## Nephrology Levels of Care

<table>
<thead>
<tr>
<th>Procedure/Skill</th>
<th>level of care</th>
<th>supervision</th>
<th>Milestone/Competency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consult Service:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews the history, physical examination, laboratory tests, differential diagnosis, assessment, recommendations</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PBL, SBP</td>
</tr>
<tr>
<td>Elicits pertinent components of the history and physical examination and communicate the findings and recommendations to the patient or caregiver</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Discusses the case with the referring physician or resident</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Discusses reasons for consultation with the referring physician</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Introduces him/herself to the patient</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>PC, ICS, P</td>
</tr>
<tr>
<td>Performs a history, physical examination, review the chart and laboratory tests, generate a differential diagnosis, make an assessment with recommendations</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>After discussions with the supervising physician the resident gives recommendations to the referring resident</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Writes orders unique to the specialty of Nephrology such as HD orders</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, SBP</td>
</tr>
<tr>
<td>Reviews and analyzes data collected from patient encounters</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PBL, SBP</td>
</tr>
<tr>
<td>Communicates the results of the diagnostic tests and treatment to the patient and caregiver and arrange appropriate follow-up</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td><strong>Kidney Biopsy:</strong></td>
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</tr>
<tr>
<td>Performs a percutaneous biopsy of the kidney using an automated biopsy needle with ultrasound guidance</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Reviews the light, immunofluorescence, and electron microscopy of renal tissue with the Pathologist</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Places dual or triple lumen dialysis catheter in a central vein using ultrasound guidance</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Reviews the indication for dialysis therapy and writes appropriate orders</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, SBP</td>
</tr>
<tr>
<td>Presents topics for Nephrology Grand Rounds, patient cases for Morbidity and Mortality Conference, patient cases at the Renal Pathology Conference, research at the Research Conference, Renal Book Chapter discussions at the Salt and Water Conference, Journal article discussion at the Journal Club Conference, and topic discussion at the NephSap Conference</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, ICS</td>
</tr>
<tr>
<td>Performs and documents the history and physical examination</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Develops and documents a differential diagnosis</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PBL, SBP</td>
</tr>
<tr>
<td>Orders and interprets blood and urine tests</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PBL, SBP</td>
</tr>
<tr>
<td>Orders pre-biopsy medications</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Orders appropriate consults</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PBL, ICS, SBP</td>
</tr>
<tr>
<td>Explains how the procedure is done to patient/caregiver</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Task Description</td>
<td>PGY Level</td>
<td>Indirect/Direct</td>
<td>Responsible Parties</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
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<tr>
<td>Discusses the potential complications of the biopsy and what is done to minimize these complications with patient/caregiver</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Documents consent for the procedure on a consent form</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Writes post-biopsy orders</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, SBP</td>
</tr>
<tr>
<td>Checks post-biopsy blood tests</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, SBP</td>
</tr>
<tr>
<td>Reviews and analyzes data collected from patient encounters</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PBL, ICS</td>
</tr>
<tr>
<td>Obtains and reviews renal biopsy results</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PBL, ICS</td>
</tr>
<tr>
<td>Communicates biopsy results with the patient and/or caregiver</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Formulates a treatment plan</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td><strong>Temporary Catheter for Hemodialysis</strong></td>
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</tr>
<tr>
<td>Places dual or triple lumen dialysis catheter in a central vein using ultrasound guidance</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Obtains a focused history and physical examination as it pertains to central venous catheter placement</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Orders and interprets blood tests before catheter placement</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, P</td>
</tr>
<tr>
<td>Informs the patient/caregiver the reasons for catheter placement</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Informs the patient about need for dialysis, length of catheter use, and prognosis of renal failure</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<tr>
<td>Discusses how the procedure will be performed to patient/caregiver</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<tr>
<td>Discusses the potential complications of central venous catheter placement and steps taken to minimize these complications</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<tr>
<td>Obtains informed consent from the patient</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<tr>
<td>Uses ultrasound guidance to locate the best possible site for central venous catheter placement</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Writes orders for catheter use following placement</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS</td>
</tr>
<tr>
<td><strong>Hemodialysis &amp; Peritoneal Dialysis:</strong></td>
<td></td>
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</tr>
<tr>
<td>Reviews the indication for dialysis therapy and writes appropriate orders</td>
<td>PGY 4</td>
<td>Direct</td>
<td>MK, PC, PBL, P</td>
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<tr>
<td>Explains to the patient/care giver indications for dialysis, the dialysis procedure, and the duration of dialysis (temporary or permanent)</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td>Obtains a consent for performing dialysis</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<tr>
<td>Takes care of complications that arise during the dialysis procedure</td>
<td>PGY 4</td>
<td>Oversight</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
</tr>
<tr>
<td><strong>Nephrology Continuity Clinic:</strong></td>
<td></td>
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<tr>
<td>Reviews the history, physical examination, laboratory tests, differential diagnosis, assessment, recommendations from previous encounters</td>
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<td>• Elicits pertinent components of the history and physical examination and communicate the findings and recommendations to the patient or caregiver</td>
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<td>Task</td>
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<td>Level</td>
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<td>PGY 4</td>
<td>Indirect</td>
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<td>Writes appropriate drug prescriptions and explain them to the patient/caregiver</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL, ICS, SBP, P</td>
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<td>Conferences:</td>
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<td>PGY 4</td>
<td>Direct</td>
<td>MK, ICS</td>
</tr>
<tr>
<td>Holds discussions with faculty mentors in preparation for a slide presentation, selecting a topic for research, guidance with the research protocol, obtaining approval from the IRB, guidance with preparation for any of the conferences mentioned in the first column</td>
<td>PGY 4</td>
<td>Indirect</td>
<td>MK, PC, PBL</td>
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