

Identifier	Title	Author	Curriculum	Week	Type	Description	Notes
Peds Reading/Podcast 1.1	Neonatal and Infant Physiology	Belani	Basic	Week 1	Reading/Podcast	Developmental physiology of neonates, infants and children	This could be reading or podcast, that is then paired with a clinical to focus on clinical correlates
Peds Reading/Podcast 1.2	Physiologic Effects of Anesthetic Agents		Basic	Week 1	Reading/Podcast	Review the effect of anesthetic agents on infants and children including the impact on the airway and the cardiovascular system	
Peds Reading/Podcast 1.3	Pediatric Pharmacology	Nicole Rovinson	Basic	Week 1	Reading/Podcast		
Peds Online 1	Setting up a pediatric room	Tammy Wang	Basic	Week 1	Online module	Video	
Peds Assessment 1	Quiz Week 1	Meredith Kato	Basic	Week 1			
Peds Mini PBLD 1	Neonatal and infant Physiology	Belani	Basic	Week 1	Mini PBLD		
Peds Mini PBLD 2	Physiologic Effects of Anesthetic Agents	Ehie	Basic	Week 1	Mini PBLD		
Peds Mini PBLD 3	Pediatric Pharmacology: NMB	Afroze	Basic	Week 1	Mini PBLD	Clinical correlates for peds pharamaco dynamics and pharmaco kinetics.	Designed for in room teaching
Peds Lecture 1	Neonate, Infant and Child Airway Anatomy	Lisa Lynch	Basic	Week 1	Lecture		
Peds Lecture 2	Techniques for the induction of general anesthesia in infants and children	Kelly Ryan	Basic	Week 1	Lecture		
Peds SIM 1	Techniques for the induction of general anesthesia in infants and children		Basic	Week 1	SIM		
Peds Reading/Podcast 2.1	Thermoregulation in infants and Children	Gail Shibata/Andrew Infosin	Basic	Week 2	Reading/Podcast		
Peds Reading/Podcast 2.2	PONV in infants and Children		Basic	Week 2	Reading/Podcast		
Peds Assessment 1	Quiz Week 2	Sandr Gonzalez	Basic	Week 2	Assessment	asked Rae	
Peds Mini PBLD 4	Thermoregulation	Gail Shibata/Andrew Infosin	Basic	Week 2	Mini PBLD		
Peds Mini PBLD 5	PONV in infants and children		Basic	Week 2	Mini PBLD		
Peds Mini PBLD 6	Physiologic Effects of Anesthetic Agents - Volatile Agents	Sandra Gonzalez	Basic	Week 2	Mini PBLD		
Peds Lecture 3	Pediatic Airway Management	Masood Memarzadeh/infosin	Basic	Week 2	Lecture		
Peds Sim/ Hands-on 2	Pediatic Airway Management	Jennifer Chiem	Basic	Week 2	Hands-on Skill Session		
Peds Lecture 4	Fluid and electrolytes in infants and children	Faith Ross	Basic	Week 2	Lecture		
Peds Sim/Hands-on 3	Intravenous access in infants and children	Jamie Rubin	Basic	Week 2	Hands-on Skill Session		
Peds Reading/Podcast 3.1	Social and Emotional Milestones	Kristin Pappas	Basic	Week 3	Reading/Podcast		
Peds Reading/Podcast 3.2	Parent presence during induction of anesthesia	pinyavat	Basic	Week 3	Reading/Podcast		
Peds Reading/Podcast 3.3	Neuraxial anatomy in infants and children	Anita Akbar	Basic	Week 3	Reading/Podcast		
Peds Assessment 3	Basic Quiz 3	Helena Oechsner	Basic	Week 3	Assessment		
Peds Mini PBLD 7	Parent presence during induction	Pinyavat	Basic	Week 3	Mini PBLD		
Peds Mini PBLD 8	Neuraxial anatomy in infants and children	Janice Man	Basic	Week 3	Mini PBLD		
Peds PBLD 1	Social and Emotional Milestones	Seiden	Basic	Week 3	PBLD		
Peds Lecture 5	Respiratory Infection in the Perioperative Period	Groenewald	Basic	Week 3	Lecture		
Peds Lecture 6	Methods of distraction and premedication in infants and children	Deverman	Basic	Week 3	Lecture		

Peds Reading/Podcast 4.1	Laryngospasm	Anita Akbar	Basic	Week 4	Reading/Podcast
Peds Online 2	Caudal Anesthesia	Dooley	Basic	Week 4	Online Module
Peds Assessment 4	Basic Quiz 4	Adria Boucherel	Basic	Week 4	Assessment
Peds Mini PBLD 9	Laryngospasm	Anita Akbar	Basic	Week 4	Mini PBLD
Peds Lecture 7	Caudal Anesthesia	Adam Adler	Basic	Week 4	Lecture
Peds Hands-on 3 ?????	Caudal Anesthesia		Basic	Week 4	Hands-on Skill Session
Peds SIM 2	Difficult communication	Elizabeth Yun	Basic	Week 4	SIM

### Advanced Curriculum

Peds Reading/Podcast 5.1	Neonatal Surgical emergencies CDH	Tina Dong/infosino/shibata	Adv	Week 5	Reading/Podcast
Peds Reading/Podcast 5.2	Common congenital neonatal abnormalities: omphalocele	Neon	Adv	Week 5	Reading/Podcast
Peds Assessment 5	Adv Quiz 1	Farzana Afroze	Adv	Week 5	Assessment
Peds Mini PBLD 10	Neonatal surgery 1 -		Adv	Week 5	Mini PBLD
Peds Mini PBLD 11	Neonatal surgery 2 -		Adv	Week 5	Mini PBLD
Peds Lecture 8	Common congenital neonatal abnormalities		Adv	Week 5	Lecture
Peds PBLD 2	Neonatal surgical emergencies	Jason Bryant	Adv	Week 5	PBLD
Peds PBLD 3	Common congenital neonatal abnormalities	Ona Dachsangvorn	Adv	Week 5	PBLD

Peds Reading/Podcast 6.1	Common congenital heart disorders	Saab	Adv	Week 6	Reading/Podcast
Peds Reading/Podcast 6.2	Pyloric stenosis	Kapoor	Adv	Week 6	Reading/Podcast
Peds Assessment 6	Adv Quiz 2	asked Melissa Ehlers	Adv	Week 6	Assessment
Peds Mini PBLD 12	Common congenital heart disorders	Saab	Adv	Week 6	Mini PBLD
Peds Mini PBLD 13	Common congenital heart disorders 2	Saab	Adv	Week 6	Mini PBLD
Peds Mini PBLD 14	Pyloric stenosis	kapoor	Adv	Week 6	Mini PBLD
Peds Lecture 9	Common congenital heart disorders	Schwartz	Adv	Week 6	Lecture
Peds Lecture 10	Pediatric regional anesthesia	See Regional Lecture 14	Adv	Week 6	Lecture
Peds Lecture 11	Pediatric pain management	Lisgelia Santana	Adv	Week 6	Lecture

Peds Reading/Podcast 7.1	Trisomy 21	Sinskey/Infosino	Adv	Week 7	Reading/Podcast
Peds Reading/Podcast 7.2	Peds Anesthesia emergencies		Adv	Week 7	Reading/Podcast
Peds Assessment 7	Adv Week 3 Quiz		Adv	Week 7	Assessment
Peds Mini PBLD 15	Peds difficult airway	Hedwig Schroeck	Adv	Week 7	Mini PBLD
Peds Mini PBLD 16	Peds difficult airway 2 - foreign body	Debnath Chatterjee	Adv	Week 7	Mini PBLD
Peds Mini PBLD 17	Peds anesthesia emergencies		Adv	Week 7	Mini PBLD
Peds Mini PBLD 18	Peds anesthesia emergency 2		Adv	Week 7	Mini PBLD
Peds Lecture 12	Peds difficult airway	Hemanth Baboobal	Adv	Week 7	Lecture
Peds SIM 4	Peds Anesthesia Emergencies		Adv	Week 7	SIM
Peds Lecture 13	Peds anesthesia emergencies		Adv	Week 7	Lecture

Peds Reading/Podcast 8.1	Major spine surgery in the peds patient	Chris Glover	Adv	Week 8	Reading/Podcast
Peds Reading/Podcast 8.2	Neuromuscular disorders	Greg Latham	Adv	Week 8	Reading/Podcast
Peds Assessment 8	Adv Week 4 Quiz		Adv	Week 8	Assessment
Peds Mini PBLD 19	Peds neuromuscular disorders	Rani Sunder		Week 8	Mini PBLD
Peds Mini PBLD 20	Downs syndrome patient			Week 8	Mini PBLD

<b>Peds Mini PBLD 21</b>	Peds PALS	Wajia Rajeev		Week 8	<b>Mini PBLD</b>
<b>Peds PBLD 5</b>	OSA in the pediatric population	Arvind Chandrakantan	Adv	Week 8	<b>PBLD</b>
<b>Peds Lecture 15</b>	Learning the signs of a very sick child	Rae Brown	Adv	Week 8	<b>Lecture</b>

**Supplemental Content**

<b>Peds Pocast 9</b>	HFOV for peds patients Uptake and distribution of anesthetic gas in the newborn.		Adv		<b>Reading/Podcast</b>
<b>Peds Online 3</b>					<b>Online</b>
<b>Peds PBLD 4</b>	Peds OOR anesthesia		Adv	Week 8	<b>PBLD</b>
<b>Peds Lecture 16</b>	Peds Trauma		Adv	Week 8	<b>Lecture</b>
	Effects of Anesthetics on the control of breathing Anesthesia for the Newborn (ask Myron Yaster) Anesthesia for the Newborn (ask Myron Yaster)				pocast lecture

## Resident Peds Anesthesia Curriculum

**Glenn Woodworth, MD**  
Oregon Health and Science University

## Disclosures

- No Financial Disclosures
- Current Editor for the Anesthesia Toolbox

## Learning Objectives


**Upon completion of this activity, participants will be able to:**

- Understand the goals and objectives of the resident curriculum project and the participation of the Peds program directors
- Describe the curriculum development and review process
- Identify the resources for learners and faculty in the Anesthesia Toolbox
- Describe how to utilize the Toolbox to implement a Peds anesthesia curriculum



## Resident Rotation Experience


- Highly variable experience
  - Clinical cases vary
  - Clinical teaching varies



Gruppen LD et al. The consistency and educational benefits of clinical experiences during an ambulatory care internal medicine rotation. Acad Med. 1993;68:674-680.

## Resident Rotation Experience

- Take a specific rotation
- What knowledge, skills and behaviors should be mastered?



## Toolbox Curricula

- National faculty experts define curriculum
- Sequenced exposure to topics
- Learner and faculty driven



## Sample CP Week 1 Curriculum

Topic	Topic	
Self-Directed	Physiologic effects of anesthetic agents	Podcast
	Developmental pharmacology	Podcast
	Setting up a pediatric room	Video
	Week 1 Quiz	
Faculty-Driven	Neuromuscular blockers	Mini PBLD
	Neonatal physiology	Mini PBLD
	Physiologic effects of anesthetic agents	Mini PBLD
	Infant and child airway anatomy	Lecture
	Techniques for induction	Lecture
	Techniques for induction	SIM

## Toolbox Curricula Elements

- **Self Directed**
  - Podcast
  - Online module
  - Video
  - Reading
  - Lecture archive
  - Quiz bank
- **Faculty directed**
  - Lectures
  - PBLDs
  - In-room teaching
  - SIM



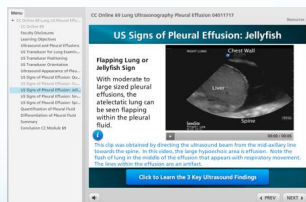
## Content Development

- Call to authors
- All volunteer army



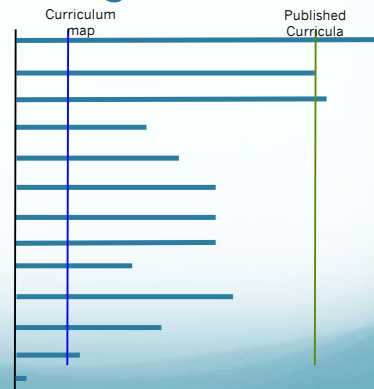
## Author Support

- Instructions, templates, examples
- Medical art/Stock Photography
- Computer programmer for e-learning modules
- Instructional design review
- Peer review




## Progress

- Regional Acute Pain
- Neuro
- OB
- Cardiac
- Critical Care
- Airway
- Ambulatory
- Trauma
- CA 1
- **Pediatrics**
- Chronic pain
- PACU
- Acute Pain




## Education Platforms

### Online LMS



- Course-based study
- Create and assign curricula
- Quiz bank
- Track learner progress

### Community Portal




- Wiki Cases
- Ask a clinical question
- Clinical pearls
- Online PBLDs and Journal Clubs
- What's new
- What's trending

## Toolbox Community

**Create a social community of learning**


- Use modern social knowledge management technology
- Capture and distribute key knowledge
  - Crowd-sourced knowledge
  - Collaborative learning
- Better alignment with the way current trainees communicate and learn



## Toolbox LMS

**Course or Rotation-based Learning**

- Create Curricula
- Self-enroll or be assigned curricula
- Track learner progress
- Self-guided access
- Quiz bank



## Strategic Partners

- Society for Education in Anesthesia
- World Federation of Anesthesiologists
- Society for Ambulatory Anesthesia
- Trauma Anesthesia Society
- Society for Airway Medicine
- Association of Peds Program Director
- **Association of Pain Program Directors**
- SAAA?
- ASA?

## ASK

- Help finish the resident month 1 and 2 curricula (we need a few authors)
- Desperate for Peer Reviews
- Tackle the fellow curricula

