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Preliminary program

Self-paced learning package: Available from Friday 17 January 2025

Topic and presenters		Learning objectives		
Part 1	Use of laboratory data in clinical practice Professor Jeff Hughes	 Describe laboratory test data used to evaluate the appropriateness of drug therapy Assess therapeutic outcomes and disease progression using laboratory test data Describe laboratory test data used in the assessment and prevention of adverse drug reactions 		
	Sodium Karl Winckel	 Understand the presentation, causes and risks associated with hypo/hypernatraemia Understand management options for hyponatraemia in terms of: Appropriate treatments including cessation of causative drugs Benefits of treatment Risks of treatment or under-treatment 		
	Potassium Karl Winckel	 Understand the presentation, causes and risks associated with common serum potassium disturbances Understand management options for serum potassium in terms of: Appropriate treatments including cessation of causative drugs Benefits of treatment Risks of treatment or under-treatment 		
	Magnesium Professor Jeff Hughes	 Understand the presentation, causes and risks associated with hypomagnesemia Understand management options for hypomagnesemia in terms of: Appropriate treatments including cessation of causative drugs Benefits of treatment Risks of treatment or under-treatment 		



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Acia Pro Ure Bha	id-base balance ofessor Jeff Hughes ea and creatinine avini Patel	•	Describe laboratory test data used to evaluate the appropriateness of drug therapy Assess therapeutic outcomes and disease progression using laboratory test data Describe laboratory test data used in the assessment and prevention of adverse drug reactions Identify people at greatest risk of kidney disease Explain the diagnosis and classification of acute and chronic kidney disease Discuss the advantages and limitations of different markers of
Part 2 Calo Bha	lcium and phosphate avini Patel	•	kidney function Evaluate the normal ranges for calcium and phosphate and their variation within the normal range Describe the measurement and interpretation of these laboratory tests, and the influence of commonly used drug therapy on them Describe the relevance of further laboratory test investigations Describe monitoring requirements for a patient with kidney disease
Live	er function tests ofessor Jeff Hughes	•	Describe laboratory test data used to evaluate the appropriateness of drug therapy Assess therapeutic outcomes and disease progression using laboratory test data Describe laboratory test data used in the assessment and prevention of adverse drug reactions
Tro Kar	oponin and creatinine kinase rl Winckel	•	Understand what troponin and creatinine kinase (CK) are Understand the role and limitations of troponin and CK in the diagnosis and management of acute coronary syndrome (ACS)
Part 3 Coa Kar	agulation lab tests rl Winckel	•	Understand the simplified coagulation cascade Why different coagulation test results are used for different anticoagulants Discuss the limitations of coagulation tests in the clinical use of DOACs



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Haemoglobin, red cells, and iron studies Bhavini Patel	 Explain the relevance and significance of derangements of individual components of full blood count and iron study laboratory tests Distinguish between a picture of iron deficiency anaemia and other types of common anaemia based on laboratory tests
White cells and acute phase reactants Professor Jeff Hughes	 List multiple reasons for elevation and reduction of white cells and acute phase reactants Apply this knowledge of the tests discussed to various clinical situations
Natriuretic peptide Karl Winckel	 Explain the role of natriuretic peptides in the diagnosis and management of heart failure



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Program

Live seminar: Saturday 1 March 2025

All times listed are in AEDT

Time (AEDT)	Session		
0920-0930	Online login available		
0930-0940	Welcome, introduction, housekeeping		
0940-1030	 Perfect partners: why certain lab tests are partnered Describe why certain laboratory tests are partnered Describe the relationship between various laboratory tests Identify laboratory test results that are dependent on others Identify additional laboratory tests that are required to accurately interpret data Apply partnered laboratory test results to clinical scenarios 		
1030-1130	 Case session: Liver function tests Describe laboratory test data used to evaluate the appropriateness of drug therapy Assess therapeutic outcomes and disease progression using laboratory test data Describe laboratory test data used to in the assessment and prevention of adverse drug reactions Apply knowledge of the above to clinical scenarios involving patients with liver impairment 		
1130-1150	BREAK		
1150-1305	 Case session: Kidney disease Use laboratory data to assess the appropriateness of drug therapy for clinical case scenarios Develop management plans, which include monitoring of laboratory data, to assess clinical outcomes 		
1305-1335	Case session: Infectious diseases		
1335-1345	BREAK		
1345-1515	Case session: Myocardial infarction and heart failure		
1515-1530	BREAK		



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1530-1600	 Case session: Coagulation Use laboratory data to assess the appropriateness of drug therapy for clinical case scenarios Develop management plans, which include monitoring of laboratory data, to assess clinical outcomes 	
1600-1615	Summary and close	
1615-1620	Close of live virtual seminar	

Please note: presentation recordings from the live virtual seminar will not be available.