CMPT M233 Sample Review

1. Urine sample:
2. Plate grew 107 white colonies
3. As per urine job aid, white colonies could be CNST, yeast or GPB. Need to do gram to determine which one it is. Gram was GPC
4. As per urine culture SOP, CNST is a potential pathogen. Only report if the patient is symptomatic and if growth is pure. Both were relevant so a GPI/GPS was done
5. ID was S.epi 96%. Percentage ID is acceptable since >90%
6. Sens was report as per ASTM. ASTM said to report:

* Cefazolin-same as OX
* Nitro-no comments about this drug
* Ox-if R needed to review flow chart. Flow chart said to report Ox as R
* SXT-no comments about this drug
* Vanc-report if Ox is R, which it was. If MIC>4 need to do ET, but this wasn’t the case

1. Superficial wound sample: This one was tricky!!!
2. Gram was GNB. Nothing special about GNB, looked like normal GNB
3. BA had good growth; MAC had NG. Right away should know this is not a regular GNB. Also, looking at growth on BA, it is very grey and small
4. As per ID of GNB SOP:

* Step 1 = Yes it is aerobic growth
* Step 2 = No growth on MAC, go to Step 4
* Step 4 = Growth on BA, go to Table 3

1. Table 3 is for Pasteurella/Sphingo:

* Organism was cat +
* Organism was ox+
* Organism was SI-
* Motility was –
* Does not match the 2 organisms in the chart

1. GN card was done but ID was not good. Got Pseudomonas and Neisseria animaloris. Neither was a good ID and clearly there were issues
2. Because organism looked grey/brownish, didn’t grow on MAC, was oxidase positive and GN card didn’t work, what would be the next thing to try?
3. NH card was run and was Neisseria weaver. When looking this organism up it was determined it is a pathogen in dog bits. ID was good so this is what was reported, and this is the correct organism
4. Stool culture:
5. We still plated it just to see what we got
6. It grew LF. Did GN and it was E.coli
7. Actual answer is Salmonella typhi. This was chosen as the Vitek can mix up these 2 organisms. An automated way of doing stools such as the BioFire would have ID this and that is how stool cultures should be performed now
8. CSF culture:
9. Gram was yeast
10. Colonies grew. Gram from them were yeast
11. YST ID was done and was C.neoformans with good ID (>90%)
12. This is not a reportable organism so would only be reported to IPAC if inpatient
13. Blood culture:
14. Gram was GNB
15. Culture:

* BA had tiny growth at 48 hours
* CHO had grey colonies
* MAC had no growth

1. AS per ID of GNB SOP:

* Step 1 = Yes go to Step 2
* Step 2 = No growth on MAC, go to Step 4
* Step 4 = Poor growth on BA, go to Table 4

1. Table 4:

* Oxidase +
* Catalase –
* SI +
* SOP says to do NH

1. GN was run and results were not good. Gave many ID and none were what grew. As per the SOP, this card should not have been run. If it gave a good ID it would be wrong. Need to know limitations of VITEK
2. ANC card was run, and results were not good. This should not have been run since it is not an anaerobe and not a GPB. If this card did give good results they would be wrong.
3. NH card was Cardiobacterium hominis with a good ID. This was the correct answer and matches what the SOP says