

**Northwest Community EMS System
Entrance Exam Blueprint – CARDIAC
2016 SOPs, policies, procedures**

Topics	# items
Rhythm strips to be identified	
SB or Junctional	1
Sinus or Atrial tach or SVT	1
Atrial fibrillation or flutter	1
AVB blocks: 1 st , 2 nd or 3 rd degree	1
VT or Torsades	1
VF	1
Idioventricular or accelerated idioventricular rhythm	1
PVCs v. PACs or PJs	1
Acute Coronary Syndromes	
Causes, characteristic presentation of angina vs AMI, typical and atypical S&S of cardiac ischemia	2
12-lead ECG: Indications; skin prep, lead placement, timing, interpreting the tracing, call to OLMC	5
IMC considerations in ACS – oxygen to be given or withheld; route and amount	1
Aspirin: Action, indications, contraindications, dose	2
Nitroglycerin: Indications for ACS, contraindications, actions, dose, side effects	2
Fentanyl: Indications, contraindications, dose, side effects	2
Bradycardia with a pulse	
Stable bradycardia treatment	1
Pacing: Indications, how to sense native rhythm, fixed or demand, mA settings, electrical/mechanical capture; sedation/pain management	2
Atropine: action, indication, contraindications, dose, or side effects	2
Norepinephrine: action, indication, special precautions, dose, monitoring	2
Glucagon: action, dose, side effects	1
Supraventricular tachycardia	
Vagal maneuvers	1
Adenosine: Indications, administration precautions, dose, side effects	2
Verapamil indications, classification, dose, side effects	2
Synchronized cardioversion	1
Ventricular tachycardia with a pulse	
Amiodarone: Indications, dose (VT), side effects	2
Magnesium sulfate: Indications, dose, side effects	2
Need for drugs vs. synchronized cardioversion vs defibrillation	1
Ventricular fibrillation	
Initiating BLS; location and sequencing of resuscitation (pit crew approach)	2
CPR: Compression rates w/ ResQPod/interruption time; changing compressors; CPR feedback; ETCO2	3
Defibrillation: Joule settings, process/timing; pad placement; Rx of refractory VF	3
Airway mgt in a cardiac arrest (apneic oxygenation, BLS airways, timing of advanced airways)	2
Epinephrine: Indications, action, dose, timing, routes	2
Amiodarone: Indications, action, initial/repeat dose in VF	2
Sodium bicarbonate indications/dose in cardiac arrest	1

Topics	# items
ROSC: Recognition, monitoring pulse, interventions to support BP	2
Treatment of patient with ICD, LifeVest, or LVAD	3
Pulseless electrical activity	
Interventions based on Hs and Ts	1
Asystole	
Use of vasopressors	1
Terminating resuscitation in the field	2
Heart failure/Pulmonary edema	
Pulmonary Edema: Pathophysiology/assessment	1
Use of C-PAP: Indications, settings, contraindications, procedure; side effects	3
Differentiating cardiac from respiratory causes of wheezing using ETCO ₂ ; history	1
Nitroglycerin in pulmonary edema: indications, contraindications, action, dose, timing	2
Cardiogenic shock: pathophysiology; clinical presentation	1
Norepinephrine: Indications, action, dose, side effects	2
TOTAL number of questions	75