



Submission No.: PG08-9371

Session : Postgraduate Course 8 (Pathology)

Date & Time, Place : November 16 (Thu), 13:00-14:30, Room 5F-2

Session Title : Interesting Biopsy Cases

Case 5. A 56-year-old female with creatinine elevation after COVID-19 infection

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A 56-year-old female was admitted with elevated serum creatinine levels. She had a history of end-stage kidney disease of unknown cause and underwent ABO-incompatible living-unrelated robot kidney transplantation 15 months ago. Additionally, she had a recent history of COVID-19 infection and fever 10 days prior to admission. A renal biopsy was performed to determine the underlying cause. Past medical history: Hypertension Transplantation-related history: ABO-incompatible living-unrelated robot kidney transplantation (15 months ago) PRA 0%, HLA mismatch number: 4, CDC/Flowcytometric crossmatch: negative/negative Donor blood type: AB+ à Recipient blood type: A+ anti-B titer IgG 1:4 IgM 1:4 à desensitization: rituximab 200mg without plasmapheresis Immunosuppressants: Basiliximab induction Tacrolimus + steroid + mycophenolate à Tacrolimus + steroid + sirolimus (postop 1 month - switch d/t clinical trial) Laboratory findings after transplantation: Donor-specific antibodies (-) at 3, 6, 9, 12 months after KT CMV / BKV (-/-) Baseline serum creatinine: 0.9 - 1.0 mg/dL Tacrolimus trough level: 5-7 ng/mL sirolimus trough level: 3-4 ng/mL Laboratory findings at the time of admission: CBC. WBC 10120/ μ L, Hb 10.3 g/dL, PLT 73000/ μ L BUN/Cr 51.0/4.43 mg/dL, electrolyte Na 139 / K 4.1 / Cl 110 mmol/L, total protein/albumin 5.9/3.5 g/L, total bilirubin 0.6 mg/dL, LDH 627 IU/L Urine protein 2+, blood negative, UPCR 2.25 g/gCr, UACR 472.5 mg/gCr HBsAg/anti-HBs negative/positive, anti-HCV negative, anti-HIV I/II+Ag negative ANA screening negative, P-ANCA/C-ANCA negative Anti-GBM antibody negative C3/C4 157.6/18.8 mg/dL Serum/urine EP not remarkable, serum/urine IF not remarkable Donor-specific antibodies (-) Peripheral blood smear: Poikilocytosis (1+) Schistocytocytes (1+) Echinocytes (1+) ADAMTS-13 activity test 85.2 % (normal range) Haptoglobin 241 mg/dL (\uparrow) Tacrolimus: 28.8 ng/mL Sirolimus: 8.6 ng/mL