PROCEDURES FOR SUBMITTING RENAL BIOPSIES:

A. NATIVE KIDNEY BIOPSIES

1. If a dissecting microscope is available, ensure the presence of glomeruli in all pieces and submit the biopsy in two vials as follows: One piece (preferably the larger) is submitted in 10% buffered formalin, and one piece is submitted in transport medium. If no dissecting microscope is available, submit the larger biopsy piece in formalin for light and electron microscopy (EM) and the smaller piece in transport medium for immunofluorescence (IF). We will further divide the formalin-fixed piece for electron and light microscopy. 10% buffered formalin provides acceptable fixation for routine diagnostic electron microscopy on renal biopsies.

2. If 3% glutaraldehyde is available and you have a dissecting microscope, you can divide the biopsy into three portions in a way that every portion contains glomeruli. Put the largest piece in formalin, the second piece in transport medium for IF, and the third smallest piece in 3% buffered glutaraldehyde for EM.

B. TRANSPLANT KIDNEY BIOPSIES

1. We are routinely using indirect immunofluorescence with a primary antibody to C4d to diagnose humoral rejection. Peritubular capillary C4d deposition is a sensitive marker of a humoral immune reaction in the graft. For this method, we need a small piece from the biopsy submitted in transport medium for IF. This piece can be only a few millimeters long because peritubular capillaries are abundant everywhere, even in the medulla. The remaining piece of the specimen can be submitted in formalin.

2. If the suspicion of recurrent or de novo glomerular disease exists, the specimen should be submitted as a native kidney biopsy (see above).

GENERAL SHIPPING INSTRUCTIONS

1. Samples referred to OSU Wexner Medical Center for the renal pathology service must be sent with a complete renal biopsy request form (see attached). All samples must be labeled with the patient's first name, last name, another unique identifier (date of birth, MRN) and date of collection. Each patient biopsy should have a separate transport box that is packaged with the request form and specimen vials with the sample sealed in the specimen bag to prevent leakage during transport. Shipping on ice (or with a cold pack) is not necessary.

2. Individual specimen boxes should be placed in a UPS/FedEx lab pack with one of our preaddressed UPS/FedEx air bills and shipped Next Day Air, or, if the biopsy is coming from the Columbus area, the courier should deliver the biopsy to:

OSU Wexner Medical Center
Department of Pathology, Renal Laboratory
Attn: Tibor Nadasdy, M.D.
320 W. 10th Ave.
Starling Loving Hall, Room M018
Columbus, OH 43210
Phone # (614) 293-9258
Email: tibor.nadasdy@osumc.edu

Please call our lab if you have any questions about sending a biopsy: (614) 293-9258. 2014
(Please call 293-9258 in advance if you are sending a biopsy by courier. Keep in mind that the building doors are locked after 6:00 PM)

3. We recommend notifying the renal laboratory (614-293-5298) if a biopsy is sent to provide the UPS/FedEx tracking number.

4. **If Saturday or holiday biopsy read is necessary, please call the renal laboratory at 614-293-9258 for delivery address, and a UPS/FedEx air bill can be faxed to you.**

5. To order supplies call the renal laboratory at 614-293-9258.

On-site storage of formalin and tissue transport medium containers: Room temperature. Note: Do not use transport medium if visible precipitate is in the vial. Precipitate on the outside of the vial around the “neck” area is acceptable.