

Most Common Craniofacial Anomaly

Cleft Palate

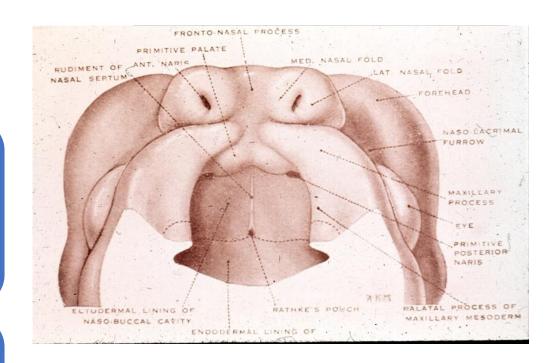
Most Common of all

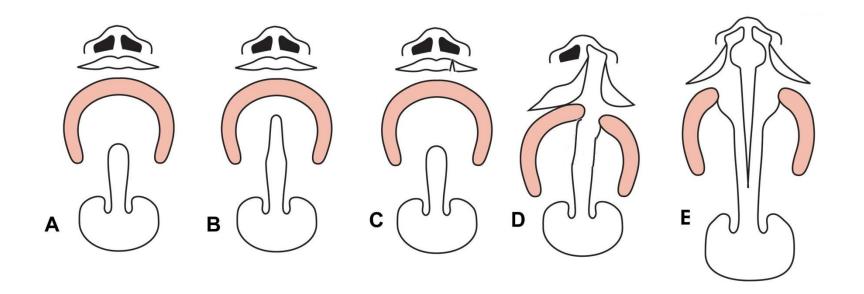
Cleft of the **Primary** and secondary palate



Primary palate

Secondary palate



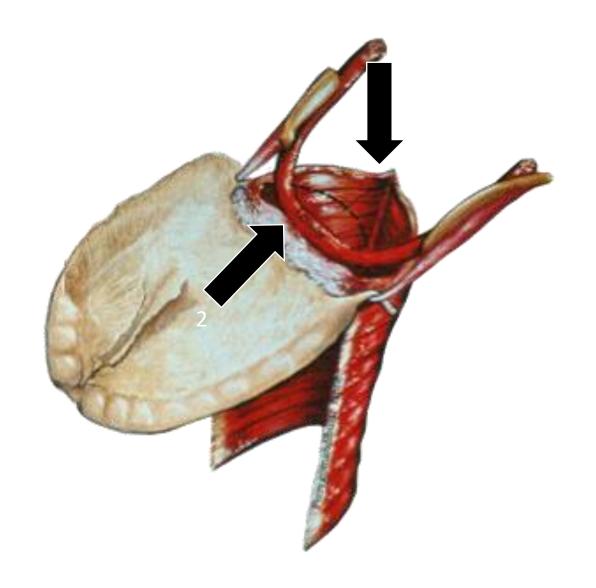


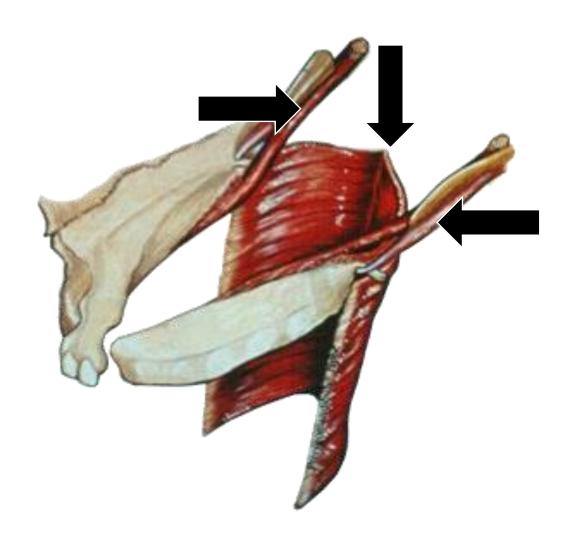
Cleft palate

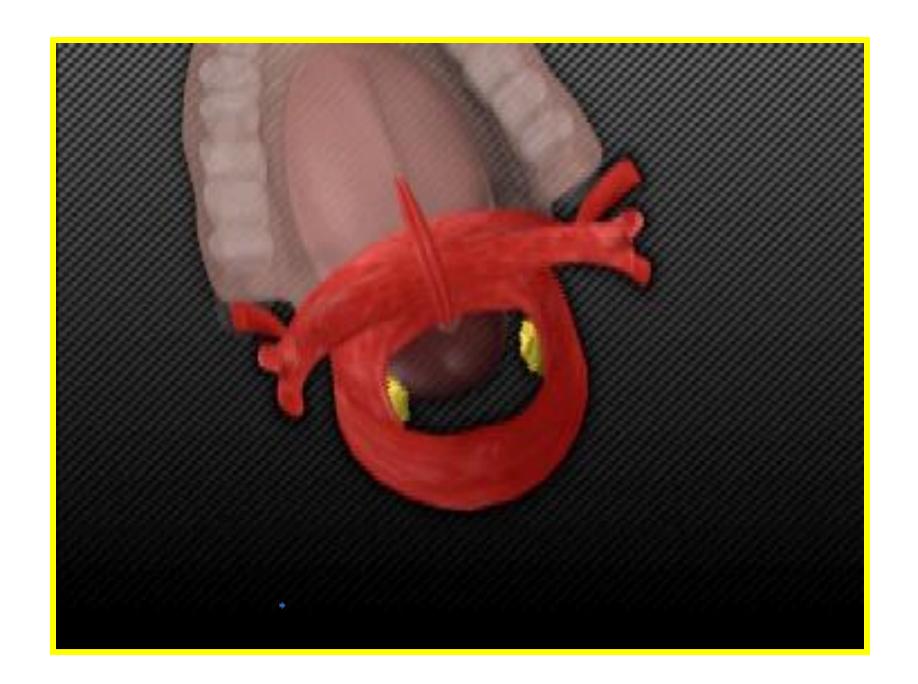




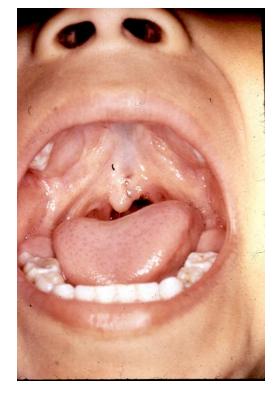
















Submucous cleft palate Occult Sub total cleft of secondary palate (OSCSP)

Submucous cleft (Calnan's triad)

Only one may be present (or none)

Notch is the most frequent feature (palpation)

Dx may have to be Endoscopic



Controversy on timing of palatal repair



Early = Phonologic development



Early = Affects M – F growth

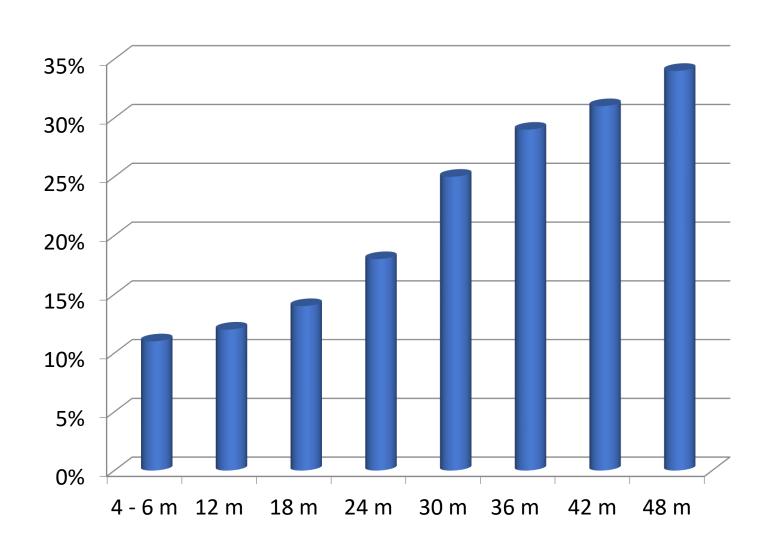


Late = Delays phonologic development

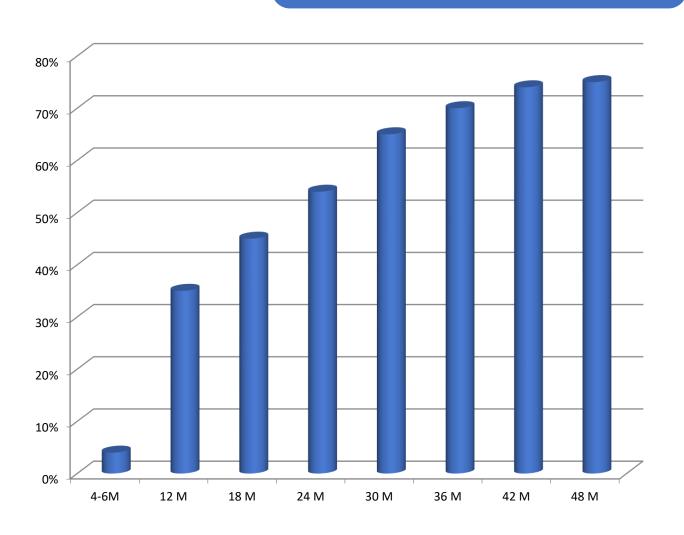


Late = Enhances M – F growth

Age at time of repair and prevalence of V P I



Age at time of repair and prevalence of C A



Hypernasality



Mild (versus normal: poor intra – inter reliability)



Moderate (Still intelligle; always indicate Eval.)



Severe (Affect intelligibility)

Hyponasality





Yes

No

(Nasalance < 20)

Nasal emission





Yes / No



Consistent



Inconsistent

Phoneme specific

Other important variables



Speech understandability or intelligibility



Speech acceptability



Speech quality



With adequate artic placement or phonological processes

With compensatory artic patterns

what part of

"It's NOT ready yet"

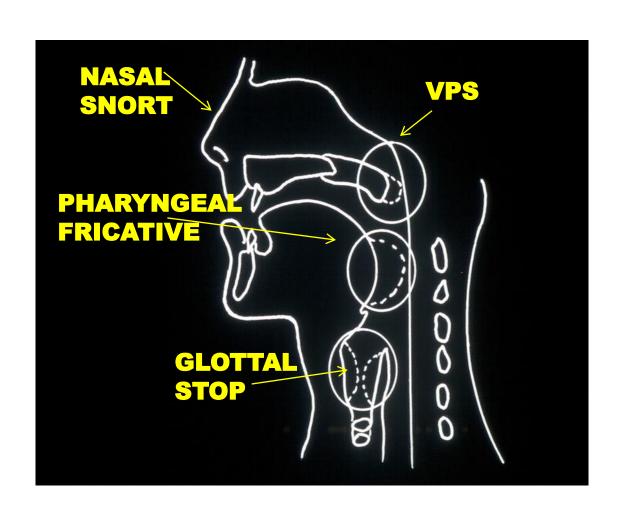
don't you understand?

V P I and Comp. Artic.

SLP treat. Correct V P I only 1% or cases (Comp. Artic)

Comp. Artic. Is not corrected by surgery (but correcting V P I helps)

NO CONFUNDIR LA MAGNESIA CON LA GIMNASIA Compensatory artic patterns: Displacement of adequate articulation placement to aberrant placement attempting to approximate the sound that is perceived





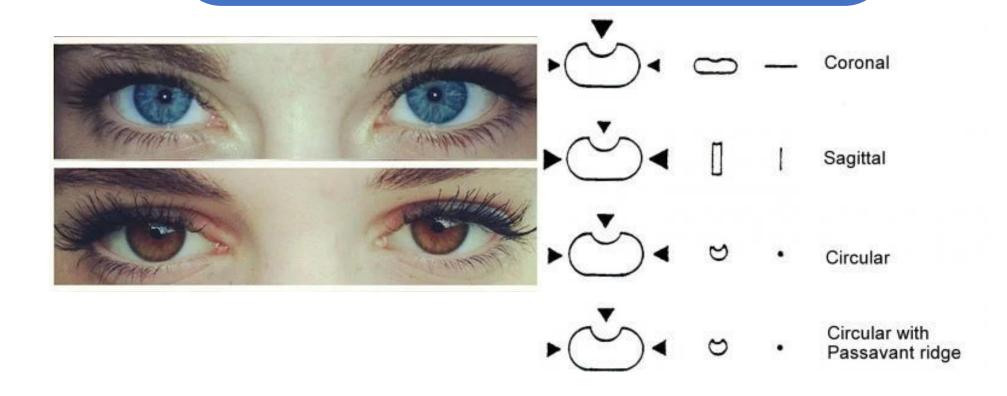




Regulation/Control theory (Warren, 1986; Bressmann, 2018):

Mechanoreceptors in the oral and nasal cavities send feedback of air pressure imbalance, which is automatically compensated with an increase in airflow from the lungs.

VPS Anatomy and physiology varies from individual to individual



Thus...

It is absurd to expect a successful outcome by performing the same procedure in every case





VPI



SHPRINTZEN: "Tailor made flaps"

Customize velopharyngeal surgery according to individual characteristics of the anatomy and physiology of VS

Intraoral examination

Only saying /a/



During /a/ palate may "elevate" or not and it means...Nothing. Moreover, you can see the palate but not the lateral walls

Assessing VP Closure

Seal occurs during phonemes requiring intraoral pressure

In these sounds the lips are...Closed

Imaging is Indispensable!!

NOT WELL TOLERATED

ESPECIALLY IN < 10 YO



November 2020

AJSLP

Tutorial

The Use of Nonspeech Oral Motor Exercises in the Treatment of Children With Cleft Palate: A Re-Examination of Available Evidence

Dennis M. Ruscello^a and Linda D. Vallino^b

Surgical treatment V P I

Same procedure for every case?

How to modify surgical technique?

Define outcome :"Ahi se va"... "Q Tanto es tantito?"...
"Ma O Menos"... "Good Speech"..."It's OK")

OY VEY !!!!



Residual VPI

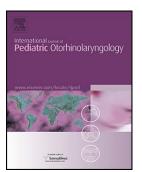
Even the best of the best surgeons will have residual V P I

All C P clinic have to deal w residual V P I (More than you think!)



International Journal of Pediatric Otorhinolaryngology

Vol. 78, Issue 10, October, 2014



Speech outcomes at age 5 and 10 years in unilateral cleft lip and palate after one-stage palatal repair with minimal incision technique – A longitudinal perspective

Jill Nyberg a,b,c,*, Petra Peterson b,d, Anette Lohmander Karolinska Institute. Sweden

C P repair around 1 YO (10 – 18 Mo) After 10 Y Follow-up – Up TO <u>41%</u> undersent pharyngeal flap

C A < 25 %

NEVER PERFORM SURGERY FOR CORRECTING V P I W O Assesment of V P S, including:



A C P A
Cleft Palate
Craniofac J
Jan, 2018

Tonsillectomy

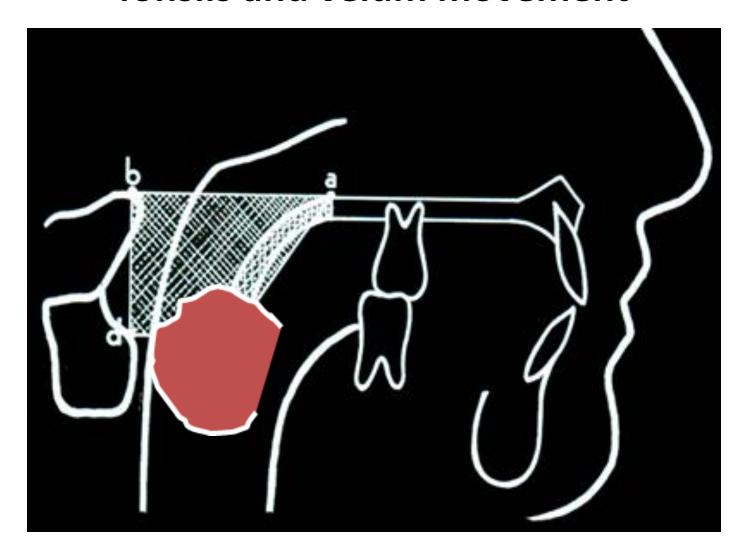
Myth:
Tonsillectomy can
cause or increase
VPI

Au contraire!:
Enlarged tonsils
can hinder velum
movement

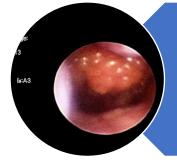
Tonsillectomy cannot cause VPI unless you do it w...



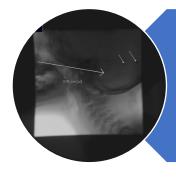
Tonsils and velum movement



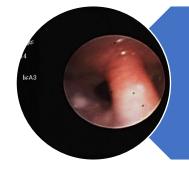
Adenoidectomy



Adenoid contribute to VP closure (but can be obstructive)

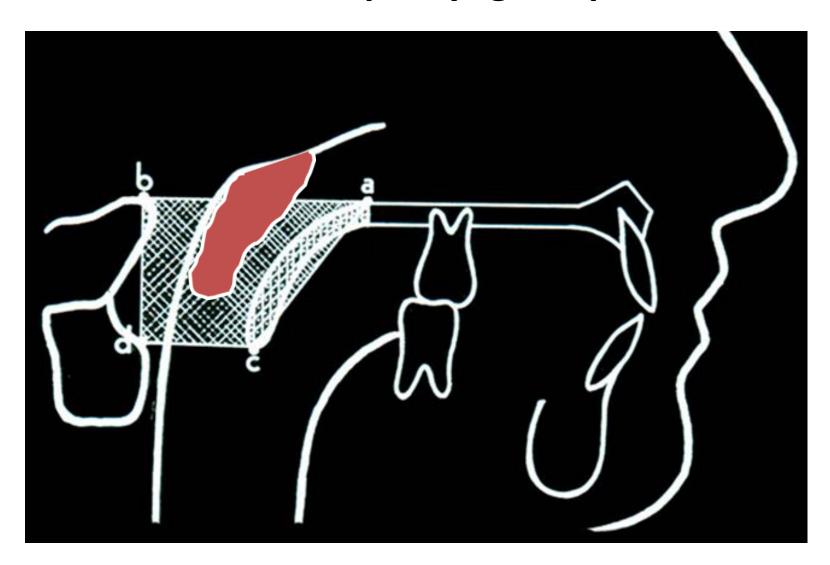


Adenoidectomy can cause VPI (without palatal malformation)

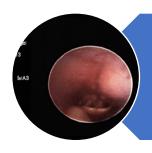


Adenoid are where flap or sphincter should be

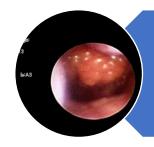
Adenoid and velopharyngeal sphincter



T & A and VPI surgery



.T & A prevent O S A



.Decision based on <u>Imaging</u> not intraoral exam!!



.Total adenoidectomy improves success of V P I surgery

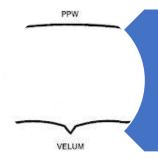
T & A



Never at the same stage of V P I surgery !!



Higher rate of complications



Less success rate for correcting V P I

T & A and surgery for V P I

