Instructions for Clinical Microbiology Rotation

Course Materials

This is a UNM on-line course. Only registered UNM students can log in to the course.

All materials will be submitted using the course software WebCT by the END of EACH rotation. The address for the WebCT courses is http://vista.unm.edu. The student must log into the course.

Course Timeline

The course materials consist of 2 exams, clinical performance evaluations (student checklists), clinical professional development evaluation, and microbiology project. Click here to view the course syllabus and the course objectives. Please contact Jack Granato (jgranato@salud.unm.edu) at the Health Sciences Center Library at 925-4169 with any technical questions.

Exams: Requires password from Clinical Tech: The MLS instructor will email the password to the appropriate clinical instructor when students begin their rotations.

Exam #1 should be given in week 3. Exam #2 should be given in week 5. These exams can be found in the WebCT course from the Exam I and Exam II links on the Homepage. Please make sure that you do not share this password with anyone. The student will be able to look at their results in WebCT immediately after they submit the exams. Click here to view the information covered in each exam.

Student checklist: Requires password from Clinical Tech. Please do not share password with student.

The Clinical Tech is required to fill out a series of checklists by the end of the student rotation in each area. These checklists can be found in the WebCT course from the Checklists and Evaluations link on the Homepage. The bench tech(s) can answer a few questions at a time and “Save” the answer before exiting. Please make sure that you do not share this password with the student. Please view the course timeline to determine when the checklists should be submitted.
Clinical Professional Development Evaluation: Requires password from Clinical Tech. Please do not share password with student.

The preceptor should sit down with the student at week 3 and review the professional evaluation and verbally identify any problem areas so student can work on behavior, attitudes, etc. and correct and deficiencies. The student can find and print an example of the Clinical Professional Development Evaluation form in the WebCT course under Course Information / Clinical Professional Development Evaluation Instructions. At week 5, the preceptor should fill out the evaluation in the WebCT course with the student and submit it. The Clinical Professional Development Evaluation can be found in the WebCT course from the form the Checklists and Evaluations links on the Homepage.

Microbiology Project

The student is required to work on a microbiology project during the rotation. The project can be anything from kit evaluations to a report on a specific organism, case study or something on QA/QC. The student is required to prepare a summary of the project to submit by the end of the course. The student must download the required report form from WebCT, create the report, and upload the finished report back into the WebCT course.
Rotation Tests

Two tests and 1 practical exam will be given to each student during their clinical experience. These exams will be graded by the MLS instructor.

TEST # 1 – 50 PTS
TO BE GIVEN DURING WEEK 3

MATERIAL COVERED

- General Micro
- Media
- Specimen collection/handling
- Safety/QC
- Staining
- Susceptibility testing
- Common organisms, i.e.
  - Staphylococcus spp
  - Streptococcus spp
  - Neisseria spp
  - Corynebacterium spp
  - Bordetella
  - Listeria
  - Enterobacteriaceae
  - Common nonfermenters
    - Pseudomonas aeruginosa
    - Stenotrophomonas (xanthomonas) maltophilia
    - Burkholderia (Pseudomonas) cepacia
    - Acinetobacter calcoaceticus
  - Chlamydia trachomatis

- Respiratory tract cultures and associated organisms
- Genital tract cultures and associated organisms
- Urine cultures and associated organisms
- Stool cultures and associated organisms
- Blood cultures and associated organisms
- Wound cultures and associated organisms
- Sterile body fluids and associated organisms
TEST #2 – 50 PTS
TO BE GIVEN DURING WEEK 5

MATERIALS COVERED

Unusual organisms such as:

- Brucella
- Pasteurella
- Elizabethkingia (Chryseobacterium)
- Other Hemophilus spp
- Legionella
- Erysipelothrix
- Bacillus spp
- Plesiomonas
- Aeromonas
- *Vibrio cholera*
- *Vibrio* spp
- *Yersinia pestis*
- *Francisella tularensis*
- Mycoplasma
- Borrelia
- *Treponema pallidum*
- L-forms

Parasitology
Mycology
Aerobes
AFB
Aerobic Actinomycetes