

# pop-pl evaluation

Please read the heparin dosing protocol below:

#lang pop-pl/current

used by JessieBrownVA

initially

giveBolus 80 units/kg of: HEParin by: iv  
start 18 units/kg/hour of: HEParin by: iv

infusion:

whenever new aPTTResult

aPTT < 45 | giveBolus 80 units/kg of: HEParin by: iv  
| increase HEParin by: 3 units/kg/hour

aPTT in 45 to 59 | giveBolus 40 units/kg of: HEParin by: iv  
| increase HEParin by: 1 unit/kg/hour

// aPTT in 59 to 101 | Continue current HEParin dose

aPTT in 101 to 123 | decrease HEParin by: 1 unit/kg/hour

aPTT > 123 | hold HEParin  
| after 1 hour  
| restart HEParin  
| decrease HEParin by: 3 units/kg/hour

aPTTChecking:

every 6 hours checkaPTT whenever aPTTResult outside of 59 to 101, x2  
every 24 hours checkaPTT whenever aPTTResult in range 59 to 101, x2

1. Circle the part of the program that handles appt values of 50 seconds.

2. What happens when we get a an appt of 50 seconds?

↑ heparin by 1u/kg/hr

3. Modify the part of the protocol you have circled so that it will instead increase the heparin dosage by 2 units/kg/hour.

4. Circle the part of the protocol that controls how often an appt test is run.

5. What is the least frequent the test is run?

q 24 hours

6. Given each of the following test results, when would the next aPTT check be done if the protocol is accurately followed?

aPtt = 50 seconds at 6am

~~12N~~ - 6p from 12 noon - 6p,

aPtt = 80 seconds at noon

~~6p - 12 noon~~ 12N, 12N

aPtt = 90 seconds at 6pm

6p, 6p,

Please fill out any that are relevant to you:

- 7. Attending Physician\_\_ Years in Practice\_\_
- 8. Resident Physician\_\_ PGY?\_\_
- 9. Medical Student Year\_\_
- 10. Nurse\_\_ Years in Practice\_\_
- 11. Nursing student Year\_\_
- 12. Post-training Pharmacist\_\_ Years in practice\_\_
- 13. Pharmacy Resident\_\_ PGY\_\_
- 14. Pharmacy Student\_\_ Year\_\_
- 15. What is your formal education in programming?

16. List the computer programming languages have you used. For each computer programming language, write the length in lines of the longest program you have written in that language.



17. How comfortable are you programming? (0 being the least?)

(circle one) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

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| increase HEParin by: 3 units/kg/hour

aPTT in 45 to 59 | giveBolus 40 units/kg of: HEParin by: iv  
| increase HEParin by: 2 unit/kg/hour

// aPTT in 59 to 101 | Continue current HEParin dose

aPTT in 101 to 123 | decrease HEParin by: 1 unit/kg/hour

aPTT > 123 | hold HEParin  
| after 1 hour  
| restart HEParin  
| decrease HEParin by: 3 units/kg/hour

aPTTChecking:

every 6 hours checkaPTT whenever aPTTResult outside of 59 to 101, x2  
every 24 hours checkaPTT whenever aPTTResult in range 59 to 101, x2

1. Circle the part of the program that handles appt values of 50 seconds.

2. What happens when we get a an appt of 50 seconds?

give bolus 40u/kg ↑ Hepar 5tt 1int/kg/hr

3. Modify the part of the protocol you have circled so that it will instead increase the heparin dosage by 2 units/kg/hour.

4. Circle the part of the protocol that controls how often an appt test is run.

5. What is the least frequent the test is run?

Q24<sup>o</sup>

6. Given each of the following test results, when would the next aPTT check be done if the protocol is accurately followed?

aPtt = 50 seconds at 6am

aPtt = 80 seconds at noon

aPtt = 90 seconds at 6pm

6pm following day

Please fill out any that are relevant to you:

7. Attending Physician\_\_ Years in Practice\_\_

8. Resident Physician\_\_ PGY?\_\_

9. Medical Student Year\_\_

10. Nurse 1 Years in Practice *use methuener NP 12 years*

11. Nursing student Year\_\_

12. Post-training Pharmacist\_\_ Years in practice\_\_

13. Pharmacy Resident\_\_ PGY\_\_

14. Pharmacy Student\_\_ Year\_\_

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*error*

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| increase HEParin by: 3 units/kg/hour

aPTT in 45 to 59 | giveBolus 40 units/kg of: HEParin by: iv  
| increase HEParin by: 1 unit/kg/hour

// aPTT in 59 to 101 | Continue current HEParin dose

aPTT in 101 to 123 | decrease HEParin by: 1 unit/kg/hour

aPTT > 123 | hold HEParin  
| after 1 hour  
| restart HEParin  
| decrease HEParin by: 3 units/kg/hour

aPTTChecking:

every 6 hours checkaPTT whenever aPTTResult outside of 59 to 101, x2  
every 24 hours checkaPTT whenever aPTTResult in range 59 to 101, x2

1. Circle the part of the program that handles appt values of 50 seconds.

2. What happens when we get a an appt of 50 seconds?

?

3. Modify the part of the protocol you have circled so that it will instead increase the heparin dosage by 2 units/kg/hour.

4. Circle the part of the protocol that controls how often an appt test is run.

5. What is the least frequent the test is run?

6. Given each of the following test results, when would the next aPTT check be done if the protocol is accurately followed?

aPtt = 50 seconds at 6am

aPtt = 80 seconds at noon

aPtt = 90 seconds at 6pm

Please fill out any that are relevant to you:

- 7. Attending Physician\_\_ Years in Practice\_\_\_\_
- 8. Resident Physician\_\_ PGY?\_\_\_\_
- 9. Medical Student Year\_\_\_\_
- 10. Nurse\_\_ Years in Practice\_\_
- 11. Nursing student Year\_\_\_\_
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3

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  whenever new aPTTResult
    aPTT < 45      | giveBolus 80 units/kg of: HEParin by: iv
                   | increase HEParin by: 3 units/kg/hour

    aPTT in 45 to 59 | giveBolus 40 units/kg of: HEParin by: iv
                   | increase HEParin by: 12 unit/kg/hour

    // aPTT in 59 to 101 | Continue current HEParin dose

    aPTT in 101 to 123 | decrease HEParin by: 1 unit/kg/hour

    aPTT > 123      | hold HEParin
                   | after 1 hour
                   |   restart HEParin
                   |   decrease HEParin by: 3 units/kg/hour

aPTTChecking:
  every 6 hours checkaPTT whenever aPTTResult outside of 59 to 101, x2
  every 24 hours checkaPTT whenever aPTTResult in range 59 to 101, x2

```

1. Circle the part of the program that handles appt values of 50 seconds.

2. What happens when we get a an appt of 50 seconds?

60 units 40 units  
↑ by 1 unit/hr infusion

3. Modify the part of the protocol you have circled so that it will instead increase the heparin dosage by 2 units/kg/hour.

4. Circle the part of the protocol that controls how often an appt test is run.

5. What is the least frequent the test is run?

every 24 hrs

6. Given each of the following test results, when would the next aPTT check be done if the protocol is accurately followed?

aPtt = 50 seconds at 6am 24<sup>o</sup>

aPtt = 80 seconds at noon ~~at~~ 6pm

aPtt = 90 seconds at 6pm midnoc

Please fill out any that are relevant to you:

7. Attending Physician \_\_\_ Years in Practice \_\_\_

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11. Nursing student Year \_\_\_

12. Post-training Pharmacist \_\_\_ Years in practice \_\_\_

13. Pharmacy Resident \_\_\_ PGY \_\_\_

14. Pharmacy Student \_\_\_ Year \_\_\_

15. What is your formal education in programming?

*None*

16. List the computer programming languages have you used. For each computer programming language, write the length in lines of the longest program you have written in that language.

*None*

17. How comfortable are you programming? (0 being the least?)

(circle one) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10