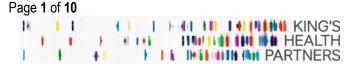


Management of Medical Emergencies in the King's Clinical Research Facility

Document Detail		
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Author	Danilo Nebres, CRF Lead Research Nurse	
Approved by	Elka Giemza, CRF Manager	
Authorised by	Professor Peter Goadsby, CRF Director	
Related documents	KCH Cardiopulmonary Resuscitation Operational Policy KCH Policy for the Management, Reporting, & Investigation of Adverse Incidents (including Serious Incidents) KCH Adult Trolley Daily Checklist KCH Adult and Paediatric Trolley Daily Checklist CRF-QA-SOP-5: Safety Reporting and Pharmacovigilance in the King's CRF KCH Immediate Life Support Training Programme (ILS)	
Keywords	Resuscitation trolley, resuscitation team, emergency, safety, training	
Supporting references	See Section 6.0	

Change History				
Date	Change details, since approval	Approved by		
January 2014	Amend logos to update to current CRF letterhead template	E.Giemza		
1100	2. Amend document number from CRF SOP012 to CRF-CL-SOP-6 to comply with Q-Pulse document numbering system			
	 3. Amend name of Director to current Director 4. Amend typo in section 5.1 5. Addition of new section (6.0) which details procedure for medical emergency occurring in the MRI 			
August 2016	 Updated references and related documents Revision of Section 5.0 to reflect current CRF practice and to adhere to current Resuscitation Council guidelines and local policies Minor amendments to text for clarity 	E.Giemza		

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Effective Date: 01 November 2023 Review Date: 01 November 2025

CRF-CL-SOP-6 v7.0

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Review History			
Date	Review details	Approved by	
January	Review of version 1.0. Amended as detailed above in	E.Giemza	
2014	Change History and superseded by version 2.0. Reviewed by Maria Ines de Sousa de Abreu		
August	Review of v2.0 conducted by Alexander Chan, CRF	E.Giemza	
2016	Research Nurse, as per the review date. Changes made as per 'Change History' and re-issued as v3.0		
September	Review of v3.0 conducted by Noah Yogo, CRF Lead	E.Giemza	
2018	Research Nurse, as per the review date. Changes made as		
	per 'Change History' and re-issued as v4.0		
November	Review of v4.0 conducted by John Lord Villajin, CRF Lead	E.Giemza	
2020	Clinical Trial Coordinator, as per the review date. Changes		
	made as per 'Change History' and re-issued as v5.0		
March	Review of v5.0 conducted by Danilo Nebres, CRF Lead	E.Giemza	
2023	Research Nurse, as per the review date. Changes made as		
	per 'Change History' and re-issued as v6.0		
November	Review of version 6.0 was performed by Danilo Nebres,	E.Giemza	
2023	CRF Lead Research Nurse to update as per change history		
	and re-issued as v7.0.		

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Effective Date: 01 Nov 2023 Review Date: 01 Nov 2025 CRF-CL-SOP-6 v7.0 1.0 Background

1.1 The King's Clinical Research Facility (CRF) supports a wide range of research

projects involving both healthy volunteers and patients. These include both

observational and interventional studies, including trials of new and existing medicinal

products, treatments and devices. There is a risk of a medical emergency resulting

from an adverse reaction to a medicinal product or treatment.

1.2 A medical emergency is an acute, unplanned event that has the potential for serious

harm or death. This includes anaphylaxis and cardiorespiratory arrest.

2.0 Purpose

2.1 The purpose of this Standard Operating Procedure (SOP) is to describe how

medical emergencies are managed in the CRF.

3.0 Scope

3.1 The CRF encompasses the Clinical Trials Facility (CTF), the Experimental Medicine

Facility (EMF) and the Cell Therapy Unit (CTU). CRF SOPs will apply to the CTF and

EMF only and staff working in those areas should work to all relevant CRF SOPs.

The CTU will continue to control and use its own policies and SOPs to ensure

compliance with Good Manufacturing Practice (GMP).

3.2 This SOP applies to all core CRF staff (clinical and non-clinical) and all users of the

CTF and EMF.

4.0 Responsibilities

4.1 Clinical staff, including nurses, doctors and research practitioners, are responsible for

the identification of medical emergencies, mobilising the resuscitation team and

providing initial treatment to address the emergency.

4.2 Research nurses and practitioners are responsible for ensuring that emergency

equipment is available and is in good working order in accordance with the King's

College Hospital (KCH) Cardiopulmonary Resuscitation Operational Policy.

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Effective Date: 01 Nov 2023

4.3 Non-clinical staff are responsible for assisting in the management of emergencies,

mobilising the resuscitation team when asked to do so and facilitating emergency

procedures.

4.4 Clinical staff are responsible for ensuring that their ILS (Immediate Life Support) or

BLS (Basic Life Support) training is up-to-date, as appropriate to their role.

4.5 The CRF Manager/Lead Research Nurse is responsible for arranging any additional

training and for arranging regular emergency simulation training.

5.0 Procedure

Maintenance of equipment:

5.1 Resuscitation trolleys are located within the EMF on the 1st floor (adult trolley), ground

floor (adult and paediatric combined trolley) and an Airway trolley is located in the MRI

suite. Within the CTF there are 2 resuscitation trolleys, one adult (chair-side) and one

adult and paediatric combined trolley (ward-side).

5.2 Trolleys are checked by the core CRF clinical staff to ensure that all drugs and

equipment are in-date and functional. The trolleys are checked weekly, but the items

on top of the trolleys (the defibrillator, suction equipment and oxygen) are checked

daily, as per the KCH policy and as indicated on the KCH checklists. Contents are

checked against the KCH checklists, which are kept on each trolley.

5.3 Once checked, the trolley is sealed with a numbered tag.

5.4 Once a trolley has been sealed the seal should only be broken in the event of a clinical

emergency or a subsequent check.

5.5 Trolleys must be restocked as soon as possible after use and resealed using a new

tag.

5.6 A laminated card with details of how to contact the resuscitation team and how to

communicate the location clearly is displayed near to all telephone points in the CRF.

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Staff training:

5.7 All CRF clinical staff must be trained in BLS as a minimum standard. All nursing staff

should be trained in ILS. An ILS certificate is valid for one year and attendance/

completion of the recall session up to 2 years from the date of your last ILS course.

5.8 Staff will arrange training in conjunction with the KCH Resuscitation Department.

Refer to Section 6.8.

5.9 Cardiopulmonary resuscitation training must be updated annually and in accordance

with the training needs of the department.

5.10 Emergency simulation training for all staff will be arranged periodically by the

CRF Manager or delegate.

CRF staffing:

5.11 Whenever there are study participants in the EMF or CTF, two members of staff

should usually be present to ensure that an emergency can be managed as safely as

possible. At least one member of staff should be a member of the CRF clinical team.

5.12 Where the risk of an emergency is considered low, for example in an observational

study of low risk patients, then the presence of a single staff member will be sufficient.

In this situation, a risk assessment should be documented and agreed by the CRF

Manager or Lead Research Nurse.

Procedure in the event of an emergency:

5.13 The study protocol may indicate a specific procedure that should be followed in the

event of an emergency, for example, a reversal agent. Where it is possible to adhere

to the protocol without jeopardising the safety or welfare of the participant, then this

should be attempted.

5.14 In the event of an acute deterioration or collapse of any person in the CRF, CRF

clinical staff will perform an ABCDE assessment in accordance with the current

Resuscitation Council guidelines.

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5.15 For deteriorating patients/study participants out-of-hours, please refer to CRF-CL-

SOP-10 'Out-of-Hours and Weekend Medical Cover for Studies Conducted in the

King's CRF'.

5.16 Check that the patient or participant has not signed a 'Do Not Attempt Resuscitation'

order.

5.17 A member of staff should collect an appropriate arrest trolley, either combined

paediatric/adult or adult only.

5.18 If a patient has collapsed, or a cardiac arrest has occurred, staff should initiate

cardiopulmonary resuscitation and defibrillation in line with Resuscitation Council

guidance and the KCH resuscitation policy.

5.19 Staff caring for the patient must activate the emergency alarm (the red triangular

pull button/red pull cord in the EMF or red push button/red pull cord in the CTF).

5.20 A member of clinical or non-clinical staff will contact the resuscitation team on 2222

stating 'adult cardiac arrest' or 'child cardiac arrest' as appropriate and give the

location straightaway.

5.21 On hearing the emergency alarm, the 3 (on the day) allocated CRF staff including

the Shift Leader MUST attend immediately. All other available staff must attend

immediately as well.

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Page 6 of 10

5.22 The following escalation procedure shall be followed for CRF staff and CRF Users for any emergencies in the **CTF** areas.

CTF researchers to immediately inform CTF Housekeeper and/or CTF security Officer



CTF Housekeeper and/or CTF security Officer to inform CRF Receptionist/Administrator.

After informing the CRF reception, CTF Housekeeper and/or CTF security Officer need to ring ext 37727 to inform the shift leader



Allocated CRF staff to meet where the emergency is and perform assigned duties as allocated during the CRF daily morning briefing



CRF Receptionist/Administrator to pull the Emergency button TWICE

In addition, the CRF reception staff should use the tannoy system to alert staff in the office in the annex for any emergencies



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Dogs 7 of 40

Page **7** of **10**

5.23 A member of staff should go to the nearest entrance to facilitate access for the

resuscitation team.

5.24 Once the resuscitation team arrive, a member of CRF clinical staff will hand over

to the resuscitation team using a structured handover technique, such as SBAR.

5.25 CRF staff should remain on hand to assist the resuscitation attempt. Staff should

be aware that the resuscitation team may be unfamiliar with the layout of the CRF.

Procedure following a successful resuscitation attempt:

5.26 The resuscitation team will arrange for the transfer of the patient to a ward or

appropriate critical care area in accordance with the KCH Cardiopulmonary

Resuscitation Operational Policy.

5.27 CRF staff should inform the participant's emergency contact that the participant's

condition has deteriorated, that he or she has been transferred and the place that the

participant has been transferred to. It may be appropriate to give further details.

5.28 The resuscitation trolley should be restocked, checked and sealed.

5.29 The patient's clinical notes and study documentation should be updated with a full

account of the emergency, action taken and outcome.

5.30 CRF staff should consider whether or not the emergency constitutes an adverse

event (AE), serious adverse event (SAE) or important medical event (IME) and report

in accordance with the study protocol and the CRF's Safety Reporting and

Pharmacovigilance SOP (CRF-QA-SOP-5).

5.31 CRF staff should consider whether or not the emergency constitutes a clinical

adverse incident. If so, an InPhase report must be submitted in accordance with KCH

policy.

5.32 CRF staff should inform the Principal Investigator of the event.

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6.0 Related documents & References

- 6.1 CRF-QA-SOP-5: Safety Reporting and Pharmacovigilance in the King's CRF
- 6.2 KCH Policy for the Management, Reporting, & Investigation of Adverse Incidents (including Serious Incidents)
- 6.3 KCH Cardiopulmonary Resuscitation Operational Policy
- 6.4 KCH Adult Trolley Daily Checklist
- 6.5 KCH Adult and Paediatric Trolley Daily Checklist
- 6.6 All KCH documents: http://kingsdocs/Pages/Home.aspx
- 6.7 Resuscitation Council guidelines: https://www.resus.org.uk/resuscitation-guidelines/
- 6.8 KCH Immediate Life Support Training Programme (ILS). Register on LEAP

7.0 List of Appendices

N/A

8.0 Approval and sign off

Approval and sign off are performed via Q-Pulse as described in *CRF-QA-SOP-3:* Preparation, Review, Approval and Release of Standard Operating Procedures in the King's CRF, version 7.0 dated 10 August 2023. All approval record are captured in the Document module section of the relevant SOP on Q-Pulse.

Author:	
Name: Danilo Nebres	
Position: CRF Lead Research Nurse	
Signature:	Date:
Approved by:	
Name: Elka Giemza	
Position: CRF Manager	
Signature:	Date:
Authorised by:	
Name: Professor Peter Goadsby	
Position: CRF Director	
Signature:	Date: