

Extension Seminar in Paediatrics - The first 1000 days of life

Preliminary program

Self-paced learning package: available from Friday 14 February 2025

Topic and presenter	Learning objectives
<p>Pharmaceutics in paediatrics and neonates</p> <p>Dr Kate O'Hara, <i>Vice-President, AdPha; Deputy Service Manager - Clinical, John Hunter Hospital, Newcastle, NSW</i></p>	<ul style="list-style-type: none"> Assess suitability of medication for prem neonate Consider neonate-specific issues when compounding
<p>Premature babies: outcomes and challenges</p> <p>Dr Srinivas Bolisetty, <i>Medical Co-Director – Newborn Care, Royal Hospital for Women, Sydney, NSW</i></p>	<ul style="list-style-type: none"> Understand the most likely complications for babies affected by premature birth, and long-term impact of these complications Describe developmental issues which are common in children born prematurely
<p>Newborn testing and recent changes, principles for newborn testing</p> <p>Dr Kathryn Leadbeater, <i>Advanced trainee, Paediatrics, John Hunter Hospital, Newcastle, NSW</i></p>	<ul style="list-style-type: none"> Describe the process for newborn screening, Understand the rationale for early intervention for rare diseases Discuss conditions which are screened in Australia
<p>Metabolic conditions – case presentation</p> <p>Dr Kaustuv Bhattacharya; <i>Metabolic Paediatrician, Genetic Metabolic Disorders Service; Conjoint Senior Lecturer, University of Sydney, NSW</i></p>	<ul style="list-style-type: none"> Definition of inborn errors of metabolism Overall scheme of acute metabolic conditions Case presentation of an acute metabolic condition Pharmacological and clinical management of acute conditions Broader view of alternative therapies including enzyme replacement, gene therapy and organ transplantation

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Live virtual seminar: Saturday 22 March 2025

All times are listed in AEST

Time (AEST)	Session	Learning objectives
0850-0900	Online login and registration available	
0900-0910	Welcome and introductions	
0910-0930	<p>Review of online learning content and Q&A Led by Michelle Jenkins, Pharmacist Manager, Paediatrics and Production, John Hunter Children's Hospital, Newcastle, NSW</p>	
0930-1015	<p>Presentation 1: NICU baby with complex problems Presented by: Dr Amber Seigel, Neonatal and Paediatric Emergency Transport Service Retrieval Staff Specialist, NSW Health, NSW</p>	<ul style="list-style-type: none"> Describe the key steps in assessing a premature baby with multiple medical problems Explain how gestational age affects medication choices and dosing in premature babies Apply current NICU and clinical guidelines to select appropriate medications for premature babies Determine when and how clinical guidelines need to be modified for complex cases
1015-1100	<p>Case session 1: NICU baby - Part 1 Led by: Rebecca O'Grady, Specialist Neonatal ICU and Paediatric Pharmacist, Royal North Shore Hospital, NSW</p>	<ul style="list-style-type: none"> Describe the most common complications for babies affected by premature birth including bronchopulmonary dysplasia (BPD), pulmonary hypertension and patent ductus arteriosus (PDS) Explain the treatment of early and late sepsis in neonates Describe necrotising enterocolitis (NEC) Explain the prevention, long term outcomes and treatment of NEC
1100-1115	Break	
1115-1145	Growth and development over the first 1,000 days	<ul style="list-style-type: none"> Understanding the major domains of growth and development in children

	<p>Dr Kathryn Leadbeater, <i>Advanced trainee, Paediatrics, John Hunter Hospital, Newcastle, NSW</i></p>	<ul style="list-style-type: none"> • Importance of early intervention in a gen paed context • Describe the impact of adverse childhood experiences (ACEs) on outcomes in children
1145-1215	<p>Case session 1: NICU baby - Part 2 Led by: Rebecca O'Grady, <i>Specialist Neonatal ICU and Paediatric Pharmacist, Royal North Shore Hospital, NSW</i></p>	<ul style="list-style-type: none"> • Describe the most common complications for babies affected by premature birth including bronchopulmonary dysplasia (BPD), pulmonary hypertension and patent ductus arteriosus (PDS) • Explain the treatment of early and late sepsis in neonates • Describe necrotising enterocolitis (NEC) • Explain the prevention, long term outcomes and treatment of NEC
1215-1245	<p>Presentation 2: RSV comparison of states with vs without nirsveimab in 2024 Presented by: Dr Coen Butters, <i>General Paediatrician and Paediatric Infectious Diseases Physician, John Hunter Children's Hospital, NSW</i></p>	<ul style="list-style-type: none"> • Overview the epidemiology of RSV infection in infants during their first 1000 days of life • Describe the impact of RSV on healthcare systems and the community • Explain the role and impact of nirsveimab in RSV • Compare this impact to State/Territory locations without nirsveimab access • Describe the projected benefits of Australia-wide nirsevimab implementation
1245-1315	<p>Break</p>	
1315-1415	<p>Endocrinology in the first 1,000 days of life Presented by: A/Prof Patricia Crock, <i>Conjoint Professor School of Medicine and Public Health, The University of Newcastle, NSW</i></p>	<ul style="list-style-type: none"> • Describe treatment of hypopituitarism in newborn babies • Describe treatment of thyroid disorders in babies and children • Explain neonatal hypoglycaemia and usual treatment
1415-1445	<p>Perinatal infections Presented by: Dr Joanne McIntosh, <i>Staff Specialist Neonatologist NICU, John Hunter Children's Hospital, Newcastle, NSW</i></p>	<ul style="list-style-type: none"> • Describe common infections affecting neonates, and their usual treatment • Identify signs and management of newborn sepsis, including early and late onset • Apply antimicrobial stewardship principles to paediatric antibiotic use
1445-1500	<p>Break</p>	

1500-1530	<p>Case session 2: Perinatal infections Led by Michelle Jenkins, Pharmacist Manager, Paediatrics and Production, John Hunter Children's Hospital, Newcastle, NSW</p>	
1530-1545	<p>Final Q&A, seminar summary and close Led by Michelle Jenkins, Pharmacist Manager, Paediatrics and Production, John Hunter Children's Hospital, Newcastle, NSW</p>	
1545	Seminar close	