

*

/ / : - / / :

..

..

" "

/

PE2

Student t-test

SPSS

/ /

Archive of SID



() Harries Johnston Moyers

()

Burlington

Decock

()

Gilden Broadbent

()

Thompson Popovich

()

Liebgott

Shah

()

()

Bjork

Akerman

()

()

Jacobson

Baum

Higley

()

Major

()

Popovich Grainger

Ontario Burlington

ear-rod

X

Y

X

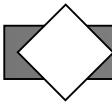
Johnstson

()

() SN

mesh

Moorreess Lebert



() ()

()

()

(/)

)

- (

)

/ - - (

(S) : ()
PTM (Or) (Na) -
(A) (ANS) (PNS)
(IS1) (Pr) (natural head position) NHP
(AP1) ((Id))
(AP1)
(Pog) (B) (Ii)
(Go) (Me) (Gn)
(UMC)

(Ar) (Ba) - (LMC)

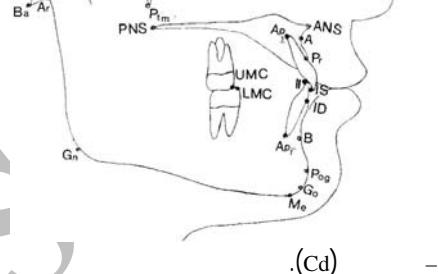
Y X

()

Y X

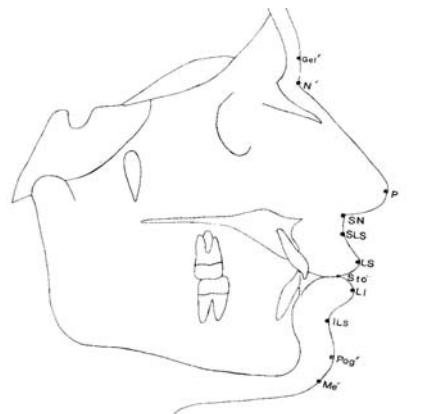
NHP

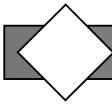
(Cd) -



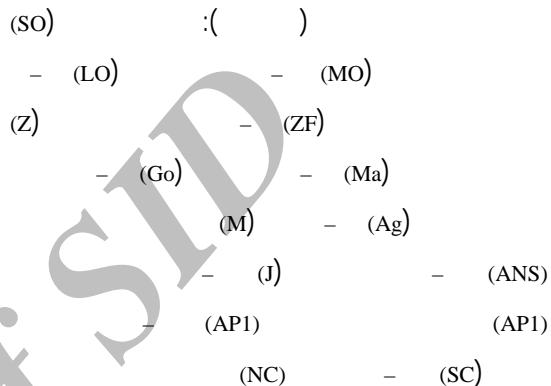
X () (G) (P) (Na')
 Y (Sn) (LS) (SLS)
 Y (Li) (Sto)
 X (Pog') (ILS)
 (Me')

Y X
 Y X
 Y X
 Y X
 ()





Y X



PE2

SPSS

student t-test

$$L = X - / \text{ SE}$$

$$U = X + / \text{ SE}$$

U

$$\chi = \frac{\sum Xi}{n}$$

X n

SO

(CG)

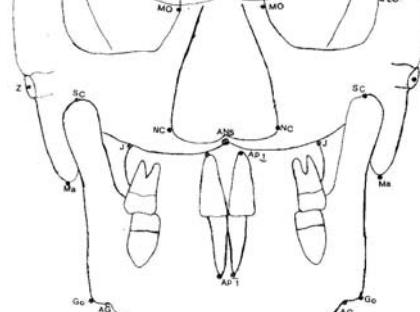
X

Y

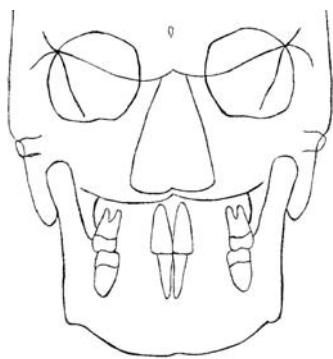
$$\gamma = \frac{\sum Yi}{n}$$

Y

n Yi



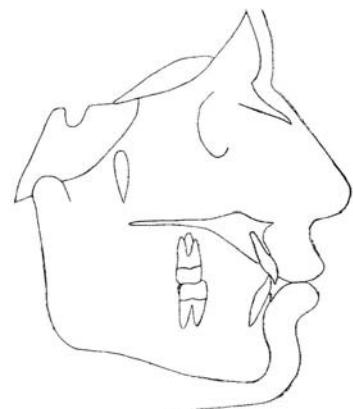
$$S^2 = \frac{\sum (xi - X)^2}{n-1} \quad (\text{SD})$$



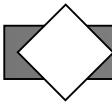
NHP

(N-Pog)
(Ar-Go, Go-B) Ar-Gn)

(S-Go)
(PNS-A)



Ba N S



() () ()

() () ()

()

()

Or S PNS Ptm
Na` Me` Go
S PNS Go
A Ap1 Ii1 sd Ii1

Sn Li SLS N ILS
Pog` LS Me Sto

ILS Me LS Gel`

PNS ANS Or S LMC

Me Go Pog

PNS Ptm Or

Na Ii Ap1 LMC

Sto

Me N Gel` SLS LS Sn

Gel`

Sto N

Pog

/

NHP

) ()

2. Bjork A. Some biological aspects of prognathism and occlusion of tooth. *Acta Odontol Scand* 1950; 2: 1-40.
3. Baum AT. Downs analysis template transparencies for application directly to cephalometric x-ray films. *Angle Orthod* 1952; 22: 142-45.
4. Higley LB. Cephalometric standards for children 4 to 8 years of age. *Am J Orthod* 1954; 40: 41-59.
5. Popovich F, Grainger R. Orthodontic in mid-century. 1st ed. St. Louis: Mosby; 1958. P. 16.
6. Johnston JS. The use of centers of gravity in cephalometric analysis. *Dent Pract* 1960; 10: 46-60.
7. Moorrees CF, Lebert L. Mesh diagram and cephalometrics. *Angle Orthod* 1960; 32: 214-31.
8. Harris JE, Johnston L, and Moyers RE. Cephalometric template; Its construction and clinical significance. *Am J Orthod* 1963; 49: 249-63.
9. Decock VH, Knott WB, Meredith HV. Changes during childhood and growth in facial depth from integumental profile points to a line through bregma and nasion. *Am J Orthod* 1968; 54: 111-31.
10. Broadbent BH, Golden WH. Bolton standards of dentofacial developmental growth. St. Louis: Mosby; 1975. P. 88.
11. Popovich F, Thompson GW. Craniofacial templates for orthodontic analysis. *Am J Orthod* 1977; 7: 406-30.
12. Liebgott B. Cephalometric analysis by using a template. *Angle Orthod* 1978; 3: 194-207.
13. Shah M. An assessment of asymmetry in the normal craniofacial complex. *Angle Orthod* 1978; 48: 141-48.
14. Akerman RJ. The Michigan School study cephalometric norms expressed in template form. *Am J Orthod* 1979; 75: 82-90.
15. Jacobson A. The proportionate template as a diagnostic aid. *Am J Orthod* 1979; 75: 159-72.
16. Major, Donald E, Hesse KL, Glover KE. Landmark identification error in posterior anterior cephalometrics. *Angle Orthod* 1994; 64: 447-54.
- ...
:()
18. Broadbent BH. Some recent observations on the growth of the face and their implications to the orthodontist. *Am J Orthod* 1937; 7: 183-208.
19. Steiner CC. Cephalometric for you and me. *Am J Orthod* 1953; 39: 729-55.
20. Richardson M. Measurement of dental relationship. *Eur J Orthod* 1982; 4: 251-56.
21. Jarvinen S. An analysis of the variation of the ANB angle. *Am J Orthod* 1958; 87: 144-46.
22. Robertson NR. The Wits appraisal of a sample of the South Wales population. *Br J Orthod* 1980; 7: 183-84.
23. Bishara SE, Pereson LC. Longitudinal change in the ANB angle and Wits appraisal. *Am J Orthod* 1983; 84: 133-39.
24. Taylor CM. Changes in the relationship of nasion point A and point B and the effect upon ANB. *Am J Orthod* 1969; 56: 143-63.
25. Jacobson A. Radiographic cephalometry from basic to videoimaging. 1st ed. Chicago: Quintessence Pub; 1995. P. 229.
26. Proffit WR, Fields HW. Contemporary orthodontics. 3rd ed. St. Louis: Mosby; 2000. P. 148.