

Dysmorphology Practical Class

March 2023

Snir Boniel, MD

Agenda

1. Warm-up
2. Describe the dysmorphism – group exercise
3. Clinical cases – group exercise
4. Quiz!

Warm-up!

March 2023

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Unilateral
Cleft Lip



Bilateral
Cleft Lip

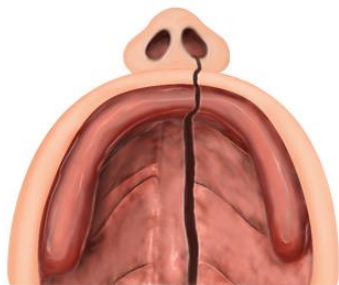


Unilateral cleft lip

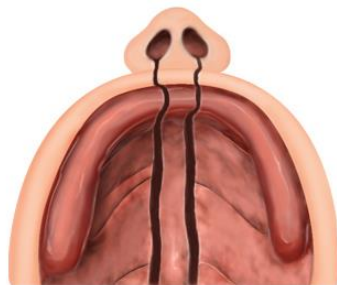


Bilateral cleft lip

RESEARCH. ALL RIGHTS RESERVED.



Unilateral Cleft
Lip and Palate



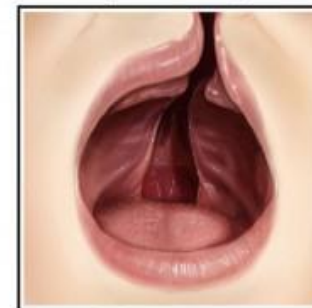
Bilateral Cleft
Lip and Palate

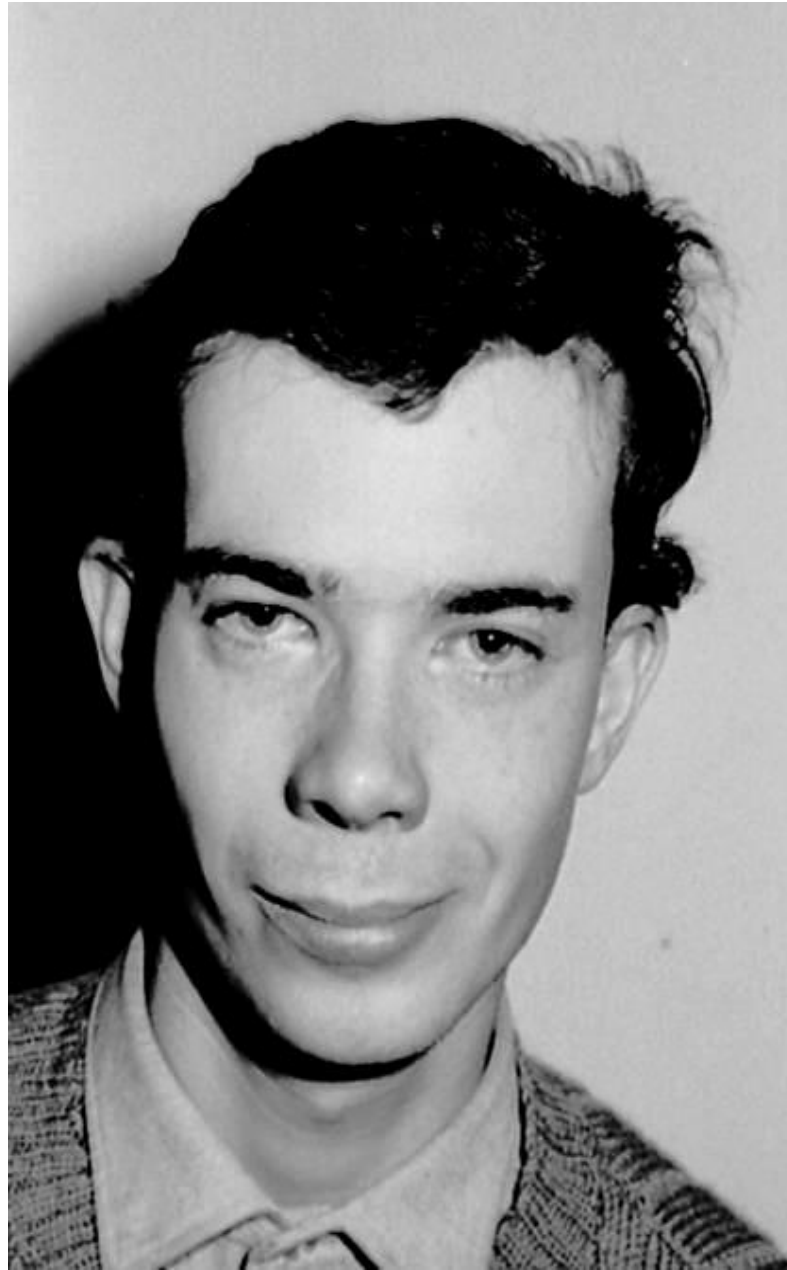


Cleft palate



Cleft lip and cleft palate





Theoretical question:

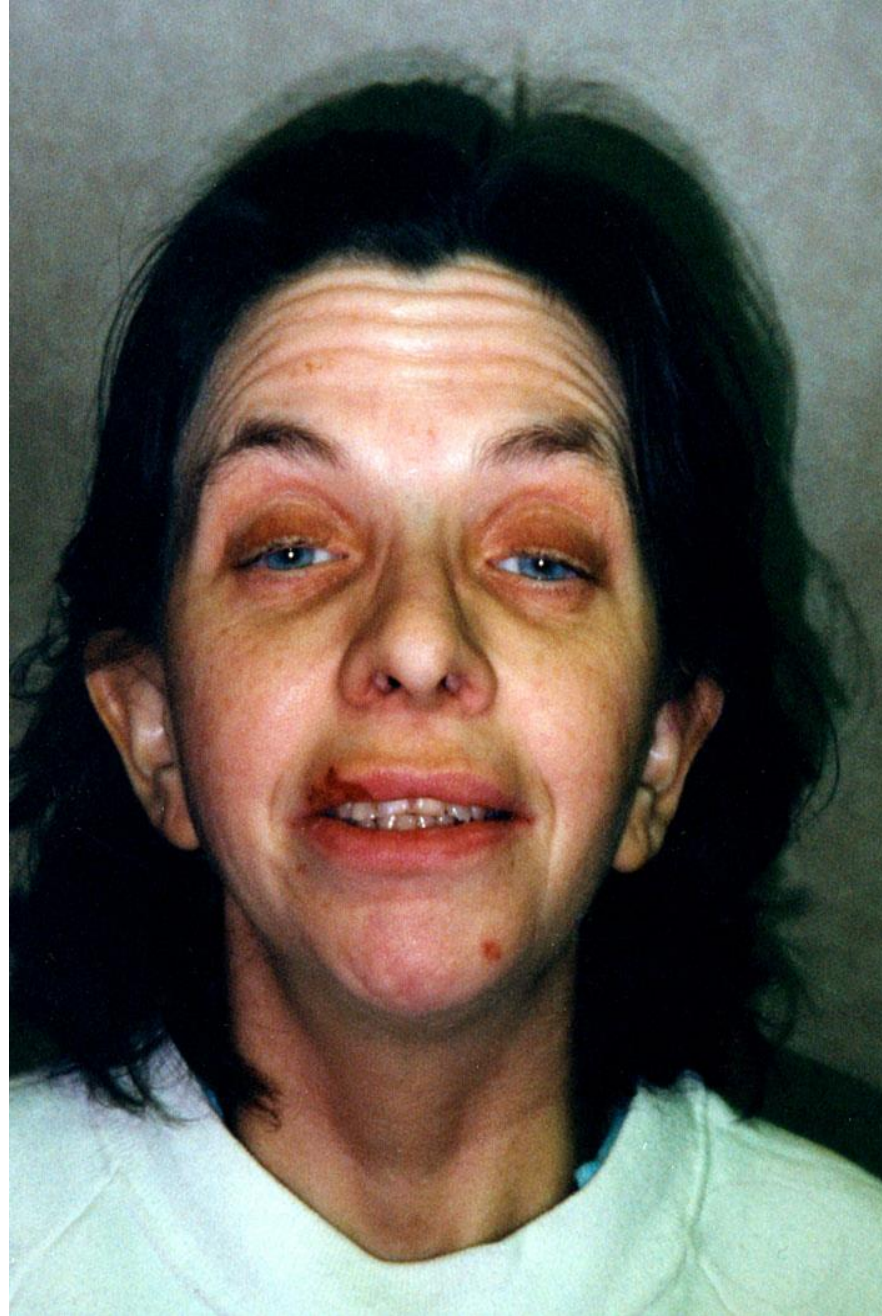
You are waiting at the bus stop. A group of young people with developmental delay are out on a trip, they arrive at the bus stop with their teachers from a special education school.

1. Will there be more men or women in this group?
2. What is the most common cause of developmental delay?
3. What is the second most common cause?
4. Will these people present with microcephaly, normocephaly or macrocephaly?

70% microcephaly – associated with developmental delay. But, 30% - normo or macrocephaly. If you're not sure what's inside the brain – perform brain imaging.

Patients with FraX usually present with either normocephaly or macrocephaly.



















Trigonocephaly



Webbed neck



Foot preaxial polydactyly



Trident hand



Long palpebral fissures



Synophrys



Cupped ear



Attached earlobe



Lip pit



Ankyloglossia



Submucous cleft palate

Lastly, remember

- You **MUST** know these 28 genetic diseases/syndromes inside out:
 - Main symptoms / clinical issues
 - Inheritance method
 - Gene, locus, principal method of diagnosis:

1. Factor V Leiden Thrombophilia
2. Hemophilia A
3. Hemochromatosis
4. 22q11.2del / DiGeorge Syndrome
5. Noonan syndrome
6. Williams syndrome
7. Neurofibromatosis Type 1
8. Tuberous Sclerosis
9. Joubert Syndrome
10. Prader-Willi Syndrome
11. Patau Syndrome
12. Edwards' Syndrome
13. Down Syndrome
14. Wolf-Hirschhorn Syndrome

15. Charcot-Marie-Tooth Disease
16. Duchenne Muscular Dystrophy
17. Spinal Muscular Atrophy
18. Phenylketonuria
19. Autosomal recessive deafness (GJB2, DFNB1)
20. Angelman Syndrome
21. Fragile X Syndrome
22. Huntington's Disease
23. Rett Syndrome
24. Cystic Fibrosis
25. Achondroplasia
26. Marfan Syndrome
27. Klinefelter Syndrome
28. Turner Syndrome