

ALS Provider Course

2015

Course Program

Format/Content	Time	Module	Objectives
Day 1			
Faculty meeting/ registration	30 min		
Mentor/ mentee	15 min		 Introduction to candidates
Introduction	15 min		Course objectives
			 Faculty
			• candidates
WS: BLS and defibrillation	45 - 60	Module BLS	Confirmation cardiac arrest
	min		Delivery of high quality chest
			compressions
			Recognition of need for
			defibrillation
			Safe defibrillation with minimum
			interruption to chest
			compressions
			 Module might be placed after
			"The deteriorating patient"
WS: The deteriorating patient	6o min	Module ILS	ABCDE approach to a
			deteriorating patient in case-
			based discussions
			Identification and treatment of
			life-threatening problems as they
			are found
			Call for help / escalate / refer to
			specialist
Facultative module:	45 - 60		Indications for ECG monitoring
WS: RR and 12-lead ECG	min		Effective ECG monitoring
			Basic physiology of the ECG
			6-stage approach to rhythm
			recognition
			Recognition of the common 12-
			lead ECG patterns of acute
WS: Ainway and in access	/F 60		myocardial infarction • Principles of establishing and
WS: Airway and i.o. access	45 - 60 min		The second secon
			maintaining a patent airway • Provision of adequate ventilation
			Provision of adequate ventilationIndications for insertion of
			intraosseous (i.o.) access
			• Insertion of an i.o. device
			insertion of an i.o. device



Lecture: ALS algorithm (demo practice for remaining faculty)	30 min		Introduction ALS algorithm Practice for Demo
Demo: CAS including Team factors	20 - 30 min		Introduction of the concept of cardiac arrest simulation training Demonstration of team work and leadership in managing a cardiac arrest Demonstration of cardiac arrest recognition and management
CASTeach 1 (VF, pVT)	30 – 45 min		Application of current guidelines and the skills taught in the workshops / skill stations into the practical management of the patient in cardiac arrest Development of the candidates' skills, attitudes and knowledge required to function as a member of a resuscitation team Development of the candidates' skills, attitudes and knowledge required to lead a resuscitation team
CASTeach 2 (Asystole, PEA)	30 min		
CASTeach 3 (Decision making)	45 min		Treatment of the post cardiac arrest syndrome Transfer of the patient Assessing prognosis after cardiac arrest
CASTeach 4 (Post Resus Care)	30 - 45 min		Considerations involved in the decision to stop a resuscitation attempt Implications of DNAR orders and advanced directives Ethical and legal implications in regard to resuscitation Involvement of relatives
Course dinner		•	Mentoring Feedback



Day 2	Time	Module	Objectives
Faculty meeting	30 min if		Preparation Faculty
Registration/ ALS Video	needed		Rehersal candidates
Mentor groups	15 min		Mentoring
			 Feedback
			 Introduction if standalone
			module
WS: BLS, manual defibrillation	30 min	Module ALS	Mandatory standalone module
CASTeach 5 (Non-Technical	45 min		Rehearsal
skills)			• TEAM
			Situational Awareness
			Decision making
			• Leadership
			 Teamwork and interprofessional
			skills
			Communication
			Team membership
WS: Bradycardia, Pacing	30 - 45		Recognition of bradycardia and
	min		differentiation between the
			different degrees of heart block
			Principles of bradycardia
			management
			Indications for cardiac pacing
			Different methods for cardiac
			pacing
			Safe and effective application of
			non-invasive, transcutaneous
			electrical pacing
WS: Tachycardia, Cardioversion	30 - 45		Recognition of types of
	min		tachycardia, defined by
			regularity and QRS width
			Principles of tachycardia
			management
			 Indications for electrical and
			pharmacological cardioversion
			Safe and effective synchronised
			cardioversion
WS: ABG, Capnography	45 min		Normal ranges for arterial blood
			gas values
			5-step approach to arterial blood
			gas interpretation
			Some of the common causes of
			arterial blood gas abnormalities
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			and what to do to correct them The basic physiology of carbon dioxide (CO ₂) and the normal concentration in blood and expired air The terminology associated with CO ₂ monitoring The systems used to monitor end tidal CO ₂ The structure of a normal capnography waveform The role of waveform capnography during CPR
WS: Special circumstances (3 modules)	90 min	•	6 scenarios according to local setting
CASTeach 6 (bringing it all together)	60 + min	•	Per arrest management Team factors Preparation for assessments
CASTest	60 min	•	Recognition and intervention in the management of a simulated patient at risk of cardiac arrest Leading a team in the resuscitation of a simulated patient in cardiac arrest Demonstrating knowledge and application of current resuscitation guidelines Demonstrating an understanding of the importance of postresuscitation care and stabilisation following a return of spontaneous circulation
MCQ	60 min		