NTD Patient Recruitment and Data Extraction Processes

FOR LABORATORY INFORMATION SYSTEMS (LIS)
Australian Sites

Version 2.0, dated 26 September 2024

The following document is intended as a quick reference guide for HIS/CPU/HIE staff delegated to perform the necessary National Transfusion Dataset (NTD) data extraction. Please refer to the NTD Project Outline for a detailed description of the project and the NTD Data Variables for a complete list of the data items to be extracted.

Recruitment and Data Extraction Strategy

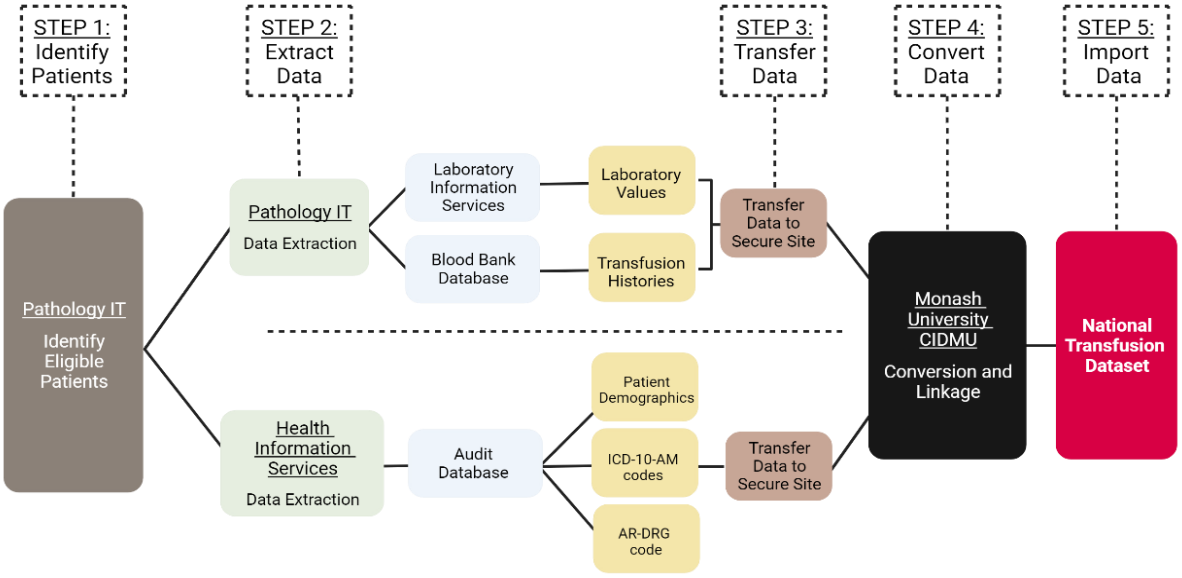

Figure 1. Data Extraction and Data Linkage Strategy employed by the ANZ-MTR at Australian sites

Pathology IT Requirements:

	ACTION
STEP 1	• **Transfer the list of eligible patients** (including medical record number, full name, date of birth and gender) with the **start date of the transfusion** to a delegated staff member in Health Information Services unit (or equivalent department) so that they can extract each patients' relevant admissions data • Conduct the Blood Bank database query on an annual basis or as agreed with the NTD project team
STEP 2	• **Extract all relevant lab test results and transfusion data** (as per NTD dataset) for each patient identified in the relevant recruitment period • To ensure all relevant labs test results and transfusion data are included in the extraction, **increase the date range of the query** beyond the recruitment period (±2 months). For example, for the recruitment period of Oct-Dec 2024, please extract all relevant lab/ transfusion data between August 2024 and February 2025 (inclusive) for all identified patients
STEP 3	• Before transferring data to Monash University, ensure that the file/s follow the NTD naming convention and are in the **standard** format (see examples and 'Important Notes' below). • Transfer extracted data using **Secure File Transfer Protocol (SFTP):** https://www.monash.edu/researchinfrastructure/helix/capabilities/data-security or see attached SFTP Standard Operating Procedure

*Sites are may wish to extract data for the ANZ-MTR more frequently. Please contact the NTD project team to discuss the requirements at your site

Important Notes

- Please keep the file type (e.g. '.xlsx', '.csv') as well as all column names and their order the same as the previous data extraction. Necessary changes to a site's data format need to be discussed with the NTD Project Manager in advance
- NTD naming convention example:
  'YYMMDD_NTD_Hospital_HIS_RecruitmentPeriodYear.filetype'
  (e.g. 230605_NTD_ALF_HIS_Jan-March2023.xlsx')
- Contact NTD Staff (sphpm.ntd@monash.edu) if you require a SFTP login or are having technical difficulties

Example of lab results data extract (please note that the format may differ between hospitals however, the SAME format should be provided each time)

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	MRN	EPISODE #	FIRST	FAMILY	DOB	SEX	ADM ID	TEST CODE	TEST DESCRIP	TEST DATE	TEST TIME	VALUE	TEST UNITS
2	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4800	Sodium Activity	14/02/2012	11:50:00PM	128	mmol/L
3	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4805	Potassium Activity	14/02/2012	11:50:00PM	4	mmol/L
4	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4807	Chloride Activity	14/02/2012	11:50:00PM	104	mmol/L
5	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4820	pH (measured)	14/02/2012	11:50:00PM	7.5	
6	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4830	Actual HCO3	14/02/2012	11:50:00PM	18	mmol/L
7	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4835	Base Excess	14/02/2012	11:50:00PM	-4.3	mmol/L
8	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4840	pCO2 (measured)	14/02/2012	11:50:00PM	23	mmHg
9	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4846	pO2 (measured)	14/02/2012	11:50:00PM	85	mmHg
10	12345678	11111111	JOHN	SMITH	30/01/1927	M	123456	B4879	Calcium (ionised)	14/02/2012	11:50:00PM	1.22	mmol/L
11	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4800	Sodium Activity	23/03/2012	3:43:00AM	134	mmol/L
12	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4805	Potassium Activity	23/03/2012	3:43:00AM	4.1	mmol/L
13	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4807	Chloride Activity	23/03/2012	3:43:00AM	101	mmol/L
14	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4820	pH (measured)	23/03/2012	3:43:00AM	7.47	
15	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4830	Actual HCO3	23/03/2012	3:43:00AM	31	mmol/L
16	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4835	Base Excess	23/03/2012	3:43:00AM	6.3	mmol/L
17	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4840	pCO2 (measured)	23/03/2012	3:43:00AM	42	mmHg
18	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4846	pO2 (measured)	23/03/2012	3:43:00AM	39	mmHg
19	87654321	22222222	JANE	DOE	25/03/1931	M	654321	B4879	Calcium (ionised)	23/03/2012	3:43:00AM	1.14	mmol/L
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Example of transfusion data extract (please note that the format may differ between hospitals however, the SAME format should be provided each time)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R
1	MRN#	FIRST	FAMILY	DOB	SEX	ADM ID	PRD LOT #	RECEIVED DATE	RECEIVED TIME	PRODUCT	DONATION #	EXPIRY DATE	BLOOD GROUP	PRODUCT EVEN	QUANTITY	EVENT_DATE	EVENT TIME
2	12345678	JOHN	SMITH	18/06/1947	M	123456	xxxxxxxx	6/02/2012	5:53:53 PM	RBC in SAG-M LD	xxxxxxx- 1	17/02/2012	A Pos/A Rh(D) Positive	Transfused	1	10/02/2012	2:40:00 PM
3	12345678	JOHN	SMITH	19/06/1947	M	123456	xxxxxxxx	7/02/2012	4:37:17 PM	RBC in SAG-M LD	xxxxxxx- 2	17/02/2012	A Pos/A Rh(D) Positive	Transfused	1	18/02/2012	8:29:02 AM
4	12345678	JOHN	SMITH	20/06/1947	M	123456	xxxxxxxx	6/02/2012	4:49:04 PM	RBC in SAG-M LD	xxxxxxx- 3	19/02/2012	O Pos/O Rh(D) Positive	Transfused	1	11/02/2012	6:08:21 PM
5	12345678	JOHN	SMITH	21/06/1947	M	123456	xxxxxxxx	20/02/2012	5:06:18 PM	FFP (300mL = 2 units)	xxxxxxx- 4	6/02/2013	O Pos/O Rh(D) Positive	Transfused	1	24/02/2012	11:45:16 AM
6	12345678	JOHN	SMITH	22/06/1947	M	123456	xxxxxxxx	10/02/2012	4:58:54 PM	RBC in SAG-M LD	xxxxxxx- 5	23/02/2012	A Pos/A Rh(D) Positive	Transfused	1	19/02/2012	10:42:44 AM
7	12345678	JOHN	SMITH	23/06/1947	M	123456	xxxxxxxx	10/02/2012	4:58:33 PM	RBC in SAG-M LD	xxxxxxx- 6	22/02/2012	O Pos/O Rh(D) Positive	Transfused	1	22/02/2012	10:00:00 PM
8	12345678	JOHN	SMITH	24/06/1947	M	123456	xxxxxxxx	7/02/2012	4:35:55 PM	RBC in SAG-M LD	xxxxxxx- 7	7/03/2012	A Pos/A Rh(D) Positive	Transfused	1	18/02/2012	9:21:04 AM
9	12345678	JOHN	SMITH	25/06/1947	M	123456	xxxxxxxx	7/02/2012	4:35:47 PM	RBC in SAG-M LD	xxxxxxx- 8	7/03/2012	A Pos/A Rh(D) Positive	Transfused	1	15/02/2012	6:30:00 PM
10	12345678	JOHN	SMITH	26/06/1947	M	123456	xxxxxxxx	14/02/2012	4:48:20 PM	RBC in SAG-M LD	xxxxxxx- 9	27/02/2012	A Pos/A Rh(D) Positive	Transfused	1	19/02/2012	10:41:15 AM
11	12345678	JOHN	SMITH	27/06/1947	M	123456	xxxxxxxx	1/03/2012	4:43:14 PM	RBC in SAG-M LD	xxxxxxx- 10	3/04/2012	A Pos/A Rh(D) Positive	Transfused	1	2/04/2012	12:29:45 PM
12	87654321	JANE	DOE	17/12/1963	F	654321	xxxxxxxx	10/02/2012	2:29:31 PM	PLT pool - SSP+LD	xxxxxxx- 11	13/02/2012	O Pos/O Rh(D) Positive	Transfused	1	13/02/2012	8:55:58 AM
13	87654321	JANE	DOE	18/12/1963	F	654321	xxxxxxxx	10/02/2012	2:29:42 PM	PLT pool - SSP+LD	xxxxxxx- 12	13/02/2012	O Pos/O Rh(D) Positive	Transfused	1	13/02/2012	8:55:58 AM
14	87654321	JANE	DOE	19/12/1963	F	654321	xxxxxxxx	13/02/2012	4:40:46 PM	PLT pool - SSP+LD	xxxxxxx- 13	15/02/2012	O Pos/O Rh(D) Positive	Transfused	1	17/02/2012	11:18:40 AM
15	87654321	JANE	DOE	20/12/1963	F	654321	xxxxxxxx	15/02/2012	8:27:01 PM	PLT pool - SSP+LD	xxxxxxx- 14	18/02/2012	A Pos/A Rh(D) Positive	Transfused	1	17/02/2012	11:18:49 AM
16	87654321	JANE	DOE	21/12/1963	F	654321	xxxxxxxx	17/02/2012	4:46:13 PM	PLT pool - SSP+LD	xxxxxxx- 15	20/02/2012	A Pos/A Rh(D) Positive	Transfused	1	20/02/2012	9:08:27 AM
17	87654321	JANE	DOE	22/12/1963	F	654321	xxxxxxxx	17/02/2012	4:48:06 PM	PLT pool - SSP+LD	xxxxxxx- 16	20/02/2012	A Pos/A Rh(D) Positive	Transfused	1	19/02/2012	8:44:13 AM
18	87654321	JANE	DOE	23/12/1963	F	654321	xxxxxxxx	3/02/2012	4:55:12 PM	Cryoprecipitate	xxxxxxx- 17	29/01/2013	O Neg/O Rh(D) Negativ	Transfused	1	18/02/2012	8:59:01 AM
19	87654321	JANE	DOE	24/12/1963	F	654321	xxxxxxxx	17/02/2012	4:34:59 PM	Cryoprecipitate	xxxxxxx- 18	5/02/2013	O Pos/O Rh(D) Positive	Transfused	1	10/03/2012	1:51:44 PM
20	87654321	JANE	DOE	25/12/1963	F	654321	xxxxxxxx	17/02/2012	4:35:42 PM	Cryoprecipitate	xxxxxxx- 19	5/02/2013	O Pos/O Rh(D) Positive	Transfused	1	10/03/2012	1:51:52 PM
21	87654321	JANE	DOE	26/12/1963	F	654321	xxxxxxxx	24/02/2012	4:58:16 PM	RBC in SAG-M LD	xxxxxxx- 20	26/03/2012	O Pos/O Rh(D) Positive	Transfused	1	13/03/2012	2:30:00 PM
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