


# Inoculation techniques and culture methods

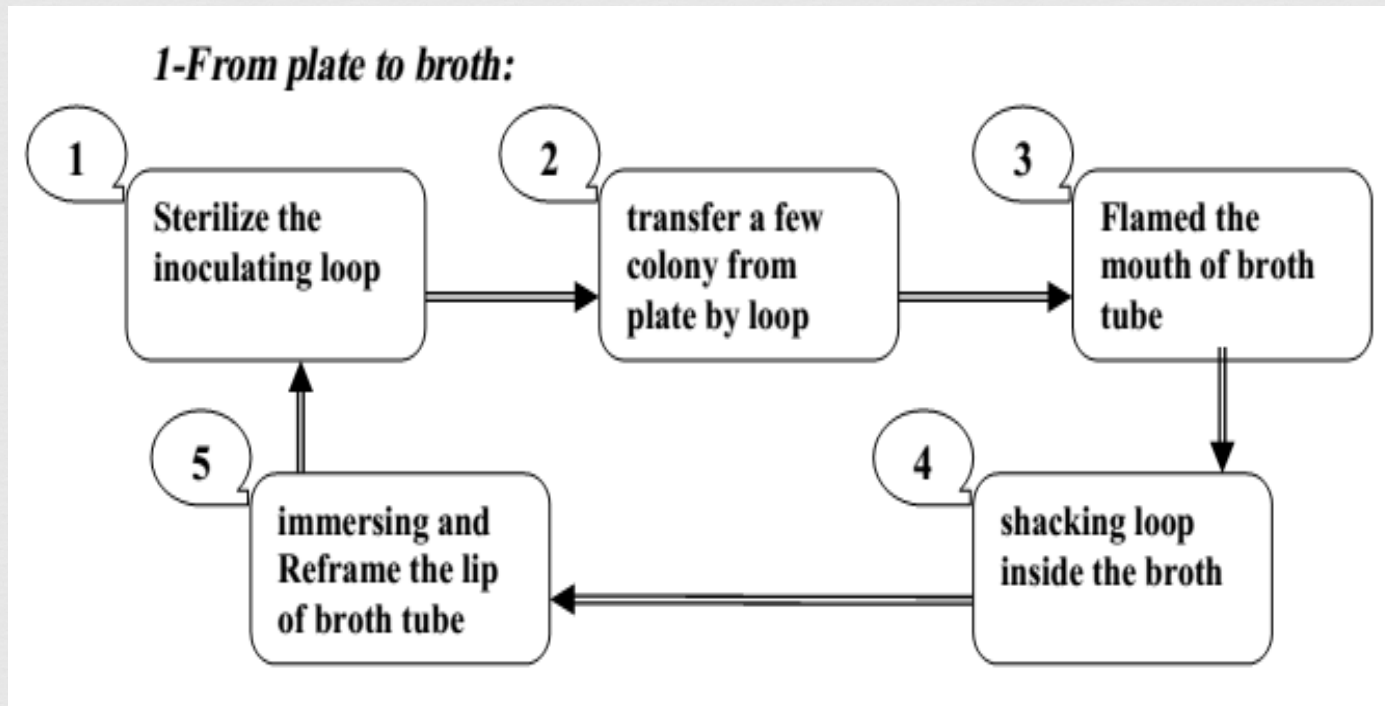
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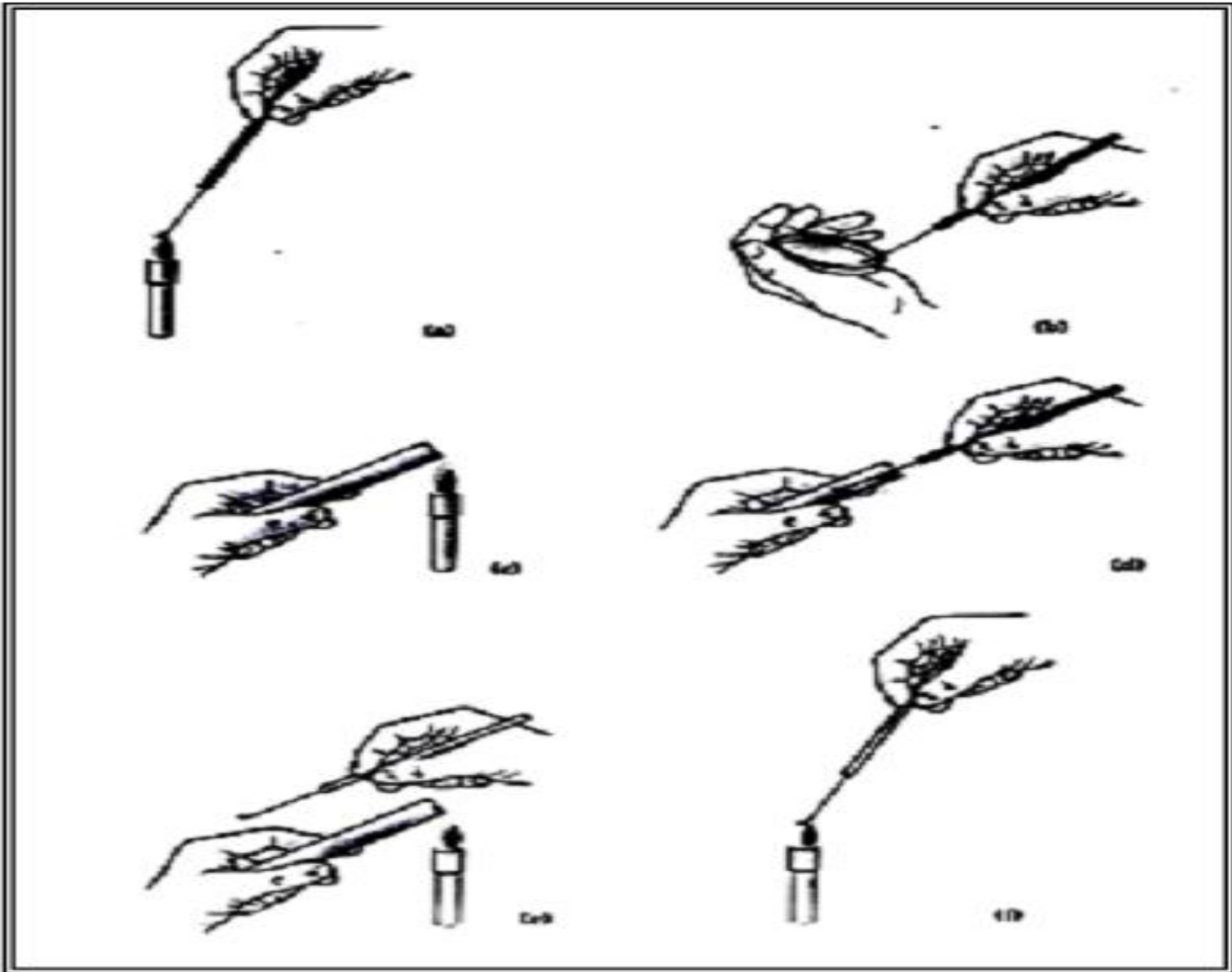




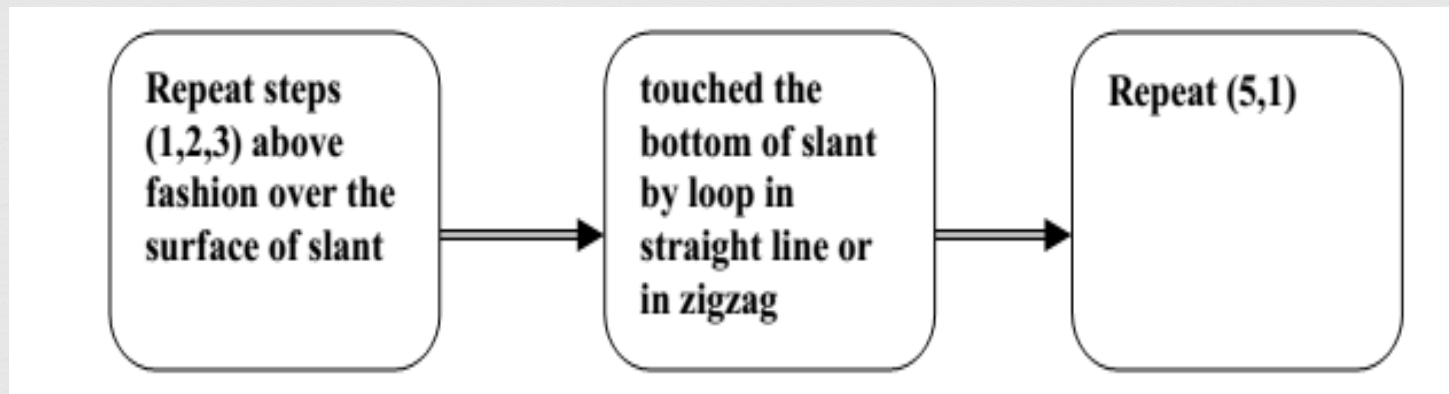
To transfer the microorganisms from medium to another by process called ( sub culturing ) , all transfers must take place under aseptic condition as following :-

# 1-From plate to broth





## 2- From plate to slant agar





(a)



(b)

## 3- Stab culture



by needle the growth ( inoculum )  
stabbed or immersed in the agar tube  
media for demonstration of gelatin  
liquefaction and for the maintenance  
of the stock culture.

## 4- Lawn culture



Lawn culture are prepared by flooding the surface of the plate with a liquid culture or suspension of bacteria and pipetting off the excess inoculum or by applying a swab soaked in the bacterial culture or suspension . After incubation, lawn culture provides a uniform surface growth. It is useful for antibiotic susceptibility testing by disc diffusion method and bacteriophage typing.



## 5- Streak - plate technique ( streaking method )



The most common methods of inoculating an agar plate .

- A small amount of growth is placed on the side of the agar plate ( either with swab or a drop by inculcating loop).

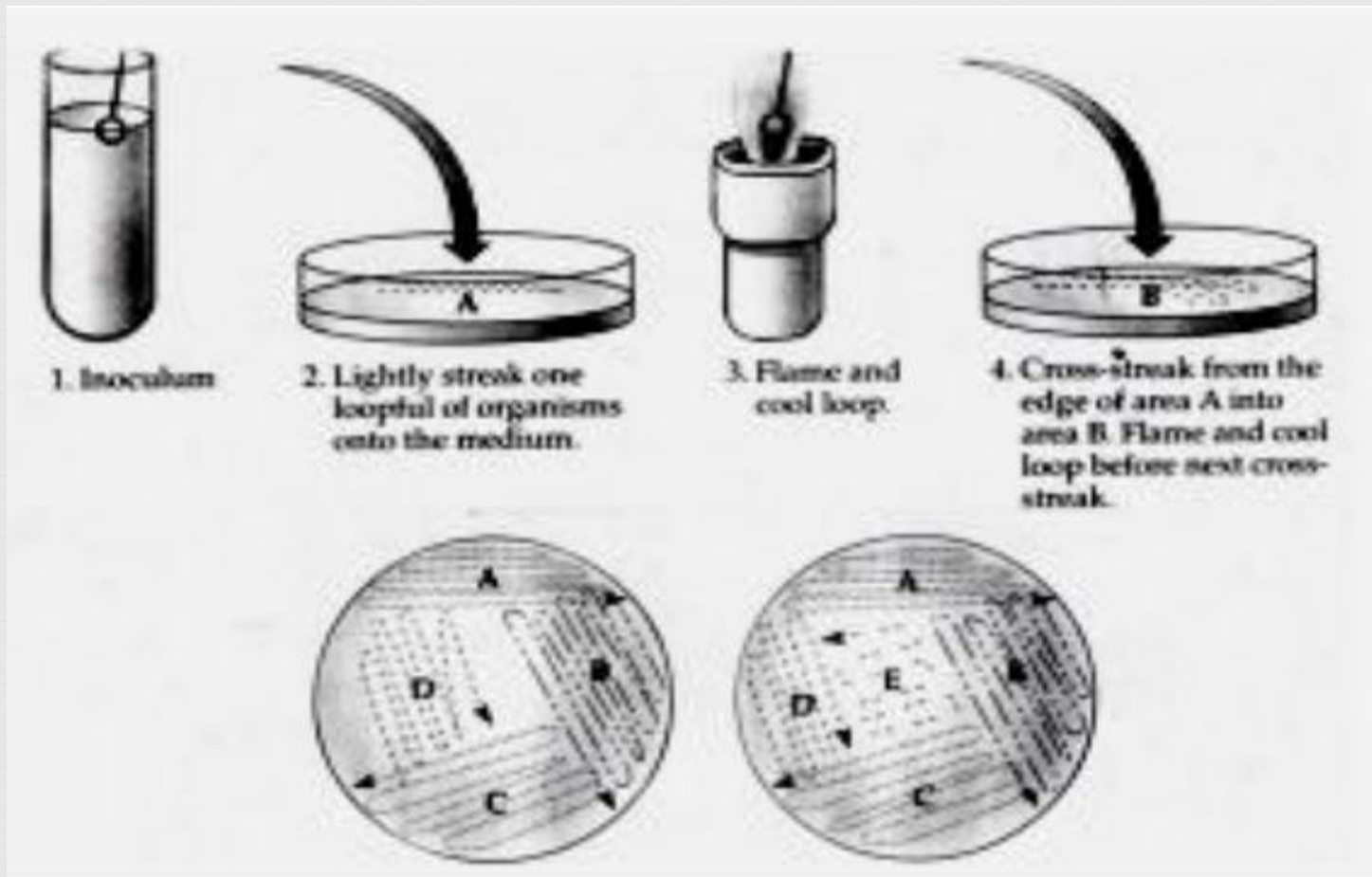
- A sterile loop by flame and cool it by touching the agar and spread the bacteria by moving the loop from side to side, entering the initial site of inoculation.

- Repeat the sterilize and cool the loop, streak at a 90 angle to the first streaks.

- Moving around the agar plate and repeat streak 2-3 times .

After incubation the streaks plate in ( 37 °C) for (18-48)hr.

a single colony ( isolated colony ) is getting by streaking.



1- Practical Microbiology for dental students by Bharti Arora . D.R.Arora .  
2- Jawetz Medical Microbiology 26th Edition.