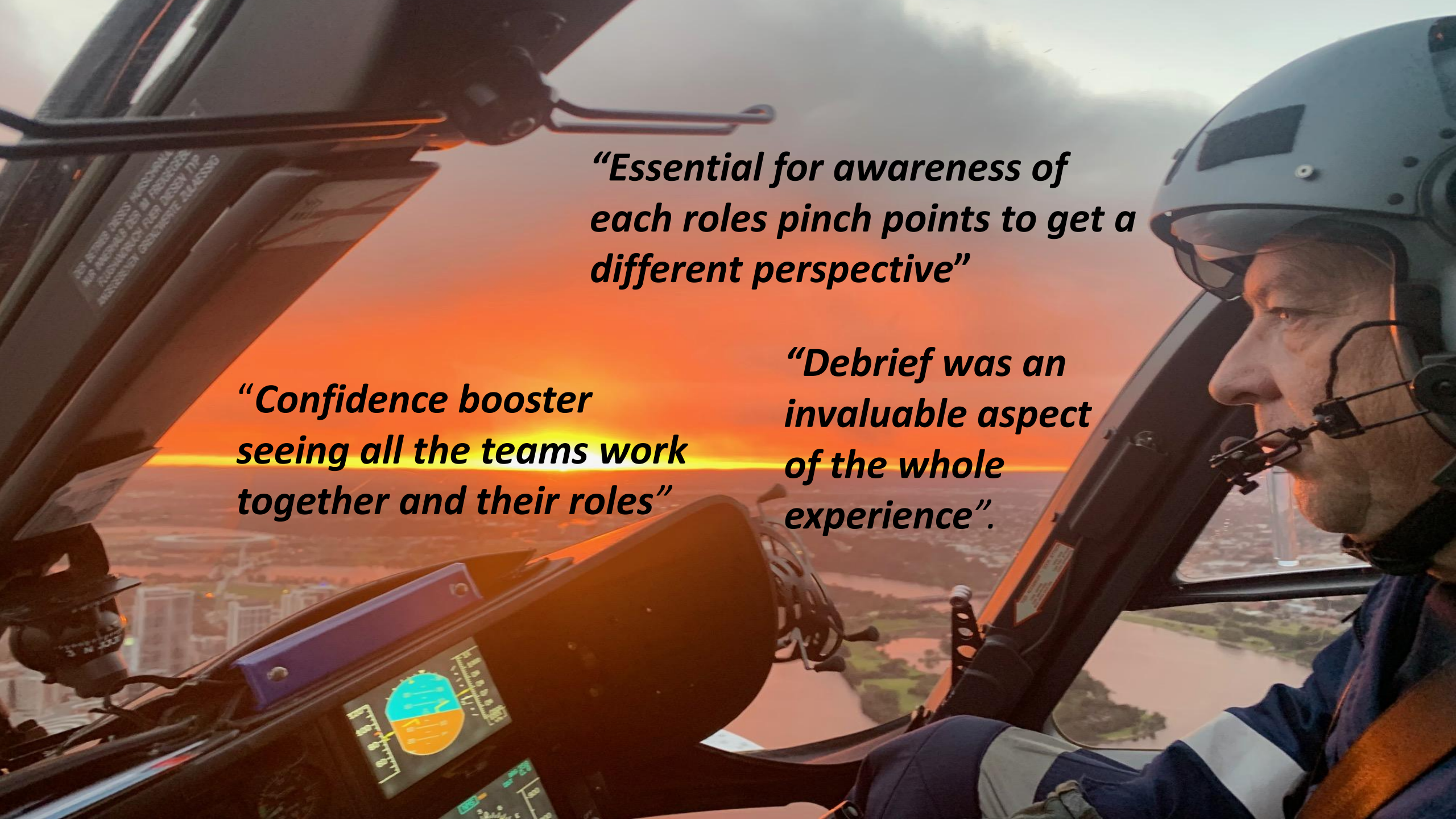
PATSLIDE

ED

EMERGENCY DEPARTMENT  
Simulation  
Team  
ROYAL FREE HOSPITAL



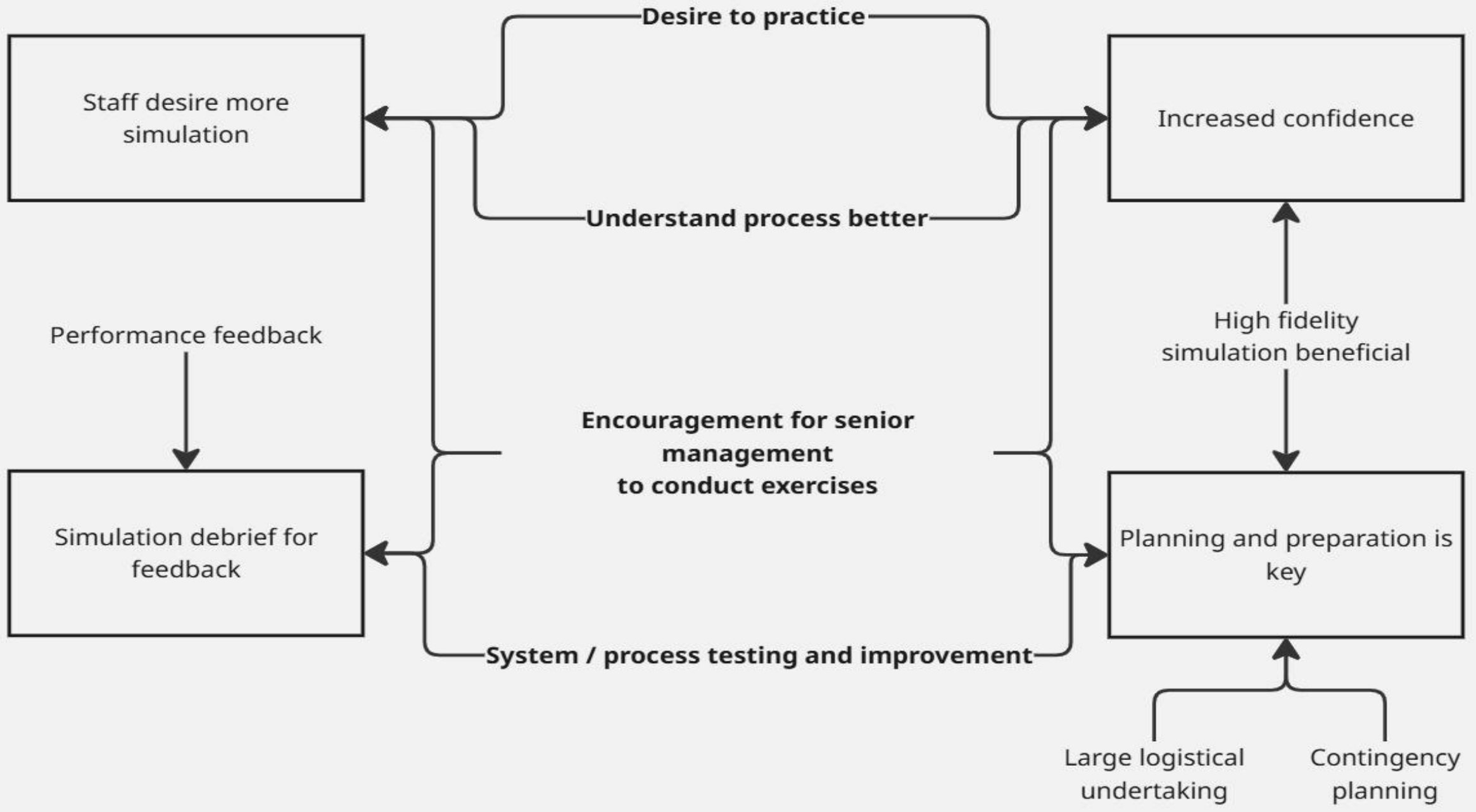




***“Essential for awareness of each roles pinch points to get a different perspective”***

***“Confidence booster seeing all the teams work together and their roles”***

***“Debrief was an invaluable aspect of the whole experience”.***



*“a core organization group”*

*“the logistical considerations in planning this simulation from RPH were vast”*

*“lots of time to prepare to ensure all finer details were addressed”*





# Study Strengths

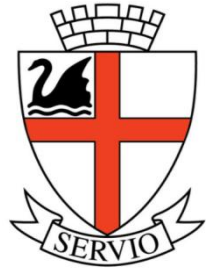
- Real-time and high-fidelity environment
- True reflection of participant experience using surveys pre and post

# Study Limitations

- Single heliport arrival
- Limited participants
- Subjective nature of confidence and utilization Likert scale

*“Inter-agency  
simulation is a must”*





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