



# Entrustable Professional Activities

## EPA 4 for Pediatric Nephrology

### EPA 4: Provision and Supervision of Kidney-Related Procedures Including Native and Transplant Kidney Biopsy, Peritoneal Dialysis

#### Supervision Scale for This EPA

1. Trusted to observe or assist
2. Trusted to execute with direct supervision and coaching
3. Trusted to execute with indirect supervision for most simple cases and some complex cases
4. Trusted to execute with indirect supervision but may require discussion or direct supervision at critical portions for a few complex cases
5. Trusted to execute without supervision

#### Description of the Activity

Pediatric nephrologists are specifically trained to perform and supervise kidney-related procedures required to diagnose specific renal diseases by performing native or transplant kidney biopsies. In addition, pediatric nephrologists provide renal replacement therapy in the setting of both acute kidney injury and chronic kidney disease. This is accomplished through peritoneal dialysis, hemodialysis, or continuous renal replacement therapy (CRRT). The scope of practice includes all children and young adults from birth through late adolescence/early adulthood under the care or consultation from pediatric nephrology in both the outpatient and inpatient hospital setting.

The specific functions which define this EPA include:

1. Knowing the provisions including laboratory testing, establishing dialysis access, and equipment required to perform kidney biopsies and renal replacement therapy
2. Obtaining informed consent for kidney-related procedures from patients and legal guardians after readily understandable explanations of risks, benefits, and potential complications associated with each procedure
3. Developing, through deliberate practice, the skills necessary to perform and supervise kidney-related procedures, including native and transplant kidney biopsy, peritoneal dialysis, hemodialysis, and CRRT
4. Monitoring the status of patients during kidney-related procedures, including timely treatment of potential complications associated with each procedure
5. Providing appropriate and timely follow-up testing as well as short- and long-term post-procedure management to ensure patient safety after kidney-related procedures
6. Recognizes and, if desired and important to the trainee, develops the skills to perform ultrasound for diagnosis and treatment and pheresis therapies

#### Judicious Mapping to Domains of Competence

- ✓ Patient Care



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- ✓ Medical Knowledge
- ✓ Practice-Based Learning and Improvement
- ✓ Interpersonal and Communication Skills
- ✓ Professionalism
- ✓ Systems-Based Practice
- Personal and Professional Development

### Competencies Within Each Domain Critical to Entrustment Decisions\*

PC 6:	Using optimal clinical judgment
MK 2:	Practicing EBM
PBLI 1:	Identifying gaps
PBLI 2:	Setting goals
ICS 4:	Working as a member of the health care team
P 2:	Demonstrating professional conduct
P 3:	Demonstrating humanism
SBP 4:	Advocating for quality
SBP 5:	Working in interprofessional teams

*\*Based on original Pediatrics Subspecialty Milestones ©2015 ACGME/ABP. All rights reserved.*

### Context for the EPA

**Rationale:** Pediatric nephrologists must be able to safely perform kidney-related procedures to both diagnose specific renal disease and provide renal replacement therapy, when indicated. This occurs in both the setting of acute kidney injury and as part of transition from chronic kidney disease care to end-stage renal disease care in children and adolescents/young adults.

**Scope of Practice:** This document is intended to address the scope of knowledge and skills in performing kidney-related procedures for a pediatric nephrologist. The scope of care in providing kidney-related procedures encompasses a wide patient age range from pre-term newborns to fully grown and mature young adults. As such, the diversity of size of patients covered varies vastly and the pediatric nephrologist must be able to negotiate this seamlessly. Furthermore, the provision of these procedures can and will occur both in the outpatient as well as inpatient setting. As such it focuses on the understanding, technical ability, and experience necessary to safely perform each procedure and deal with potential complications. The procedures covered under this EPA center around 1) percutaneous renal biopsy of both native and transplanted kidneys, 2) renal replacement therapy in the forms of acute CRRT and both acute and chronic hemodialysis and peritoneal dialysis, and 3) ultrasound and pheresis techniques where desired and important to the trainee.