

STAUB
CRANIAL™



800-767-5303



Mathematical calculation is a completely new approach, which sets new standards in dentistry and dental technology. Clearly defined reference points, unknown to date in dentistry, have replaced relative reference parameters. Making available for the first time a process for calculating a patient's natural dentition, regardless of his or her current dental situation.

PREDICTABLE RESTORATION

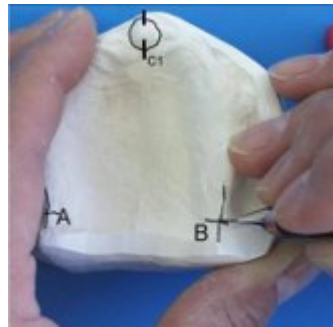
What makes the Staub™ Cranial Dental System so accurate? The answer lies in the fact that the system uses reproducible parameters called Cranial Reference Points. Using these points a dental professional is able to mathematically calculate where the teeth in the restoration need to be placed. This system can be applied to both fixed and removable restorations and will insure a highly accurate and predictable restoration every time.

The cranial reference points have been proven to be anatomically stable and present in every patient. Because these points are stable, their identification can be done with any model produced from a quality impression. In the following article we will describe these points on the maxillary model, and show you how the cranial reference points are used to produce a Model Map. With the Model Map you can see exactly how to place the teeth in the restoration, fixed or removable.

CRANIAL REFERENCE POINTS

The cranial reference points on the maxillary model are determined based on an integral approach to the masticatory apparatus. For the first time in dentistry, parameters are defined exactly and can be demonstrated scientifically on every model.

If these points are then placed in relation to each other, they fulfill the mathematical property of symmetry. The specific points are referred to as: Direction Points, Induction Points, and the Conclusion Line



DIRECTION POINTS

Direction Points are at the point on the ridge connecting line that exactly determines the change in direction in the curve of the pterygoid hamulus. It has a stable topography and is present on both sides.



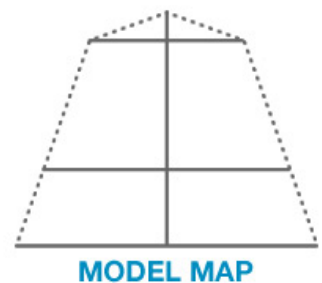
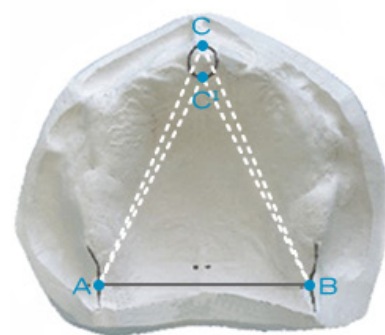
INDUCTION POINTS

are at the point of intersection at the anterior and posterior contour of the incisive papilla and the median axis (suture line). The anterior induction point is the only cranial point which is not anatomically stable.



CONCLUSION LINE

is present on both sides of the labial frenum and is anatomically stable. It forms the boundary between mobile and immobile mucosa and determines the change in position in the curve of the mucolabial fold.



Connecting the lines between direction points (A and B) and the induction points (C and C1) results in two isosceles triangles. These parameters are used to calculate the Staub pena area, which is defined as the base of the orthocranial occlusion plane

TOOTH PLACEMENT

The discovery that Mr. Staub instigated shows that measurement of the points A, B, C, and C1 form an exact isosceles triangle (with two equal sides). Once this fact was established, mathematical algorithms were developed by studying natural tooth placement relative to these initial points of reference. Mr. Staub conducted an exhaustive research of over 5500 models. In every case the natural tooth placement was accurately determined through measurement of these base reference points.

DOCUMENTED RESULTS

Freiburg University Study

During his research on more than 5500 different models, K.H. Staub was able to demonstrate constant parameters in both the maxilla and mandible, which had been unknown in dentistry up until now. This research has resulted in the creation of the Staub™ Cranial Dental System.

This article shows the results of a study done by Freiburg University Hospital that the Staub Cranial Dental System is 95% accurate.

Freiburg University Hospital, Germany

Outpatient Clinic for Dental Prosthetic Medical Director: Prof. J.R. Strub

Autoren: ZA Panos Lampropoulos, Freiburg

Dipl.-Math. Dr. Thomas Gerds, Freiburg

PD Dr. Jens C.Türp, Freiburg/Basel

Reconstruction of tooth positions using the Staub Cranial System Aim: The Staub Cranial System, developed by master dental technician Karl-Heinz Staub (Neu-Ulm, Germany), is based on defined anatomical reference points which should be present in every jaw model with unalterable positions. The aim of the study was to check the

ability of the Staub method to reconstruct the former position of lost teeth in an edentulous jaw.

Materials and methods: Two maxillary alginate impressions were taken and filled with hard plaster in each of 20 completely edentulous subjects with no history of orthodontic treatment. All teeth were erased with a plaster cutter in one of the two models made for each participant in the study. Master dental technician Staub, who was unaware of the baseline situation, drew up a list of tooth positions for each of the 20 edentulous models. The spaces were subsequently determined between the mesiobuccal cusp tips of replacement teeth 16 and 26, between the canine tips of replacement teeth 13 and 23, and between the cutting edge of replacement tooth 11 and the highest point of the gingival margin.

Measurements were made using the principle of stripe projection, a non-contact method of recording surface contours, and using specially developed software (Topoline; Institute of Laser Technology in Medicine and Measurement Technology at Ulm University, Germany). The 20 control models were measured in the same way. Then the number of reconstructed models was determined whose distances measured deviated $> 5\%$ from the mean values of the distances measured for the 20 control models.

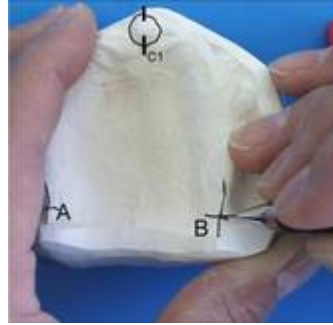
Results: Study shows the estimated rates at which a tooth position can be reconstructed with no, one, two or three deviations. Tooth positions could be reproduced with no, or at the most one, deviation in 80 % of the models (95 % CL = 56-94%).

Discussion: The results indicate that the Staub method is astonishingly well able to reconstruct the former position of lost teeth.

DENTURES

One of the most difficult restorations achieved in dental technology is full mouth edentulous cases. Resorption, (bone loss) improper registration of jaw alignment, and difficulty in taking full mouth impressions all contribute to problems in manufacturing. The amount of time and procedures involved in this kind of restoration often lead to poor cost profitability. Unfortunately many laboratories have used cost cutting measures that have resulted in shoddy workmanship.

Staub Cranial dentures are cost efficient and easy to manufacture. Mathematical assessment of tooth placement provides the technician the ability to manufacture only the highest quality denture with cost efficient consistency.



DIRECTION POINTS

Direction Points A & B are located slightly posterior to the hamular notches on a small process of bone structure called the pterygoid hamulas. This is at the base of the sphenoid bone structure and is symmetrical on both sides of the crania.



INDUCTION POINTS

Induction Points C & C1 are located on the labial and lingual positions of the incisive papilla where the papilla interconnects with the median suture line.



CONCLUSION LINES

The conclusion lines are located at the junction of the mobile and immobile mucosa or where the lip attaches to the alveolar ridge. This is located on a stone model by drawing a line from the top of the ridge towards the labial vestibule until the pencil veers off where it meets the attached soft tissue. Draw several lines until a pattern is achieved. Do the same on the other side of the labial frenum.

COSMETIC SOLUTIONS

The dawning of the “Cosmetic Revolution” brought with it many challenges not faced before in dentistry. Patients were able and willing to fix dental problems so they could have beautiful dentition even in their later years of life. Many of these patients have gone for years with broken down and worn teeth. This created the need for not only tooth restoration but proper jaw realignment. Manufacturing restorations that are cosmetically pleasing but also fit and function properly in the mouth create a monumental task.

With Staub Cranial technology restoration are manufactured to properly fit and function in the mouth. Proper alignment of teeth provides a natural appearance creating a beautiful “cosmetic” smile.

IMPLANT RECONSTRUCTION

Implant reconstruction of the dental environment has proven to be a viable and long lasting restoration. Many of the initial failures have now been remedied and dental practitioners are now turning more and more towards this

reconstructive procedure.

If you talk to dental technicians they might tell you of the many implant “nightmares” they have faced over the years. These instances all stem to the improper placement of the dental implant. Cooperation between the Dental surgeon and the technician has proven more successful yet the technician does not always have the needed information to provide to the dentist.

Staub Cranial technology uses mathematics to formulate proper tooth placement. A technician can then use this information to manufacture surgical stints used by the dental surgeon to place the implant in a proper physiological position.

NO MORE RESETS

Could it really be possible to have no more resets! What would that do to production costs, profitability, and cost of materials!

With Staub Cranial restorations are produced with mathematical accuracy, which leaves very little if any room for error. Doctors, technicians, and patients will be pleased with the results.

Start using Staub Cranial today and throw those resets and redoes away!

BUSINESS BUILDER

Dentists are looking for the lab that can help them with their difficult restorative decisions. Staub™ Cranial gives the doctors a patient specific physiologic envelope from which to make decisions about midline, incisal plane, over all vertical dimensions and placement relative to the joint. Your lab becomes the go-to-solutions, the preferred choice for restorative services.

TESTIMONIALS

“For the past year I have had the opportunity to utilize the Staub Cranial System for several full denture cases and be present in the operatory for the clinical appointments. In every case the dentist and the patient were thoroughly impressed with the results. The biggest advantage for the customer is the ease in establishing jaw relations with the system as well as reducing the number of clinical appointments. The accuracy achieved with this system is remarkable and I would not hesitate to recommend it to any technician or dentist.”

Bruce Keeling

Staub Cranial is the only system in my 24 years of removals that articulates the master cast and mathematically positions teeth from your impression. No upper wax rim and with basic understanding of model analyzes you will be able to approach any dental situation, with a completely different view. It truly is as easy as 1,2,3 impression,

try-in and finish. It takes away all the guess work!

Barbara Blanchette CDT

Owner

B&R Dental Lab

San Antonio TX

"For 35 years I settled for the "guess and reset" technique for making full dentures. I was skeptical of the claims that were being made by Staub Cranial; accurate tooth positioning with near zero resets. Even after I had taken the innovative training, I was skeptical. When I returned to the bench and began using what I had learned, I was flabbergasted! Not only was it successful, I was able to set a full upper independent of the natural lowers, and after mounting to a bite, the midline and overbite/overjet were dead on! It may sound impossible, but I proved it over and over again. Staub Cranial may be the best, most revolutionary concept in full denture construction since George Washington's ivory and wood set."

Gary Pericak

WOW!!! I am a skeptic no more!!! The STAUB CRANIAL SYSTEM has it all. Our level of treatment planning and success has come to new levels of precision when previously at high levels.

The training is the best that I have ever taken. The support is outstanding. The staff at Select Dental Supply are excellent. If you want to be involved in the future industry standard Take this course and buy this system. The uses and possibilities are still being rewritten every day.

This system is attracting so much new business for us that our removable only lab will be full service within the near future.

Brian Sedgwick

Owner

Sedgwick's Dental Lab

Sacramento CA

"My initial reaction to the Staub Cranial was that this was yet just another twist for setting denture teeth. What I discovered was exactly opposite.

Staub is a revolutionary breakthrough technique, which uses scientific measurements for the accurate placement of denture teeth --eliminating guesswork. Far superior to any conventional methods, I see a day in the near future where it will rapidly become the most accepted way in dentistry to set artificial teeth, not to mention numerous other prosthetic applications."

"The results are hard to overlook. Saves both the dentist and laboratory precious time and money -- positively impacting the quality of their work, building shared business successes as well as improved patient relationships."

Stanley W. Wilcox, CDT

DSG Davis Dental Laboratory

I have been making dentures for quite a few years. Staub is the first set of instruments that will make you start at the same point every time. So if something does go wrong, at least you know where you started. This will help you find the problems with a case. It will also help you treatment plan large difficult cases.

Especially implant cases where you spend a lot of money on parts. I have done over 100 cases with great results. You will also notice there are less resets and less patient visits. The time savings to the doctor and patient are also a plus. I would recommend this system to anyone who is interested in high end results.

Mike Lerch, CDT



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