Royal Hospital for Women (RHW) NEONATAL BUSINESS RULE COVER SHEET



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SUMMARY	To identify potential cases, assist in clinical management and arrange appropriate follow up for neonates affected by NAIT.
Key Words	Neonatal Alloimmune Thrombocytopenia, NAIT, neonate





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Within this document we will use the term woman, this is not to exclude those who give birth and do not identify as female. It is crucial to use the preferred language and terminology as described and guided by each individual person when providing care.

1 BACKGROUND

Neonatal alloimmune thrombocytopenia (NAIT) or fetomaternal alloimmune thrombocytopenia (FNAIT) is a rare but serious condition. It is associated with significant neonatal morbidity and mortality, including a 20% risk of intracranial haemorrhage (ICH), which can occur either antenatally or postnatally.

The condition occurs due to an immune response caused by differing platelet antigens between the mother and the father. Platelet antigens, inherited from the father and expressed on foetal platelets but not the maternal platelets, are destroyed by maternal alloantibodies developed against such antigens, which cross into the foetal circulation via the placenta. The antibodies are directed against foetal platelet antigens from the human platelet antigen (HPA) system. Approximately 75% of cases in Caucasian populations are caused by anti-HPA-1a and 20% by anti-HPA-5b. In Asian populations, anti-HPA-4b is commonly causative. Other causative antibodies include anti-HPA-3a, anti-HPA-5b, anti-HPA-15a and anti-HPA-15b.

Immediate management includes investigation of the diagnosis, platelet transfusion including use of specific platelets (usually HPA-1bb in the first instance) to keep the platelet count above 30 x 10^9/L and immune-modulatory treatment.

2 **RESPONSIBILITIES**

2.1 Staff

- 2.1.1 Medical
 - Identify potential cases of NAIT.
 - Manage NAIT in a neonate as required
 - Inform parent/carer of management plans.
 - Liaise with haematology team for management and follow up.
 - Complete BloodSafe e-Learning training: Clinical Transfusion Practice.
 - Consent parent/cares prior to neonate receiving blood components.
 - Complete pre transfusion blood collection for testing.
 - Document in the neonate's electronic record the indication for receiving blood component.

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- Prescribe the blood component.
- Orders the blood component from Blood Bank.
- Review neonate following an adverse event as required.
- Report any adverse event in the Incident Management System (IMS+).
- Document in the patient's discharge summary that the patient received a blood component.
- Arrange appropriate follow up for neonates affected by NAIT.
- 2.1.2 Sydney Children's Hospital Haematology Team
 - Provide consultation for neonates affected by NAIT in collaboration with NCC Medical team.
 - Provide expert advice on the management of a neonate with NAIT.
 - Inform parent/carer of management plans.

2.1.3 Nursing

- Assist in clinical management of neonate affected by NAIT.
- Complete BloodSafe e-Learning training: Clinical Transfusion Practice and Blood Component competency assessment.
- Prepare patients to receive blood components.
- Organise transport of blood component.
- Complete patient identity and product compatibility check prior to administration of blood component.
- Monitor patient pre, during and post transfusion, record adverse events on patient record and IMS+.
- Organise returning unused blood product to Blood Bank.

2.1.4 Blood bank

- Dispense blood components.
- Accept return of blood components as required.
- Complete transfusion investigation report as required.

2.1.5 Porter

- Complete BloodSafe eLearning: Transporting Blood.
- Transport parent and neonatal blood samples to pathology.
- Transport blood components.

3 PROCEDURE

3.1 Equipment

- Adult Gold or red clot (no gel) vacutainer tube x1
- Adult EDTA (purple) vacutainer tube x2
- Neosafe® Butterfly needle (blue) for adult blood collection
- Insyte-N[™] 24GA intravenous catheter (yellow) (for neonatal blood collection)
- Neonatal EDTA (purple) tube, serum tube (yellow), Newborn blood screen test card (if not collected already)
- 0.5% Chlorhexidine swabsticks x5
- Dressing pack



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- Alaris closed neonatal blood set with 200µm filter
- Syringe driver
- 50mL syringe
- 2% chlorhexidine and 70% Isopropyl alcohol wipes x3
- 3mL syringe
- Sodium Chloride 0.9% ampoule
- Sodium Chloride 0.9% label
- 18G drawing-up needle
- Blue tray
- Non-sterile gloves
- Disinfectant wipes
- For medication administration equipment, refer to relevant Australasian Neonatal Medicines Formulary
- Documentation forms (see documentation list)

3.2 Clinical Practice

3.2.1 When to suspect NAIT:

- Severe thrombocytopenia in an otherwise well neonate, even if no history of NAIT in previous pregnancies (< 50 x 10^9/L) although NAIT can occur with mild/moderate thrombocytopenia (< 150 x 10^9/L)
- Thrombocytopenia in a neonate with petechiae or purpura, or other bleeding such as intracranial bleeding.
- Thrombocytopenia in a neonate with no alternative diagnosis, such as antenatal or postnatal infection, maternal auto-antibodies (especially maternal ITP), maternal medications, neonatal liver disease or collection error.
- NAIT in a prior pregnancy (although NAIT can occur commonly in the first pregnancy)

3.2.2 Diagnosis and immediate management:

- Obtain neonatal urgent full blood count if thrombocytopenia is suspected on history or clinical examination
- If the diagnosis is suspected:
 - Treat as NAIT (confirmatory tests may take a few days)
 - Consult Paediatric Haematology promptly.
 - Call Australian Red Cross Lifeblood (ARCL) 1300 478 348 (24- hour phone line). Website <u>www.transfusion.com.au</u>
 - Request the Medical Officer on call
 - Request rare platelets type HPA-1bb (also known as HPA-1a negative platelets), unless prior platelet genotyping on the parents is available to suggest use of another human platelet antigen (HPA) group.

Note:

HPA-1bb platelets are used in Australia because the most common mismatch in NAIT causes an alloantibody to HPA-1a platelet antigens, which present on the majority of donated platelet units). If other HPA antigen negative platelets are required, these will need to be sourced by Lifeblood.

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- Transfuse to keep neonatal platelet count above 30 x 10^9/L, and above 50 x 10^9/L if there is any suspicion of clinically relevant bleeding.
- It may be possible to provide platelets of another HPA-type if the HPA antibody is known. Rare platelets are sourced from Lifeblood.
- o Urgently collect blood from both parents and the baby
 - Complete the "Transplantation and Immunogenetics Services" Sample and Volume Requirements (Appendix A) and Platelet Investigation Request (Appendix B) forms
 - Forms can be downloaded from the ARC Lifeblood website <u>Forms | Lifeblood</u> (enter form names into search bar)
- Collect the following samples within working hours Monday to Friday (testing will not occur on a weekend) (Appendix C)
 - Mother 12mL serum (clot) tube (no gel) and 18mL EDTA (purple) tube
 - Father 18mL EDTA (purple) tube only
 - Neonate 0.5-2ml EDTA (purple) tube (preferred) or buccal swab; AND 1-2 mL serum (yellow), Newborn Bloodspot screen test (if not collected already)
- If samples are collected from both parents and the neonate at the same time, the same form can be used. Otherwise, use a separate form for each sample.
 - Fresh samples (collected within the last 48 hours) must be delivered, transported at ambient temperature, to ARCLS within working hours Monday to Friday (testing will not occur on a weekend)
 - Send blood samples directly with a porter to pathology
 - Advise NSWHP Randwick Blood Bank (extension 23232) and Lifeblood about urgency and transport of samples
 - Blood can be couriered to Lifeblood, to arrive as early as possible.

Note

Solid Phase platelet (intact platelet panels) antibody investigations and HPA genotyping are performed by Lifeblood urgently and results sent out as a preliminary result, which is followed up with definitive MAIPA assays (Monoclonal Antibody-specific Immobilisation of Platelet Antigens assay). MAIPA assays have been developed to allow identification and characterisation of antibodies directed against platelets (with platelet glycoproteins)

- If preliminary results are positive (for example if maternal serum alloantibodies to HPA-1a or other HPA antigens are detected) then the neonate needs **URGENT TREATMENT** to reduce the risk of ICH.
 - Due to the nature of testing, maternal HPA alloantibodies are **NOT** always detected in cases of NAIT, and thus reviewing the maternal and paternal genotype to screen for a HPA mismatch is also very important.
- Arrange head ultrasound to exclude ICH (further imaging may be required)
 - $\circ\;$ This should be done in all neonates with severe thrombocytopenia, regardless of cause.
 - \circ This should be performed as soon as possible as neonates are at high risk of ICH
- Consent parent/carer for any blood transfusions required (Appendix D)



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3.2.3 Treatment:

- Maintain platelet counts above 30 x 10^9/L and above 50 x 10^9/L if there is suspicion of clinically significant bleeding.
- Platelet transfusions are the mainstay of initial therapy, followed by Intravenous immunoglobulin (IVIG) and steroids in some cases. As per current ANZSBT guidelines, neonatal transfusions in babies < 28 days should be Cytomegalovirus (CMV) negative. Note, all platelet units are now irradiated. If CMV negative platelets are not available, then discuss with the paediatric haematologist)
- Ensure the neonate is ready to receive the platelet transfusion and is wearing an identification band.
- Ensure a newborn screening test has been completed prior to transfusion.
- Ensure there is a signed valid consent and a prescription for the blood and medication components.
- Ensure the neonate has a patent intravenous access device to receive the blood component.
- Check to see if the blood component is ready to be dispensed from Blood Bank via Patient Product Inquiry or phoning Blood Bank if not on eMR.
- Complete an 'Authority to Issue Blood Products Form' (pink form) (Appendix E) ensuring special requirements section is completed (i.e. Irradiated, CMV negative etc.).
- Blood components are collected from Blood Bank (Level 4 Campus Centre) by a PSA, Porter, EN, RN or MO
- Treatment guidelines:

Platelet- First line	
Transfusion volume	• 10-20 mL/kg
Duration	 Commence infusion immediately upon arrival, or return to Blood Bank for appropriate storage Infuse over 1 hour (30 minutes in emergency)
Note	 DO NOT RERIGERATE platelets Repeat Full blood count (FBC) testing is recommended (for neonates with severe NAIT) one-hour post-platelet transfusion. This can be helpful to determine response to the platelet transfusion and guide timing testing and/or transfusions. If there is no significant increment to random donor platelets, urgent effort should be made to seek HPA-1a negative platelets (as well as reconsidering the diagnosis e.g. maternal ITP) Advise Lifeblood of the neonate's clinical status and likely need for further rare platelets HPA-1a antigen negative platelets are preferred, but random donor platelets can also be used safely and effectively if HPA-1a antigen negative platelet transfusion if HPA-1a negative platelets are not available. Do not delay platelet transfusion if HPA-1a negative platelets are not readily available.

Record Number





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	team. Lifeblood will be the primary contact for this, as this
	procedure is not carried out in Blood Bank)
Intravenous Immuno	globulin (IVIG)- strongly recommended (refer to ANMF)
Transfusion volume	 1g/kg x 2 days
Duration	 0.5 mL/kg/hour for 60 minutes
	 Then 1 mL/kg/hour for next 60 minutes
	 2 mL/kg/hour for next 60 minutes
	 Then 4 mL/kg/hour (at a maximum rate of 25 mL/hour)
Note	Ordered from Lifeblood
	 All opened bottles must be used immediately.
	 Do not shake bottles to avoid foaming.
	 A 'peel-off' identification label with Batch Number and
	Expiry Date is to be placed on the patient's Blood
	Component order form.
	 Allow preparation to reach room temperature and inspect
	for turbidity or sediments. If seen, return to Blood Bank or pharmacy.
	Administration requires a surgically clean procedure.
	 Given via a dedicated intravenous cannula, central line or long line
	 Administered by infusion nump
	 A blood filter is not required but may be used
Methylprednisolone-	considered for severe/refractory NAIT
Note	 Seek advice from paediatric haematology in severe/
	refractory NAIT cases
	Where possible it is recommended to be administered
	separately from other medicines or infusion fluids
	 Monitor blood pressure, heart rate, and other vital sign
	before, during and after infusion
	 Monitor blood glucose before and 6-8 hourly for 24 hours

- For blood product administration information, refer to <u>Blood Product Transfusion</u> (Neonate), step 3.2.7.
- Treatment side effects to be discussed with the parents include (but are not limited to):
 - IVIG allergic/anaphylactic reactions, fever, headache, aseptic meningitis
 - Steroids hypertension (that may require additional treatment), hyperglycaemia, irritability, transient adrenal suppression
- Observations required pre and post transfusion:

Observations	Timing
 Temperature Respirations Heart rate Blood Pressure IV site 	 Baseline pre commencement of transfusion 15 min after commencement of transfusion Hourly until completed of transfusion At completion of transfusion



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3.2.4 Follow up

- As NAIT is purely a consequence of maternal alloantibodies directed against paternal platelet antigens, it will often resolve after 1-3 weeks as the maternal antibody titres reduce.
- Monitoring of platelet counts for at least 1-2 months post-delivery is recommended.
- Consider reporting the case to the Australian NAIT registry to inform epidemiological studies contact Lifeblood for this.
- Arrange paediatric haematology follow-up as an outpatient.
- Arrange referral for parents to a maternal foetal medicine specialist for follow up
- Advise parents that subsequent pregnancies are at risk and early antenatal, or preferably pre-conception, counselling with a maternal foetal medicine subspecialist is recommended. Note subsequent pregnancies can often be more severely affected.

3.3 Documentation

- eRIC
- eMR
- Transplantation and Immunogenetics Services Sample and Volume Requirement and Platelet Investigation Request forms
- Blood and blood products administration form
- Authority to Issue Blood Product form
- SEALS Blood Bank Issue Report checklist

3.4 Education Notes

3.4.1 Epidemiology

- NAIT accounts for 3% of all foetal and neonatal thrombocytopenia (defined as platelets < 150 x 109/L) and 27% of severe cases (platelets < 50 x 109/L)
- NAIT is associated with significant neonatal morbidity and mortality, including a 20% risk of ICH.
- NAIT can occur in the first pregnancy.
- Maternal alloantibodies are not always detected and thus HPA genotyping in both parents is required to determine a HPA antigen mismatch.
- Parents can have HPA antigen mismatches without developing NAIT.

3.4.2 Risk factors

- NAIT in a prior pregnancy is a risk factor for NAIT in subsequent pregnancies, especially where there is known discordance between parental HPA (human platelet antigen) types (see table below)
- HPA types vary in frequency across racial groups. The most frequent cause of NAIT in a Caucasian population is anti-HPA-1a antibodies and in Asian populations are anti-HPA-4a antibodies
- Other HPA antibodies implicated in NAIT include anti-HPA-3a, anti-HPA-5b, anti-HPA-15a and anti-HPA-15b
- Severe NAIT and ICH in a prior pregnancy greatly increases the risk of ICH in subsequent pregnancies

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3.4.3 Future pregnancies

- Through NAIT testing, parental HPA typing is determined and the risk to future pregnancies can be predicted (see table below)
- In-utero HPA genotyping can be performed on DNA extracted from amniocytes (DNA extraction, and confirmatory testing that DNA is of foetal origin, is performed by the Molecular Genetics Unit at Prince of Wales Hospital) –the DNA is then referred to the Tissue Typing Department at the ARCLS for HPA-genotyping
- Amniocytes should also be cultured in the cytogenetic laboratory to allow for subsequent retesting if needed
- If NAIT is considered likely either from history and/or prenatal invasive diagnosis, antenatal therapy may be institute, usually within the second trimester (this may include IVIG and/or steroids and possible in-utero platelet transfusion)
- Treatment depends on the previous history of severity of thrombocytopenia, including any history of previous ICH
- Lifeblood can be contacted peri-partum to ensure availability of specific platelets. A follow-up antibody screen post-partum is often useful, to confirm genotyping and determine if additional HPA antibodies have developed

Causative Maternal HPA allo-antibody	Maternal HPA type	Paternal HPA type	Offspring HPA type	Platelets required for transfusion
Anti-HPA-1a	HPA-1bb	HPA-1aa	If father HPA-1aa, then	HPA-1bb
antibody		or	100% of offspring are	T he set of the set o
		HPA-1ab	HPA-1ab, therefore	These are negative
I hese maternal			100% affected	for HPA-1a
antibodies are				antigens, to which
directed against			If father HPA-1ab, then	the maternal
HPA-1a			50% of offspring affected	alloantibodies are
antigens			(HPA-1ab)	directed
expressed on				
the neonatal			Offspring who are HPA-	
platelets			1bb will be unaffected	

3.5 Abbreviations

NAIT	Neonatal Alloimmune Thrombocytopenia	FNAIT	Fetomaternal Alloimmune Thrombocytopenia
ICH	Intracranial Haemorrhage	HPA	Human Platelet Antigen
IMS+	Incident Management System	ARCL	Australian Red Cross Lifeblood
IVIG	Intravenous immunoglobulin	ANZSBT	Australian and New Zealand Society of Blood Transfusion
MAIPA	Monoclonal Antibody-specific Immobilisation of Platelet Antigens	CMV	Cytomegalovirus
FBC	Full blood count	ITP	Immune thrombocytopenia

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3.6 Related Policies/procedures

- RHW NCC CBR- Blood product transfusion Neonate
- RHW NCC CBR- Deteriorating neonate Recognition and management inside newborn care centre
- RHW NCC CBR- Peripheral Intravenous Cannula Insertion and Dressing
- SESLHD- POWH/SSEH CLIN013_2022 Blood Component Management and Administration
- SESLHD- POWH CLIN018 Blood Component Management and Administration
- NSW Health Policy Directive PD 2018_042 Blood Management
- NSW Health Policy Directive IB 2020_010 Consent to Medical and Healthcare Treatment Manual

3.7 References

- 1. Bonacossa IA, Jocelyn LJ. Alloimmune thrombocytopenia of the newborn: neurodevelopmental sequelae. American Journal of Perinatology. 1996;13:211-5
- 2. McQuilten Z, Wood EM, Savoia H et al. A review of pathophysiology and current treatment for neonatal alloimmune thrombocytopenia (NAIT) and introducing the Australian NAIT registry. Australian and New Zealand Journal of Obstetrics and Gynaecology. 2011;51:191-8
- 3. Serrarens-Janssen VM, Semmekrot BA, Novotny VM et al. Fetal/neonatal allo-immune thrombocytopenia (FNAIT): past, present, and future. Obstetrical & Gynecological Survey. 2008; 63:239-52
- 4. Burrows RF, Kelton JG. Fetal thrombocytopenia and its relation to maternal thrombocytopenia. New England Journal of Medicine. 1993;329:1463-6
- 5. Bassler D, Greinacher A, Okascharoen C et al. A systematic review and survey of the management of unexpected neonatal alloimmune thrombocytopenia. Transfusion. 2008; 48:92-8
- 6. Kiefel V, Bassler D, Kroll H et al. Antigen-positive platelet transfusion in neonatal alloimmune thrombocytopenia (NAIT). Blood. 2006;107: 3761-3
- 7. Lifeblood. Platelet disorders. Accessed Dec 30 2024 <u>www.lifeblood.com.au/health-professionals/clinical-practice/clinical-indications/platelet-disorders</u>.

4 ABORIGINAL HEALTH IMPACT STATEMENT DOCUMENTATION

- Considerations for culturally safe and appropriate care provision have been made in the development of this Business Rule and will be accounted for in its implementation.
- When clinical risks are identified for an Aboriginal and/or Torres Strait Islander woman or family, they may require additional supports. This may include Aboriginal health professionals such as Aboriginal liaison officers, health workers or other culturally specific services

5 CULTURAL SUPPORT



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- For a Culturally and Linguistically Diverse CALD woman, notify the nominated crosscultural health worker during Monday to Friday business hours
- If the woman is from a non-English speaking background, call the interpreter service: <u>NSW Ministry of Health Policy Directive PD2017 044-Interpreters Standard</u> <u>Procedures for Working with Health Care Interpreters.</u>

6 NATIONAL STANDARDS

- Standard 1 Clinical Governance
- Standard 4 Medication safety
- Standard 5 Comprehensive Care
- Standard 7 Blood Management

7 REVISION AND APPROVAL HISTORY

Date	Revision No.	Author and Approval
4/2/2013	1	Sydney Children's Hospital and the Australian Red Cross – Marion Mateos (Haem/Onc Fellow, SCH), Glenn Marshall, Sue Russell, David Ziegler, Helen Pearson RHW NICU – Tim Schindler (NCC Staff Specialist), Srinivas Bolisetty (NCC Lead Clinician), Antonia Shand (MFM Consultant)
5/4/2018	2	NCC LOPS Committee
4/12/2024	3	Marion Mateos (Paediatric Haematologist/Oncologist), Steven Lamb (Transfusion Senior Scientist), Melanie Jackson (Paediatric Haematologist), Tim Schindler (Neonatologist)
5.12.2024		Endorsed by NCC CBR Committee
14.4.25	3	RHW BRGC





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APPENDIX A: Parental blood sample information

- +							
Lifeblo	od	ORCP	A NATA	ABHIR			
imple Dellve	ary (24 hours)	,	ASHI accreditation NATA accredit Accredited for compl Standards and	n: 02-9-AU-01-1 Ization: 18808 Trans Ilance with NPAAC d 180 15189	plantation and	immunogenetic	s services Lifeblood
		Samp	le and Volu	ime Requiremer	nts		
quest forms	orm:	pleted accurate)	y and have legible I	handwriting. Alternatively, t	he request form	n can be filled o	ut online or a hospital
bel can be us	sed. Ensure the request form con	tains a minimur	n of three unique is	dentifiers (e.g., full name, de	ste of birth, UR/	'MRN).	
sure that all Pat Dat	l tubes, at a minimum, are clearly ient's full name (family name and te of birth.	(labelled with th d given name/s)	e below informatio	on and the information on t	he form matche	s that on the sa	mple tube(s):
• Dat	te of collection, as indicated on th	he request form					
ELIVERIES	c						
Victorian Service	Transplantation and Immunoge	enetics NSI Ser	W Transplantation vice	& Immunogenetics	South Austral	ian Transplanta tics Service	tion &
Australia	n Red Cross Lifeblood	Aus	tralian Red Cross L	ifeblood	Australian Rec	d Cross Lifebloo	d Jacob
100-154	4, Batman Street,	Do	ck A – Blood Inward	is	Core Laborato	ory, Level 4, Rieg	er Building
West Me Phone: 0	Ibourne, VIC 3003 3 9694 0354	17 Pho	O'Riordan Street, A	lexandria NSW 2015	72 King Willia Phone: 08 841	m Road, North /	Adelaide SA 3006
Phone: 03 9694 0354			Phone: 02 9234 2322		Phone: 08 8417 3000		
DL-VICVT PECIMEN: mples (othe ossmatch. mples for ve mples sent f	ISAdmin@redcrossblood.org.au r than frozen samples) should be srification typing are to be collect for crossmatch prior to living ren	maintained at r ted on separate al transplantatio	noom temperature.	EDTA or buccal swab can be e, they must be collected at ked. Please email the labora	tissuetypingse e used in place o different collect atory (see email	of ACD except fo tion times. address details	d <u>.org.au</u> r lymphocyte above).
DL-VICVT PECIMEN: mples (othe ossmatch, mples for ve mples sent f	r than frozen samples) should be rification typing are to be collect for crossmatch prior to living ren AN TRANSPLANTATION	maintained at r ted on separate al transplantatio	NSWTTCBO@redd oom temperature. days. If not possible n must be pre-boo	EDTA or buccel sweb can be e, they must be collected at ked. Please email the labora STEM CELL TRAN	tissuetypingse e used in place o different collect story (see email	of ACD except fo tion times. address details	d <u>orgau</u> r lymphocyte above].
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Record Number

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Version: 4 Date Effective: 29/07/2024



Neonatal Alloimmune Thrombocytopenia (NAIT)

RHW CLIN136

APPENDIX B1: Platelet Investigation Request Form

Australian Red	Cross Od	U Hard Ca	RCI	PA	NATA Accre	ditation No:	18808	Dr James Daly Medical Director Pathology Services 221517LF Accredited for compliance with NPACC Standards and ISO 15189
		Plate	elet ir	nvesti	gation F	Reque	st	
Instructions for fill	ing in this f	orm. The fo	orm cai	n be fille	d in using	your PC	2	
1. Complete appro	priate sectio	ons on Page	1 and p	provide r	equired add	itional ir	nformation	as indicated on Page 2.
2. Collect the appr	opriate sam	ple tubes as	specif	ied on Pa	age 3.			There the first Descent
Form found here https://www.lifeblood.com.au/health-professionals/learn/resource-library								
 For Platelet Tran complete Required https://lifeblood. 	nsfusion Re lest for HL/ com.au/hea	fractoriness A/HPA Com Ith-professio	(PTR) patible onals/le	or Trans Platele eam/reso	fusion supp ts - Clinica ource-library	ort inhe I Inforn (rited plate nation For	let function disorder, please rm found here
Testing Laboratory	Select							•
Please send samples to								
Phone				Email				
Patient details								
Last Name					First Name	e		
Gender	Select	-	MR	N/UR			DOB	
Referring clinician na	ame					Date re	equested	
Signature						Phone		
Email All reports will be s	ent by email.							
Referring laboratory	name							
Email						Phone		
Person completing t	the form (if	different fro	om abo	ove)				
Name								
Email						Phone		
Sample collection								
our interview						Collect	tion	
Collector's name						date &	time	
Patient's signature						Date		
Please attach sample label/barcode	>							
latelet investigation Request RM-02189 /ersion: 8								Web <u>lifeblood.com.au</u> Effective date: 09/09/2024 Page 1 of 3



RHW CLIN136

APPENDIX B2: Platelet Investigation Request Form

ORCPA

Australian Red Cross
Australian Acu Cross
Lifeblood

NATA
NATA Accreditation No: 18808

Dr James Daly Medical Director Pathology Services 221517LF Accredited for compilance with NPACC Standards and ISO 15189

Patient details						
Last Name				First Name		
Gender	Select	•	MRN/UR		DOB	
Clinical details						

Platelet Immunology – Indication for testing and additional information as required

Autoantibodies for Immune Thrombocytopenia (Only performed if the platelet count is <100 X 10 ⁹ /L)					t count is <100 X 10º/L)
Platelet count			x 10%L	Date of test	
IVIg received	Yes	No		Date of last IVIg dose	
Platelet transfusion	Yes	No		Date of last transfusion	
				•	

Post Transfusion Purpura (PTP)				
Date of transfusion		Product/s	transfused	PLT Red Cells FFP
Pre-transfusion platelet count		x 10 ⁹ /L	Date of test	
Post-transfusion platelet count		x 10 ⁹ /L	Date of test	

Platelet Glycoprotein Expression

Drug Induced Immune Thrombocytopenia (DITP)

(Note: Please discuss with the respective Lifeblood Platelet/Neutrophil Reference Laboratory prior to request. Testing for Heparin Induced Thrombocytopenia (HIT) is not performed at Lifeblood).

Name/s of medication/s implicated (Samples of medication MUST be sent with specimen)

Date medication was started		Date of onset of thrombocytopenia	
Pre-medication platelet count	× 10 ⁹ /L	Date of test	
Post-medication platelet count	× 10 ⁹ /L	Date of test	

Platelet Investigation Request FRM-02189 Version: 8 Web lifeblood.com.au Effective date: 09/09/2024 Page 2 of 3



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APPENDIX C: Platelet Sample Collection Guidelines

Austra	lian Red Cross eblood		Dr James Daly Medical Director Pathology Services 221517LF Accredited for compliance with NPACC Standards and ISO 15189
	Platelet Imr	nunology Sample Collection G	uidelines
Investigati	on request and samples	Special instructions and indicative turnaround time	Storage and transport instructions
Autoantibo thrombocy	odies for Immune topenia	Testing will only be performed if the platelet count is <100 X 10 ⁸ /L.	Store and transport at room temperature within 48 hours of collection.
18 mL EDT. 6 mL serum	A or ACD and (Clot)	If difficult, collection from a child 2- 4mL serum (clot) only.	
		Note: Laboratory turnaround time is 6 working days.	
Post Trans 8 mL EDTA (clot)	fusion Purpura (PTP) and 12ml serum	None Note: Laboratory turnaround time is up to 2 working days	Store and transport at room temperature.
Adult Child	8 mL EDTA and 12ml serum (clot) 2-3 mL EDTA only	Collect between 9 am and 3 pm, Monday – Thursday only. Notify Platelet and Neutrophil laboratory when collected. Note: Laboratory turnaround time is 3 working days	Do not centrifuge EDTA tubes. Store and transport at room temperature within 24 hours of collection.
Drug Induc Thrombocy 8 mL EDTA sample of t	ed Immune ytopenia (DITP) , 12 mL serum (clot) and a the medication*	Medications must be sent in the same form as given to patient e.g. tablets, liquid for IV infusion. Provide the dose administered and patient's weight. Note: Laboratory turnaround time is 10 working days.	Store and transport at room temperature.





RHW CLIN136

Appendix D: Blood & Blood Products Consent Form

Weath Image: Signal and Signal Action Action Signal Action Action Action Action Ac		FAMILY NAME		MRN
Linexteening biodingening constructions and an adverse reaction to blood products Facility: ADDRESS BLOOD & BLOOD PRODUCTS ADDRESS BLOOD & BLOOD PRODUCTS ADDRESS BLOOD & BLOOD PRODUCTS ADDRESS COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE MEDICAL OFFICER TO COMPLETE PRIOR TO ADMINISTRATION COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE MEDICAL OFFICER TO COMPLETE PRIOR TO ADMINISTRATION COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE MEDICAL OFFICER TO COMPLETE PRIOR TO ADMINISTRATION COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE MEDICAL OFFICER TO COMPLETE PRIOR TO ADMINISTRATION CONSENT FOR BLOOD/BLOOD PRODUCTS (to be signed by Patient/Parent/Guardian). Interpreter present? Ves N Dr has discussed my present condition and as part of the management has recommended the administration of blood products for myself / my child / person under guardianship. I have neade and understand the written information. I have reactive dimformation absolute the insk. Immediate and alternatives to treatment with blood products. I have had the opportunity to ask questions and answers to my questions. I understand that I may withdraw this consent at any time prior to, or during the treatment. I understand that I may withdraw this consent at any time prior to, or during the treatment. I understand that I may withdraw this consent at any time prior biol of products and answers to my questions. I understand that I mature of the treatment described above for myself / my child / person under guardianship. Consenting Medical Officer: Prever Medical Officer's Bynature Medical Officer's Bynature Medical Officer's Bynature Medical Officer's Bynature Date Sign here for one admission episodes for the next 12 months. Mere of Parent/Caent/Caent/Caent/Caent	Health	GIVEN NAME		
	Ilawarra Shoelhaven Local Health District	008 / /	MO	CO MALE D PENALE
BLOOD & BLOOD PRODUCTS ADMINISTRATION LOCATION / WARD COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE MEDICAL OFFICER TO COMPLETE PRIOR TO ADMINISTRATION Indication for blood/blood products Previous adverse reaction to blood products? Indication for blood/blood products Previous adverse reaction to blood products? CONSENT FOR BLOOD/BLOOD PRODUCTS (to be signed by Patient/Parent/Guardian) http://www.present?? CONSENT FOR BLOOD/BLOOD PRODUCTS (to be signed by Patient/Parent/Guardian) http://www.present?? Indication of blood products Previous adverse reaction to blood products. Indication and as part of the management has recommended the administration of blood products for myself / my child / person under guardianship. Inhave nead and understand the written information. has discussed my present confliction and as part of the management has recommended the administration of blood products. Inhave nead and understand the written information. has discussed information. Inhave tad the opportunity to ask questions and an astaffed with the explanations and answers to my questions. Inderstand the nature of the treatment and that undergoing the treatment. Inderstand the nature of the treatment addecribed above for myself / my child / person under guardianship. Consenting Medical Officer's Name Medical Officer's Bynature Pager No. Date	Facility:	ADDRESS		
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CONSENT FOR BLOOD/BLOOD PRODUCTS (to be signed by Patient/Parent/Guardian) interpreter present?? Yes Net Dr				
Print Medical Officer's Name Medical Officer's Signature Pager No. Date If a valid consent has been sighted the patient DOES NOT need to sign again. Please write date of original consent here and sign below. The second secon	 I have received information about the risks, ben I have read and understand the written informat I have had the opportunity to ask questions and I understand the nature of the treatment and the I understand that I may withdraw this consent a I understand that this consent will be reviewed i I hereby consent to the treatment described 	nefits and alternatives to treatment tion. d am satisfied with the explanation at undergoing the treatment carrie at any time prior to, or during the tr if my condition or circumstances of a bove for myself / my child / pe	with blood / s and answe s risks. eatment. hange. rson under	blood products. rs to my questions. guardianship.
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RHW CLIN136

Appendix E Authority to Issue Blood Products

Please check on Patient Product Inquiry to ensure product from Blood Bank.	the blood product is ready for collection prior to requesting the
Unless you have a designated satellite blood fridge adequately prepared.	e please do not request blood products until patient and staff are
Ward	
Theatre	Sumame:
	First Name:
Please deliver to the messenger:	MRN: D.O.B.:
units Packed Red Cells	Secolal Demoissments
units Platelets	
units Extended Life Plasma (adult	size)
units Fresh Frozen Plasma (adult	size) Other.
units Fresh Frozen Plasma (paedi	atric size)
units Cryoprecipitate	Critical Bleeding Protocol
5% Normal Serum Albumin 500ml	
5% Normal Serum Albumin 250ml	Pack 1
20% Normal Serum Albumin 100n	nL Pack 2
20% Normal Serum Albumin 50ml	ROTEM
arams Intravenous Immunoolobuli	- in Immunoglobulin (specify)
grams Subcutaneous Immunoglob	pulin (specify)
Anti-D 250IU	
Anti-D 625IU	
Prothrombinex-VF®	
Tetanus immunoolobulin-VE (250	10
	(other please specify)
Authorised by:	(print)
Signature	
Date: Time:	
Note:	
 The messenger must deliver the blood product The blood product must not be stored in a way 	ct to the ward/theatre immediately after collection
 If there is a delay in administering a blood pro 	duct or it is no longer required it MUST be stored in a satellite
blood fridge (red cells only) or returned to Blo Single use dispensing applies unless critical h	od Bank within 30 minutes of the product being dispensed
 angle use aspensing applies unless chical t satellite blood fridge is available to store red of 	vecting protocor has been activated, apheresis procedure of