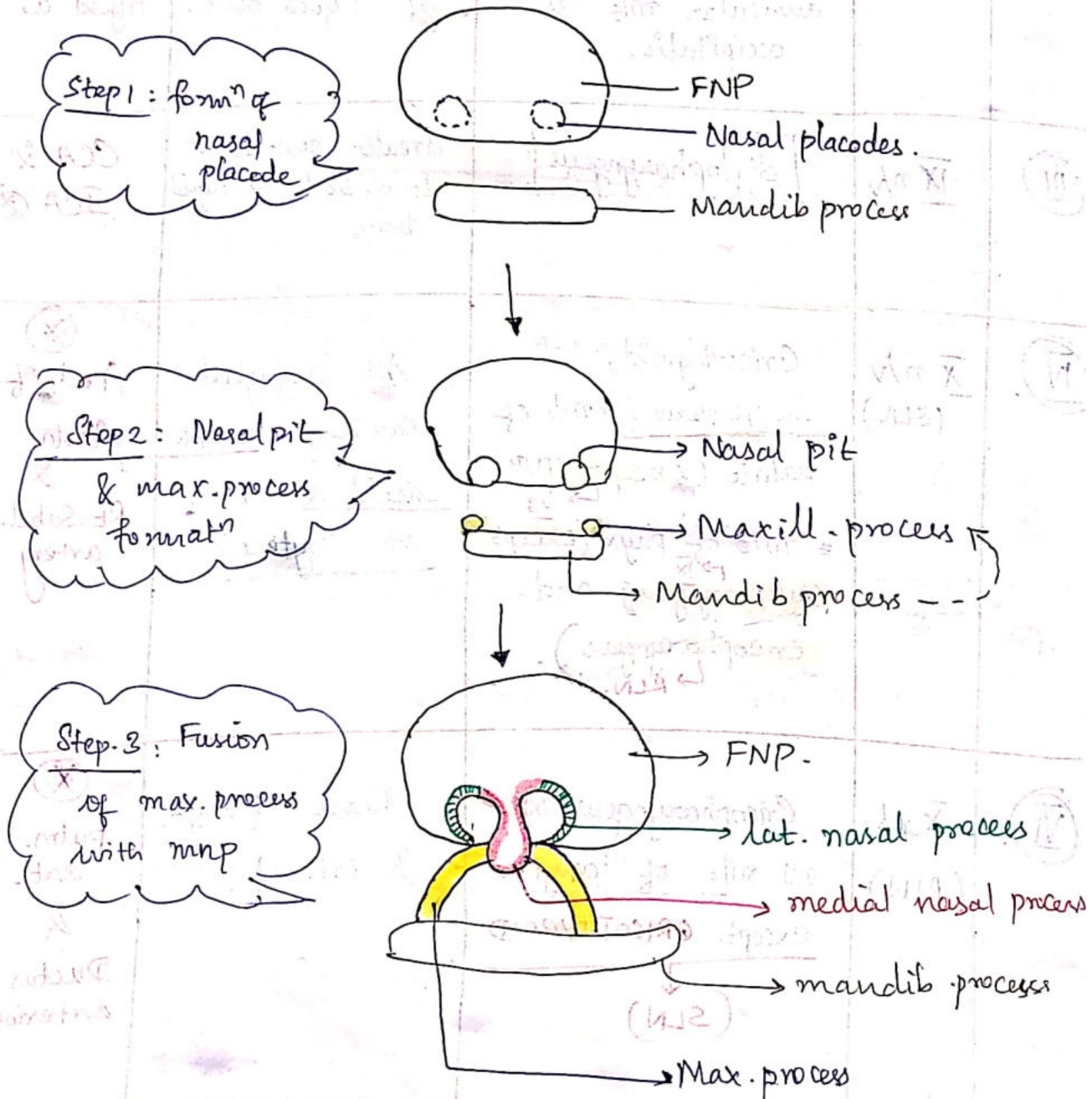


- \* Mandibular process  $\xrightarrow{\text{give rise}}$  maxillary, zygomatic process
  - \* FNP (- Fronto Nasal process)  $\longrightarrow$  developing mesenchyme in front of Fore Brain
- Together Mandib. process  $\oplus$  FNP  $\Rightarrow$  forms face & palate.



1) Lower lip:

\* formed from mandib. process

# Midline cleft lower lip → Non fusion of mand. processes

2) Upper lip:

\* derived from Maxill. process & MNP.  
(PHILTRUM).

# Midline cleft upper lip

→ Non fusion of MNPs.

# Unilateral cleft upper lip → Non fusion of MNP with maxill. process.

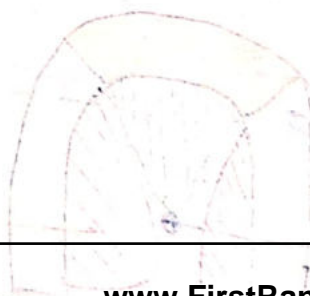
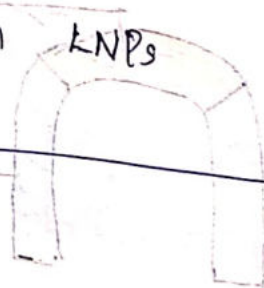
# Bilat. cleft upper lip

(~~✗~~) aka 'Hare lip'

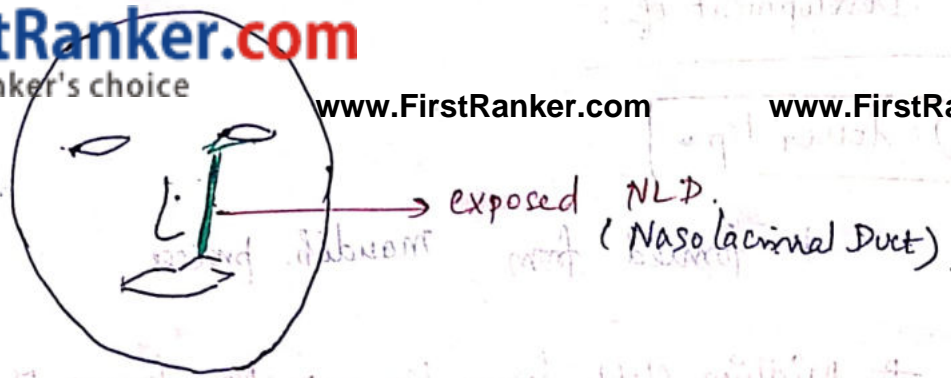
→ Non fusion of both MNPs to maxill. processes.

3) Ala of Nose:

\* derived from LNPs







## # Oblique Facial cleft :

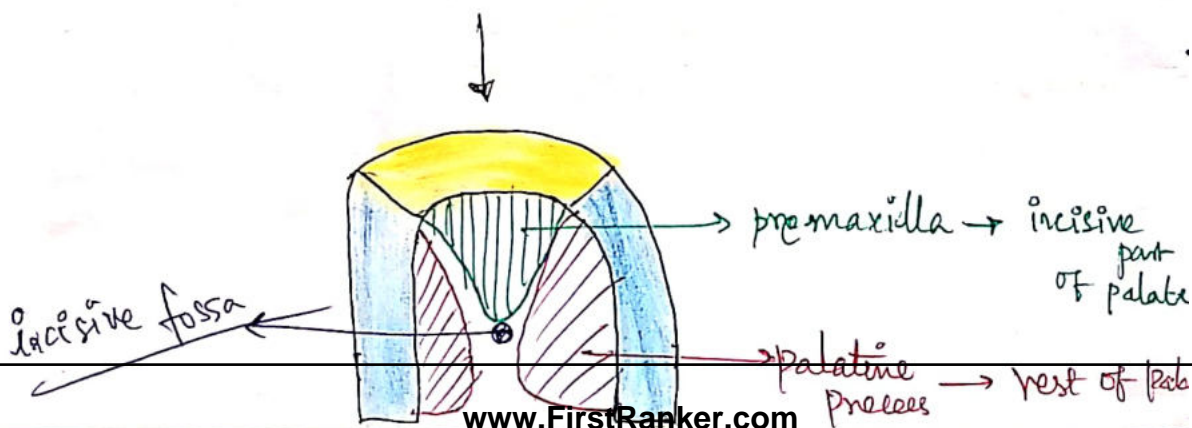
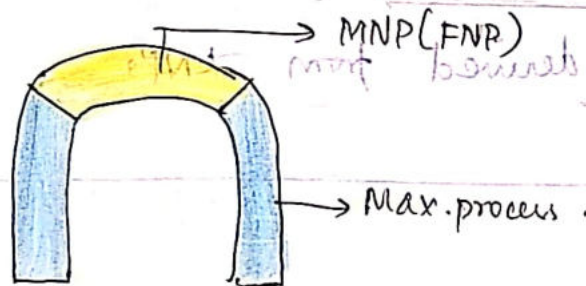
- i) Non fusion of LNP with maxill-process.
- ii) NLD is exposed

## Development of palate:

Upper lip  $\Rightarrow$  dev. from maxill-process & MNPs.

These 2 processes will give Extensions inside, which forms the palate.

### Inf. view :



formed at the junc. of Pre-maxilla and palatine process.

- \* it is located behind upper incisor.
- \* Greater palatine a. passes thro' it & contributes to Kiesselbach's plexus.

m/s of palate:

- \* formed from IV<sup>th</sup> ph. arch except TVP  
(vago acc. complex)  
↓  
Refer C-N
- ↓  
1st ph. arch  
(V<sub>3</sub> n/v)

Derivatives of MNP

↓  
all the midline struc. at nose & mouth

↓  
(1) Tip of Nose

2) Columella

3) Philtrum (UL).

4) Incisive portion of Palate.