

Northwest Community EMS System
EMERGENCY COMMUNICATIONS REGISTERED NURSE (ECRN) COURSE
March 18 – May 13, 2020

Date	Time	Topic
March 18, 2020 Room LC 1	9:00 – 9:30 am	Introduction/Welcome! C. Mattera
	9:30 am – 12:00 pm	Respiratory A&P; SpO ₂ & ETCO ₂ C. Mattera
	12:00 - 1:00 pm	Lunch
	1:00 - 5:00 pm	Fluids & electrolytes V. Logan
March 25, 2020 Room LC 1	9:00 am - 12:00 pm	Pathophysiology of shock (all forms) C. Mattera
	12:00 - 1:00 pm	Lunch
	1:00 – 5:00 pm	Electrophysiology & ECG interpretation (baseline assessment) C. Mattera Distribute take home Quiz #1
April 1, 2020 Room LC 1	9:00 am -12:00 pm	Quiz 1 due C. Mattera EMS Systems: Structure/Standards SOPs; Policy manual; Procedure manual, Code of Ethics Role expectation of an ECRN
	12:00 - 1:00 pm	Lunch
	1:00 - 5:00 pm	EMS Systems cont.: Communications/Documentation Policies: EMS Communications; Documentation of EMS Communications Log ECRN Physician Back-up Confidentiality of Patient Records/HIPAA Procedure for Handling Overrides Abandonment vs. Prudent Use of EMS Personnel Aeromedical transport; Bypass; Crisis Response Refusals; Physician/Nurse On-Scene
April 8, 2020 Room LC 1	9:00 am - 12:00 pm	SOP Intro: Patient Assess/Initial Medical Care Drugs: ondansetron; fentanyl; alternate drugs Policies: Scopes of practice; Initiation of ALS vs. BLS Care Selection of Receiving Hospital Withholding or Withdrawing Resuscitative Efforts; DNR; Triple Zero Medical Examiner/Coroner Guidelines Obese patients; Elderly patients
	12:00 - 1:00 pm	Lunch
	1:00 - 5:00 pm	EMS Airway access procedures: Suction; Oral/nasal airways; King Vision intubation ; i-gel extraglottic airway Drugs: etomidate, ketamine, midazolam Cricothyrotomy options Oxygen delivery devices: NC, NRM, BVM, C-PAP Care of patients with tracheotomies Vascular access (IV/IO)and fluid administration options; use of MAD device Distribute take home Quiz #2
April 15, 2020 Room LC 1	9:00 - 10:30 am	Quiz #2 due NEED HELP all day! Acute and chronic respiratory disorders simulated calls SOPs: Airway obstruction Allergic reaction / Anaphylactic shock Asthma/COPD with respiratory distress Drugs: diphenhydramine; albuterol, ipratropium, epinephrine 1mg/1mL; 1mg/10mL, magnesium sulfate Procedure: CPAP
	10:30 am - 12:00 pm	Acute Coronary Syndromes – Simulated calls Drugs: NTG, ASA; norepinephrine SOPs: Cardiac ischemia; HF/PE/Cardiogenic shock
	12:00 - 1:00 pm	Lunch

Date	Time	Topic
	1:00 – 5:00 pm	Bradycardia with a pulse: SV/AVB/IVR Drugs: atropine, norepinephrine, glucagon Procedure: Transcutaneous pacing Supraventricular Tachycardia: Narrow QRS complex tachycardia Drugs: adenosine, verapamil Procedure: Vagal maneuvers/synchronized cardioversion Ventricular rhythms: VT, VF, Asystole Drugs: epinephrine 1mg/10mL, amiodarone, NaHCO ₃ Procedure: Pit crew cardiac arrest management; defibrillation SOPS: VT w/ pulse; VF/VT w/o pulse; Asystole/ PEA Policy: Terminating resuscitation in persistent asystole Guided study: cardiac calls; cardiac arrest management
April 22, 2020 Room LC 1	9:00 am – 12:00 pm 1200-1300 Lunch 1300-1700	ALL MEDICAL SOPS C. Mattera Acute Abdominal Pain Dialysis/Chronic Renal Failure Altered Mental Status/Syncope Alcoholism/Alcohol Intoxication Procedure: capillary glucose testing Drugs: dextrose 10%, naloxone Diabetic/Glucose Emergencies: hypoglycemia; hyperglycemia; DKA, HHNS Drug Overdoses/Poisonings: naloxone, ketamine, midazolam; atropine CO poisoning; transport options to LGH Cyanide poisoning: hydroxocobalamin Cold/Submersion/Water-related/Heat Emergencies Hypertension emergencies Psychological Emergencies Policy: Petitioning an emotionally ill patient; Impaired practice Procedure: Use of restraints Generalized seizures Stroke: quick stroke screen; decision tree for transport Distribute take home Quiz #3
April 29, 2020 Room LC 1	9:00 am- 12:00 pm 12:00 – 1:00 pm 1:00 pm – 5 pm	Quiz #3 due TRAUMA SOPS C. Mattera (AM) Initial Trauma Care Procedures: Vasc. access, IVF volumes; hemorrhage control; pelvic splinting; RTS; Helicopter Transport Guidelines Calling surgeon to the scene Hypovolemic shock Traumatic arrest Head Trauma Spine trauma: selective spine motion restriction guidelines Lunch Chest/Abdominal trauma Need HELP in pm Procedure: needle pleural decompression; open pneumothorax vented drsg Eye/Facial trauma Drug: Tetracaine Procedure: eye irrigation; protective shields; preserving teeth Musculoskeletal trauma; crush, compartment, suspension syndromes Drugs: fentanyl, midazolam; sodium bicarbonate Procedure: positioning, splinting/bandaging Burns/Radiation Injuries; calcium gluconate gel Multiple patient incidents; Small, medium, large scale events Emergency preparedness: Plans; triage process/cards; use of Duodote kits Abuse/Interpersonal Violence/Nonaccidental trauma Distribute take home Quiz #4

Date	Time	Topic
May 6, 2020 Room LC 1	9:00 am - 12:00 pm	Quiz #4 due C. Mattera Emergency childbirth Normal delivery procedure Healthy newborn and postpartum care OB/delivery complications Perivable births; newborn resuscitation Trauma in pregnancy
	12:00 - 1:00 pm	Lunch
	1:00 - 5:00 pm	Pediatric Protocol IMC; Calculating peds drug doses; Children w/ special needs Peds Advanced airway; Peds Airway Obstruction Peds Respiratory arrest Peds Allergic Reaction/Anaphylactic shock Peds Asthma; croup; epiglottitis; RSV/Bronchiolitis SIDS; BRUE Peds Cardiac dysrhythmias Peds Glucose emergencies Peds Drug OD Peds Seizures Peds ITC Policy: Refusal of service in minors
May 13, 2020 Room LC 1	9:00-am - 12:00 pm	FINAL Written exam; ECG strip test C. Mattera

Practical Testing at student's own hospital