



Barış Akin, MD

Professor of General Surgery

*Kidney Transplantation / Vascular Access Surgery*

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## **PRE-TRANSPLANT INVESTIGATIONS FOR THE RECIPIENTS:**

### **METABOLIC AND BIOCHEMICAL TESTS**

Hemogram (Complete Blood Count)  
Glucose  
BUN (Blood Urea Nitrogen)  
Creatinine  
Uric acid  
Alkaline Phosphatase (ALP)  
ALT (Alanin Aminotransferase, SGPT)  
AST (Aspartate Aminotransferase, SGOT)  
GGT (Gamma-glutamyl transferase)  
Total Bilirubin  
Albumin  
Na (Sodium)  
K (potassium)  
Ca ionized (Calcium)  
HbA1c (Hemoglobin A1c)  
Total Cholesterol  
Triglycerides  
HDL-LDL Cholesterol  
Phosphor  
Magnesium  
Amylase  
Lipase

### **HEMATOLOGIC AND ENDOCRINE TESTS**

Blood group  
Prothrombin time  
Activated Partial Thromboplastin Time (APTT)  
Free T3-T4  
TSH  
Ferritin  
Iron  
Iron Binding  
Parathormone (PTH)  
CRP  
Total PSA (for man older than 40)  
Beta HCG (for females)

### **INFECTIOUS DISEASES AND SEROLOGICAL TESTS**

CMV IgG  
Ebv Vca IgG  
HBsAg  
Anti HBs  
Anti HBc (total)  
Anti HCV  
Anti HIV 1/2  
Syphilis

### **URINE TESTS**

Complete urinalysis  
Urine culture

### **24 HOURS URINE PANEL**

Microalbuminuria (24 hours urine)  
Creatinine clearance (24 hours urine)  
Total protein (24 hours urine)

### **IMMUNOLOGIC TESTS**

HLA Tissue Typing (A,B,DR,DQ)  
CDC Crossmatch and Flow Crossmatch  
Panel reactive antibody (PRA)  
Single Antigen Bead Assay (High sensitized recipients)

### **RADIOLOGICAL IMAGING**

Electrocardiography  
Echocardiography (Cardiac USG)  
Whole abdomen CT  
Thorax CT  
Breast USG (for woman)  
Mammography (for woman older than 40)