

Introduction to perinatal medicine

ONLINE COURSE

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Online learning course outline

Medicines in Pregnancy					
Topics	Presenter	Learning objectives	Competency standards*		
Assessing safety of medication during pregnancy (reproductive toxicology)	Kate Luttrell, Clinical Pharmacist, Royal Hobart Hospital, Hobart, Tas	 Describe fundamental principles for evaluating the safety of medications in pregnancy Outline critical periods in pregnancy where medicines have the potential to affect human development Describe potential fetal effects of maternal and paternal drug exposure during pregnancy Outline limitations associated with classification systems used to guide medication use in pregnancy Identify key resources for supporting evidence-based decisions on medication use in pregnancy 	3.1.2, 3.2.3, 3.3.1, 3.3.2, 3.5.2		
Clinical Pharmacokinetic changes in pregnancy	Elizabeth Heiner, MotherSafe Teratology Information Counsellor, Royal Hospital for Women; Clinical Pharmacist, Children's Hospital at Westmead, Sydney, NSW	 Describe the physiological changes that occur during pregnancy Discuss the impact pregnancy can have on the pharmacokinetics of medications in general Identify medications that may require dosage adjustments during pregnancy 	3.1.2, 3.2.3, 3.3.1, 3.3.2		
Management of unique pregnancy conditions	James Dwyer, Director of Pharmacy, Mercy Hospital for Women, Melbourne, Vic	Describe the pathophysiology and clinical management of common complications of pregnancy including hyperemesis gravidarum, gestational diabetes, and hypertensive disorders (including gestational hypertension, pre-eclampsia, HELLP syndrome)	3.1.2, 3.2.3, 3.3.1, 3.3.2		
Guided case study	Elizabeth Heiner, MotherSafe Teratology Information Counsellor, Royal Hospital for Women; Clinical Pharmacist, Children's Hospital at Westmead, Sydney, NSW	 Interpret appropriate evidence-based information resources to formulate recommendations for safe medication use in pregnancy Practice methods to effectively communicate risk with patients 	3.1.2, 3.2.3, 3.2.5, 3.3.1, 3.3.2, 3.5.2		



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Medicines in Breastfeeding							
Importance of breastfeeding and medications used for stimulating or suppressing lactation	Associate Professor Treasure McGuire, Assistant Director of Pharmacy, Practice & Development, Mater Health, Gold Coast, Qld	 Explain the importance of breastfeeding for both mother and baby, and how it influences infant outcomes Outline current recommendations for breastfeeding in Australia Identify situations where additional nutritional supplements or fortification may be indicated Outline medications utilised in practice for stimulation or suppression of lactation 	3.1.2, 3.2.3, 3.3.1, 3.3.2				
Principles of medication use during lactation	Tamara Lebedevs, Senior Pharmacist, Women and Newborn Health Service, Subiaco, WA	 Describe factors determining medication transfer into breast milk Evaluate the risk of infant exposure to medications via lactation Discuss limitations associated with classification systems used to guide medication use in lactation 	3.1.2, 3.2.3, 3.3.1, 3.3.2				
Guided case study	Elizabeth Heiner, MotherSafe Teratology Information Counsellor, Royal Hospital for Women; Clinical Pharmacist, Children's Hospital at Westmead, Sydney, NSW	 Interpret appropriate evidence-based information resources to formulate recommendations for safe medication use in lactation Discuss counselling strategies for use in clinical practice 	3.1.2, 3.2.3, 3.2.5, 3.3.1, 3.3.2, 3.5.2				
Medicines in Neon	Medicines in Neonates						
Neonatal Pharmacology	Dr Kate O'Hara, Deputy Service Manager - Clinical and Cannabis Information Service, John Hunter Hospital, Newcastle, NSW	 Outline key definitions and terminology used in neonatal medicine Describe physiological differences across the fetal/neonatal period and how they influence pharmacokinetics/pharmacodynamics 	3.1.2, 3.2.3, 3.3.1, 3.3.2				
Challenges of medication administration in the neonatal patient	Megan Clark, Pharmacist Team Leader – Maternity & Neonates, Monash Health, Melbourne, Vic	Discuss common challenges as they relate to medication administration in the neonatal period and strategies to overcome them	3.2.1, 3.2.3				



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	Josephine Wen,		
Overview of common conditions and medications used in the neonatal patient	Project Officer and Antimicrobial Stewardship Pharmacist, Royal Melbourne Hospital Guidance Group, National Centre for Antimicrobial Stewardship, Melbourne, Vic	 Identify common conditions observed in neonates Describe the role of commonly used medications in the neonatal setting 	3.1.2, 3.2.3
Guided case study	Megan Clark, Pharmacist Team Leader – Maternity & Neonates, Monash Health, Melbourne, Vic	 Interpret appropriate evidence-based information resources to formulate recommendations for safe medication use in neonatal patients Discuss counselling strategies for use in clinical practice 	3.1.2, 3.2.3, 3.2.5, 3.3.1, 3.3.2, 3.5.2
Practical Skills			
Lessons learned from setting up new obstetric pharmacy service	Megan Clark, Pharmacist Team Leader – Maternity & Neonates, Monash Health, Melbourne, Vic	 Explain how to establish an obstetric pharmacy service 	4.7.6
Opportunities for pharmacists in perinatal medicine	Josephine Wen, Project Officer and Antimicrobial Stewardship Pharmacist, Royal Melbourne Hospital Guidance Group, National Centre for Antimicrobial Stewardship, Melbourne, Vic	 Describe the pharmacist role in optimising medication management during the pregnancy and neonatal period 	1.5.1, 4.6.2
A day in the life of a womens and newborn pharmacist	Josephine Wen, Project Officer and Antimicrobial Stewardship Pharmacist, Royal Melbourne Hospital Guidance Group, National Centre for Antimicrobial Stewardship, Melbourne, Vic	Discuss the role of a womens' and newborn pharmacist in your practice setting	1.5.1, 4.7.6