



## **Pediatric Interventional Radiology Fellowship at Phoenix Children's Hospital Educational Program (Procedural Curriculum)**

### **1. Curriculum**

#### **a. Pediatric Interventional Radiology (PCH)**

- i. Venous Procedures**
  - 1. Venous Access**
  - 2. Thrombolysis/Thrombectomy/Angioplasty/Stents**
- ii. Arterial Procedures**
  - 1. Diagnostic Angiography/Embolization**
- iii. Vascular Malformations**
  - 1. High Flow and Endovascular Interventions**
  - 2. Low Flow and Sclerotherapy/ Endovascular Interventions**
- iv. Lymphatic Disease**
  - 1. Lymphangiography**
  - 2. Thoracic Duct Interventions**
- v. Enteral procedures**
  - 1. Primary Enteral Tube Placement**
  - 2. Enteral Tube Replacement/Exchange**
- vi. Percutaneous Drainage Catheter Placement**
  - 1. Abscess**
  - 2. Biliary/Cholecystostomy**
  - 3. Renal**
  - 4. Chest Tube**
- vii. Biopsy**
  - 1. Solid Organ**
  - 2. Thyroid**
  - 3. Masses**
  - 4. Bone**
- viii. Musculoskeletal Interventions**

1. Joints
2. Bursa
3. Osseous Lesions
- ix. Gastrointestinal
  1. Interventional Management of Portal Hypertension
  2. Portomesenteric Thrombosis Management
  3. GI Bleeding Interventions
  4. Biliary Obstruction Interventions
    - a. Percutaneous Drainage
    - b. Cholangioplasty
- x. Genitourinary
  1. Percutaneous Nephrostomy/Nephroureterostomy/Ureteral Stent
    - a. Ureteric Dilatation
  2. Renal Vascular Disease
    - a. Angiography/Angioplasty
    - b. Nutcracker Syndrome Interventions
  3. Varicocele (Internal Spermatic Vein) Embolization
- xi. Neurological
  1. Diagnostic Cervicocerebral Angiography
  2. Embolization
    - a. Epistaxis
    - b. Juvenile Nasopharyngeal Angiofibroma
- xii. Ablation
  1. Chemical, Thermal, RFA, Microwave
- xiii. Imaging in IR
  1. Ultrasound, Fluoroscopy, CT, MRI
- xiv. Radiation Safety
- b. Adult Interventional Radiology (Outside institution with PLA)
  - i. Venous Procedures
    1. IVC Filter Placement/Retrieval\*
    2. Hemodialysis Shunt Interventions\*
  - ii. Arterial Procedures
    1. Peripheral Arterial Disease and Endovascular Interventions\*

2. Aortic Aneurysms and Endovascular Interventions\*
  3. Pulmonary Embolism and Endovascular Interventions\*
  4. Renal Artery Abnormalities and Endovascular Interventions
- iii. Gastrointestinal
1. Interventional Management of Portal Hypertension\*
  2. Portomesenteric Thrombosis Management\*
  3. GI Bleeding Interventions\*
  4. Biliary Obstruction Interventions
    - a. Percutaneous Drainage
    - b. Cholangioplasty
- iv. Genitourinary
1. Percutaneous Nephrostomy/Nephroureterostomy/Ureteral Stent
    - a. Ureteric Dilatation
  2. Renal Vascular Disease
    - a. Angiography/Angioplasty\*
    - b. Nutcracker Syndrome Interventions
  3. Women's Health
    - a. Uterine Artery and Uterine Fibroid Embolization\*
    - b. Post-Partum Hemorrhage Intervention\*
  4. Men's Health
    - a. Varicocele (Internal Spermatic Vein) Embolization
    - b. Prostate Artery Embolization\*
- v. Neurological
1. Diagnostic Cervicocerebral Angiography
- vi. Pain Interventions\*
1. Vertebroplasty, Kyphoplasty, Abation, etc.
- vii. Ablation\*
1. Chemical, Thermal, RFA, Microwave
- viii. Interventional Oncology Procedures