


Name of Policy: <u>PRA - Panel Reactive Antibodies-Screening and Crossmatches</u> Policy Number: 3364-140-18 Department: Transplant Administration (Nursing Service) Approving Officer: Chief Nursing Officer Director, Renal Transplant Program Director, Pancreas Transplant Program Responsible Agent: Transplant Coordinator Scope: The University of Toledo Medical Center	 Effective Date: July 1, 2024 Initial Effective Date: June 15, 1990
<input type="checkbox"/> New policy proposal <input checked="" type="checkbox"/> Minor/technical revision of existing policy <input type="checkbox"/> Major revision of existing policy <input type="checkbox"/> Reaffirmation of existing policy	

(A) Policy Statement

Blood will be drawn on a monthly basis from all persons on the deceased donor kidney and /or pancreas waiting list or patients having a pending living donor kidney transplant.

(B) Purpose of Policy

To assure that the histocompatibility lab has fresh serum on all potential recipients for screening for panel reactive antibodies and for use in screening crossmatches at the time a donor organ becomes available.

(C) Procedure

1. Once a patient is listed as a transplant candidate, monthly serum drawn at the dialysis center is sent to the histocompatibility lab at UTMC. If the patient is not yet on dialysis, blood will be drawn in the UTMC Outpatient Laboratory or if living outside the area, mailers will be sent to the patient to have them filled at a local lab and mailed back to the UTMC tissue typing lab.
2. The blood is screened for panel reactive antibodies on a monthly basis.
3. The blood is also used to do screening crossmatches with deceased donor kidneys and/or pancreas.
 - a. A sera sample collected within the past 30 days may be considered as the final crossmatch PROVIDED that the patient has not had any immunologically stimulating events in the past 30 days. The Coordinator on-call for organ offers must ask the recipient if they have been transfused, vaccinated, been pregnant, or had a miscarriage in the past 30 days. If the patient has had an immunologically stimulating event, the patient will need to be placed on HOLD for 2 weeks on the UNOS waiting list. The patient will need to have an updated PRA sample drawn 2 weeks after the event before being eligible for reactivation on the list.
 - b. If the recipient does have new or current potential donor specificities on their watch list, Tissue Typing may determine, in certain donor organ offers, that the patient may need to

report to UPMC for a fresh serum drawn at the time of the organ offer for the final crossmatch.

- c. Any recipient who does not meet the criteria listed in a or b, or whose most recent sera is greater than 30 days old must report to UPMC to have a fresh serum drawn for final crossmatch.
4. Each month the Histocompatibility Lab will inform the Transplant Coordinator of those patients whose blood was not received. The Transplant Coordinator will follow up with appropriate dialysis and physician office personnel.
5. Screening crossmatches will not be done on serum more than six months old. The only exceptions are if the patient has submitted only one previous sample prior to crossmatching or by supervisor approval. This patient would have to come to UPMC and have fresh serum drawn for the final crossmatch. The original sample would be used as the screening sample, even if it is more than six months old.

Approved by: <div style="display: flex; justify-content: space-between;"> <div> <u>/s/</u> Kurt Kless, MSN, MBA, RN, NE-BC Chief Nursing Officer/CNO </div> <div> <u> </u> Date </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <u>/s/</u> Michael Rees, MD Director, Renal Transplant Program </div> <div> <u> </u> Date </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <u>/s/</u> Kunal Yadav, MD Director, Pancreas Transplant Program </div> <div> <u> </u> Date </div> </div> <div style="margin-top: 20px;"> Review/Revision Completed By: Transplant Team Tissue Typing Department </div>		Review/Revision Date: 7/29/91 1/1/2019 4/93 6/19/2020 5/94 2/3/2021 3/95 11/14/2023 6/97 2/23/2024 10/98 2/00 8/02 7/05 2/07 12/2007 1/9/2009 1/12/2010 01/23/2012 1/7/15 1/7/18 <div style="border: 1px solid black; height: 30px; width: 100%;"></div> Next Review Date: 7/1/2027
Policies Superseded by This Policy:		