

NWC EMSS Paramedic Program Seminar Schedule – Spring 2015

Review previous class handouts **in advance** – these days will include rapid-fire white board reviews; Jeopardy games; pharmacology/SOP tests; and student-led case study discussions.

Anticipate these topics being fair game for the final written and National Registry exams.

MUST ATTEND ONE OF THE TWO DAYS each week for the FIRST 4 WEEKS, then ALL DAYS June 8-12

Do not schedule anything that would take you out of class June 8-12 from 9 to 5; no excused absences during these days

Dates	Times	Topics
May 13 or 14 (Wed or Thurs)	0900 – 1200 1200 – 1300 1300 - 1700	<p>EMS Preparatory</p> <ul style="list-style-type: none"> • EMS Systems & professional responsibilities; role in continuum of care; scopes of practice • Research; CQI; data analysis • Workforce safety and wellness/health promotion; stress management • Documentation • EMS Communications • Therapeutic communication • Medical/legal aspects of EMS; HIPAA • Values and ethical principles in EMS • Public health issues in EMS; patient safety issues <p>General Principles of pathophysiology</p> <ul style="list-style-type: none"> • Fluids and electrolytes; acid base imbalances • Shock pathophysiology <p>Patient assessment: Bring a call with abnormal assessment findings to discuss</p> <p>Medications: Fentanyl and ondansetron</p> <p>Lunch Lab: Patient assessment</p>
May 20 or 21 (Wed or Thurs)	0900 -1200 1200 – 1300 1300 - 1700	<p>Airway mgt / Respiratory SOPs: Airway obstruction, DAI, Tracheostomy, Allergic reaction/Anaphylactic shock; Asthma/COPD</p> <p>Respiratory diseases: Acute upper airway infections, spontaneous pneumothorax, COPD, asthma, pulmonary embolism, neoplasms, pertussis, cystic fibrosis, hyperventilation, ARDS</p> <p>Medications: benzocaine, lidocaine, midazolam, diazepam, etomidate, ketamine, diphenhydramine, epinephrine 1:1,000 & 1:10,000, albuterol/ipratropium, magnesium</p> <p>Bring Respiratory calls to discuss</p> <p>Lunch</p> <p>Lab</p> <p>Skills: Intubation all forms; cricothyrotomy; O₂ delivery devices Patient assessment</p>
May 27 or 28 (Wed or Thurs)	0900 -1200 1200 - 1300 1300 - 1700	<p>Cardiac SOPs: ACS and STEMI alerts; Bradycardia with a pulse, Narrow QRS complex tachycardias, Wide QRS tachycardia with a pulse, VF, Asystole/PEA, -cardiac arrest management; LVADS, HF/Cardiogenic shock</p> <p>Medications: ASA, NTG, atropine, dopamine, adenocard, verapamil, amiodarone, vasopressin, sodium bicarbonate, furosemide</p> <p>ECG rhythm & 12 L ECG interpretation</p> <p>Bring Cardiac calls to discuss</p> <p>Lunch</p> <p>Lab:</p> <p>Skills: Pacing, synchronized cardioversion; defibrillation; cardiac arrest mgt Patient assessment</p>
June 3 or 4 (Wed or Thurs)	0900 -1200	<p>Medical SOPs plus:</p> <p>Immunology: Hypersensitivity reactions, collagen vascular diseases, transplant-related problems</p>

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	1200-1300 1300-1700	<p>Neuro disorders: MS, Seizures, Stroke, H/A; dementia, neoplasms, demyelinating disorders, Parkinson’s disease, cranial nerve disorders, movement disorders, infections, hydrocephalus</p> <p>Abdominal & GI disorders: Upper & lower GI bleeding, Live diseases, infectious diseases, Ulcerative disorders, Irritable bowel syndrome, Inflammatory bowel disease, Diverticulitis, Intussusception, Bowel obstruction, Hernias, Rectal FB obstruction, Mesenteric ischemia</p> <p>Infectious diseases: HIV/AIDS, Hepatitis, Pneumonia, Meningitis, Tuberculosis, Tetanus, Viral illnesses, STDs, Gastroenteritis, Fungal infections, Rabies, cabbies/Lice, Lyme’s Disease, Antibiotic resistant infections, MERS</p> <p>Endocrine disorders: Pancreas disorders/Diabetic emergencies; thyroid disorders, adrenal disorders</p> <p>Environmental disorders: Submersion & water-related emergencies; temperature-related emergencies; bites and envenomations, high-altitude emergencies</p> <p>Genitourinary / Renal: Acute and chronic renal failure, dialysis, kidney stones, UTIs, structural conditions (testicular torsion)</p> <p>Hematology: Coagulation defects, sickle cell disease, hematological conditions (DIC),</p> <p>Psychiatric disorders: Acute psychosis, agitated delirium, cognitive disorders, mood and thought disorder, substance-related disorders and addictive behavior, somatoform disorders, factitious disorders, personality disorders, patterns of violence/abuse/neglect, organic psychosis, suicide</p> <p>Toxicology: Cholinergics, anti-cholinergics, sympathomimetics, sedatives/hypnotics, opiates, narcotics, and alcohol, huffing agents, household poisons, OTC and prescriptions meds, carbon dioxide, illegal drugs, herbal preparations</p> <p>Medications:: Dextrose 10%, glucagon, naloxone, amyl nitrite, hydroxocobalamin, nitrous oxide</p> <p>Bring Medical calls to discuss</p> <p>Lunch</p> <p>Lab: Skills: Patient assessment</p>
<p>Monday June 8 Return to full time all week</p>	0900 – 1700	<p>Trauma SOPs plus</p> <p>Kinematics: Blunt and penetrating forces that produce trauma; blast injuries</p> <p>Head, facial, ocular, neck & spine trauma: Head/TBI assessment & mgt, skull fractures, facial fractures, orbital fractures; concussions, cerebral contusions, cerebral hematomas, eye emergencies, perforated tympanic membrane, penetrating neck trauma, laryngotracheal injuries, spine trauma assessment & new splinting guidelines, spinal shock; neurogenic shock</p> <p>Chest trauma: Aortic disruption, pulmonary contusion, blunt cardiac injury, hemothorax, pneumothorax (simple, tension, open), cardiac tamponade, flail chest, Commotio cordis, diaphragmatic rupture, traumatic asphyxia</p> <p>GI/GU trauma: Solid vs. hollow organ injury, blunt vs. penetrating trauma, eviscerations, retroperitoneal injuries, injuries to the external genitalia</p> <p>Musculoskeletal trauma: sprains, strains, fractures, dislocation, suspension trauma, compartment syndrome, crush syndrome, amputations, high pressure injection</p> <p>Burns: Thermal, inhalation, chemical, electrical</p> <p>Medication: Tetracaine</p> <p>Bring Trauma calls to discuss</p>

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Tuesday June 9	0900 – 1200	<p>OB SOPs: Childbirth, Newborn/postpartum care, Delivery complications, Newborn resuscitation, OB complications</p> <p>Pregnant patients/obstetrics: Normal delivery, abnormal delivery, spontaneous abortion, ectopic pregnancy, pre-eclampsia/Eclampsia; pregnancy-induced hypertension, placenta previa, abruptio placenta; prolapsed cord, breech presentation, post-partum hemorrhage; prolapsed uterus</p> <p>Gynecology: Vaginal bleeding, sexual assault, infections, ovarian cysts</p> <p>Newborn care: Assessment/APGAR scoring; normal newborn care; resuscitation; heel stick glucose readings</p> <p>PEDS SOPs IMC, Special healthcare needs, respiratory arrest, SIDS, Allergic rxn, asthma, croup/epiglottitis, Bradycardia, Narrow QRS tachycardia, Wide QRS Tachycardia, VF, Asystole /PEA, AMS, Diabetic emergencies, OD, CO & Cyanide poisoning, Seizures, ITC, Child abuse.</p> <p>Pediatrics: Assessment, anatomical differences, FB airway obstruction, bacterial tracheitis, asthma, bronchiolitis, croup, epiglottitis, respiratory distress/failure, seizures, SIDS, glucose emergencies, pertussis, cystic fibrosis, congenital heart disease, hydrocephalus and ventricular shunts; destination facilities: EDAPs</p> <p>Medications: Peds drug dosing</p> <p>Bring OB and Peds runs to discuss</p>
	1200-1300	Lunch
	1300-1700	Lab: Patient assessment; trauma skills: needle pleural decompression, wound mgt, splinting, bandaging, Rx of hyperkalemia
Wed June 10	0900 – 1200	<p>Chronic care; patients with special needs; DNR/POLST</p> <p>Elderly: Physiologic changes of aging, assessment findings in the elderly, caring for elderly patients</p> <p>EMS Operations: Safely operating a ground ambulance; MPI (Start/JUMPstart triage/SMART tags); medical group roles; air medical risks/advantages; hazardous materials responses</p>
	1200-1300	Lunch
	1300-1700	Final Practical Practice
Thurs June 11	0900 – 1430	Final Practical Exam: Will test all stations of the NR practical exam
Fri June 12	0900 - 1200	Final Written Exam (to include an ECG strip test)
	1200	Celebration lunch
	1230 – 1300	Exam review and next steps
June 15 & 16	0900 - 1600	Evaluations: Prescheduled by students
Wed June 17	1900 - 2100	<p>Graduation in the auditorium:</p> <p>All are expected to attend graduation whether done with the Field Internship or not. It's a time to recognize you for all your hard work! Please ask your primary preceptor(s) to attend with you. Family members and friends are welcome (3-4 per student).</p>