ER management for <u>hemodynamically unstable</u> patients (hypovolemic shock, tissue hypoxia)

Resuscitate with 4 lines:

- 2 large-bore 16-gauge IV lines one for fluid bolus injection (Normal Saline, or Ringer's Lactate)
 - If patient is <u>acidotic</u> (i.e. after excessive diarrhea and bicarbonate loss), give <u>Ringer's lactate</u> (lactate is metabolized to bicarbonate in the blood)
 - If patient is <u>alkalotic</u> (i.e. after excessive vomiting and H+/Cl- loss), give <u>Normal Saline</u> (to replenish lost Cl-)
- 3rd line nasal prongs, feed them oxygen to prevent hypoxia.
- 4th line foley catheter in urethra, monitor urine output
 - (easiest way to assess recovery of hemodynamic stability)

Draw blood for basic lab tests, consider basic investigations:

- If cardiac/respiratory issue:
 - ABGs pH, pCO2, pO2, HCO3- (call respiratory tech)
 - CXR (portable), ECG 12-lead STAT
- If losing blood:
 - Hematocrit, WBC count/diff, plt count CBC
 - Coagulation ability PT (INR), PTT
 - Prepare for transfusion typing, screening, cross-matching
- Kidney function creatinine, BUN, electrolytes
- Liver tissue integrity and function AST, ALT, ALP, GGT; bilirubin, albumin, PT(INR)
- Electrolytes K+, Na+, Cl-, H+, HCO3- (total CO2) see if everything is normal

→ Transfuse only if necessary.