



The Threshold for Platelets study: Database Training





T4P MACRO training

V1.0 25 Sep 2022

Agenda

- T4P data collection and database training
- MACRO training: for new users or refresher



T4P Data Collection and Database Training

T4P MACRO training



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Overview

- MACRO is used for all data collection except randomisation
 - Sealed Envelope will be used for collection of randomisation data only
- Paper worksheets can be used optionally (apart from the Randomisation Form)
- All patients randomised to T4P should be entered on MACRO

Access to MACRO

- Access to the T4P database is granted to staff members authorised on the delegation log once is has been greenlighted for recruitment
 - https://ctu.icnarc.org/macro/
- An existing training video on MACRO data entry is available on the website:
 - ICNARC CTU training.icnarc.org



Access to MACRO

- Each user will receive an email confirming access has been granted
- Any staff already issued with a MACRO account will use their existing login details
- New users will be issued their MACRO username via email. You can use the password reset function to receive a temporary password via email before logging in for the first time.



Logging in

• Once a user account has been created and granted access to a study, the user can login and select the study and role



• Staff who work in more than one study can use the same MACRO account to access different databases.

Homepage

• The welcome message may be updated with relevant news





Visit Schedule

• Upon initial creation of a new patient record, only the Randomisation Form will be available

T4P/ba/(6)	Screening	Baseline	Observations Day	Consent	Outcomes	Serious Adverse Events	Follow up 90 days	Follow up 12 months
Randomisation	•				·			<u> </u>
Baseline Data		8						
Daily Data Page 1			8					
Daily Data Page 2			E					
Daily Data Page 3			8					
Deviation			8					
Consent								
Withdrawal of consent								
Outcomes								
Serious Adverse Events								
Survival Status 90 Days								
Survival status 12 months								E



Randomisation Form

- To be completed for all patients
 - You will be regularly notified of randomised patients who have not been added to MACRO
- Upon completion of the Randomisation Form, other Forms will



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Baseline Data Form

• This form needs to be completed on Day 1 (i.e., day of randomisation)

Baseline Data	ΤP
	Trial ID
Admission Details	
Date/Time Critical Care Unit Admission	(dd/mm/yyyy hh:mm 24-hour clock)
Unit ID for CMP	
Platelet transfusions prior to randomisation	on
Platelet transfusions received in 24 hours prior to rand	domisation
Anti-platelet therapies prior to randomisa	tion
Has the patient received any anti-platelet therapies in the past 7 days prior to randomisation?	○ Yes ○ No

8 🔶 🔒



Daily Data Forms

• Daily Data is split into 3 pages



Complete all 3 pages for each day



Daily Data Forms

• Daily Data is split into 3 pages



- Please note: Day 1 is the day of randomisation
 - This will potentially be a partial day. E.g., Patient is randomised at 16:00. Day 1 will finish at 23:59 on that day
- Final Day is the last day in critical care unit from 00:00 until discharge, death or refusal of consent for further data collection
- If patient is $\underline{readmitted}$ \rightarrow re-start data Daily Data collection until ultimate discharge



• Enter the Trial ID and date

 Enter the reason of why daily data collection has ended <u>if applicable</u>. This will stop creating further Daily Data Pages

Daily Data Page	1 of 3		ŢΡ
Date		Trial ID	
If data collection ended, reason Please ensure that all forms (Daily Data Pages 1,2 and 3) are saved after completing this question	 ○ Discharged ○ Died ○ Refused consent 		

• If patient is re-admitted. Clear the response and save the form. This will then allow you to continue entering data.

Platelet count & haemoglobin concentration

- Record all lab results on this day.
- If none → NR (not recorded)
- Otherwise:
 - Enter time when sample was <u>collected</u>
 - Platelet count
 - Haemoglobin concentration

Platelet count & hae (list all recorded mea	moglobin concentration asurements taken in thi	n is day)
Record central laborator	y results only (ie not from A	BGs / bedside tests etc)
If none, tick 'not recorded' (NR) ONR	
Select haemoglobin units	⊖ g/l ⊖ g/dl	
Time sample collected (24 hour-clock)	Platelet count (x10^9L)	Haemoglobin



.

Daily Data Page 1 **Co-interventions**

Co-interventions

Blood components/ products (excluding platelets)

Packed red blood cells	○ Yes ○ No	If yes, specify number of units	
Fresh frozen plasma	○ Yes ○ No		
Cryoprecipitate / fibrinogen concentrate	○ Yes ○ No		
Clotting factor concentrates	○ Yes ○ No		

Procoagulant therapies

Received systemic procoagulant therapies:	○ Yes
	⊖ No

lists examples of procoagulant, anticoagulant and anti-platelet therapies under each section to help identify these in the medical notes

The CRF Guidance document

Anticoagulant therapies	
Received systemic anticoagulant therapies:	 Prophylactic dose Other dose None
Anti-platelet therapies	

○ Yes Received anti-platelet therapies:

ONO



Low bleeding risk procedures

Received low bleeding risk invasive procedure today?



• If yes

- Select procedure on Tables 1 and/or 2
- Procedures can be selected multiple times
- If low bleeding risk procedure is not in either table
 - Select other and state which low bleeding risk procedure has been undertaken

TABLE 1: Low bleeding risk invasive procedure list



TABLE 2: Additional low bleeding risk procedure(s)





TABLE 1: Low bleeding risk invasive procedure list



- Enter start time
- The most current platelet count should have been used to guide intervention
- Reference to platelets given prophylactically for the procedure
 - IF!
 - 'Yes' was answered to platelets being below allocated threshold and NO was answered for platelet transfusion given OR vice versa → A warning will appear prompting you to complete a deviation form:

The	The following warnings have been generated:			
	Message	Overrule		
<u>^</u>	Please complete the platelet administration deviation form		Ŧ	

Bleeding episodes

O None

- Expected minor bleeding
- O Minor but outside expected bleeding
- O Major
- Fatal

If any bleeding episode meets the definition for a major or fatal bleed (HEME definitions), then please report as a SAE

Platelet transfusions

- If yes
 - Enter start time
 - Number of units (min. 1)
 - Reason



Bleeding episodes

• If any MAJOR or FATAL \rightarrow Report SAE



Organ Support

• If your unit is not on CMP V4 \rightarrow required to complete all fields



Deviation

- Select the main reason why the deviation occurred. Only one answer from scenario 1 or 2 can be selected.
- If another deviation needs to be reported → select 'YES'

(dd/mm/yyyy)	(hh:mm 24-hour clock)
Reason for deviation	
Platelet count greater than allocated threshold, before/during low bleeding risk invasive process	but platelet transfusion given lure
Select main reason	
	Ψ.
Other, specify:	
0.0	
UK	
Platelet count less than allocated threshold, but before/during low bleeding risk invasive proceder	platelet transfusion not given
Platelet count less than allocated threshold, but before/during low bleeding risk invasive procedu Select main reason	platelet transfusion not given ure
Platelet count less than allocated threshold, but before/during low bleeding risk invasive procedu Select main reason	platelet transfusion not given ure
Platelet count less than allocated threshold, but before/during low bleeding risk invasive proceder Select main reason	platelet transfusion not given ure
Platelet count less than allocated threshold, but before/during low bleeding risk invasive proced Select main reason Other, specify:	platelet transfusion not given

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Consent



on If approached but not yet consented, select mode of approach. If consent then obtained, update the mode of consent

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Consent Withdrawal

- If previously given consent/opinion is <u>withdrawn</u> please complete the consent withdrawal form
- If at least one option on the Consent form has been answered 'Yes' the Withdrawal of Consent form will be available for entry

ate of withdrawal of consent (dd/mm/yyyy)		
Vithdrawn by O Patient O Consultee		
Vithdrawn from:		
Select all that apply)		
Continued trial participation	⊖Yes ⊖No	۲
Continued data collection	⊖Yes ⊖No	•
Access to NHS Digital, Digital Health and Care Wales and Case Mix Programme	⊖ Yes ⊖ No	۲
Follow-up questionnaire	⊖Yes ⊖No	۲
Receiving summary of trial results	⊖Yes ⊖No	۲
Being contacted for future research	⊖Yes ⊖No	۲
Reason for withdrawal (if provided)		

Trial ID



Outcomes

- Date of discharge from your critical care unit should be the same as the final observations day date
- Record all readmission(s) and discharge(s) as appropriate.

Discharge from your critical care unit Status at discharge from your critical care unit ● Alive ○ Dead ● Dead ● Date of death (dd/mm/yyyy) ● (dd/mm/yyyy hh:mm 24-hour clock)

Readmitted to your critical care unit





Outcomes

- Enter details of thrombosis episodes
- Enter details of discharge from your hospital for this admission
- <u>Ultimate*</u> discharge from hospital may be from your hospital, or another hospital if they were discharged there
 - This may require communication with the receiving hospital team to find out ultimate discharge

• latest documented date of the admission being physically within an acute in-patient bed in an acute hospital, the acute hospital care having been continuous since discharge from your unit

Thrombosis

Venous or arterial th	rombosis diagnosed	® Yes	×
during this hospital a	Idmission	○ No	
Date of diagnosis	13/09/2022 V (dd/mm/yyyy)		

Discharge from hospital

Status at discharge from your hospital	Alive O Dead Date of death	•
If alive		
Date of discharge	14/09/2022	
Discharge location	 Home Nursing home Other hospital Rehabilitation centre Other 	O Ward Critical care unit
	Specify if other location	Enter name of hospital
		۲
Ultimate discharge f	from hospital (dd/mm/yyyy)	 Alive Dead

Death after hospital discharge

Date of death

www.icnarc.org

SAE

• If SAE is withdrawn please click 'yes' and state withdrawal date

SAE withdrawn?	O Yes	SAE ID:
SAE withdrawn date		

 Every time the form is modified the PI or assigned delegate will need to sign it off to confirm the changes

Local sign off

PI (or delegate) must re-sign each time this form is updated or changed

Assessed by (print name)

ii 🍅

I agree with the information provided in this SAE report, and its assessment



Survival Status 90 Days and 12 Months

 Sections will be available for data entry once the time point has passed. Complete forms as close after the due date as possible (i.e., Day 91 and Day 366)

O Alive O Dead	0	
Date (dd/mm	www	If alive, record date status confirmed If dead, record date of death on the outcome C If unable to ascertain, record date last known a
If unable to asc Reason unable t	ertain, please	record reason vival status



Date 90 days following randomisation 07/12/2022

Missing data

- Required questions will be chased as missing
- Notifications of missing data will be sent regularly
 - Please review the queries and enter any missing data or set as Not Available and explain the reason why

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Database validations

- Validations are programmed in the database to check data at the point of entry
 - Reject data validations must be resolved by providing data within the permitted conditions

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Database validations

- Validations are programmed in the database to check data at the point of entry
 - Warning validations will allow data to be entered
 - Check the value entered and amend the data if required. If confirmed to be correct, add a comment to explain
 - T4P team will review comments and if acceptable will overrule the warning

Data Clarification Requests

- Data Clarification Requests (DCRs) will be added with specific queries relating to data entered
- DCR responses will be reviewed by the trial team and closed if the response is sufficient



Questions?

• Any T4P database specific questions?



MACRO User Training

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Creating new subjects

• New participant records can be added using the 'Create a new study subject' button:





Creating new subjects

- A window will prompt selection of the study and site for the new participant
 - Only those studies and sites available to the specific user will be
 - visible

	Show site co	de: 🗆
Studies:	Sites:	
UKROX	Guy's Hospital	
	Site Code - gu Site Description - Guy's Hospital	



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• 'Open the Subject List page'



- This will produce a list of all the subjects associated with the study and site (e.g. User at site aa will only see aa subjects).
- You can then click on a subject in the list to open their visit schedule

Status	Study 🔺	Site	Subject ID	Subject Label	Last Modified
	FirstABCstudy 🗸	All Sites 👻			
A	FirstABCstudy	aa	1	99999D	2019/08/08 15:25:29 (GMT+
A	FirstABCstudy	ab	1	12345U	2019/08/08 12:23:03 (GMT+
A	FirstABCstudy	aa	2	67001D	2019/08/05 14:16:31 (GMT+
۲	FirstABCstudy	aa	3		2019/07/25 09:52:01 (GMT+
<u> </u>	FirstABCstudy	aa	4	12312U	2019/08/05 17:21:22 (GMT+

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Subject list

- Use filters to adjust the subject list
- Subject ID is assigned chronologically each time a patient is created this does not need to correspond with the trial number
- Subject label refers to the trial number

Status	Study	Site	Subject ID	Subject Label	Last Modified
	All Studies 🔹	SC 💌			
*	UKROX	SC	1	419001	2021/06/10 13:23:44 (GMT+1:00)
۲	UKROX	sc	2	419002	2021/06/11 12:27:09 (GMT+1:00)
۲	UKROX	SC	3	419003	2021/06/17 10:59:35 (GMT+1:00)
	UKROX	SC	4		2021/06/16 14:10:15 (GMT+1:00)

• 'Open the Recent Subject List page'



• Similar to Subject List, but only shows the 10 most recent records accessed by the

Status	Study 🔺	Site	Subject ID	Subject La
	All Studies	All Sites		
<u>^</u>	CIRCA	ad	2	999222
۲	CIRCA	aa	14	777222
۲	CIRCA	ai	11	333999
۲	FirstABCstudy	aa	39	22222U
A	FirstABCstudy	aa	1	99999D
۲	FirstABCstudy	aa	49	10002D
▲ ►	FirstABCstudy	aa	16	29999U
۲	OxyPICU_RCT	aa	50	20292
۲	REMAPCAP	aa	36	20290000
۲	REMAPCAP	aa	39	10170000

user

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 'Open the Subject QuickView panel' File View Tools

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- A list of patients will open in a panel on the left of the screen
- You can scroll through the list, and then double click on a patient to access their record

Subjects QuickView	<i>ı</i>
CIRCA/aa/111	
CIRCA/aa/111222	
CIRCA/aa/123999	
CIRCA/aa/23001	
CIRCA/aa/23002	
CIRCA/aa/777222	
CIRCA/aa/(1)	
CIRCA/aa/(5)	
CIRCA/aa/(6)	
CIRCA/aa/(7)	
CIRCA/aa/(8)	
CIRCA/aa/(10)	
CIRCA/aa/(11)	
CIRCA/aa/(12)	

Help

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 These methods are useful if there are only a few patients at your site

• 'Open the Search panel'

- This allows us to search for specific records by trial number.
- Ensure the search is set to 'Subject' and 'Label'

		<u> </u>	-	1	
Search				×	
Subject 💌	Q 🗖 🔚 🖉	>			
General					
Study	OxyPICU_RCT				
Site	All Sites				
Subject Gro	Subject Group All Subject Groups				
Subject					
			Label		

• The Subject/s you are searching for will be displayed

	-	🕹 💛 🏠	· 👒 🧐 🔍 🖾 🖻 📰 🕷 🐺 🏲 🏲	•		
General		Status	Study 🔺	Site	Subject ID	Subject Label
Study	OxyPICU_RCT V		All Studies	All Sites		
Site	All Sites 🗸					
Subject Group	All Subject Groups		OxyPICU_RCT	aa	16	99988
Subject	999	۲	OxyPICU_RCT	aa	17	99977
-		۰	OxyPICU_RCT	aa	18	99966
	O ID Cabel	۲	OxyPICU_RCT	aa	19	99995
		۲	OxyPICU_RCT	aa	20	99944
		۲	OxyPICU_RCT	aa	21	99922
		۲	OxyPICU_RCT	aa	58	10999
		۲	OxyPICU_RCT	aa	70	99999

• If the subject has not yet been created, MACRO will state 'No records to display'

		_	C - =	- ™ ™ ™ ™ ™ ™ ™ ™ ™ ™	
General			Status	Study 🔺	Site
Study	OxyPICU_RCT ~] [All Studies	All Sites 🔹
Site	All Sites 🗸			, in Statics	/ III Dites
Subject Group	All Subject Groups 🗸		No records to a	display.	
Subject	98765]			
	O ID				

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Status symbols

• Symbols indicate the status and history of each data item

🟠 🐚 🍇 🔍

.

• 'Open the Symbols and Function Keys panel'

• Every question is assigned a status based on the responses and the validations built into it

Data Queries

- There are 3 types of data queries that can be raised:
- Missing Data
- Validations
- Data Clarification Requests (DCRs)

Missing data

- If a question is Required, it will be chased as missing if an answer is not provided.
- If missing data cannot be resolved, questions can be marked Not Available status to stop this from being chased further.
 - Add a comment to inform the Trial Team the reason why the data is not available

Missing data

• Right click on the question to open the menu

Date/ Time of liberation from respiratory support*

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Validations

- Three types of validations, composed of a condition and message:
 - Reject: Message appears, data is deleted, no query generated
 - Warning: Message appears, and a query is saved in the database
 - Inform: Message appears, no query is generated

Reject data validations

• The database rejects the answer entered and does not save the data - a new answer must be provided

	ata	
Name	Sp02	
Value	120	
The entere	ed data has been rejected for the following reason:	
the data	1.	
	OK	
	OK	

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Warning validations

• Message appears as soon as data entered

Question In	formation		
Name Value	Age (years)		101 🥻
Warnings The following	warnings have been generated:		
Messag	e	Ove	
A Patient is the c	age is outside of the expected range. Please confirm if this prrect age.		

• Warning will close when the data is corrected where it no longer fulfils the condition or can be overruled.

Warning validations

• To view a warning

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Warning validations

- If a warning fires, check the data entered to ensure it is not a data entry error.
- If the data has been verified to be correct but still fires the warning, add a comment to explain the reason

10	1	🍂 (ve	ars)	Date/ I Ime of	12/04/2021 14:32	
		2	View Question Info	ormation		
		Đ	View Audit Trail			-
			View Warning			
Mor	ontrio	0	View Inform Messa	age		
wes	senunc		Comments	•	Add	
Life	threat		Notes	►	View	101 📈
			DCRs	►	Remove All	
13/0	4/2021		SDV Mark	<u> </u>		
of ra	ndomis		Change Status	•		
		>	Clear			
16/	Pro	pertie	es Warnings	G Comments	Audit Trail	
	The fo	ollowi	ng comments ar	e currently attach	ned to this question:	
	Pati	ent	date of birth	o confirmed to	be 11 May 1920 - ag	ge at the time of event is 101 years.

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Inform validations

- The inform status symbol will show after the data has been entered message does not show automatically
- Inform messages do not require any data to be amended, but provide information to the user

Mechanic	cally
Ventilated	d
● Yes ○ No	0

value	Dose 1: mechanically ventilated Yes	
Properties The following	Warnings Comments warnings have been generated:	
Patient SDD wa Admini	e has been reported as being mechanically ventilated but as not administrated. Please complete the SDD istration Deviation form for this timepoint.	
Admin	station Deviation form for this timepoint.	

Data Clarification Requests (DCR)

- Data Clarification Requests are manual queries added to the database.
- Sites can respond to DCRs, after which the blue flag appears.

Data Clarification Requests (DCR)View and respond to a DCR

		View Question Information View Audit Trail View Warning View Inform Message Comments	l ▶					
3 E DCR B	rowser	DCRs SDV Mark Change Status	• •	Add View				
Drag a c Prior	olumn h rity Dat	eader and drop it here to g e Status	roup by that c Subject	olumn Visit	eForm	Question	Value	User Name
> 5	202	21/06/03 15:35:43 Raised	UKROX/	Treatment	Enhanced data collection (00:00-23:00) (6)	SpO2	97	Alvin Richards- Belle
Drag a colu	wser umn heade	er and drop it here to group by	that column					
OC Id	Text This hour	has been flagged as the start o	f a potential prot	ocol deviation (SpO2 ab	ove target for at least 3 consecutive hours with r	no reduction in	FiO2). Ple	ease could you re

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Data Clarification Requests (DCR)

• View and respond to a DCR

	Value	User Name	OC Id	Text	Unique DCR Id	Print Batch
		Alvin Richards- Belle		ь: Re-ra	aise DCR	
				Resp	oond to DCR	
				Clos	e DCR	
				Edit	DCR	
				Set t	o Received	
-Set	DCR to	Responded				

Name	Reason for withdrawal/aspects withdrawn from	
Text	Patient declined to provide reason for withdrawal	
		OK
		Cancel

Query management

View all missing data, raised DCRs and responded DCRs for your site

		Question		Value	Date and Time	
			9	9	Ŷ	
		Site/Subject: UKROX/				
	Vis	it: Randomisation 🛎				
	-	eForm: Basic data collection.				
		Consultee approached?		۲	2021/05/05 15:03:37 (GMT+1:00)	
		Regained capacity prior to hospital discharge?		۲	2021/05/05 15:03:37 (GMT+1:00)	
Stu	idy/S	Site/Subject: UKROX/🖛/🗺002 🌻				
	Vis	it: Randomisation 🖲				
		eForm: Basic data collection.				
		Case Mix Programme Admission Number		٠	2021/05/05 15:05:25 (GMT+1:00)	
		Consultee approached?		۲	2021/05/05 15:05:25 (GMT+1:00)	
		Regained capacity prior to hospital discharge?		۲	2021/05/05 15:05:25 (GMT+1:00)	

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Reason for change

- 'Reason for change' will be prompted each time data are amended in MACRO after saving
- Reasons can be selected from a list or written as free text

vame	Name of event
Value	Atrial fibrillation
Please his que	enter or choose the reason for changing the value of stion.
	*
Data ent	ry error
Additior	al information

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Questions?

datamanagement@icnarc.org

