NTD Patient Recruitment and Data Extraction Processes

FOR HEALTH INFORMATION SERVICES (HIS) *(or equivalent department)/*
CLINICAL PERFORMANCE UNIT (CPU)/HEALTH INFORMATION EXCHANGE (HIE)

Version 2.0, dated 31 October 2023

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.
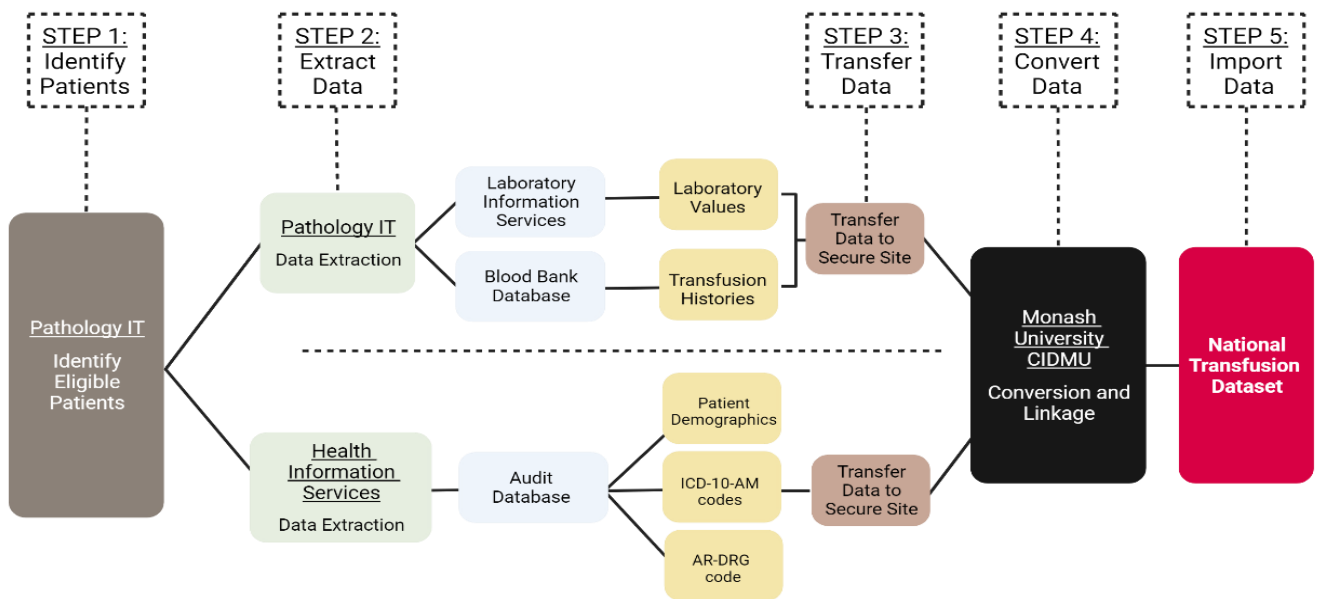
Recruitment and Data Extraction Strategy

Figure 1. Data Extraction and Data Linkage Strategy employed by the NTD for Australian sites

HIS/CPU/HIE Requirements:

	ACTION
STEP 1	*NO ACTION REQUIRED* – a list of patients eligible for the NTD will be forwarded to you by your hospital's Pathology I.T. on a **biannual basis***
STEP 2	• **Extract all relevant administration and coding data** (as per NTD dataset) for each patient identified in the relevant recruitment period. Please ensure that data for **ALL 'episodes of care'** within the formal hospital admission are extracted, not just the episode in which the transfusion took place
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 'Important Notes' and examples below). • Transfer extracted data using **Secure File Transfer Protocol (SFTP):** https://www.monash.edu/researchinfrastructure/helix/capabilities/data-security

*Sites are may wish to extract data for the NTD more frequently. Please contact the NTD project manager 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 HIS Administration data extract (please note that the format may differ between hospitals however, the SAME format should be provided each time)

MRN	FIRST	FAMILY	DOB	SEX	EPI_ID	EPI SEQ #	EPI START DATE	EPI START TIME	EPI END DATE	EPI END TIME	ADMDATE	ADM TIME	ADM TRANS	SEP TRANS	ADM TYPE	SEPDATE	SEP TIME	HOSP_LOS	HOSP_LOS	ICU_HRS	VENT_TIME	SEP MODE	SPEC NAME	SPEC UNIT	ANDRG	DRG DESC	DRG TYPE
123456789	John	Smith	16/02/1918	M	10000001	1	31/03/2012	10:14:00	19/04/2012	11:26:0	31/03/2012	10:14:00	n/a	n/a	1	14/05/2012	13:40:00	19	589	0	0	9	Medical	Geriatric	G46A	Compli	O
123456789	John	Smith	16/02/1918	M	10000002	2	19/04/2012	11:26:00	14/05/2012	13:40:0	31/03/2012	10:14:00	n/a	n/a	1	14/05/2012	13:40:00	25	775	0	0	1	Medical	Geriatric	G61A	GI Hae	M
123456789	John	Smith	16/02/1918	M	10000001	1	16/05/2012	09:03:00	21/05/2012	18:18:0	16/05/2012	09:03:00	n/a	n/a	1	23/05/2012	11:18:00	5	10	0	0	9	Medical	Geriatric	I08B	Other F	S
123456789	John	Smith	16/02/1918	M	10000002	2	21/05/2012	18:18:00	23/05/2012	11:18:0	16/05/2012	09:03:00	n/a	n/a	1	23/05/2012	11:18:00	2	4	0	0	5	Medical	Geriatric	I78A	Fractur	M
123456789	John	Smith	16/02/1918	M	10000001	1	24/05/2012	13:16:00	15/06/2012	09:30:0	24/05/2012	13:16:00	n/a	n/a	1	18/06/2012	08:00:00	22	44	0	0	9	Medical	Geriatric	E62A	Respira	M
123456789	John	Smith	16/02/1918	M	10000002	2	15/06/2012	09:30:00	18/06/2012	08:00:0	24/05/2012	13:16:00	n/a	n/a	1	18/06/2012	08:00:00	3	6	0	0	7	Medical	Geriatric	E62A	Respira	M
987654321	Jane	Doe	25/11/1944	F	20000001	1	20/02/2012	12:20:00	12/05/2012	10:10:0	20/02/2012	12:20:00	XX Hospi	XX Hosp	2	12/05/2012	10:10:00	82	5166	147	0	1	General S	Upper G	H01A	Pancre	S
987654321	Jane	Doe	25/11/1944	F	20000001	1	5/06/2012	16:18:00	8/07/2012	21:50:0	5/06/2012	16:18:00	XX Hospi	XX Hosp	1	8/07/2012	21:50:00	33	297	0	0	7	Medical	Oncology	801A	OR Pro	S
234567891	Mary	Le	11/03/1930	F	12345678	1	19/03/2012	09:30:00	8/04/2012	15:22:0	19/03/2012	09:30:00	XX Hospi	ICU	2	8/04/2012	15:22:00	20	280	24	0	1	General S	Upper G	H01A	Pancre	S
876543219	Sarah	Johnson	7/08/1939	F	987654321	1	31/12/2011	03:27:00	11/01/2012	16:00:0	31/12/2011	03:27:00	n/a	n/a	1	11/01/2012	16:00:00	11	88	0	0	1	Medical	Haemato	E62B	Respira	M
876543219	Sarah	Johnson	7/08/1939	F	987654321	1	7/02/2012	14:15:00	29/03/2012	14:15:0	7/02/2012	14:15:00	n/a	n/a	1	31/03/2012	13:30:00	51	4386	0	0	9	Medical	Haemato	D06Z	Sinus a	S
876543219	Sarah	Johnson	7/08/1939	F	987654322	2	29/03/2012	14:15:00	31/03/2012	13:30:0	7/02/2012	14:15:00	n/a	n/a	1	31/03/2012	13:30:00	2	172	0	0	7	Medical	Haemato	R61A	Lymph	M

Lab data / Tx Data / **Admin Data** / Diag Data / Proc Data

Example of HIS Diagnosis Codes data extract

	MRN	ADM_ID	EPI SEQ #	DIAG TYPE	DIAG CODE	DIAG DESC	CONDITION ONSET FLAG
2	987654321	123456789	1	01	M8012/6	Large cell carcinoma NOS, metastatic	2
3	987654321	123456789	1	02	C34.3	Malignant neoplasm of lower lobe, bronc	2
4	987654321	123456789	1	03	M8012/3	Large cell carcinoma NOS	2
5	987654321	123456789	1	04	J95.8	Other postprocedural respiratory disorde	1
6	987654321	123456789	1	05	J93.9	Pneumothorax, unspecified	1
7	987654321	123456789	1	06	T81.0	Haemorrhage and haematoma complica	1
8	987654321	123456789	1	07	J94.2	Haemothorax	1
9	987654321	123456789	1	P	C79.88	Secondary malignant neoplasm of other	2
10	987654321	123456789	2	01	C79.88	Secondary malignant neoplasm of other	2
11	987654321	123456789	2	02	M8012/6	Large cell carcinoma NOS, metastatic	2
12	987654321	123456789	2	03	C34.3	Malignant neoplasm of lower lobe, bronc	2
13	987654321	123456789	2	04	M8012/3	Large cell carcinoma NOS	2
14	987654321	123456789	2	05	J95.8	Other postprocedural respiratory disorde	2
15	987654321	123456789	2	06	J93.9	Pneumothorax, unspecified	2
16	987654321	123456789	2	07	T81.0	Haemorrhage and haematoma complica	2
17	987654321	123456789	2	08	J94.2	Haemothorax	2
18	987654321	123456789	2	P	Z50.9	Care involving use of rehabilitation proce	2
19	987654321	123456789	3	01	J93.9	Pneumothorax, unspecified	2
20	987654321	123456789	3	02	Y83.8	Other surgical procedures	2
21	987654321	123456789	3	03	Y92.22	Health service area	2
22	987654321	123456789	3	04	C79.88	Secondary malignant neoplasm of other	2
23	987654321	123456789	3	05	M8012/6	Large cell carcinoma NOS, metastatic	2
24	987654321	123456789	3	06	C34.3	Malignant neoplasm of lower lobe, bronc	2
25	987654321	123456789	3	07	M8012/3	Large cell carcinoma NOS	2
26	987654321	123456789	3	08	Z86.43	Personal history of tobacco use disorder	2
27	987654321	123456789	3	P	J95.8	Other postprocedural respiratory disorde	2
28	987654321	123456789	4	01	J95.8	Other postprocedural respiratory disorde	2
29	987654321	123456789	4	02	J93.9	Pneumothorax, unspecified	2
30	987654321	123456789	4	03	J90	Pleural effusion, not elsewhere classified	2
31	987654321	123456789	4	04	Y83.8	Other surgical procedures	2
32	987654321	123456789	4	05	Y92.22	Health service area	2
33	987654321	123456789	4	06	C34.3	Malignant neoplasm of lower lobe, bronc	2
34	987654321	123456789	4	07	M8012/3	Large cell carcinoma NOS	2
35	987654321	123456789	4	08	C79.88	Secondary malignant neoplasm of other	2
36	987654321	123456789	4	P	Z50.9	Care involving use of rehabilitation proce	2

Lab data / Tx Data / Admin Data / **Diag Data** / Proc Data

Example of HIS Procedure Codes data extract

	MRN	ADM_ID	EPISODE SEQ NO.	PROCEDURE TYPE	PROCEDURE DATE	PROCEDURE CODE	PROCEDURE DESC
2	987654321	123456789	1	01	15/09/2012	38488-01	Replacement of aortic valve with bioprosthesis
3	987654321	123456789	1	02	15/09/2012	38497-01	Coronary artery bypass, using 2 saphenous vein grafts
4	987654321	123456789	1	03	15/09/2012	38600-00	Cardiopulmonary bypass, central cannulation
5	987654321	123456789	1	04	15/09/2012	55118-00	2 dimensional real time transoesophageal ultrasound of heart
6	987654321	123456789	1	05	15/09/2012	92514-40	General anaesthesia, ASA 40
7	987654321	123456789	1	06	20/06/2012	13882-01	Management of continuous ventilatory support, more than 24 hours and less than 96 hours
8	987654321	123456789	1	07	15/09/2012	92515-99	Sedation, ASA 99
9	987654321	123456789	1	08	15/09/2012	92209-01	Management of noninvasive ventilatory support, > 24 and < 96 hours
10	987654321	123456789	1	09	15/06/2012	38218-00	Coronary angiography with left heart catherisation
11	987654321	123456789	1	10	20/06/2012	97521-01	Adhesive restoration of anterior tooth, 1 surface, direct
12	987654321	123456789	1	11	15/09/2012	97311-05	Removal of 5 - 9 teeth or part(s) thereof
13	987654321	123456789	1	12	15/09/2012	97114-00	Removal of calculus from surfaces of teeth
14	987654321	123456789	1	13	15/09/2012	11506-00	Other measurement of respiratory function
15	987654321	123456789	1	14	15/09/2012	13706-02	Administration of packed cells
16	987654321	123456789	1	15	15/09/2012	92062-00	Administration of other serum
17	987654321	123456789	1	16	15/09/2012	13706-03	Administration of platelets
18	987654321	123456789	1	17	15/09/2012	95550-03	Allied health intervention, physiotherapy
19	987654321	123456789	1	P	20/07/2012	33500-00	Carotid endarterectomy

Lab data / Tx Data / Admin Data / Diag Data / **Proc Data**

Ready — 100%

Contact details:

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