

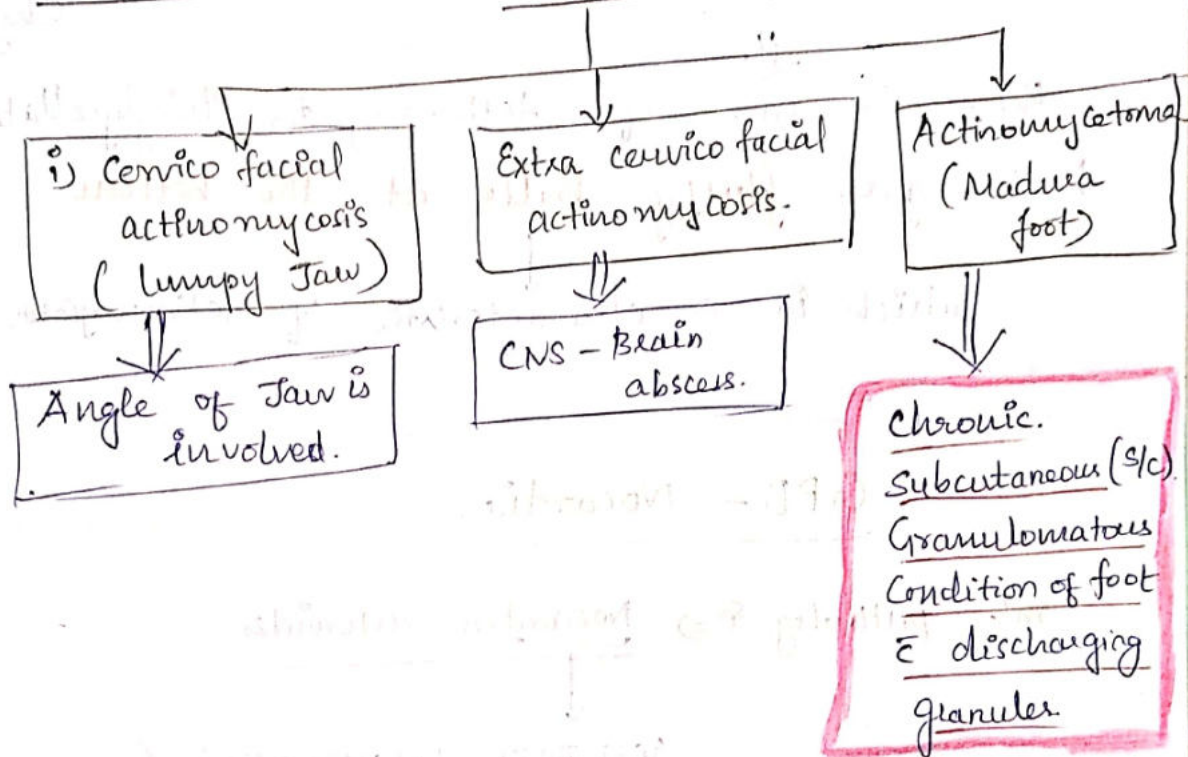
Sps

Actinomyces

Anaerobic. filamentous GPB.
(elongated)

clinical manifestⁿ:

ACTINOMYCOSIS.

Dis:

(i) Microscopy: Granules taken & crushed b/n 2 slides then examined: Histopathologically (HPE).

HPE of crushed granules → sunray appearance.

↓
filaments of Actinomyces

Actinomycetes → ANAEROBIC.

So Selective media → Thioglycollate Broth

Among ② Anaerobic media, RCM is preferred over Thioglycollate except for Actinomycetes? why

↓
Bcoz. in case of Actinomycetes, Thioglycollate broth give fluffy balls at the bottom.

↓
which is a characteristic of Actinomycetes

GPB - Nocardia:

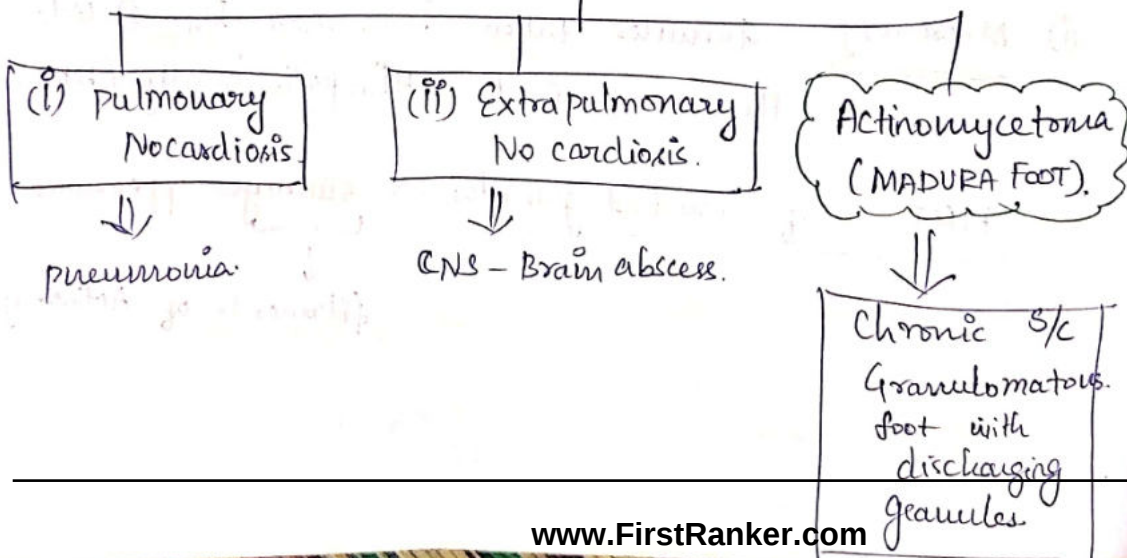
m/c patholog. ♂ ⇒ Nocardia asteroides

↓
ACID FAST FILAMENTOUS. GPB.

(aerobic unlike actino)

Clinical Manifestⁿ:

Nocardiosis

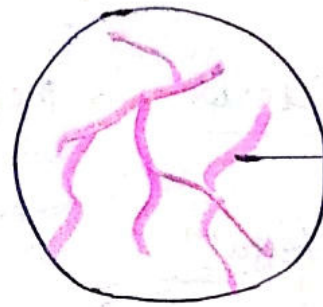


Δ^{sis}:

i) Microscopy:

* HPE → crushed granules
Sunray appearance.

* Acid fast staining



blue background

Long filamentous
pink rod &
shows branching

ID. b/n MTB & Nocardia

(ii) Culture:

- No selective media.
- LJ media (media of MTB).
- * SDA - Sabouraud Dextrose Agar (Media of fungi)

Paraffin Bait Technique

⇓
Special Technique for Nocardia.

Sps → Listeria monocytogenes

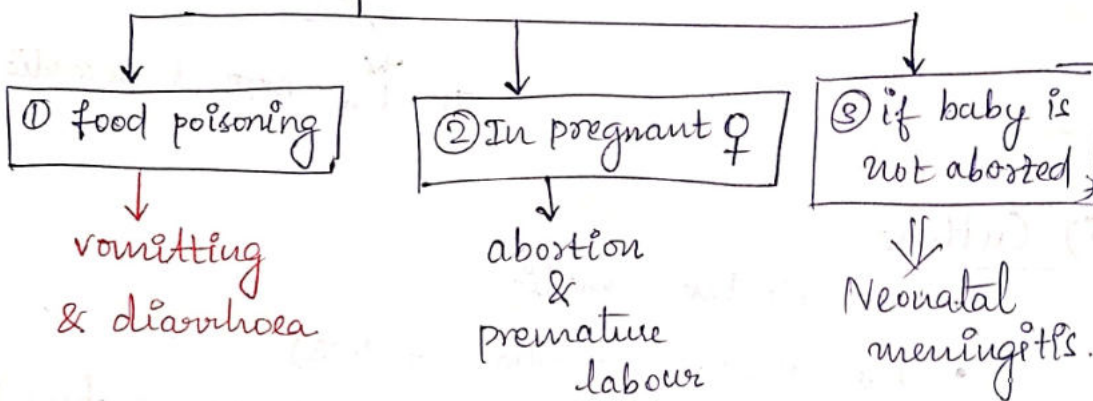
Cold enrichment GPB.

easily grow in old fridge foods.

bcoz low Temp. enhances growth of Listeria

Source of Listeria → Refrigerated foods

Clinical manifestatⁿ:



Δ^{sis}:

i) Microscopy:

• Hanging drop method.

↓
To demonstrate motility

Differential motility ⇒ characteristic motility of Listeria

(motility differs wst Temp.)

37°C
(body T)

Non motile

25°C
(Room T)

Motile

⇒ Tumbling motility

ii) Culture :

Selective media → PALCAN