

## Elective Description

**Campus:** Northeast Campus (Grand Forks)  
**Elective/Experience Title:** Clinical Nephrology  
**Location of Elective:** Altru Clinic – Grand Forks, ND

**Department:** Internal Medicine  
**Course Number:** IMED 9320-01

**Preceptor(s):** Adetola Haastrup, MD                      Mohammed Rahman, MD                      Iqbal Masood, MD

**Period(s) Offered:** All *depending on availability of preceptor*                      **Course prerequisites:**

**Number of students per period:** 1                      **Revised Curriculum Phase(s):** 2 & 3

**Purpose:** To provide education and experience in the care of patients requiring nephrology services.

**Objectives:** Following successful completion of this elective, the student will be able to:

1. Evaluate and provide basic care for patients with renal diseases including abnormalities of acid/base balance, electrolytes and fluid volume.
2. Evaluate and manage acute and chronic renal failure with supervision of attending physician.
3. Discuss the challenges of renal replacement therapy in patients with end-stage renal disease, including home dialysis, hemodialysis and kidney transplant and follow-up.
4. Diagnose and discuss glomerular diseases, including diabetic nephropathy.
5. Evaluate and manage hypertension with supervision of attending physician.

**Instructional Activities:** During this elective, the student will be involved in/experience:

1. Reading of standard nephrology textbooks and primary literature to support and expand clinical and didactic teaching.
2. Discussion of cases with the preceptor.
3. Informal didactic teaching of nephrology topics.
4. Daily hospital and dialysis rounds.
5. Assisting the preceptor in hospital and clinic consultations.
6. Follow-up management of selected clinic patients.
7. Peritoneal dialysis training sessions with the dialysis nursing staff.
8. Assisting the preceptor in the evaluation of peritoneal dialysis patients in the clinic and hospital.

**Criteria for Grading:** During and following this elective, the preceptor will:

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Evaluate by direct observation and by review of the patient medical records the student's ability to perform an efficient history and physical exam on a patient with renal disease.
3. Evaluate by direct observation the student's ability to learn, critique and integrate new information.
4. Evaluate by informal case studies the student's understanding of basic concepts of acid/base and fluid/electrolyte metabolism.
5. Evaluate by direct observation the student's ability to work as a member of an integrated health team.