Emergency Medicine Mentorship Program (EMMP)

SKILLS LIST

1. History and Physical Examination:
   a. Obtain accurate/appropriate history
   b. Perform a complete physical examination of patient
   c. Develop problem lists with differentials
   d. Prepare an appropriate estimate
   e. Demonstrate clear client communication.

2. Cardiovascular/Fluid Therapy
   a. Perform and interpret laboratory tests including serum lactate and venous blood gas
   b. Assess fluid balance
   c. Perform and interpret ECG
   d. Perform indirect blood pressure measurement and interpretation (doppler, oscillometric)
   e. Perform POCUS (point of care ultrasound)

3. Medical procedures
   a. Perform placement of IVC at various sites (including small and “shocky” patients)
   b. Perform pericardiocentesis
   c. Demonstrate techniques to control bleeding

4. Therapy
   a. Fluid therapy
      i. Perform administration of crystalloids for
         1. Hypovolemia
         2. Deficit replacement
         3. Maintenance
         4. Diuresis
         5. Electrolyte and acid/base disorders
      ii. Perform administration of colloids for
          1. Hypovolemia
          2. Maintenance
b. Perform and demonstrate understanding of appropriate use of antiarrhythmics

c. Treatment of CHF

d. Treatment of severe hypertension

e. Understanding of the treatment of ATE

f. Calculate CRI (including pressors, opioids and antiarrhythmics)

5. **CPCR**

a. Perform endotracheal intubation

b. Perform manual positive pressure ventilation

c. Perform closed chest compressions

d. Assess compression efficacy (digital pulse pressure, doppler, ETCO2)

e. Perform administration of drugs for resuscitation- IV, IO and intratracheal

6. **Metabolic/Acid base/Electrolytes**

a. Be able to determine indications for diagnostic tests

b. Interpret venous blood gas (+/- arterial blood gas)

c. Calculate osmolality

d. Perform therapy to correct acid base derangements

e. Perform therapy to correct electrolyte derangements

7. **Gastrointestinal/Hepatic/Abdominal**

a. Interpret bice acid concentrations

b. Interpret abdominal radiographs

c. POCUS examination

d. Perform abdominocentesis, evaluate fluid in house

e. Understand diagnostic peritoneal lavage/drainage

f. Perform appropriate use of antiemetics and gastric protectants

g. Perform appropriate use of emetics

h. Demonstrate the technique to manage traumatic and non-traumatic hemoabdomen

i. Perform gastric decompression (case dependent)

j. Assist with GI fb surgery (case/time dependent)

8. **Respiratory**

a. Perform physical exam and assessment of patient in respiratory distress

b. Interpret pulse ox

c. Interpret thoracic radiographs

d. Interpret capnography

e. Understand indications for high flow O2 or mechanical ventilation

f. Perform thoracocentesis

g. Understand procedure for endotracheal wash

h. O2 support- O2 cage, mask, flow by, nasal prongs

i. Understand placement of chest tubes

j. Understand placement of tracheostomy with temp trach placement
9. Urinary
   a. Urine output measurement and calculate fluid balance
   b. Interpretation of UA
   c. UPC
   d. Interpretation of cystourethrogram
   e. Interpretation of urine culture
   f. Perform cystocentesis
   g. Perform treatment of acute renal failure
   h. Urinary catheterization of obstructed canine and feline

10. Reproduction and neonatology
    a. Be able to diagnose and manage
       i. Pyometra
       ii. Dystocia
       iii. Eclampsia
       iv. Paraphimosis
       v. Vaginal/uterine prolapse
       vi. Neonatal resuscitation

11. Ophthalmology
    a. Perform IOP
    b. Perform fluorescein stain
    c. Perform SST
    d. Retinal examination
    e. Understand management of acute glaucoma
    f. Understand treatment of proptosed globe (+/- perform proptosis procedure)
    g. Management of acute anterior uveitis
    h. Treatment of corneal ulcer
    i. Understand placement of temporary tarsorrhaphy

12. Endocrine
    a. Demonstrate management of DKA
    b. Demonstrate management of Addisonian crisis
    c. Demonstrate management of hypoglycemia

13. Musculoskeletal
    a. Understand technique to stabilize fractures
    b. Understand wound care/laceration repair
    c. Understand how to reduce/stabilize hip luxation
    d. Demonstrate application of
       i. Metasplint
       ii. Spica bandage
       iii. Lateral splint
       iv. Modified Robert jones
       v. Went to dry bandage
       vi. Non adherent bandage
14. Oncology
   a. Stabilization/treatment of chemotherapy side effects, leukopenia

15. Environmental
   a. Management of heatstroke
   b. Management of hypothermia
   c. Management of smoke inhalation
   d. Management of burns
   e. Understand management of drowning or near drowning

16. Toxicology
   a. Management of acute intoxications
   b. Administration of activated charcoal
   c. Selection and use of appropriate antidotes or specific therapies

17. Hematology/coagulation
   a. Interpretation of following tests
      i. CBC
      ii. Slide agglutination
      iii. Coagulation profiles
      iv. Blood typing
      v. Cross match
   b. Procedures
      i. BMBT
      ii. Select appropriate transfusion products
      iii. Understand/order blood product administration and understand monitoring for and identifying transfusion reactions
      iv. Understand autotransfusion
   c. Understand management of following conditions
      i. IMHA
      ii. ITP
      iii. DIC
      iv. Severe coagulopathy
      v. Hypercoagulability
      vi. Severe neutropenia

18. Nutrition
   a. Placement of an NG tube
   b. Understand placement of an E tube
   c. Understand indications for G tube and J tube
19. **Anesthesia/analgesia**
   a. Perform pain assessment
   b. Develop anesthetic protocol for critical and non-critical patients
   c. Understand indication/perform local blocks

20. **Infectious/inflammatory**
   a. Interpretation of cultures
   b. Understand spectrum, indications, contraindications, and adverse effects of antimicrobials
   c. Interpret serologic testing (4dx, parvo test)
   d. Understand diagnosis of septic shock. SIRS, MODS and MOF

21. **Neurologic**
   a. Perform complete neurologic exam
   b. Management of status epilepticus and refractory seizures
   c. Management of head trauma
   d. Diagnosis and management of hepatic encephalopathy