OrganMatch Transplantation Portal

The purpose of this document is to provide the users of the OrganMatch – Transplantation Portal a detailed guide to the data fields and functionality in OrganMatch.

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1. Access to OrganMatch

Access to OrganMatch can be requested by clinicians and transplant coordinators in transplant units and clinical units in Australia and New Zealand. Access must be approved by the head of the transplant or clinical unit. OrganMatch Lab users cannot request access on the behalf of the clinicians. All requests should be referred to the National OrganMatch Office.

There are four roles that can be assigned in the Transplant portal:

- Provider – can view all screens, download reports, add and reply to notes.
- Coordinator – additional functionality includes the ability to edit selected data fields
- ANZKX Coordinator – view all records of patients/donor enrolled for ANKX.
- Registration – ability to create a new person record and program enrolment

Request forms can be accessed on the OrganMatch Website.

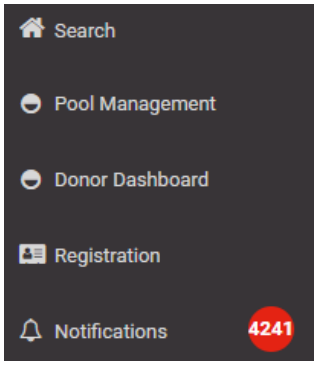
www.donatelife.gov.au/for-healthcare-workers/organmatch

OrganMatch Transplantation portal allows the clinical units to view information on recipients and living donors to which they have access. Access to data is determined by linkage via the Provider or Hospital Links.

Note: You can only view a recipient or a living donor you are linked to via the Provider or Hospital Links. Please contact your OrganMatch Laboratory to notify them of any changes to recipient/donor Provider or Hospital Links.

2. Main Menu

The following menu options are available:



2.1 Search

Recipient and donor records can be searched using:

- OM ID
- Name
- Date of Birth
- Hospital reference
- National reference.

2.2 Pool Management

Pool Management displays all recipients enrolled on a current organ program. These are tailored specifically for each organ program and pathway.

For further information, see Section *3. Pool Management*

2.3 Donor Dashboard

The Donor Dashboard will display a list of deceased organ donors. The donors will be viewable to the transplant or clinical unit under the following conditions:

- Must have access to the recipient

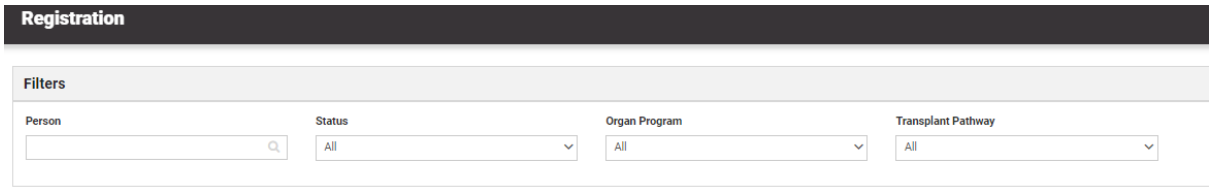
- Match event is completed and published by the lab

For further information, see Section *5. Donor Dashboard.*

2.4 Registration

Registration is where patients and donors can be registered for different organ programs and pathways in OrganMatch. If the user has access, this menu item will be viewable. The In Progress tab displays records that have been created but not submitted and are not viewable in the Lab Portal. The Completed tab displays records that have been submitted and therefore enrolled on an Organ Program in OrganMatch.

The list can be filtered on Person, Status, Organ Program or Transplant Pathway.

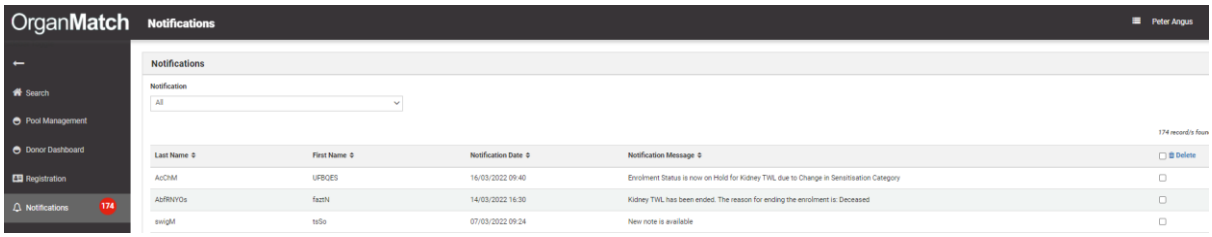


2.5 Notifications

Transplantation Portal Notifications are generated when the following actions are performed in the OrganMatch Laboratory Module:

- Status changes to an enrolment
- An On Hold enrolment changes from “In Progress” to “Waiting for hospital activation”
- A report is authorised
- Willing to accept criteria is authorised
- Urgency status verified
- A note is added for a person
- An enrolment is ended
- Update to KDPI min – max field

Notifications can be filtered via the dropdown menu and can be deleted from the Notifications screen.

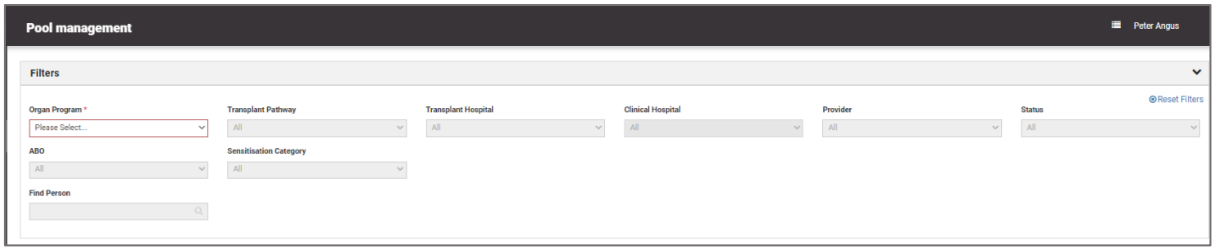


For further information, see Section *6. Notifications*.

3. Pool Management

The following screen shot shows examples of the filters in pool management.

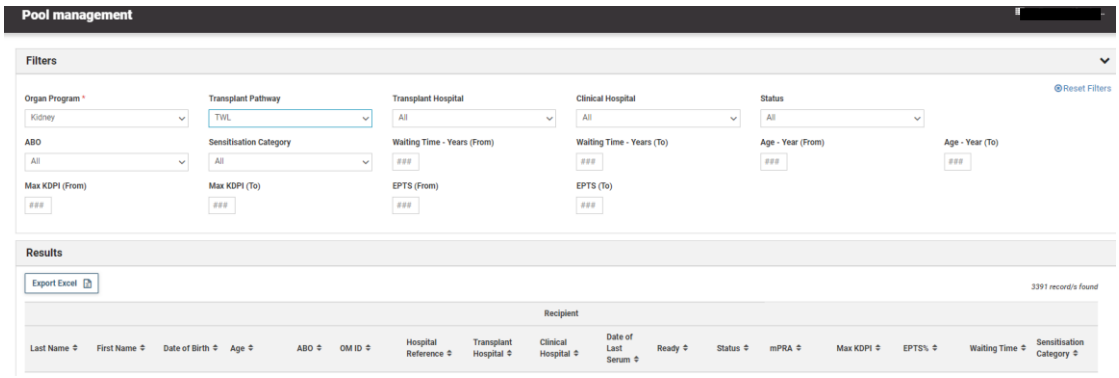
The generic view is as follows:



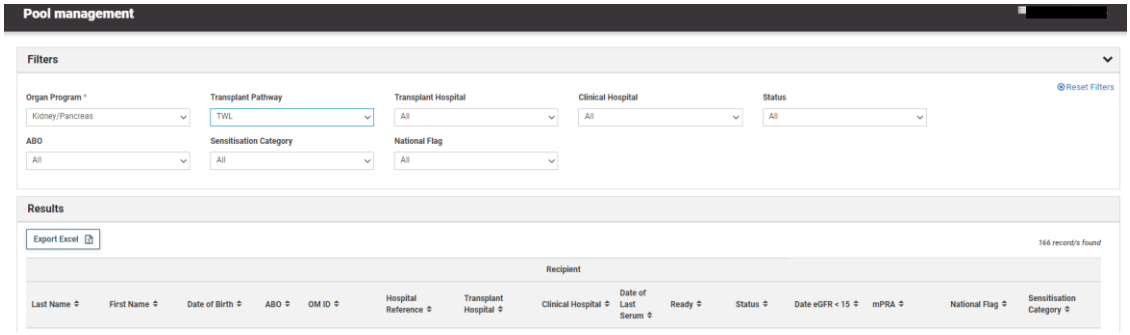
[redacted]

Transplantation Portal users can use the pool management screen to view basic information relevant to each program for current enrolments. A search filter is available to search for specific person within the current filtered results.

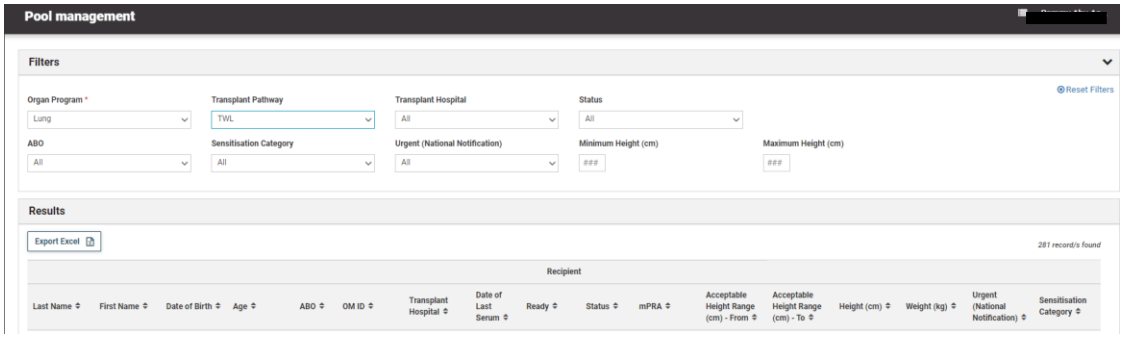
Kidney TWL



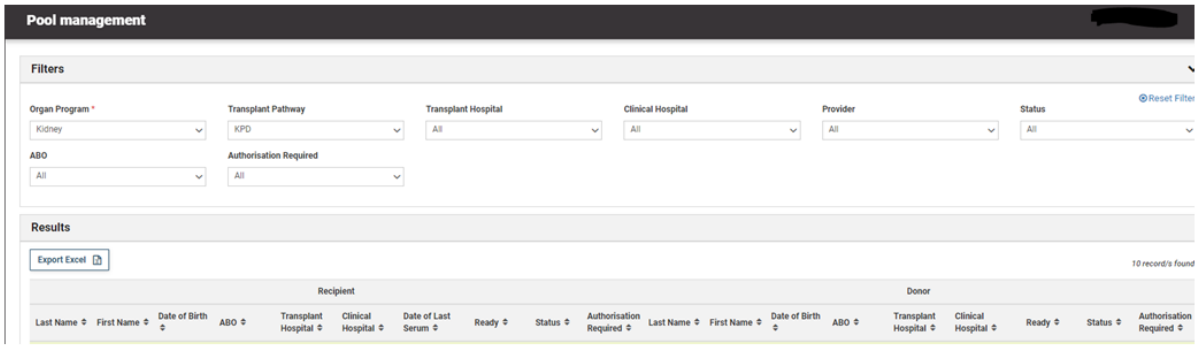
Kidney/Pancreas TWL



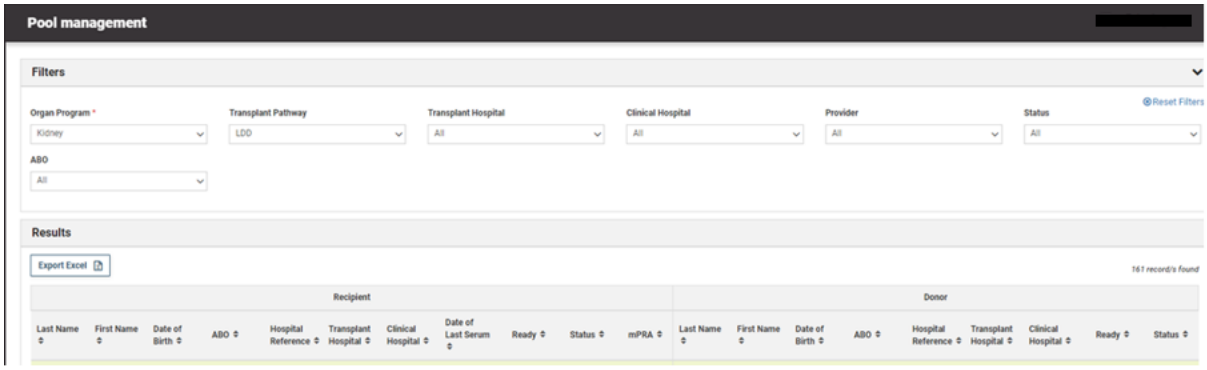
Lung TWL



Kidney Paired Donation (KPD)



Living Directed Donor (LDD)



Data can be extracted using the **Export Excel** button.

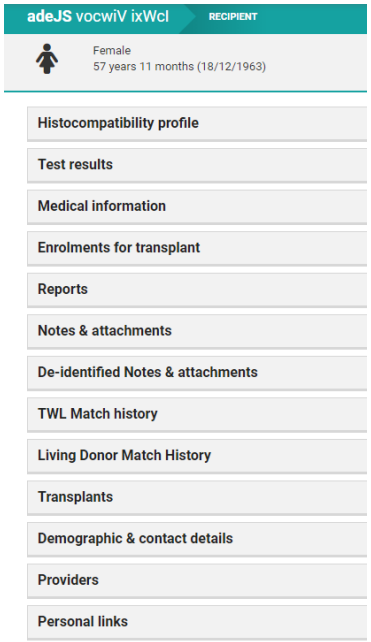
The Export Excel function will export data on patients into an excel file.

Note: Organ Program and Transplant Pathway must be selected in the filters for the Export Excel button to appear.

See Appendix 1: *Data Extract Fields* for Data included in the extract.

4. Patient information

Patient information is found in the Match Profile.



4.1 Histocompatibility Profile

4.1.1 HLA Typing

The HLA typing of the patient is displayed. HLA results are used in matching. For further details such as testing method, test date, refer to patient report issued by the laboratory.

4.1.2 Unacceptable Antigens (UA) and Acceptable Antigens (AA)

Sensitisation Category is displayed in this section.

An assessment of factors, such HLA antibodies, previous transplant mismatches are used when defining a list of HLA donor antigens would be considered unacceptable for an individual recipient.

- TWL UA will potentially exclude the patient from progressing through to the matching algorithms and are therefore will be ineligible to be offered a kidney from any deceased organ donor with those antigens.
- Living Donor UA will exclude KPD patients from being eligible to be offered a kidney from a live donor on the KPD with those HLA antigens

Acceptable Antigens are used in specific cases, for example if the patient has an allele specific antibody.

There are three types of Unacceptable antigens in Organ Match

- Antibody sourced - as a result of HLA antibody test results
- Previous donor mismatch
- Other - HLA antigens added from other sources such as those to avoid high eplet loads.

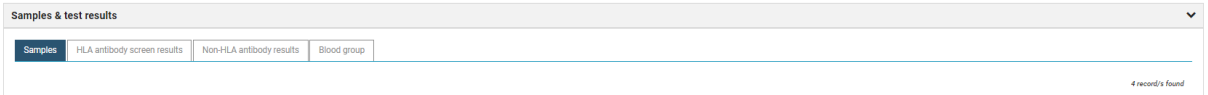
Contact your local HLA lab for further explanation of UA.

3.1.3 mPRA (Match calculated panel reactive antibody)

Provides an estimate of the percentage of deceased organ donors that will be incompatible for a recipient based on the antigens assigned as unacceptable. The mPRA represents the HLA antigen frequency in the population, based on a pool of donors from the Australian population. If more than one HLA antigen is unacceptable, the mPRA is the total frequency of the HLA antigens.

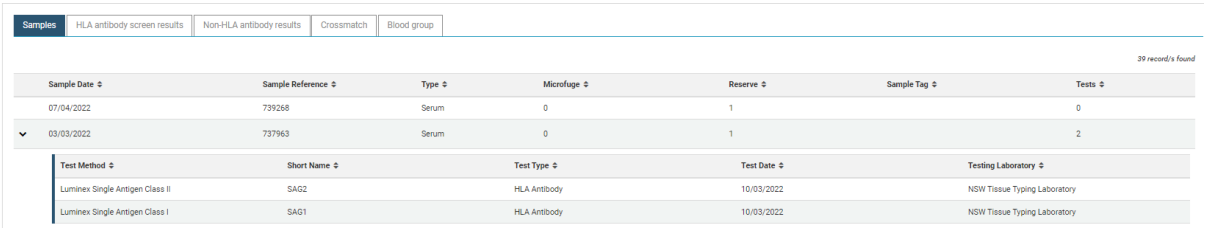
4.2 Test Results

The following tabs are viewable



4.2.1 Samples

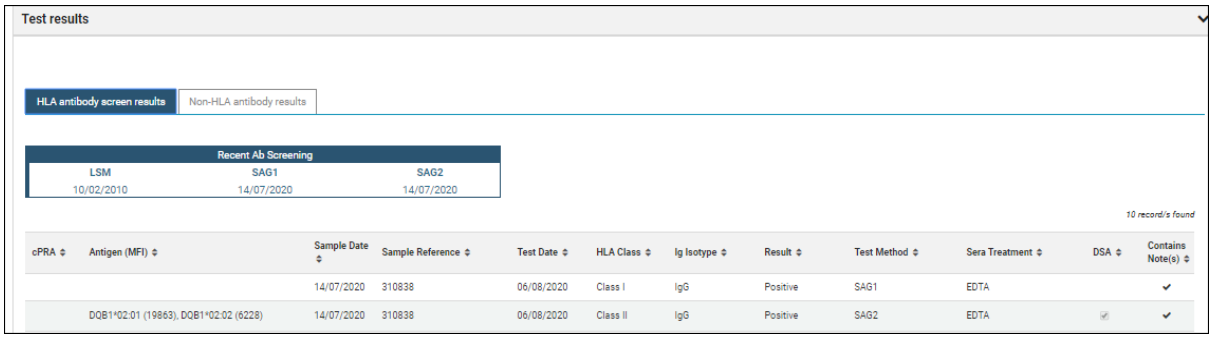
Samples from the Lab Portal can be viewed as read only in the Transplant Portal. The columns in the table are as below. Samples can be expanded to view test results in the child table.



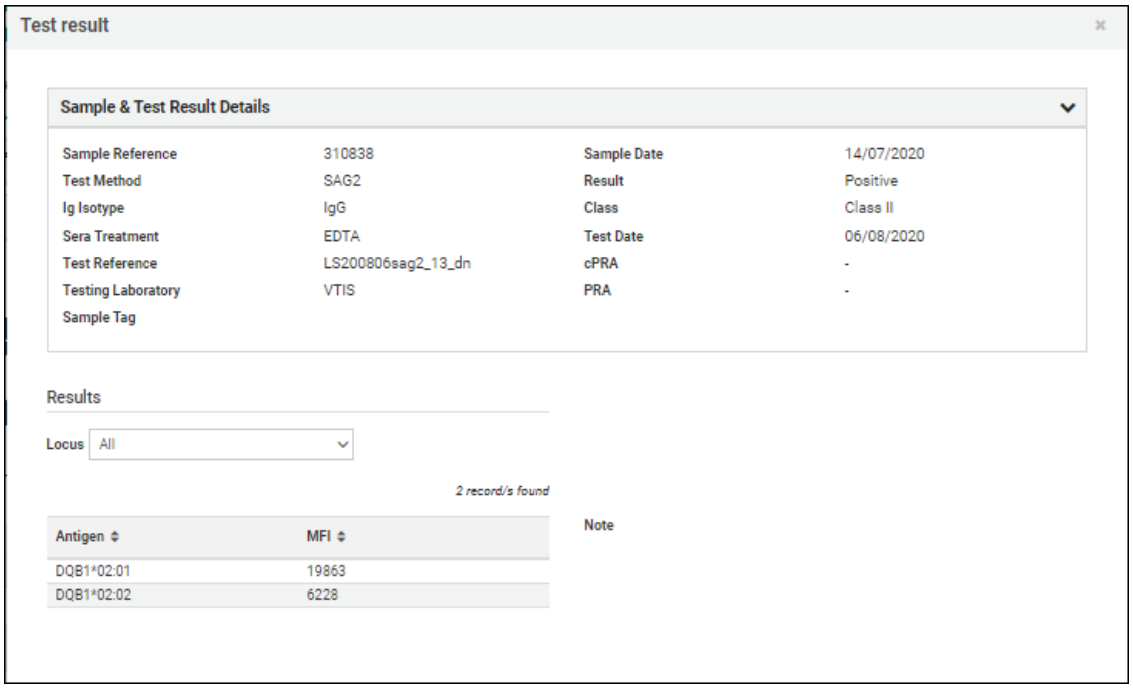
4.2.2 HLA antibody screen results

Verified HLA antibody results are viewable. If checkbox **View in** Transplantation Portal is selected in OrganMatch - Lab Module. Hovering over **Contain Notes** displays reportable notes.

Note: Results from April 2019 are viewable. For results prior to this date contact your local Tissue Typing Lab to enable more results to be viewed.

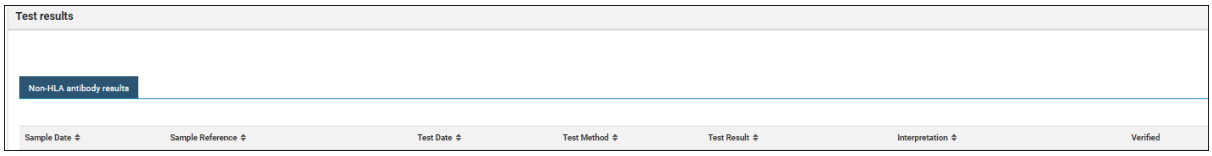


Further details are viewable by clicking the row



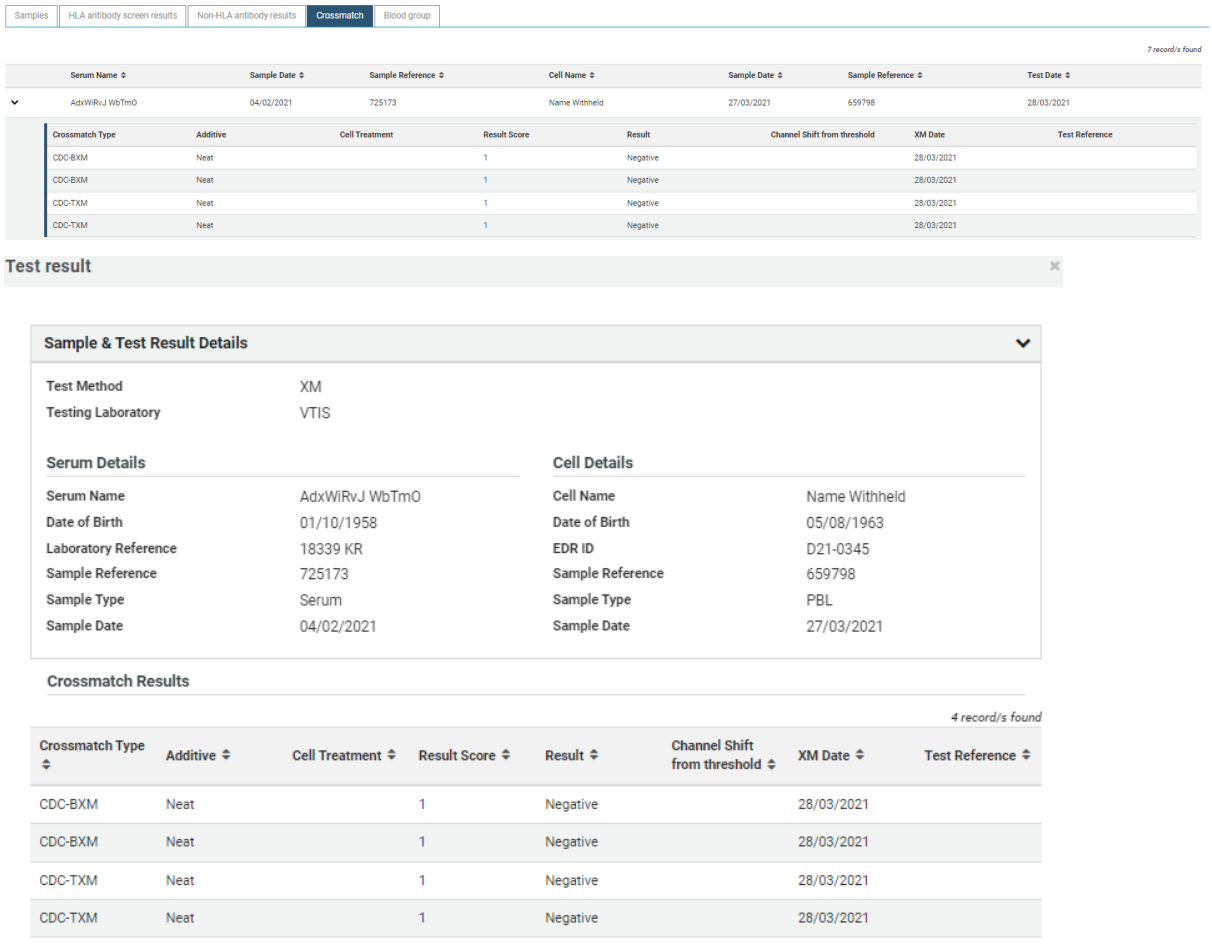
4.2.3 Non-HLA antibody results

Verified Non HLA antibody result are viewable: Only ATIR results will be shown



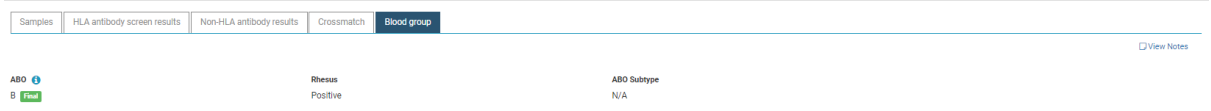
4.2.4 Crossmatch

Verified crossmatch results are viewable in the Transplantation Portal. The crossmatch record can be expanded and the sample and test results can be viewed by clicking on the crossmatch record. The patient or donor details will be withheld for records that are not linked to the users hospital access.



4.2.5 Blood group

ABO and Rhesus blood group details can be viewed.



Interim and verified blood group results are viewable. Hovering over the displays details of person who last updated and verified the person blood group.

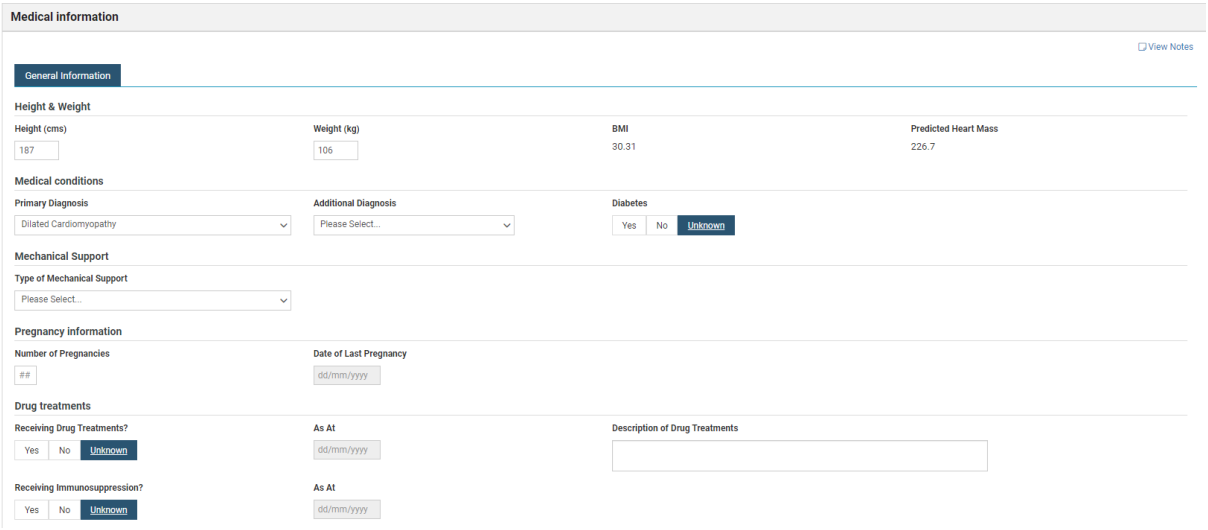
Users with Coordinator access are able to enter ABO and Rhesus details via the Edit functionality. A formal blood group report must be uploaded via view notes. When adding the note select the **Category** as Person and **Sub-Category** as ABO Forms. This will allow the Laboratory Portal users to view the report and verify the result.

4.3 Medical Information

Medical information can be viewed.

For the role Coordinator, the edit button is visible, and changes can be made to the following fields

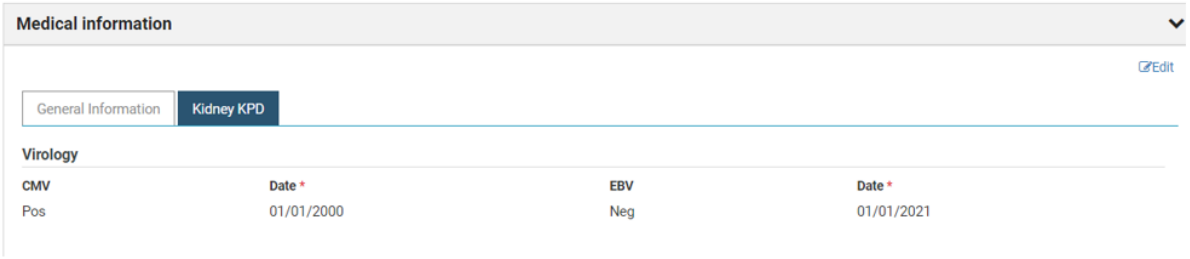
- Height
- Weight
- Primary Diagnosis
- Additional Diagnosis
- Mechanical Support (type of mechanical support for heart TWL patients)
- Number of pregnancies – date of last pregnancy
- Drug Treatments



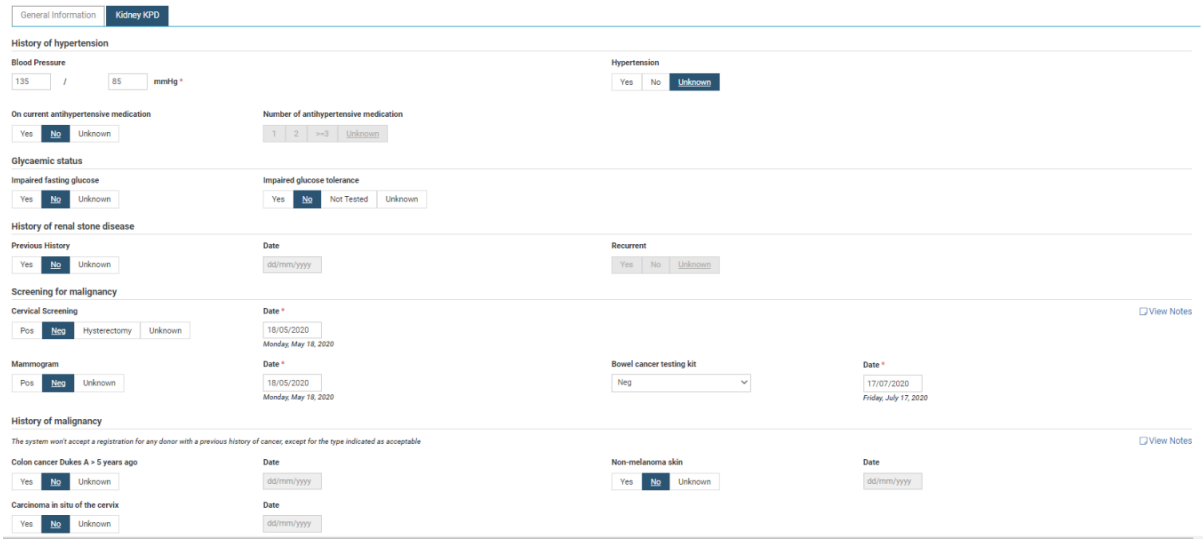
4.3.1 Kidney KPD

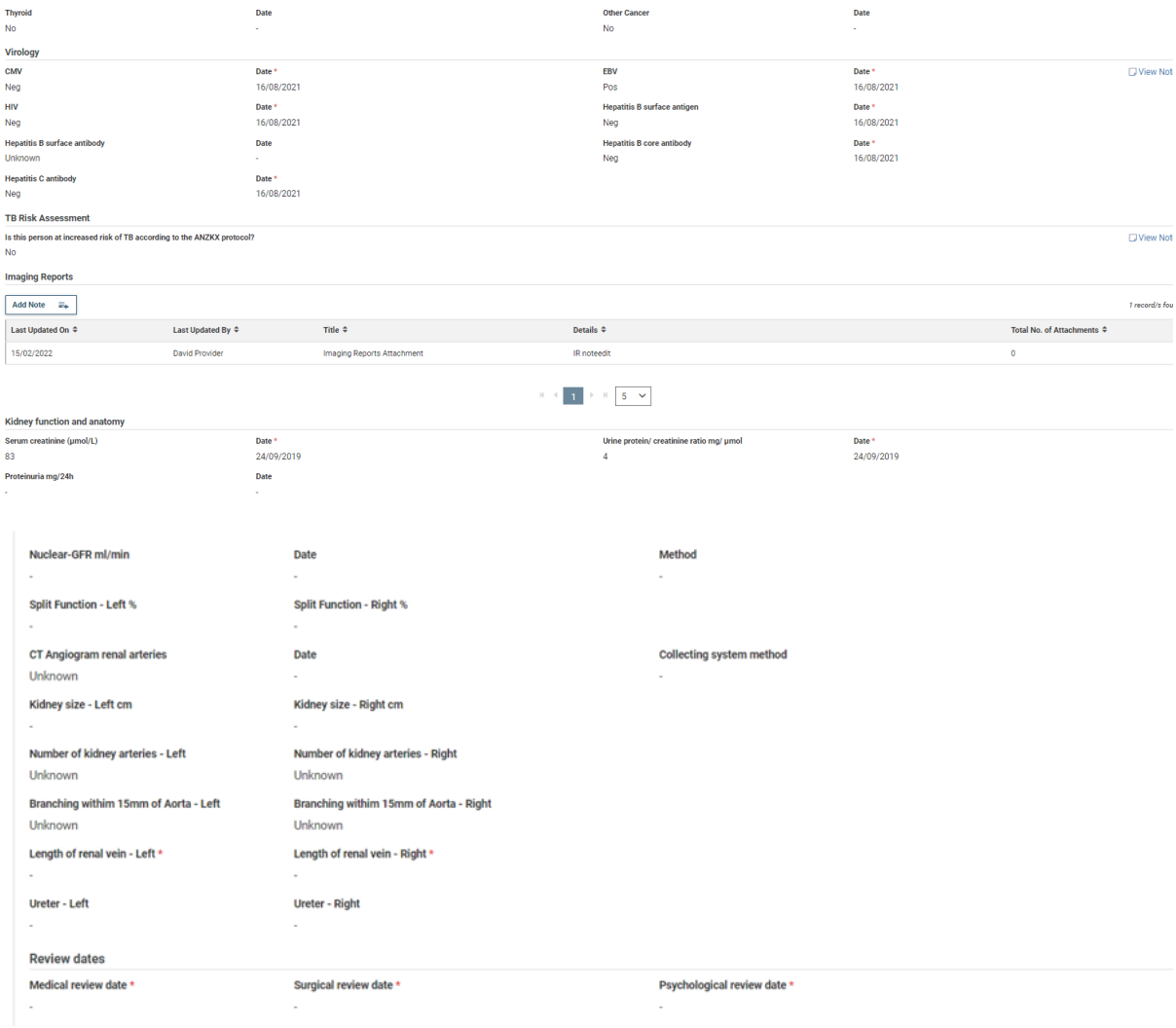
Medical information can be added by the transplant units. This is not viewable in the Laboratory Portal. Imaging results can be added to the donor record via a note in the **Imaging Report** section.

For Recipients



For Donors





4.3.2 Medical Events

Medical event information can be added by a user. A notification will be sent to the laboratory when a new medical event is added.

To enter a Medical Event

1. Click **Add Medical Event** button
2. Fill in details in the pop-up
3. Click **Save**

Repeat steps 1 – 3 to add any additional medical events as required

To update a Medical Event

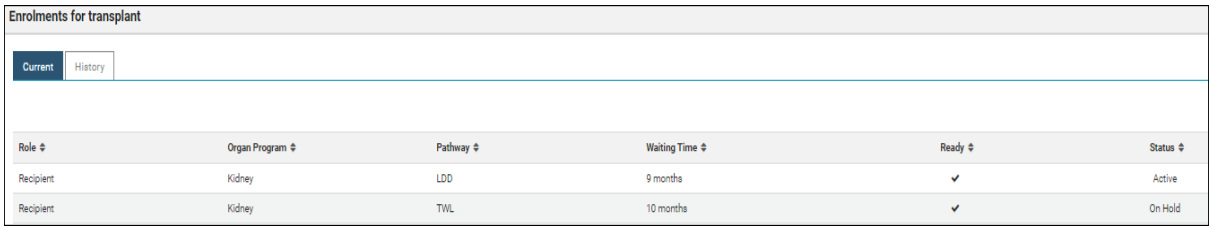
1. Click the relevant row for the medical event
2. Click **Edit**
3. In the pop-up, make any changes necessary
4. Click **Save**

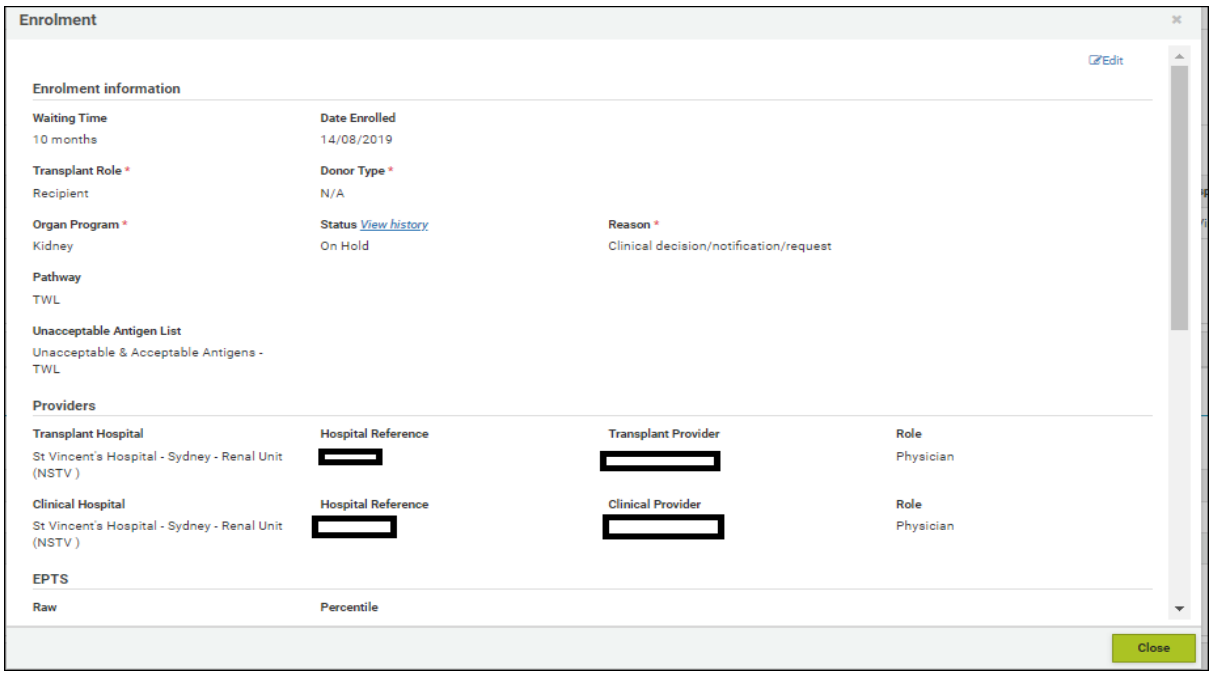
4.4 Enrolments for transplant

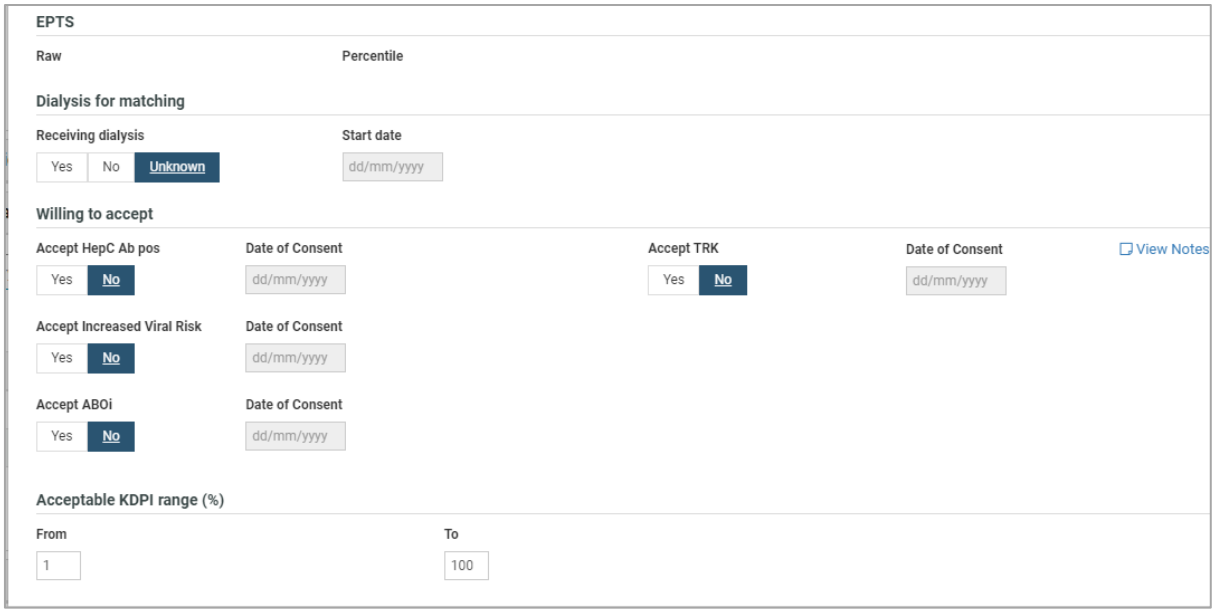
Current and historical enrolments can be viewed. **View history** of status changes is also available.

- For the role, Provider, no changes can be made to enrolments.
- For the role Coordinator, the edit button is visible in the enrolment, and changes can be made to the status, within the business rules as described in the table below.

Status (status/reason)	Change to (status/reason)	Editable from Clinical Portal
Active	On hold - Clinical Decision / notification / request	Yes
On hold - In Progress	Active	No
On hold - Clinical Decision / notification / request	Active	Yes
On hold - Laboratory Decision	Active	No
On hold - Waiting for Hospital activation	Active	Yes
On Hold - Due to KPD chain	Active	No
On Hold- Change in Sensitisation Category	Active	No


Enrolments for transplant
Current
History
Role
Organ Program
Pathway
Waiting Time
Ready
Status
Recipient
Kidney
LDD
9 months
Active
Recipient
Kidney
TWL
10 months
On Hold


Enrolment
Edit
Enrolment information
Waiting Time
10 months
Date Enrolled
14/08/2019
Transplant Role *
Recipient
Donor Type *
N/A
Organ Program *
Kidney
Status View history
On Hold
Reason *
Clinical decision/notification/request
Pathway
TWL
Unacceptable Antigen List
Unacceptable & Acceptable Antigens - TWL
Providers
Transplant Hospital
St Vincent's Hospital - Sydney - Renal Unit (NSTV)
Hospital Reference
Transplant Provider
Role
Physician
Clinical Hospital
St Vincent's Hospital - Sydney - Renal Unit (NSTV)
Hospital Reference
Clinical Provider
Role
Physician
EPTS
Raw
Percentile
Close



4.4.1 Estimated Date of Activation (only Kidney TWL)

This field can only be updated via the Transplantation Portal by the Transplant or clinical units. The intended purpose is for those units that list patients very early in the workup process, and the patient remains on hold for a significant length of time.

4.4.2 Providers

Changes to these fields can only be selected from units listed in the Providers dropdown list. Lab portal users create links.

4.4.3 Dialysis Start Date

Users with Coordinator access can enter Dialysis start date.

4.4.4 Willing to Accept

Users with Coordinator access are able to enter Willing to Accept details via the Edit functionality. A consent document should be uploaded if applicable via Notes to allow verification by an OrganMatch Laboratory Portal user.

Note: Willing to Accept ABOi for TWL is limited to blood group A and B recipients willing to accept AB donor kidneys.

4.4.5 Update KDPI min/max values

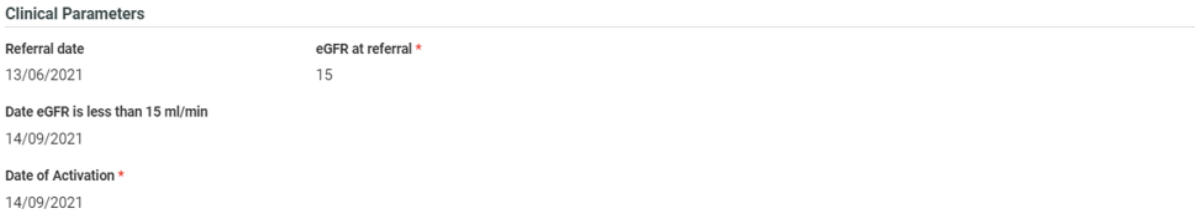
The KDPI min/max fields can be updated only via the transplantation portal for Kidney TWL enrolments. The default range is 1-100. Any modification to this will potentially restrict the recipients being matched with donors outside this range.

4.4.6 Clinical Parameters

Some organ programs have additional data fields which are editable only via the Transplantation Portal.

Kidney/Pancreas TWL

The waiting time for Kidney/Pancreas enrolment is calculated from the referral date if eGFR is <15ml/min at referral or the date eGFR is <15ml/min.

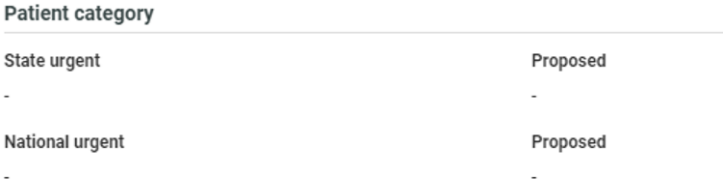


4.4.7 Patient Category

This is Organ and Pathway specific.

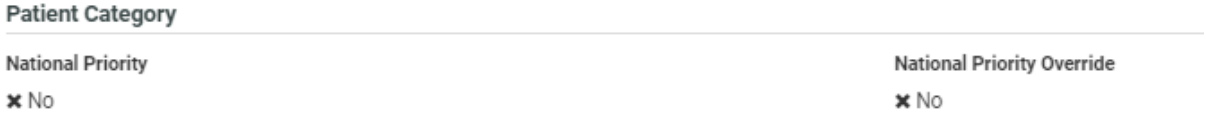
Kidney TWL

These fields are only editable in the Laboratory Portal



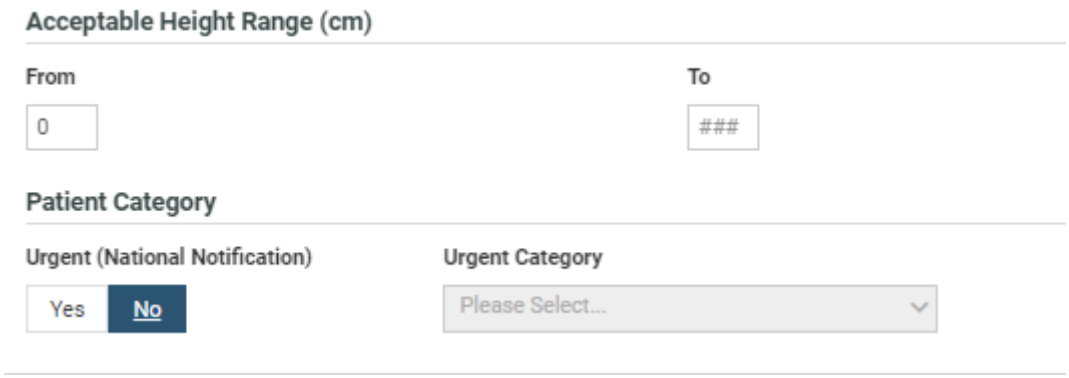
Kidney/Pancreas TWL

The National Priority value will be set by the system if the patient meets the criteria of mPRA>75% and be on dialysis. The National Priority Override can be edited in the Lab Portal.



Lung TWL

These categories are editable in the Transplant Portal only.



Urgent Categories

High Acuity of i.e. immediate risk of death

Highly sensitised i.e. >95% cPRA

Recipient is aged <16 years old

Heart TWL

The urgent field for Heart TWL is editable in the Transplantation Portal only. Predicted heart mass is calculated by the system using height, weight and gender of the person. The type of mechanical support can be selected from the dropdown in Medical Information.

4.5 Reports

Authorised reports are viewable and can be downloaded.

4.6 Notes and Attachments

This section has a current and history tab where active notes appear in the current tab and archived notes appear in the history tab.

Notes and Attachments relevant to a person can be added or replied to.

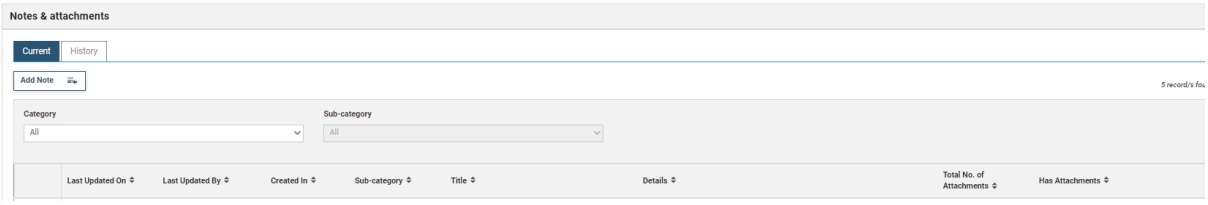
Notes that have been selected from the laboratory module to appear in the Transplantation Portal will be able to be viewed.

Users can add notes and attachments and delete notes they have created. They can also edit any note created in the Transplantation Portal. Notes can be searched using filters.

The Laboratory will receive a notification that the note has been added.

Users can reply to a note added from the laboratory module. Notes from the Laboratory Portal cannot be modified.

It is possible to see which Portal (Lab or Transplantation) a note was created in.



4.6.1 To Add Notes

1. Click **Add Note** or **View Note** tab
2. Add **title**
3. If applicable
   - Select **Category**
   - Select **Sub-Category**
   - Write any further notes in **Details**
4. Click **Save**

   To attach any relevant documentation:

   – Click the **Attachments** tab

   – Either click **Select a file** or drag and drop

   – Click **Save**

! Important Note: Only select the **Category** Person-ANZKX for notes that are to remain viewable to the ANZKX team. This category of note cannot be viewed by Laboratory Portal Users.

4.6.2 To add attachments to person notes

1. Click the relevant row in the Notes and Attachments section

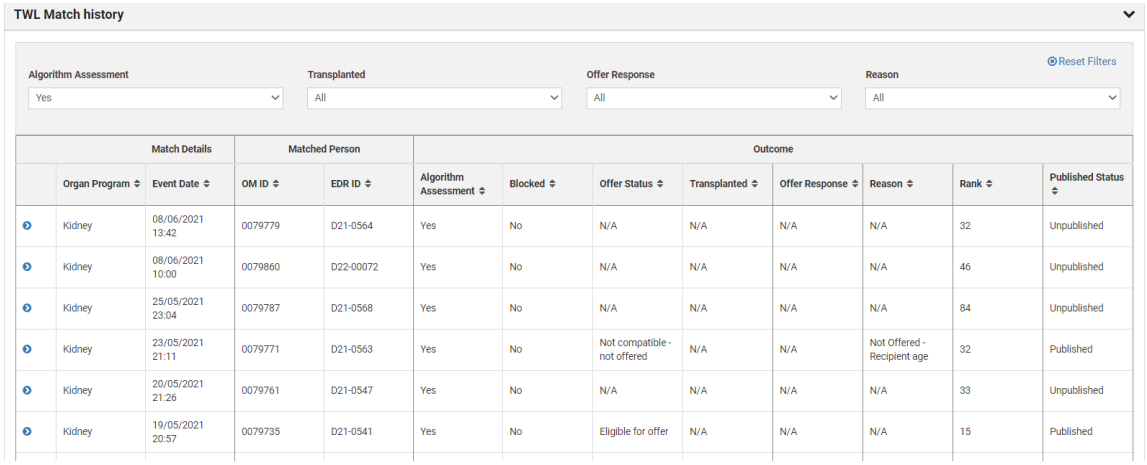
2. Click **Edit**
3. In the pop-up box, click **Attachments** tab
4. Either click **Select a file** or drag and drop
5. Add details as required
6. Click **Save**

4.7 De-identified Notes & attachments

This menu item has no current functionality. There will be limited user access to this function when operational.

4.8 TWL Match History

This section displays the matching history with deceased organ donors. Kidney ranks are displayed



	Match Details		Matched Person		Outcome							
	Organ Program	Event Date	OM ID	EDR ID	Algorithm Assessment	Blocked	Offer Status	Transplanted	Offer Response	Reason	Rank	Published Status
	Kidney	08/06/2021 13:42	0079779	D21-0564	Yes	No	N/A	N/A	N/A	N/A	32	Unpublished
	Kidney	08/06/2021 10:00	0079860	D22-00072	Yes	No	N/A	N/A	N/A	N/A	46	Unpublished
	Kidney	25/05/2021 23:04	0079787	D21-0568	Yes	No	N/A	N/A	N/A	N/A	84	Unpublished
	Kidney	23/05/2021 21:11	0079771	D21-0563	Yes	No	Not compatible - not offered	N/A	N/A	Not Offered - Recipient age	32	Published
	Kidney	20/05/2021 21:26	0079761	D21-0547	Yes	No	N/A	N/A	N/A	N/A	33	Unpublished
	Kidney	19/05/2021 20:57	0079735	D21-0541	Yes	No	Eligible for offer	N/A	N/A	N/A	15	Published

If algorithm assessment is Yes, this means the recipient was eligible to pass through to matching.

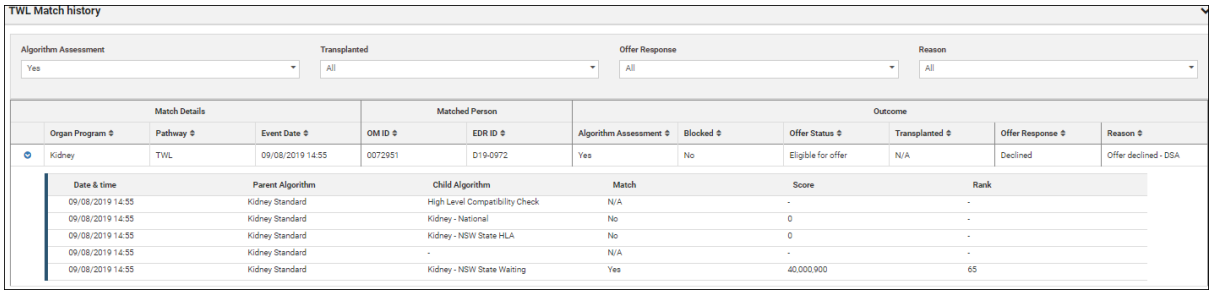
You will be able to see the matching outcome and the rank and score of the recipient with the donor.

If the algorithm assessment is No - the patient has been excluded for matching - usually due to Unacceptable antigens or blood group incompatibility.

Click on the blue arrow – to view further details of the match.

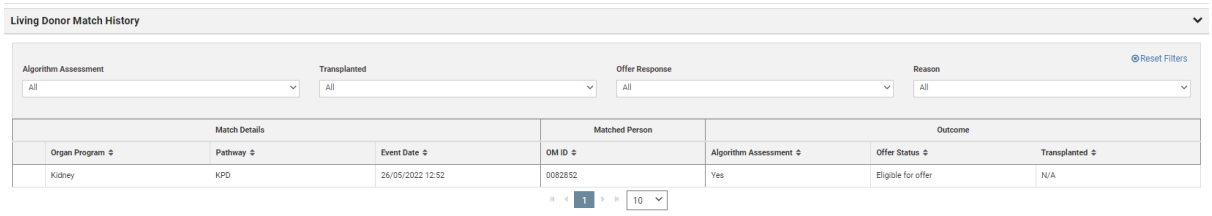
If the Published Status is Published, this indicates that the match event can be viewed by clicking on the row.

Also see, Section *7. Match Event Assessment*.



4.9 Living Donor Match History

Once a match event for LDD or KPD is published it is viewable in the Transplantation Portal.



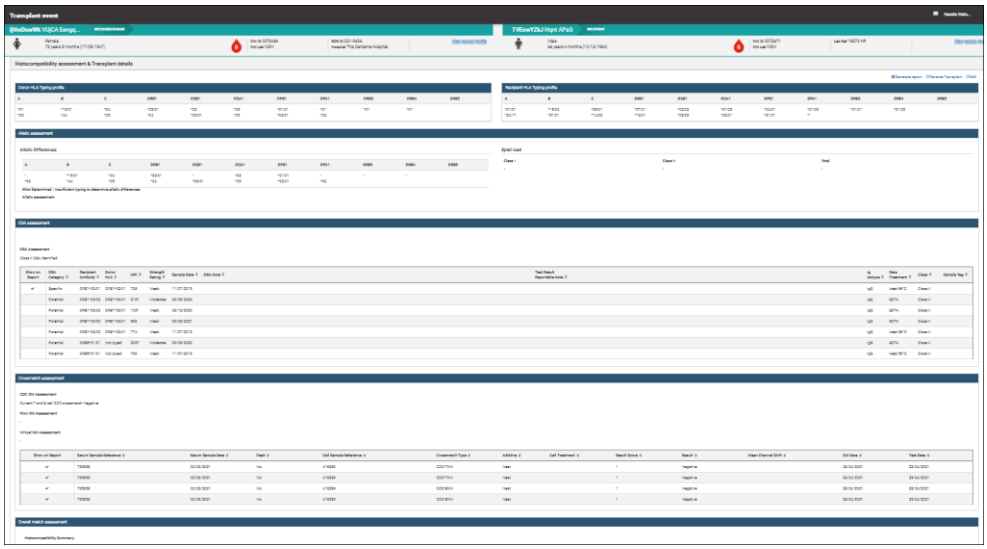
Match Event viewable by clicking on the highlighted row.

4.10 Transplant

Transplant information can be viewed

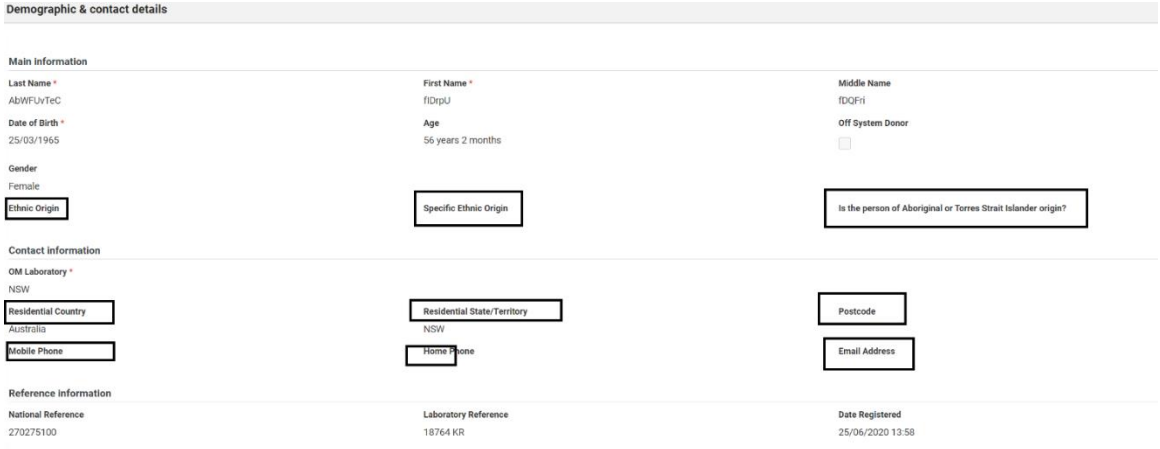
Note: This tab is only viewable if the patient has had a transplant.

Click on the row and the transplant event and Histocompatibility assessment can be seen. This will contain DSA assessment, crossmatch assessment.



4.11 Demographics and Contact details

The following information can be viewed.



The only fields that can be edited are

- Ethnic Origin
- Specific Ethnic Origin
- Is the person of Aboriginal or Torres Strait Islander origin?
- Residential Country
- Residential State
- Postcode

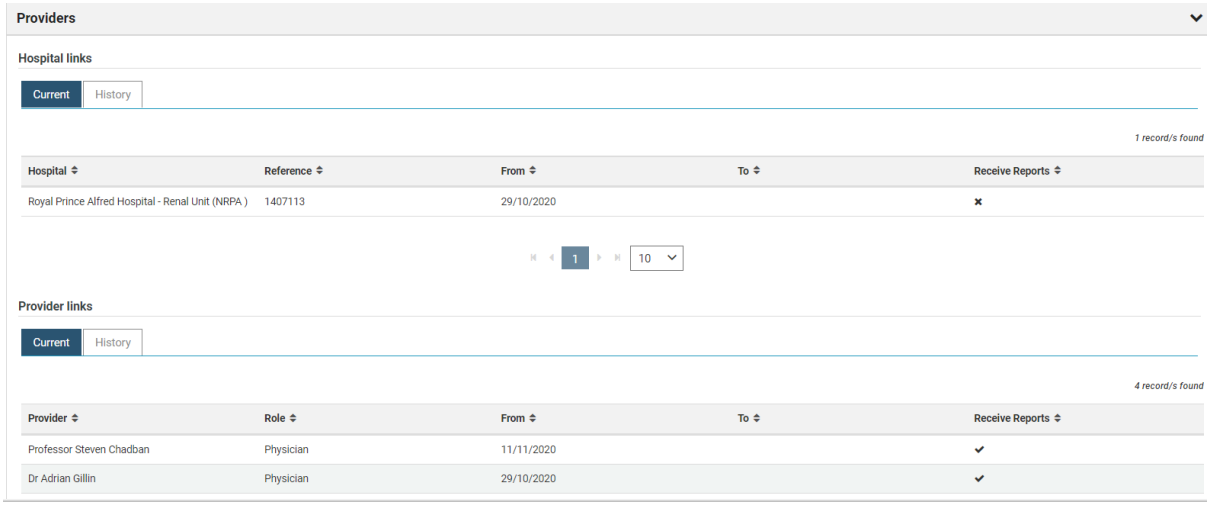
- Mobile Phone
- Home phone
- Email address

4.12 Hospital and Provider Links

Hospital and provider links can be viewed. Editing is restricted and can be assigned to the coordinator role.

Hospital link will be pre-populated with the users hospital under the **Current** tab.

Ended hospital/provider links are viewed in the Hospital/Provider Links **History** tab.



4.12.1 To update Hospital and/or Provider Links

1. Click Add Hospital Link or Add Provider Link button
2. Fill in details in the pop-up
3. Click **Save**

Repeat steps 1 – 3 to add another clinical unit/provider if required

4.12.2 To end a Hospital and/or Provider Link

1. Click the relevant row for the hospital/provider
2. Click **Edit**
3. Change the **To Date** box to the date the link was ended

4. Click **Save**

Note: Ending link to your hospital will remove your access to the patient record

4.13 Personal Links

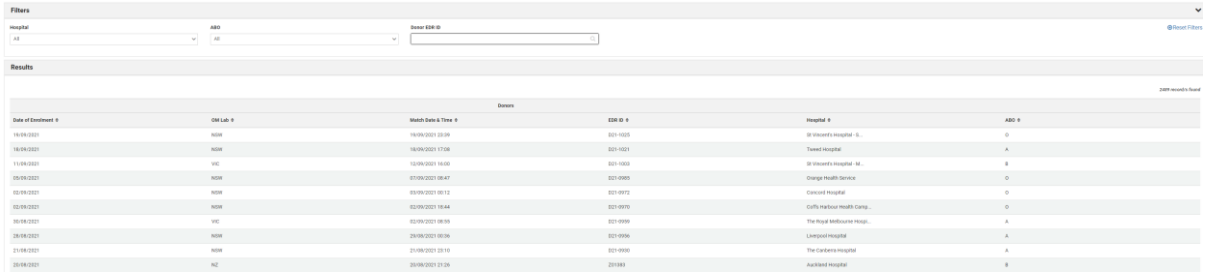
Patient personal links can be viewed.

Click on donor name to go into donor match profile.

5. Donor Dashboard

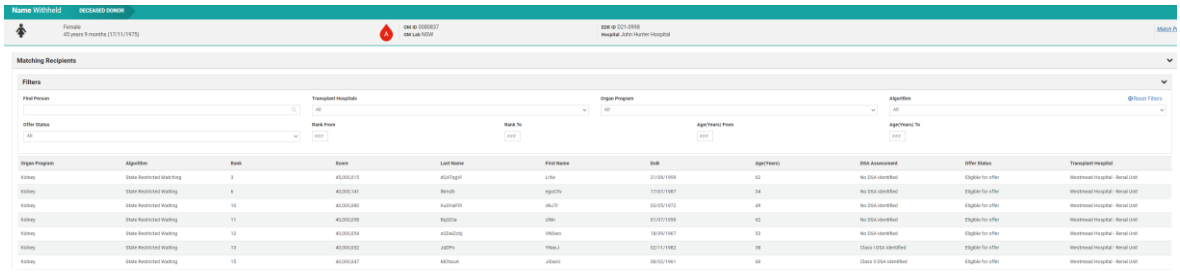
The donor dashboard will display a list of Deceased Organ Donors.

Note: All donors have Name withheld.

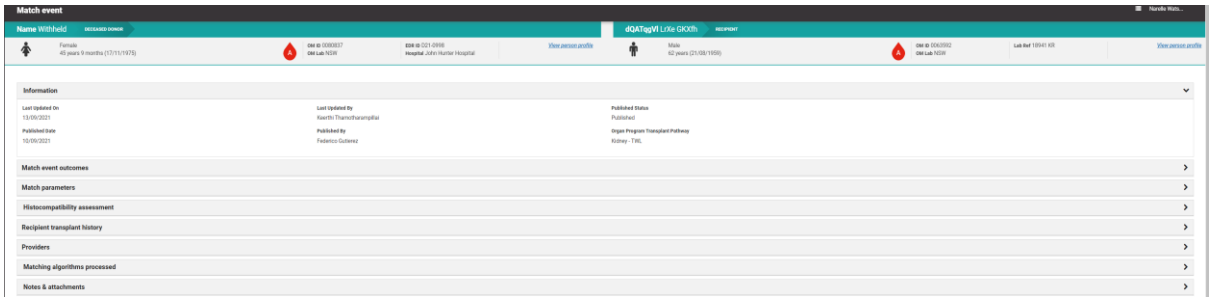


By Clicking on the donor, the user will be able to view their recipients that have published match events.

The user can filter **Organ Program** and is able to select multiple programs at once.

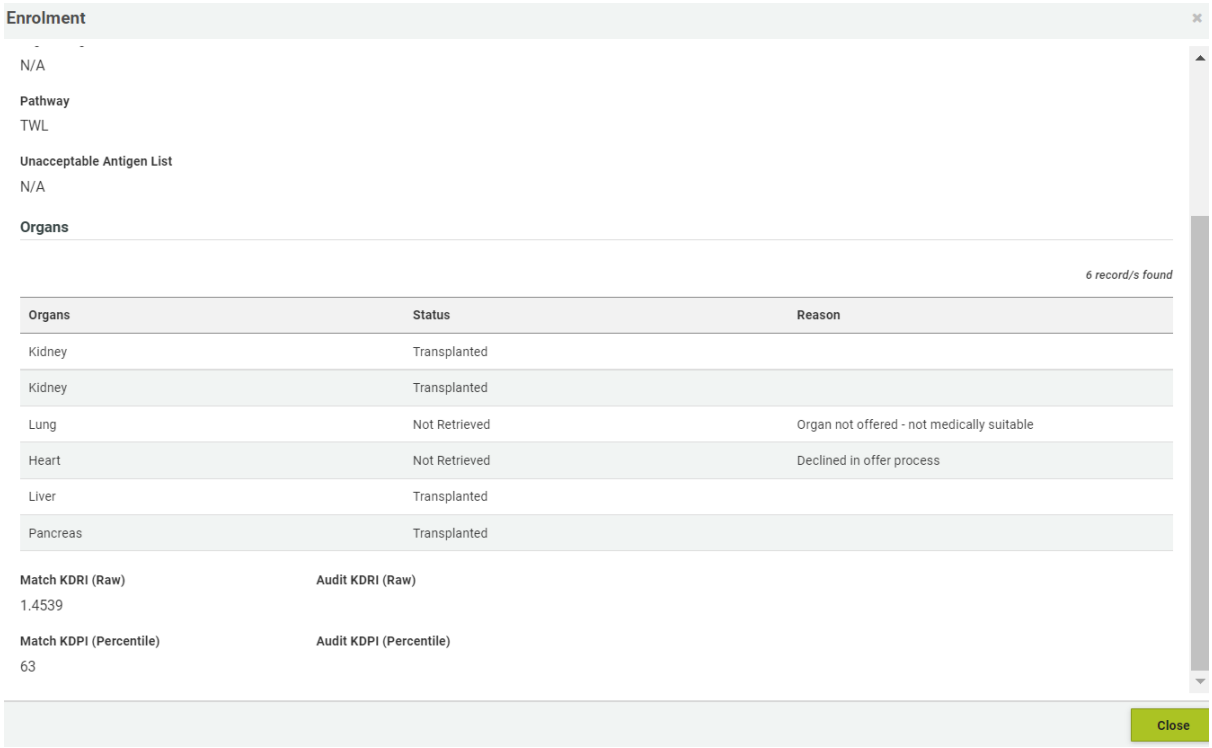


By clicking on the row proceeds to Match Event assessment (see Section *5. Match Event Assessment).*



Clicking on match profile will view donor information.

The enrolment is shown as follows



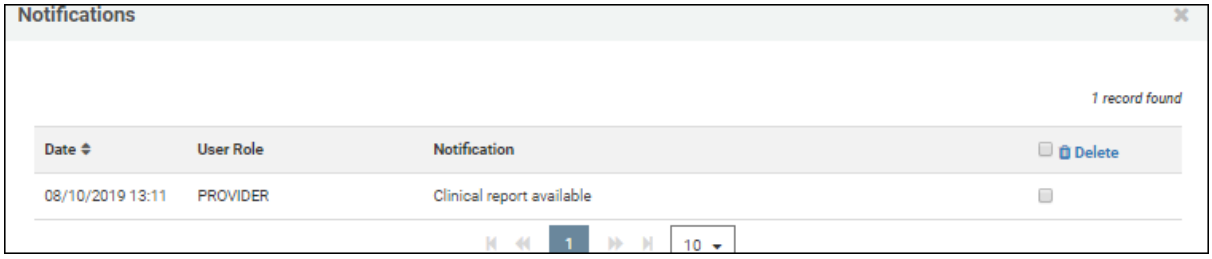
6. Notifications

In the person record, the banner displays a bell icon which indicates the number of notifications for the person.

To delete notification

Click on the bell icon

The notification will display



Click on the check box and click delete

The notification will be deleted from the system

For **Bulk deletions**

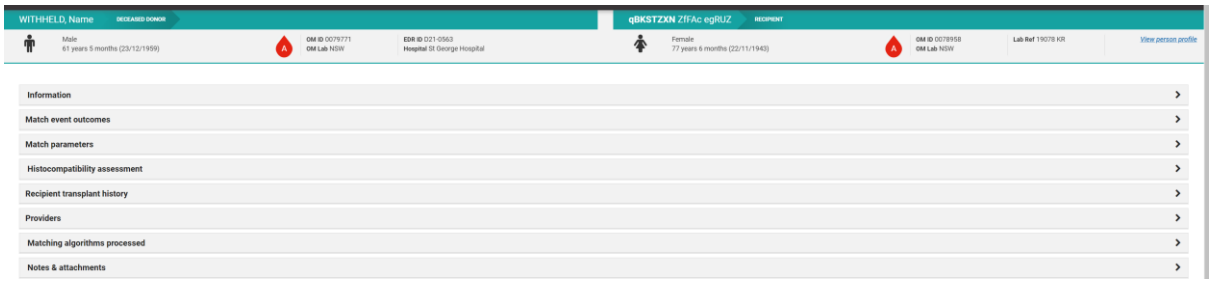
From the notification screens tick the delete box, and all the notifications on the screen, will be ticked. Select delete to remove all notifications shown.

7. Match Event Assessment

A match event is created between a recipient and a donor and contains information regarding the match. This includes the histocompatibility assessment and donor specific antibody assessment.

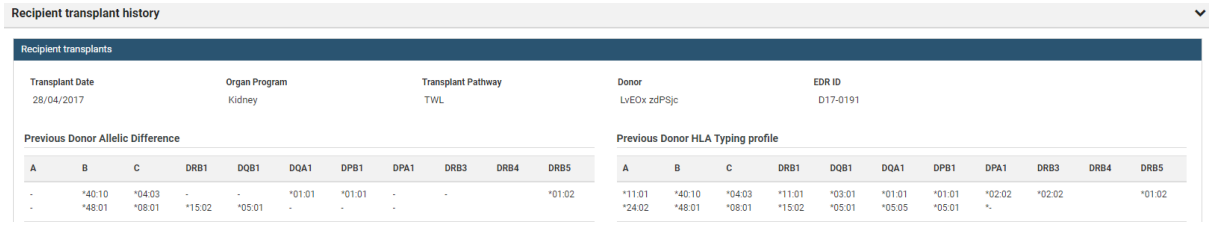
When a match event has been published from the Laboratory Portal, the match event assessment is viewable. If the status is unpublished, this means the lab has not performed an assessment on the matched pair.

All the following sections can be viewed in a Match Event.



All information is viewable. All fields are read only.

Recipient Transplant History shows details of previous transplant events, transplant date, Organ program, Transplant pathway, Donor Name, Lab Ref, Donor HLA typing and allelic differences:

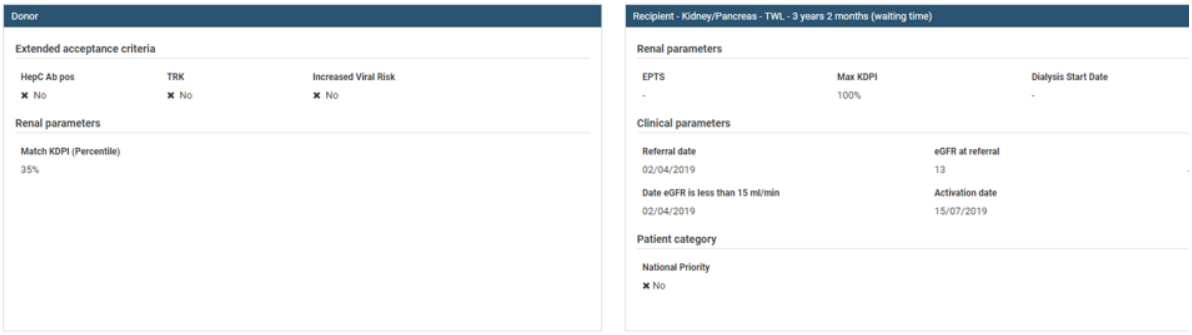


Notes and attachments can be updated and responded to.

TWL match event assessments can be viewed in Transplantation Portal. The match event is read only however there is the ability for the Transplantation portal users to add and reply to match event notes.

7.1 Match Event Parameters

The Kidney/Pancreas TWL match event parameters are displayed below for patient and donor:



Appendix 1: Data extract fields

Last Name	Accept Increased Viral Risk - Date of consent	Status
First Name	Accept ABOi	Reason
Date of Birth	Accept ABOi - Date of consent	Previous Transplant
OM Lab	ABOi - ABOi values	HLA Typing
National Reference	State Urgency	UA&AA - TWL cPRA
Hospital Reference	National Urgency	UA&AA - TWL - AB Screening
Date of Last Sample	Paediatric Status for Matching	UA&AA - TWL - Prev. Donor Mismatch
Organ Program	Ready	UA&AA - TWL - Other
Pathway	Transplant Hospital Reference	UA&AA - TWL - AA
ABO	Transplant Provider	UA&AA - Living Donor cPRA
Subtype	Clinical Hospital	UA&AA - Living Donor - AB Screening
Rhesus	Clinical Hospital Reference	UA&AA - Living Donor - Prev. Donor Mismatch
Waiting Time - days	Clinical Provider	UA&AA - Living Donor - Other
Dialysis for matching	Accept HepBc Ab pos	UA&AA - Living Donor - AA
Height (cm)	Accept HepBc Ab pos - Date of consent	
Weight (kg)	Accept HepC Ab pos	
Transplant Unit	Accept HepC Ab pos - Date of consent	
Transplant Hospital Reference	Accept TRK	
Transplant Provider	Accept TRK - Date of consent	
Clinical Hospital	Accept Increased Viral Risk	
Clinical Hospital Reference	Accept Increased Viral Risk - Date of consent	
Clinical Provider	Accept ABOi	
Accept HepBc Ab pos	Accept ABOi - Date of consent	
Accept HepBc Ab pos - Date of consent	ABOi - ABOi values	
Accept HepC Ab pos	State Urgency	
Accept HepC Ab pos - Date of consent	National Urgency	
Accept TRK	Paediatric Status for Matching	
Accept TRK - Date of consent	Ready	
Accept Increased Viral Risk	Consolidated Antibodies	

Definitions

Term/abbreviation	Definition
AA	Acceptable Antigens
ATIR	Angiotensin Type 1 receptor
KDPI	Kidney Donor Profile Index
KPD	Kidney Paired Donation
LDD	Living Directed Donor
LNDD	Living Non Directed Donor
mPRA	Match panel-reactive antibody. Provides an estimate of the percentage of deceased organ donors that will be incompatible for a recipient based on the antigens assigned as unacceptable for a recipient. This is based on a pool of donors from the Australian population, and should represent the HLA antigen frequency in the population. If more than one HLA antigen is unacceptable, the mPRA is the total frequency of the HLA antigens.
OOL	Organ Offer List
OM	OrganMatch
Transplantation Portal	OrganMatch portal for transplant clinicians and coordinators. Previously known as Clinical Portal
TWL	Transplant Waiting List
UA	Unacceptable Antigens