

15th Euro Congress on

DENTAL & ORAL HEALTH

October 24-26, 2016 Rome, Italy

A precise radiographic protocol before insert orthodontic mini implants as a maximum skeletal anchorage

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As we now in the last decades mini-implants have gained popularity in orthodontics field, precise placement of mini-screws is a critical point to the success of the skeletal anchorage, thus a careful clinical and radiographic diagnostic before insertion mini-screw is a essential requirement to achieve the central point of the radicular septum or another critical maxillary area, the correct execution and application of these pre-surgical procedures should avoid possible iatrogenic damages in periodontal ligament, dental roots, nasomaxillary cavities, or even important vascular tissues. As of today, periapical radiographs is a regular and swift pre surgical procedure during miniscrew insertion technique, but it provide only bidimensional images. Nevertheless, accurate execution of the radiographic parallax technique can offer us useful and precise radiographic information to decide the right local insertion of miniscrews in to the septum bone. The purpose of this report is to describe the fast application of new positioning circular guides in conjunction with a parallax radiographic protocol before place orthodontic mini-screws into the interradicular bone space.

Key words: orthodontic mini-implants, miniscrews, radiographic protocol, chirurgic guide, skeletal anchorage

Biography

Nicolas Zaragoza Velazquez has completed his Ph.D at Paulista State University from Sao Paolo Brazil. He is professor researcher in Orthodontics at the Autonomous University of Aguascalientes in Mexico. He has published papers in local and Brazilian journals Dr. Velazquez worked in many research projects involving the rapid palatal expansion in normal and fissure patients, later he focused in the field of dental adhesive materials (Universal systems adhesives) and he made a study of Prevalence of the third molar impacted in dental school students, lately he worked developing new radiographic surgical guides to place self drilling orthodontic minicrews with safe and endodontic ring miniguide to localize radicular resorption and for apicectomy and microsurgical procedures. Dr. Velazquez belongs to a number of professional organizations, including the Brazilian Orthodontics Association, Ibero American Dental Federation. He is also involved in many committees like (Member of the Commission (Dental Health Care) of Oregon – Mexico Health Professional Exchange 2002-2004

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