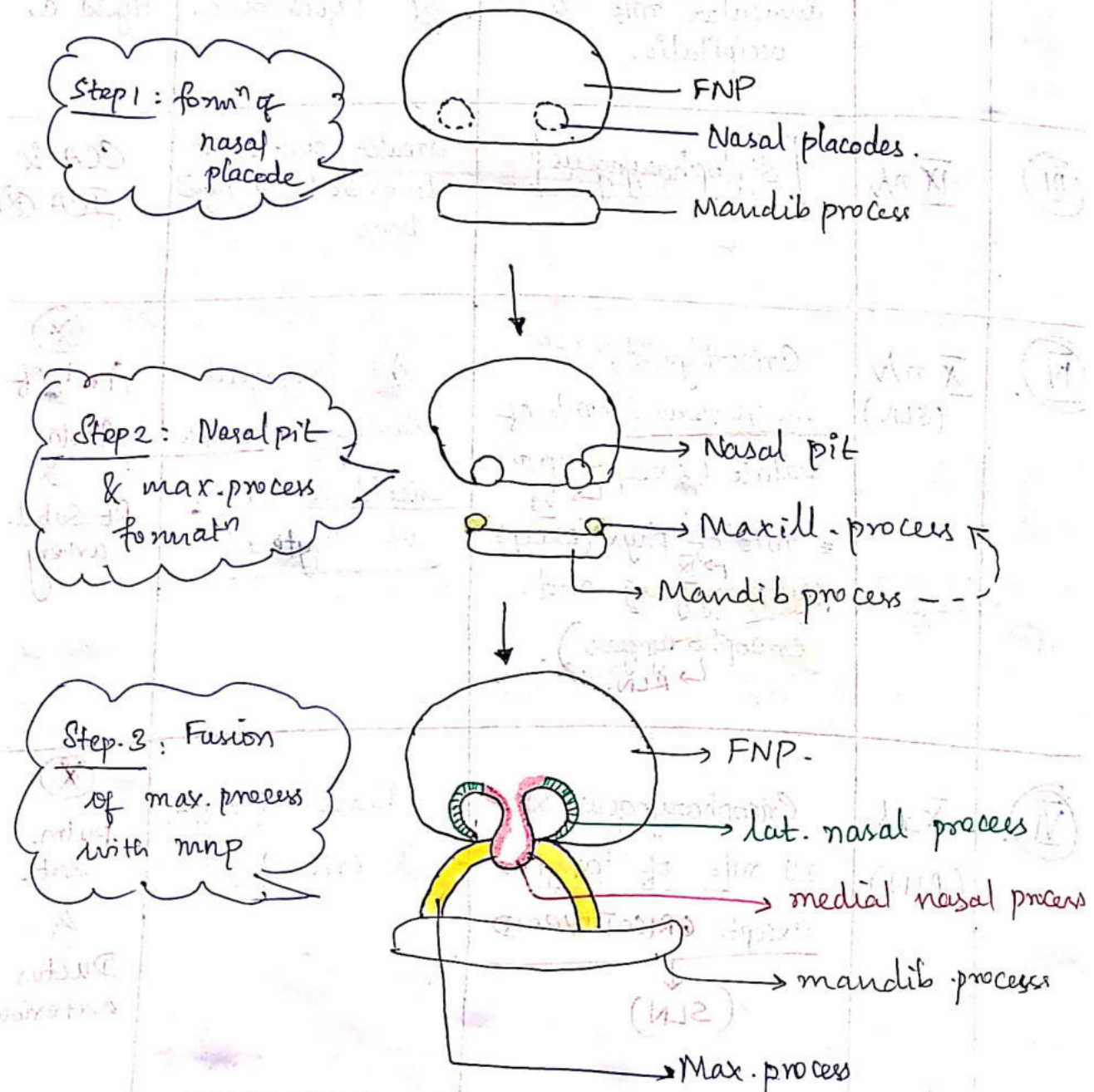


- * Mandibular process $\xrightarrow{\text{gives rise}}$ maxillary, zygomatic process
 - * FNP (- Fronto Nasal process) $\longrightarrow$ developing mesenchyme in front of Fore Brain
- Together Mandib. process $\oplus$ FNP $\Rightarrow$ forms face & palate.



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.

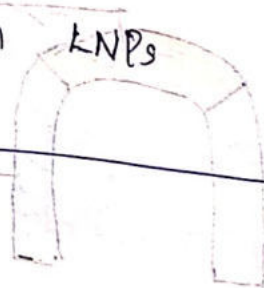
Bilat. cleft upper lip

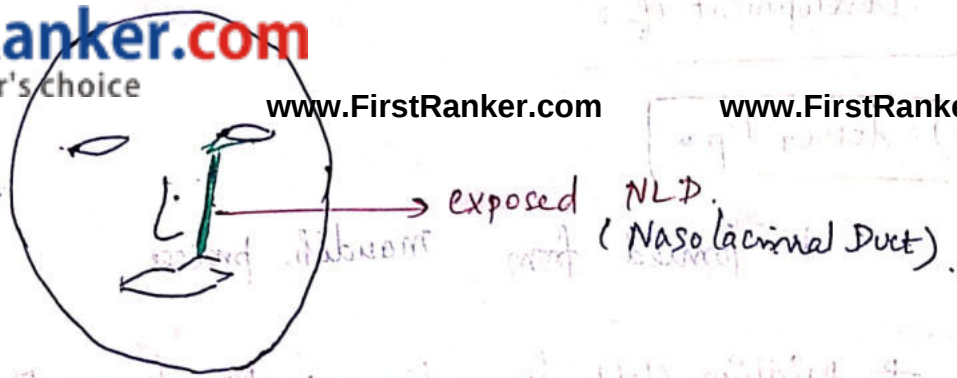
(aka Hare lip)

→ Non fusion of both MNPs to maxill. processes.

3) Ala of Nose:

* derived from LNP





Oblique facial cleft:

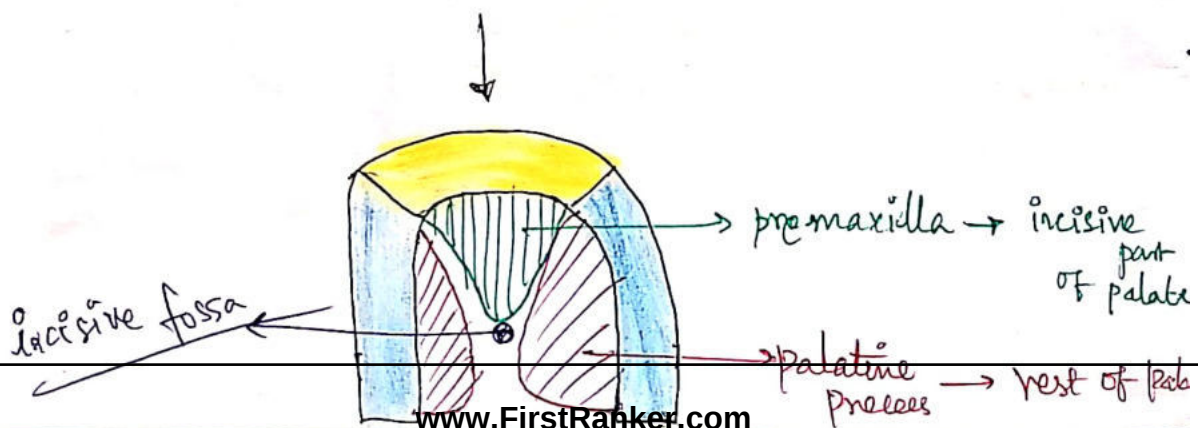
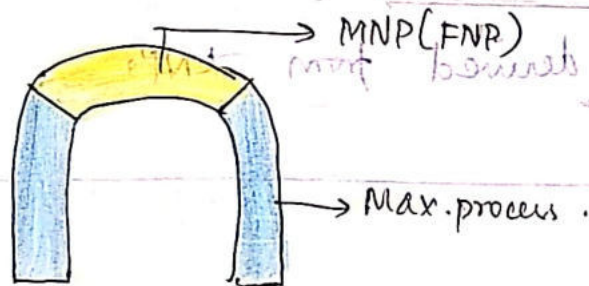
- i) Non fusion of LNP with maxill-process.
- ii) NLD is exposed

Development of palate:

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

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

Inf. view:



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 IVth ph. arch except TVP
(vago acc. complex)
↓
Refer C-12
- ↓
1st ph. arch
($\bar{V}_3$ 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.