

Brett A. Ueek DMD, MD, FACS

CLEFT LIP AND PALATE: AN OVERVIEW

Multidisciplinary Approach to Cleft Lip and Palate Care – Team Members

- Cleft surgeon
- Otolaryngologist
- Pediatrician
- Orthodontist
- General Dentist
- Prosthodontist
- Geneticist
- Speech therapist
- Audiologist
- Nursing
- Social worker

Introduction

- Anatomy
- Genetics and Incidence
- Classification
- Associated Otolaryngology problems
 - Airway problems
 - Feeding problems
 - Ear problems
 - Speech problems
 - Dental problems
 - Cosmetic problems

Anatomical Disturbances with Cleft Palate

- Primary palate
- Secondary palate
 - Hard palate
 - Soft palate
- Eustachion tube

Incidence

- 1 in 700-750 births in the US
- 1 in 550-600 births in Asians
- 1 in 1000 births in Afro-Americans
- In Czech study
 - CL was 1 in 2243 births
 - CL and CP was 1 in 826 births
 - CP was 1 in 1650 births

Genetics

- Risk in male > female for CL and CL+CP
- Risk in female > male for CP alone

Familial Risk

- One parent has a cleft lip or cleft lip/palate
 - Risk to first child is approximately 4-5%
 - Risk for second child if first child has a cleft is approximately 20%
- If the parent has a bilateral cleft, the risk is higher than if they have a unilateral cleft
- If the parent has a cleft palate only, the risk is approximately 7%
- Sibling has a cleft – risk is approximately 4%
- Second or third degree relative has a cleft – risk is <1%

Classification of Cleft Lip Defects

- Formes frustes

Classification of Cleft Lip Defects

- Incomplete cleft lip
 - Unilateral

Classification of Cleft Lip Defects

- Incomplete cleft lip
 - Bilateral

Classification of Cleft Lip Defects

- Complete cleft lip
 - Unilateral

Classification of Cleft Lip Defects

- Complete cleft lip
 - Bilateral

Classification of Cleft Palate Defects

- Primary palate
 - Alveolar notch
 - Complete cleft
 - Unilateral
 - Bilateral

Classification of Cleft Palate Defects

- Cleft of the secondary palate
 - Bifid uvula
 - Submucous cleft
 - Cleft of the soft palate only
 - Complete cleft palate

Classification of Cleft Palate Defects

- Submucous cleft

Classification of Cleft Palate Defects

- Cleft of the soft palate only

Classification of Cleft Palate Defects

- Complete cleft palate
 - Cleft of the primary palate
 - Cleft of the secondary palate
 - Unilateral
 - Bilateral

Airway Problems

- Airway obstruction at time of cleft palate repair
- Pierre-Robin Syndrome

Feeding Problems

- Failure to thrive
- Nasal regurgitation

Ear Problems

- Eustachion tube dysfunction
- Otitis media with effusion (OME)
- Myringotomy with ventilation tubes
- Atelectatic middle ear
- Cholesteatoma

Speech Problems

- Articulation errors
- Secondary to hearing loss
- Oronasal fistula
- Velopharyngeal incompetence