1 Communicative Impairment Associated with Clefting

2 A Few Introductory Comments
   • high risk
   • with syndromes, more complex
   • range of impairments
   • routine assessment
   • unique assessment
   • intervention varies with time period of Rx

3 Articulation
   • high risk
   • phonetic vs. phonological
   • phonetic
     – errors of place, manner and voicing

4 Unique Errors of Articulation
   • degraded manner of production
   • compensatory articulation pattern

5 Degraded manner of production
   • weak pressure consonants
   • related to adequacy of structures
   • hierarchy of vulnerability:
     – nasals least affected- glides, -stops -fricatives- affricates
   • voiceless tend to be more “degraded”

6 Compensatory Misarticulations (Appendix 13A)
   • Peterson & Frazone (1990) - 240 kids, 21%
   • errors of place to “compensate” for inadequate speech mechanism
   • articulatory adjustments
     – posterior position of tongue
     – true or false vf adduction
     – abnormal posturing of arytenoid cartilage and epiglottis
   • learned behavior

7 Glottal Stop
   • most common
   • gross substitute for stop consonants
   • produced at level of vocal folds
   • posterior tongue placement

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8  Pharyngeal/Laryngeal stop
1  • articulatory backing
• tongue contacts posterior pharyngeal wall
• substitution for /k/, /g/

2  • Laryngeal not in text
• articulatory backing
• base of tongue contacts epiglottis which contacts ppw

9  Fricative Substitutions
1  • Pharyngeal fricative
• same as pharyngeal stop: constriction vs. occlusion
• tongue base to ppw
• substituted for sibilant fricatives
• laryngeal fricative
• base of tongue contacts epiglottis which contacts ppw

2  • Velar fricative
• constriction back with velum
• sub for sibilants

10  Two others
1  • Posterior nasal fricative
• variability in production
• “flutter frication - tongue with velum/pps
• high, back tongue placement
• accompanied by nasal emission

2  • Pharyngeal Affricate
• simultaneous glottal stop and pharyngeal fricative
• substitution for affricates

11  Pharyngeal Affricate
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12  Other phoneme errors
• phonological errors
• other substitutions (i.e., t/k) not compensatory
• phoneme omission
SLP Considerations

- compensatory articulation; not diagnostic of vpi
- learned phenomenon
- undesirable
- artifact for post surgical assessment
- clinical challenge in retraining