

Kidney Transplantation

Patient Care

Goals & Objectives

- 1) Interpret the results of focused clinical evaluations (history, physical examination, laboratory data) performed on patients undergoing assessment for kidney transplantation to
 - a) Identify patients who are candidates for kidney transplantation
 - b) Identify the findings that constitute contraindications to proceeding with kidney transplantation
- 2) Assume primary responsibility for the postoperative management of kidney transplant patients
- 3) Interpret the results of focused clinical evaluations (history, physical examination, laboratory data) performed on patients undergoing assessment for kidney transplantation to construct a risk benefit analysis including
 - a) Cardiac risk factors
 - b) Vascular risk factors
 - c) Endocrinological risk factors
 - d) Infectious risk factors
 - e) Rejection risk factors
- 4) Interpret the results of focused clinical evaluations (history, physical examination, laboratory data) in postoperative kidney transplant patients to identify and develop treatment plans for the following postoperative changes
 - a) Decreased urine output
 - b) Decreased/ Increased blood pressure
 - c) Chest pain
 - d) Shortness of breath
 - e) Hyperkalemia in a patient with renal insufficiency
 - f) Fever
- 5) Determine an appropriate evaluation plan for patients with a functioning kidney transplant who develop deterioration of renal function

Responsibilities and Expectations

- 1) Write admission and inpatient orders under the supervision of the fellows, NPs or attendings

- 2) Be present at morning attending rounds, prepared to present patients in an organized and succinct manner
- 3) Update sign out
- 4) Implement the clinical decisions made by the team (on rounds, during the day) in a timely manner
 - a) Arrange consultations
 - b) Check orders
 - c) Schedule diagnostic tests
 - d) Schedule therapeutic procedures
- 5) Notify the fellow/NP if unable to implement the clinical decisions
- 6) Communicate the results of consultations, diagnostic tests, and therapeutic procedures to the fellow in a timely manner
- 7) Write discharge summaries and discharge orders

Medical Knowledge

Goals & Objectives

- 1) Describe the evaluation process, including medical and psychosocial components, for the
 - a) Live kidney transplant donor
 - b) Kidney transplant recipient
- 2) Identify immunosuppressive medication
 - a) Classes
 - b) Mechanisms of action
 - c) Toxicities
- 3) Describe the immunology of rejection including
 - a) T cell and B cell involvement
 - b) Risk assessment methods
- 4) HLA testing, the role of PRA
 - a) Cross-matching
 - b) Diagnosis
 - c) Treatment
- 5) Describe the anatomy including
 - a) Kidney
 - i) Renal artery and vein
 - ii) Iliac arteries and veins
 - b) Ureter

- c) Bladder
- 6) Describe the major steps involved in performing the following procedures
 - a) Kidney transplant
 - b) Donor nephrectomy
 - c) Transplant nephrectomy
- 7) Have a working knowledge of clinical application of dialysis
 - a) Interpret the results of clinical evaluations to identify the patient who requires acute dialysis
 - b) Compare access methods for dialysis
 - c) Assess the risk of dialysis complications
- 8) Compare common opportunistic infections in transplant recipients in terms of
 - a) Presenting signs and symptoms
 - b) Treatment
 - c) Prevention

Practice-Based Learning and Improvement

Goals & Objectives

- 1) Analyze the causes of common complications of kidney transplantation

Responsibilities and Expectations

- 1) Participate in the weekly Transplant Morbidity and Mortality conference to review and analyze treatment outcomes
- 2) Meet with the education representative at least 1 times during the rotation (to review goals & objectives)

Interpersonal and Communication Skills

Goals & Objectives

- 1) Communicate effectively as a member of the multidisciplinary team that rounds together
- 2) Communicate effectively with patients and families.

Responsibilities and Expectations

- 1) Counsel and educate patients and their families regarding pathology of illness
- 2) Communicate daily plan of care with RN, PT, OT and nutrition.
- 3) Communicate plan of care to transplant coordinator and outpatient providers as needed.

Professionalism

Goals & Objectives

- 1) Describe the ethics of organ donation, brain death, withdrawal of support, and the separation of the transplant team from the team caring for the patient who is a potential donor
- 2) Describe the ethics of living donation, considering donor health and well-being.
- 3) Discuss the ethics of compensation of donor families or living donors
- 4) Discuss the ethics of various organ allocation schemes, emphasizing utility, efficiency, justice
- 5) Discuss the conflicting interests of individual transplant patients vs. the waiting list as a whole

Responsibilities & Expectations

- 1) Attend at least two kidney transplant selection conference

Systems Based Practice

Goals & Objectives

- 1) Compare the overall healthcare costs of dialysis with the costs of renal transplantation
- 2) Describe the payment system and include the role of Medicare
 - a. dialysis
 - b. renal transplantation
- 3) Analyze barriers to renal transplantation for different patient populations

Responsibilities and Expectations

- 1) Attend at least one kidney transplant selection conference