## | MALIGNANCY AND INFECTION |

## POST-TRANSPLANT MALIGNANCY

- · Increased risk of malignancy secondary to chronic immunosuppression
  - 20% of renal transplant patients will have a malignancy at 10 years
- Most common: squamous cell carcinoma (skin cancer) and posttransplant lymphoproliferative disorder
  - o Others Kaposi's sarcoma, non-Hodgkin's lymphoma
- Approximately 1 in 13 post-renal transplant deaths are due to malignancy
- Post-transplant Lymphoproliferative Disorder (PTLD)
  - Majority occur within one year of transplant (relative risk 1-2%)
  - Likely related to Epstein-Barr Virus that results in uncontrolled B cell proliferation (non-Hodgkin's lymphoma)
  - o Increased risk with Tacrolimus (CNI)
  - <u>Tx</u>: (1) withdraw/decrease immunosuppression
    (2) Ganciclovir (3) Rituximab (anti CD-20) and CHOP [Cyclophosphamide, Hydroxydaunorubicin (doxorubicin), Oncovin® (vincristine), and Prednisone] (4) nephrectomy

## INFECTIONS

- Cytomegalovirus (CMV)
  - o "42-day fever" occurs approximately 6 weeks after transplant.
  - o Prophylaxis: antiviral (Ganciclovir)
- · BK virus
  - o Non-enveloped double-stranded DNA Papovaviridae
  - Up to 30% will acquire virus, which may lead to BK nephropathy
  - <u>Ix</u>: cidofovir, fluoroquinolones are being investigated for prophylaxis