

Introduction to paediatrics

Online learning course outline

Topic	Presenter	Learning objectives	Competency standards* addressed
Introduction to paediatric patients	Sonya Stacey , <i>Director of Pharmacy, Children's Health Queensland; Adj Associate Professor, University of Queensland, Brisbane, Qld</i>	<ul style="list-style-type: none"> • Discuss the common child health issues at a local and global level • Discuss pharmacokinetic and pharmacodynamic characteristics in children • Identify potential issues in therapeutic drug monitoring for children • Describe the important medication safety issues in paediatrics • Discuss the practicalities of medication administration in children 	1.6.1, 3.1.2, 3.2.3
Child safety and ethics in paediatric pharmacy practice		<ul style="list-style-type: none"> • Describe the basic four principles of ethics in child health • Apply these core concepts in decision-making for medicines use in children 	1.2.2, 1.2.3
Medication safety in paediatric patients	Natalie Tasker , <i>A/ Director of Pharmacy, Queen Elizabeth II Jubilee Hospital, Brisbane, Qld</i>	<ul style="list-style-type: none"> • Explain why children are at higher risk of medication misadventure • Discuss strategies to minimise the inherent risks associated with medicines use in children • Explore the role of pharmacists in medication safety for children • Identify interventions that can prevent medication related harm in children 	1.6.1, 3.2.5
Immunisation	Anita McConaghy , <i>Senior Pharmacist, Queensland Specialist Immunisation Service, Queensland Children's Hospital, Brisbane, Qld</i>	<ul style="list-style-type: none"> • Overview the national immunisation schedule and the Australian Immunisation Register 	3.6.3

<p>General paediatric consideration</p>	<p>Rachael Worthington, <i>Pharmacy Educator and Residency Lead, Blacktown Mount Druitt Hospitals; Patient Safety and Clinical Benefits Lead, eHealth NSW, Sydney, NSW</i></p>	<ul style="list-style-type: none"> • Identify common reasons that children present to hospital • Discuss treatment of eczema in children • Outline treatment of common gastrointestinal complaints in children, including constipation and diarrhoea • Describe the usual management of a child with fever • Outline antimicrobial stewardship principles in paediatric patients • Explain antimicrobial treatment options for suspected sepsis in children • Describe medication issues specific to paediatric Indigenous populations 	<p>3.1.2, 3.2.2, 3.2.3, 3.3.2</p>
<p>Common respiratory presentations in children</p>	<p>Reva Sharma, <i>Senior Pharmacist (Central acute services lead), Emergency department and Children's short stay unit, Children's Hospital Westmead (SCHN), Sydney, NSW</i></p>	<ul style="list-style-type: none"> • Discuss treatment of common respiratory presentations to the emergency department (croup, bronchiolitis, asthma) • Discuss treatment of acute asthma, both immediate and ongoing treatment. 	<p>3.1.2, 3.2.3, 3.3.1</p>
<p>Respiratory</p>	<p>Heidi Wong, <i>Pharmacist Clinical Lead - Medical, Queensland Children's Hospital, Brisbane, Qld</i></p>	<ul style="list-style-type: none"> • Recognise common symptoms and clinical findings in reactive airway disease (RAD) and asthma • Explain standard treatments for RAD and asthma • Discuss the role of pharmacist in managing these patients 	<p>3.1.2, 3.2.1, 3.3.1</p>
<p>Infectious diseases and antimicrobial stewardship (AMS) in children</p>	<p>Nicollette Graham, <i>Antimicrobial Stewardship Pharmacist, Queensland Children's Hospital, Brisbane, Qld</i></p>	<ul style="list-style-type: none"> • Describe key principles of antimicrobial stewardship • Apply AMS principles to optimise care of a paediatric patient • Explain factors that impact antimicrobial use in children 	<p>3.1.2, 3.2.3, 3.3.2</p>
<p>Surgical considerations in paediatrics</p>	<p>Jade Fox, <i>Clinical Pharmacist, ANZCAP Registrar - Paediatrics, Queensland Children's Hospital, Brisbane, Qld</i></p> <p>Lana Steward, <i>Director of Pharmacy, Tweed Byron Network, NNSWLHD, NSW</i></p>	<ul style="list-style-type: none"> • Assess analgesia choice, dosing and appropriateness of use in paediatric patients • Explain surgical antibiotic prophylaxis options commonly used in paediatric patients • Explain the risk factors specific to children undergoing surgery • Describe usual post-operative care in children 	<p>3.1.2, 3.2.3, 3.3.1, 3.3.2</p>

		<ul style="list-style-type: none"> Describe typical post-operative care considerations in children Recommend appropriate analgesia for children after surgery Discuss appropriate antibiotic choices in surgical patients Explain the risks of refeeding syndrome and appropriate treatment if it occurs 	
Neurology	<p>Julie Drummond, <i>Pharmacy Team Leader, Monash Children's Non- Cancer Services, Monash, Melbourne, Vic</i></p>	<ul style="list-style-type: none"> Explain approaches to treating new onset seizures in paediatric patients Outline factors impacting medication selection for treatment of seizures in paediatric patients Describe appropriate counselling strategies for parents of paediatric patients with new onset seizures Describe how to edit a patient's existing medication regimen if commencing on the ketogenic diet Explain how to counsel parents and carers on medication administration techniques for children on ketogenic diet 	3.1.2, 3.2.2, 3.2.3, 3.2.5, 3.3.1, 3.5.2, 3.6.1
Child and adolescent mental health	<p>Victoria Letts, <i>Deputy Director of Pharmacy; Pharmacy Quality and Operations Manager, The Royal Children's Hospital Melbourne, Melbourne, Vic</i></p>	<ul style="list-style-type: none"> Describe typical symptoms of attention-deficit/hyperactivity disorder and autism spectrum disorder (ASD) in children Describe treatment options for ADHD, including legal requirements for stimulant use Outline medications used to treat eating disorders in children and adolescents Develop medication management strategies for paediatric patients with mental health disorders 	3.1.2, 3.2.2, 3.2.3, 3.3.2