

TISSUE TYPING – BLOOD TESTING FOR THE KIDNEY TRANSPLANT WAITING LIST

Cross references	Australian Red Cross Blood Service NSW tissue typing Investigation Cover Request Form, found at: http://resources.transfusion.com.au/cdm/ref/collection/p16691coll1/id/49
1. Purpose	The accurate and timely collection of specimens required by the Australian Red Cross for the kidney transplant waiting list and live donor kidney transplants

2. Process

2.1 Initial and confirmatory testing (KR1 & KR2)

Initial and confirmatory testing (KR1 & KR2) for entry onto the transplant waiting list is conducted by the Australian Red Cross Blood Service (ARCBS) Tissue Typing Department in Sydney. Specimens must be sent with the Tissue Typing Request Form to the blood bank to the ARCBS.

Blood for these tests may be collected Monday to Thursday.

Specimens required for initial and confirmatory tissue typing (KR1 & KR2):

- 60 ml ACD (canary yellow top tube): 6 tubes x 10ml
- 9 ml EDTA (large purple top tube): 1 tube
- 10 ml Clotted sample with gel (large gold top tube): 1 tube

Confirmatory tissue typing (KR2) is done at least one week after the initial tissue typing.

All tubes must be clearly labelled with the patient's name, date of birth, date of collection and time of collection. Hospital labels may be used but samples will not be accepted by the Red Cross if a date and time of collection are not recorded.

2.2 Maintaining patients on the transplant list

A monthly maintenance sample known as CYT (cytotoxic antibody screening) is required for all patients who are active on the kidney recipient list. Specimen must be received by the Red Cross prior to 18th of each month and sent to ARCBS with a Tissue Typing request form.

Specimens required for monthly tissue typing (CYT)

- 10 ml Clotted sample with gel (large gold top tube): 1 tube

All tubes must be clearly labelled with the patient's name, date of birth, date of collection and time of collection. Hospital labels may be used but samples will not be accepted by the Red Cross if a date and time of collection are not recorded.

**RENAL DEPARTMENT
Workplace Instruction (WPI)**

2.3 Live donor transplants

Samples sent for tissue typing of live donor pairs must be pre-booked with the ARCBS by the transplant coordinators and received at the ACRBS by 8.30am on the scheduled day of the test. Specimens may be collected the day prior to testing to ensure that they are available on the day of the test.

Specimens required for Stage 1, 2 and 3 tissue typing of live donor pairs:

Recipient:

- 60 ml ACD (canary yellow top tube): 6 tubes x 10ml
- 9 ml EDTA (large purple top tube): 1 tube
- 10 ml Clotted sample with gel (large gold top tube): 1 tube

Donor:

- 60 ml ACD (canary yellow top tube): 6 tubes x 10ml
- 9 ml EDTA (large purple top tube): 1 tube

All tubes must be clearly labelled with the patient's name, date of birth, date of collection and time of collection. Hospital labels may be used but samples will not be accepted by the Red Cross if a date and time of collection are not recorded.

3. Network file	SGH Renal department website, pathology collection at SGH, TSH & POW
4. External references / further reading	
5. Specialty/department committee approval	SGH Renal Transplant
6. Department head approval	Prof Mark Brown, Department Head, Renal
7. Executive sponsor approval – NCD or CGM	Danni Stanisic, A/NCD Medicine

Revision and Approval History

Date published	Revision number	Author (Position)	Date revision due
May 2015	0	Tania Burns, Renal Transplant CNC	May 2018