

**Northwest Community EMS System
Entrance Exam Blueprint – CARDIAC
2019 SOPs, policies, procedures**

Topics	# items
Rhythm strips to be identified as used in scenarios	
SB; Junctional	Embedded
Sinus or Atrial tach; SVT	“
Atrial fibrillation; flutter	“
AVB blocks: 2 nd and 3 rd degree	“
VT; Torsades	“
VF	“
Idioventricular or accelerated idioventricular rhythm	“
Ectopic beats	“
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 (including VR4), timing (initial and repeat tracings), interpreting the tracing to identify ischemia or infarction, STEMI alert call to OLMC	4
IMC considerations in ACS – oxygen to be given or withheld; route and amount	1
Aspirin: Action, indications, contraindications, dose	1
Nitroglycerin: Indications for ACS, contraindications, actions, dose, side effects	1
Pain mgt using fentanyl or ketamine: Indications, contraindications, dose, side effects	1
Bradycardia with a pulse	
Stable bradycardia treatment sequencing based on HR, BP and vascular access status	1
Pacing: Indications, how to sense native rhythm, fixed or demand, mA settings, electrical/mechanical capture; sedation/pain management	1
Atropine: action, indication, contraindications, dose, or side effects	1
Norepinephrine: action, indication, special precautions, dose, monitoring	2
Glucagon: indication, 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: indications, timing	1
Ventricular tachycardia with a pulse	
Amiodarone: Indications, dose (VT), side effects	1
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)	1
CPR: Compression rates w/ ResQPod; acceptable pauses; changing compressors; using real-time CPR feedback devices; deployment of a CPR device	1
BLS airways; use of ApOx; early use of ETCO ₂ ; ResQPod	1
Defibrillation: immediate or delayed; joule settings, pad placement; Rx of refractory VF	2
Timing and use of advanced airways	2
Epinephrine: Indications, action, dose, timing, routes	2

Topics	# items
Amiodarone: Indications, action, initial/repeat dose in VF	2
Sodium bicarbonate indications/dose in cardiac arrest	1
ROSC: Recognition, monitoring pulse and SpO2 pleth, 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	
Termination of resuscitation (TOR) 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	1
Cardiogenic shock: pathophysiology; clinical presentation	1
Norepinephrine: Indications, action, dose, side effects	2
TOTAL number of questions	75