

**SIGNS OF TRANSPLANT REJECTION BY CATEGORY**

Organ	Hyperacute	Accelerated	Acute	Chronic
Kidney	Fever, anuria	Fever, oliguria, graft swelling and tenderness	Fever, increased serum creatinine, hypertension, weight gain, graft swelling, and tenderness  Appearance of protein, lymphocytes, and renal tubular cells in urine sediment	Proteinuria with or without hypertension, nephrotic syndrome
Liver	Fever, coagulopathy	Fever, coagulopathy, ascites	Anorexia, pain, fever, jaundice, light-colored bile (seen in T-tube drainage) or stools, elevated liver enzymes, dark urine	Jaundice due to intrahepatic cholestasis with preserved hepatocellular function (vanishing bile duct syndrome), ascites
Heart	Cardiogenic shock	Arrhythmia, cardiogenic shock	Weakness, arrhythmia	Fatigue, low stress tolerance
Lung	Poor oxygenation, fever, cough	Decreased FEV <sub>1</sub>	Infiltrate (seen on x-ray), interstitial perivascular infiltrate (detected by transbronchial biopsy), decreased FEV <sub>1</sub>	Obliterative bronchiolitis, cough, dyspnea
Pancreas	Pancreatic necrosis, fever	Pancreatitis, hyperglycemia, elevated amylase and lipase	Same as accelerated	Hyperglycemia, mildly elevated amylase and lipase
Small bowel	Fever, elevated lactic acid	Fever, diarrhea, intestinal necrosis	Fever, diarrhea, malabsorption	Diarrhea, malabsorption

FEV<sub>1</sub> = forced expiratory volume in 1 sec.