CONCLUSIONS

ZERO POINT APPLICATIONS

DENTAL VERTICALITY

We have analyzed skull architecture with linear and angular measurements, data shows positive loadings in dental and basal interlandmark distances. Among the dental landmarks the one with the most linear and angular dental and basal correlations is pt4 (midpoint between the first and second premolar).

INTRODUCTION

From the analysis of numerous clinical cases it emerges that the dental arches analyzed and measured in a three-dimensional orthogonal system show that there are teeth that have higher verticality than others.

OBJECTIVES

The dental verticality calculated on the plaster models according to our method represents a fundamental parameter in the individual diagnostic and therapeutic protocol of the orthognathic patient in evolutionary phases of craniofacial growth.

MATERIALS AND METHODS

We selected a sample of about 500 plaster models of individuals in evolutionary phase developed during orthopedic jaw therapy the models have been developed with the same method by a single odontotecnic laboratory

WHY THE ZERO POINT?

It’s an equilibrium point and a reference point of an orthogonal and spherical system.

NEW LANDMARK

- vc4 vc5 pc5
- pt4 basal point = zero point (Scioletti)

The verticaility of the molar deciduous is further acquired by the first permanent molars.

RELATIONSHIP BETWEEN:

- Basal zero point with the basic cranial flexion-extension
- Hypo and Hyper divergence of growth

CONCLUSIONS

The choice of the occlusal plane as the primary plane of the reference system

The verticality of the occlusal plane is crucial in guiding orthodontic treatment.

THE CHOICE OF THE OCCLUSAL PLANE AS THE PRIMARY PLANE OF THE REFERENCE SYSTEM

For this selection we rely on the works of different authors:

Rudolf F. Hanau (1881-1930)
The first author who has arranged the occlusal plane on a horizontal plane has been Hanau with his "rocking" occlusion theory, according to which the occlusal plane sits on the vestibular cusps of the 4 premolars.

Wilhelm Baehr (1893-1973)
The occlusal plane is on the same plane as the atlas and both are on the horizontal plane.

Michel Clauzade / Jean Pierre Marty

The verticality of the molar deciduous is further acquired by the first permanent molars.

Functional Orthopedics
Cephalometry... starting from measurements in 3D carried out on plaster models, we developed mathematical functions "Trigonometric algorithms" which allow us to calculate measurements, cephalometric linear and angular.

Prosthetic Rehabilitation

Functional Posturology
In our opinion, it represents a dominant neural information (proprioception and exteroception) correlated with the other receptors of the individual's global postural system.