



محاضرة رقم: 7

Lecture No 7:

DIAGNOSTIC MICROBIOLOGY

Sawa University

College of health and medical techniques

Department of Medical Laboratories

4 Stage

جامعة ساوة الاهلية

كلية التقنيات الصحية والطبية

قسم تقنيات المختبرات الطبية

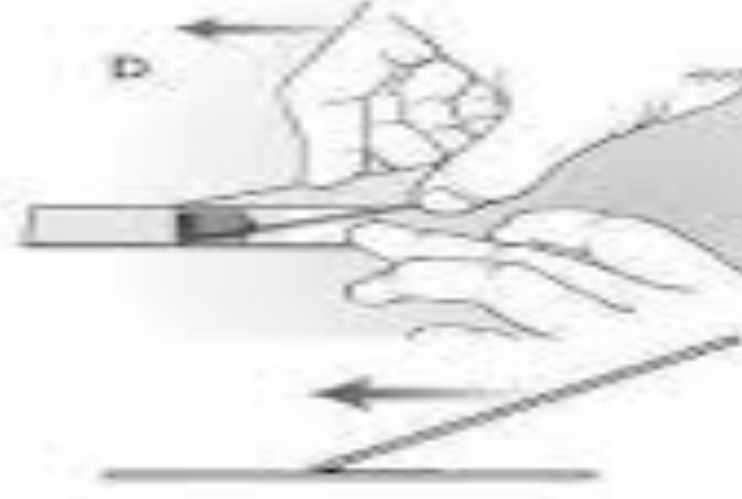
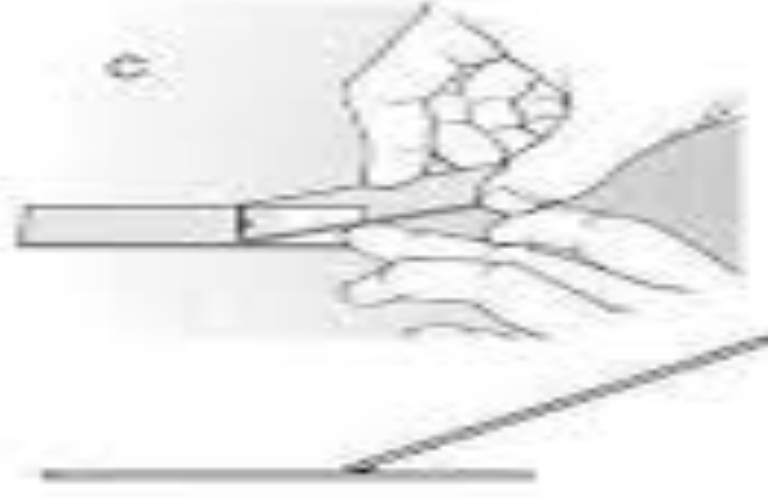
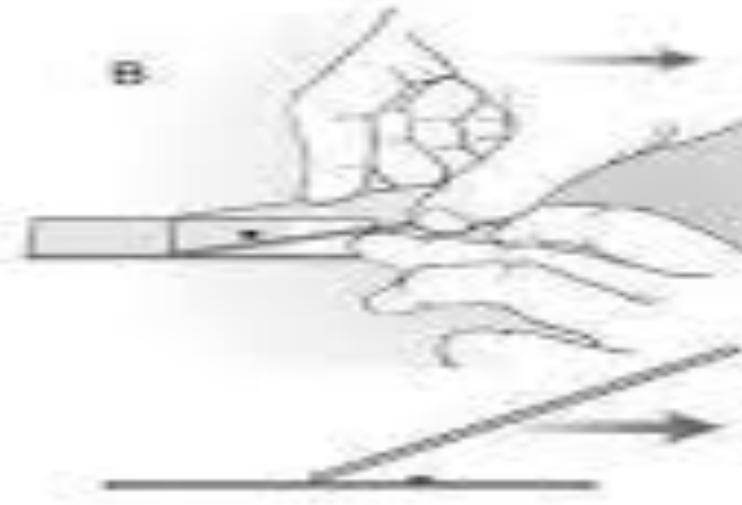
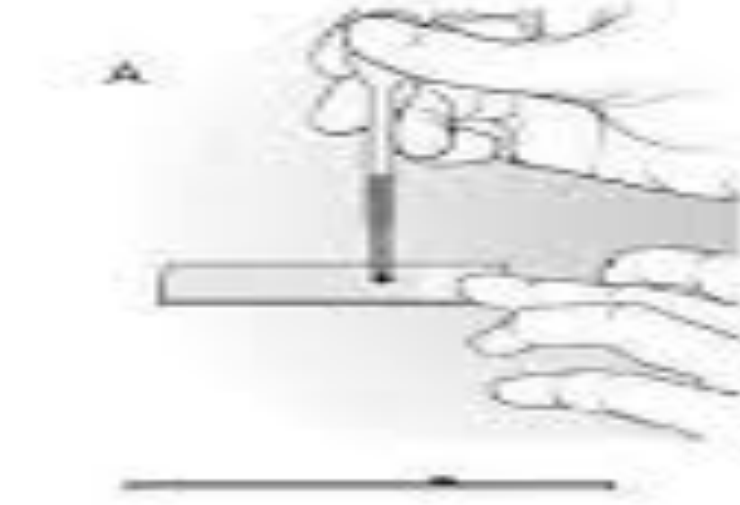
المرحلة/الرابعة

تدريسي المادة : م.م عذراء هادي

Direct and Indirect Smears



A direct smear is a preparation of the primary clinical sample received in the laboratory for processing. A direct smear provides a mechanism to identify the number and type of cells present in a specimen, including white blood cells, epithelial cells, and predominant organism type



Direct and Indirect Smears

Indirect smear organisms obtained after purification or growth on artificial media. Indirect smears may include preparation from solid or semisolid media or broth. Care should be taken to ensure the smear is not too thick when preparing the slide .from solid media





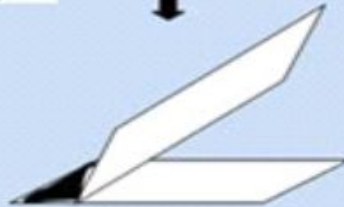
Clean the slide with water



Apply the flame and sterile the slide



Take a small amount of bacterial culture from the slant and disperse in the stain.



With the help of glass spreader, spread the drop of stain and bacterial suspension



Form thin film on the entire surface of slide and air dried



Add immersion oil and observe under 100 X lenses



Colourless cocci



Direct Staining

Procedure

- Transfer a small number of bacteria from an agar surface or a broth culture to a glass slide and
- .heat-fix the preparation
- .Prepare a direct stain when given all the necessary materials



Results

Recognize a direct stain preparation when it is observed through a microscope, and describe the shape and arrangement of the organism.

Indirect Staining Procedure

- .Perform an indirect stain when given all the necessary materials
- .Explain why the dye is not washed off when doing an indirect stain

Results

Recognize an indirect stain preparation when it is observed through a microscope, and describe the .shape and arrangement of the organism

Bacteria have a slight (-) charge.

