



Lecture Code : PG05-S1

Session Name : PG Education 5 (Kidney Transplantation)

Session Topic : -

Date & Time, Place : June 19 (Thu) / 13:00-14:30 / Room 2 (GBR 102)

Overview of Transplant Immunology

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Kidney transplantation offers the best therapeutic option for patients with end-stage kidney disease, dramatically improving both survival and quality of life. Effective management of the adaptive immune response is essential to prevent graft rejection, which can occur through multiple immunologic pathways. Advances in immunology and immunosuppressive therapies have markedly reduced acute rejection rates and improved early transplant outcomes. However, the development of de novo donor-specific antibodies and chronic rejection continues to limit long-term graft survival. Understanding the mechanisms of immune activation and injury, alongside evolving immunosuppressive strategies, remains critical for optimizing outcomes in kidney transplantation.

Keywords: T cell mediated rejection, antibody mediated rejection, T lymphocyte, immunosuppressant, donor specific antibody