The mouth is like a crystal ball.

- but -

The eyes cannot see what the mind does not know.

Keys to prevention:

- Education
- Motivation

Without prevention, a quality health care system will fail.

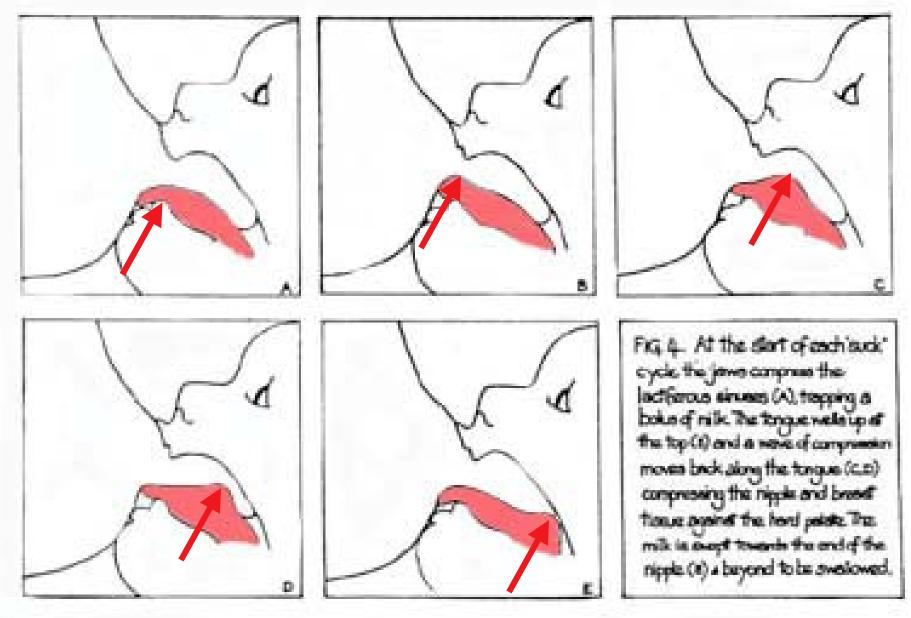
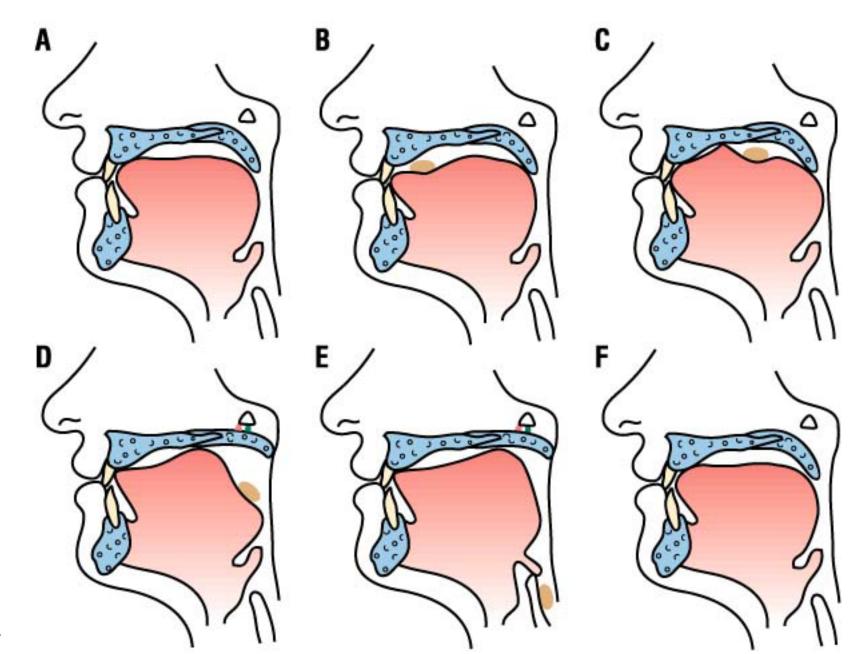


Illustration from Ros Escott article, Positioning, Attachment and Milk Transfer, Breastfeeding Review, 1989, p.35.

Adult Swallow



F4

Morphometric formula

Kushida C. et al., A predictive morphometric model for the obstructive sleep apnea syndrome, Annals of Internal Medicine, Oct 15, 1997; 127(8):581-87.

This is one of the most important formulas in the medical field today!

Stanford Morphometric Model

 $P + (Mx - Mn) = 3 \times OJ + 3x (BMI - 25) \times (NC/BMI)$

P = palatal height

Mx = maxillary intermolar distance

Mn = mandibular intermolar distance

OJ = overjet

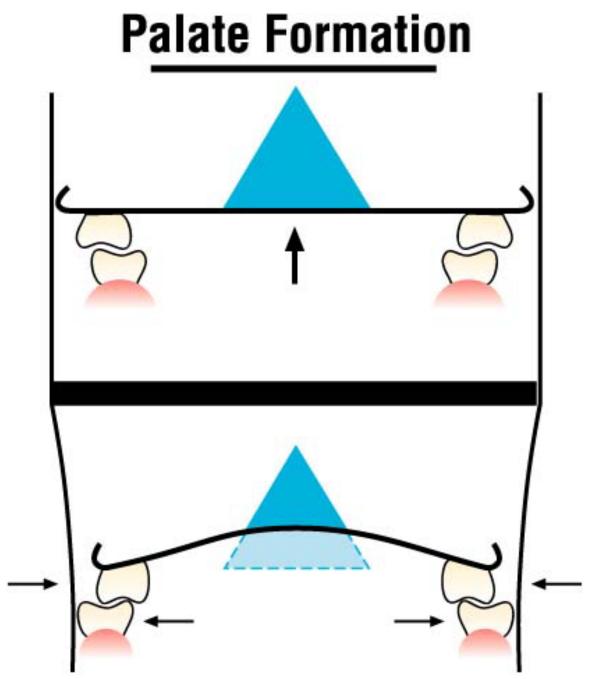
NC = neck circumference

BMI = body mass index

"Model has clinical utility and predictive values for patients with suspected obstructive sleep apnea"

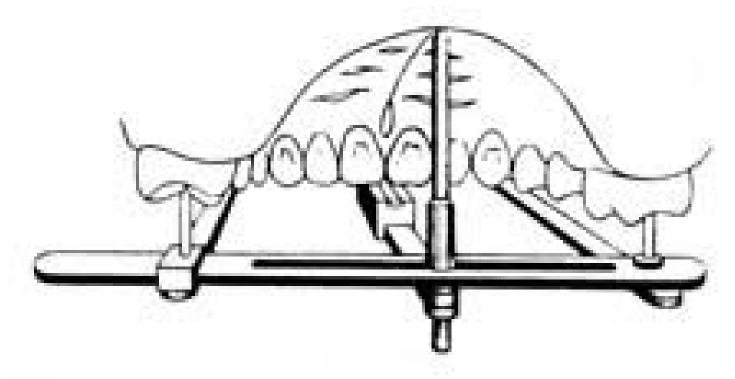
Summarizing formula

Anyone with a high palate, narrow dental arches, overjet, large neck and/or large body mass, is at risk for sleep apnea. If the individual does not have a large neck size or body mass, the predictive value of the formula is based on the height of the palate, arch wide and overjet.



A key illustration to a better understanding of OSA/SDB.

Caliper to measure arch width and palatal height.



Caliper may become a standard measuring device in dental offices.

Caliper described in: Sten Linder-Aronson, Arne Backstrom. A comparison between mouth and nose breathers with respect to occlusion and facial dimensions. Odontol Revy 1960, 11(4):343-376.

The connection:

Bottle-feeding

Excessive thumb sucking

Pacifier use

Snoring

Sleep apnea



Similar signs and symptoms



Calculating Body Mass Index (BMI)

BMI = Weight in lbs. x 704 / height in inches / height in inches.

Ranges for BMI

- Normal 18.5 24.9
- Overweight 25.0 29.9
- Obese 30.0 39.9
- Extremely obese > 40

Key Conclusion

Breastfeeding is one of the most natural of all human instincts. When any mammal is born, and humans are but one species of mammals, the newborn instinctively goes to its mother's breast for nourishment. It is critical for its survival. Of all the mammalian species, only humans have tried to alter that inborn natural instinct.

Breastfeeding is the best way to nurture our young. Bottle feeding will never be better than breastfeeding. Pacifiers can also have a very negative impact on our health as well.

I conclude that breastfeeding IS the key to good health and IS the cheapest form of health care!

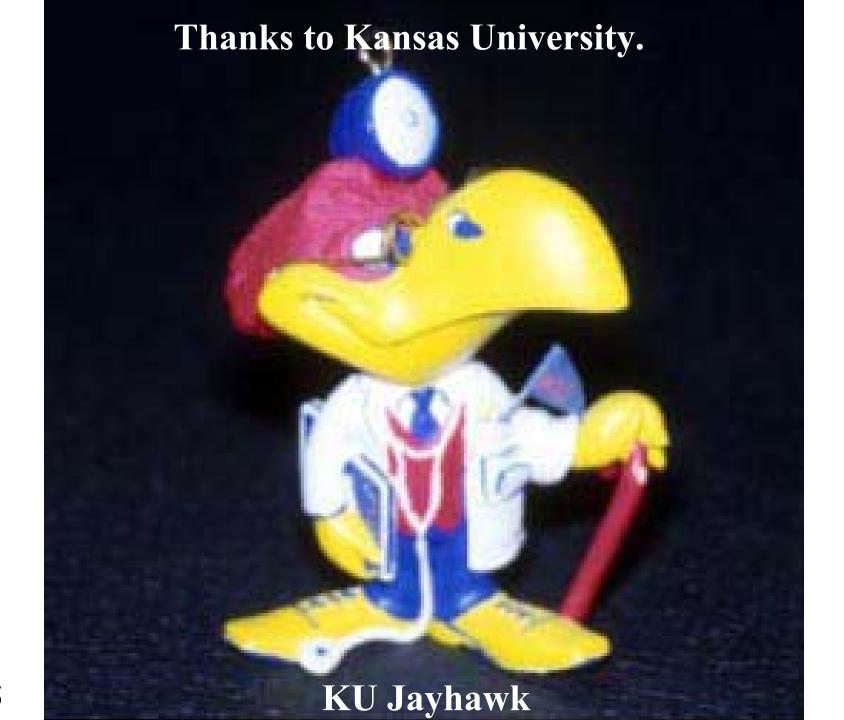
Brian Palmer, D.D.S. Dec. 2004.

The oral cavity is the gateway to overall health and natural beauty.

I hope this presentation has helped you better understand the the importance of the oral cavity / airway.

"Knowledge is most meaningful when shared with others."

Brian Palmer, D.D.S.



For Better Health!

Researched and prepared by:

Brian Palmer, D.D.S. Leawood, Kansas, USA December 2004.