- Are there any physician's orders that you would question and if so, why? (Hmmm.....think about this....and yes, you should have something to list here)

Ceftriaxone 575 mg IVPB every 12 hours
D51/4 NS + 20 mEq KCL/liter at 85 mL/hr

If he is NPO, shouldn't we wait to administer these fluids?

- chest tube to gravity
  - suctioned? Not by gravity

- Calculate Jimmy's weight in kilograms _____ kg

50lbs / 2.2 = 22.727 → 22.73kg

- Calculate maintenance fluid requirements for this patient (show your calculations) _____ mL/hr.

10 x 100 = 1000
10 x 50 = 500
2.73 x 20 = 54.6
1,554.6

1,554.6 / 24 hrs = 64.775 = 65mL/hr

- What amount should you set the "volume to be infused" on the IV pump? (Remember, this is a safety measure...if you don't know how to calculate this, look back at the Assessment and Intervention of the Child lecture presentation) _____ mL

65mL x 2 = 130mL

- Calculate minimal urine output for this patient (show your calculations) _____ mL/hr.

22.73kg x 0.5 = 11.365 = 11.37

  - Is the urine output appropriate for the last 24 hours? (Yes) No

Lost 12 = 272mL

11.37 x 12 = 136.44

- Jimmy has an order for Ceftriaxone 575 mg IVPB every 12 hrs. **The pharmacist has mixed the dose that is due now in 25mL Sodium Chloride 0.9%.** (You will need to use a drug reference when completing the following information.)

575mg every 12hrs
1,150mg daily total

Dose due now

575mg in 25mL = 575mg / 25mL = 23mg/mL

- What is the therapeutic range for this medication per the drug reference?

  50-75 mg/kg of body wt in 24hrs

  - Calculate the therapeutic range for this medication for the BID dose ordered (show your calculations).

    50 x 22.73 = 1,136.5 = 568.25 | 75 x 22.73 = 1,704.75 = 852.38

    - Is the dose ordered within your calculated therapeutic range?

      575mg

      yes.

- What is the recommended concentration per the drug reference?

  10mg to 40mg per mL

  - Calculate the concentration of the prescribed medication (look above to see how much fluid the pharmacist sent this medication in and show your calculations).

    575mg ÷ 25mL = 23mg/mL

    - Is the prescribed dose within the recommended concentration range?

      yes.