

## **Core Competencies for Emergency Cardiac Care**

All nurses must be competent in all aspects of BLS (CPR and use of automatic external defibrillator [AED])

Additional competencies for emergency cardiac care are listed in the following table. These require additional education and regular practice.

Current ACLS or PALS certification is strongly encouraged; maintaining these skills requires regular, monitored practice.

The relationship of each competency to the Emergency Cardiac Care Decision Support Tools is indicated in the table. See: <u>https://www.heartcentre.ca/professionals/decision-support-tools</u> for Decision Support Tools.



DST	Knowledge	Skill	Judgement or Reasoning	Facilitating Attributes	
	Assessment				
1, 2	Normal airway anatomy and function, normal breathing and circulation patterns Abnormal airway, breathing and circulation patterns and causes	Assessing airway patency, respiratory difficulty, presence and quality of pulse, capillary refill and level of consciousness, vital signs including SpO <sub>2</sub>	Determining change from patient's baseline, if possible Considering possible factors contributing to abnormal findings Determining adequacy of blood pressure/oxygenation		
2	Normal cardiac rhythm	Recognizing normal sinus rhythm			
2, 3*	Cardiac arrhythmias	Systematic ECG rhythm interpretation         • ventricular fibrillation         • asystole         • ventricular tachycardia         • supraventricular tachycardia         • bradycardia         • A-V blocks         • Bundle branch block (intraventricular conduction delay)         • paced rhythm         • ST deviation         • Recognizing life-threatening rhythms         • Establishing and maintaining reliable cardiac monitoring			

\* competency in cardiac monitoring not required for many components of DST 3



1, 2	<ul> <li>Hemodynamic effects of life- threatening arrhythmias:</li> <li>ventricular fibrillation</li> <li>asystole/PEA</li> <li>ventricular tachycardia</li> <li>supraventricular tachycardia</li> <li>bradycardia</li> <li>A-V blocks</li> </ul>	Physical assessment Initiating manual defibrillation	Integrating physical findings with ECG findings	
2	ACLS algorithms	See several associated skills, below		
	Potential sex/gender- or ethnicity-			Openness and
	based differences in symptoms and			inquisitiveness re:
	response to illness			all symptoms



DST	Knowledge	Skill	Judgement or Reasoning	Facilitating Attributes
	Organisation, C	oordination and Provision of Care in	<b>Emergent Situations</b>	
1, 2, 3		oning acquired through Basic Life Support e		
1, 2	Principles of effective CPR Factors contributing to high-quality CPR	Delivery of high-quality CPR	Evaluation of CPR quality	
1, 2	Effect of inadequate oxygenation and ventilation (due to respiratory compromise) on other organs	Recognition of respiratory distress, failure or arrest, and inability to protect airway	Selection of appropriate airway adjuncts	
1		Administration of oxygen, use of bi-valve mask as needed		
2		Use of nasal/oral airways		
2		Safe and correct placement of supraglottic airway device (e.g. i-gel <sup>®</sup> , Combitube, King <sup>®</sup> )		
1	Mechanisms of defibrillation	Initiation and operation of AED	Recognition of signs of life	
1	Hazards of defibrillation			
2	Mechanisms of defibrillation	Safe operation of manual defibrillator (depending on equipment available)	Evaluating effectiveness of CPR; evaluating effectiveness of defibrillation	Commitment to ongoing professional
2	Hazards of defibrillation		Recognizing return of spontaneous circulation	development Self-awareness re: own learning needs
1	Principles of IV therapy	Monitoring IV access	Evaluating patency of IV	



DST	Knowledge	Skill	Judgement or Reasoning	Facilitating Attributes
2	Detected as filler and the	Fatablishi a N/ a saas	0	Allibules
2	Principles of IV insertion	Establishing IV access	Assessing fluid balance	
2	Principles of intraosseous access and	Establishing and monitoring	Evaluating for effective	
	insertion	intraosseous access	placement and intervening	
	Mechanisms of action and side	Safe administration and monitoring of	Evaluating effects of	Commitment to
	effects of selected medications:	selected medications:	medications	ongoing
2	epinephrine	epinephrine		professional
2	lidocaine	lidocaine		development
2	amiodarone	amiodarone		
2	atropine	atropine		Self-awareness re:
3	aspirin	aspirin		own learning needs
3	nitroglycerin	nitroglycerin		
1, 2, 3	Infection prevention and control	Conduct point-of-care risk assessment	Selection of appropriate PPE	



DST	Knowledge	Skill	Judgement or Reasoning	Facilitating Attributes	
	Communication and Documentation				
1, 2, 3	Agency documentation tools and policies	Accurate, concise and timely documentation			
	Principles of therapeutic communication	Establishment of therapeutic relationship with family or significant others in a very short time frame, during a crisis situation	Evaluating family's response to crisis and need for further intervention Involving family in decisions as much as possible		
1, 2, 3	Principles of trauma- informed/culturally safe care Theories of coping and responses to crisis	Promoting family presence as soon as possible	Respecting patient's and family's cultural and spiritual beliefs and practices related to illness, crisis and death	Commitment to cultural safety, respect and inclusion	
	Theories of grief and grieving		Evaluating need for further intervention/support for family	Commitment to patient- and family- centred care	
1, 2, 3	Theories of coping and responses to crisis	Effective communication with colleagues during an emergency situation Healthcare team debriefing	Evaluating crisis event including team roles, responsibilities, and functioning	Commitment to no-blame safety culture Commitment to healthcare improvement	