

Clinical Bacteriology

Midterms Notes

Specimen collection and transportation are critical considerations, because any results the laboratory generates is limited by the quality of the specimen and its condition on arrival in the laboratory

Careful skin preparation before procedures such as blood cultures and spinal taps decreases the chance that organisms normally present on the skin will contaminate the specimen.

GENERAL CONSIDERATIONS

1. Specimens should be collected during the acute (early) phase of an illness (or within 2-3 days for viral infection)

2. If possible, specimens should be collected before antibiotics are administered

3. Swabs are generally poor specimens (except nares and throat specimens) if tissue and needle aspirates can be obtained

a. For anaerobes, aspirates are preferred to swabs

4. The specimen collected should be a representation of the diseased area

5. The quantity of the specimen should be sufficient enough for diagnostic testing

SPECIMEN TRANSPORT

1. Ideally, specimens should be transported to the laboratory within 30 minutes of collection

a. For anaerobic bacteria, transport should not take more than 10 minutes

b. For CSF samples, it should be transported within 15 minutes

2. All specimen containers should be leak-proof

3. All specimens should be transported within sealable, leak-proof, plastic bag; specimen

bags should be marked with biohazard label

4. Use of appropriate special preservatives or holding media for transport of specimen delayed for more

than 30 minutes is important in ensuring organism viability

a. Examples:

Changes in temperature – *Neisseria meningitidis*

Changes in pH – *Shigella* spp.

SPECIMEN PRESERVATION

1. Preservatives

a. Boric acid – maintains the appropriate colony counts (urine)

b. Polyvinyl alcohol (PVA) – maintains the integrity of trophozoites and cysts (stool)

c. Buffered formalin

2. Transport of holding media

a. Maintains the viability of microorganisms present in a specimen without supporting the growth of any of the organisms

b. Charcoal sometimes is added to these media to absorb fatty acids present in the specimen that could kill fastidious organisms (*Neisseria gonorrhoeae* and *Bordetella pertussis*)

c. Examples: Stuart's medium, Amie's medium, Cary Blair, Transgrow, JEMBEC

Anticoagulants

- Used to prevent clotting of blood, bone marrow and synovial fluid

- 0.025% (w/v) Sodium Polyanethol Sulfonate (SPS) – this concentration of SPS is used because *Neisseria* spp and some anaerobic bacteria are sensitive to higher concentrations

- Heparin – used for viral cultures, it may inhibit the growth of *g(+)* bacteria and yeast

Specimen Storage

- If specimen cannot be processed immediately after receiving it in the laboratory, they must be stored at

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Daniela Niemeyer



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