

## APPLICATION OF THE HERBST APPLIANCE AND ITS MODIFICATIONS IN ORTHODONTIC PRACTICE

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**ABSTRACT:**Herbst device occlusion of the 2nd class in treatment alone in case use need not \_ Modification in the form of there is a lot of it in bricks fuchsia tool as use can , for example lower jaw teeth between the distance to close for support will be branches as use can \_ Even Herbst Lingual brace device system with together when used temporary support function executor from devices using teeth between distances from closing according to faster to the result achieved note done.

**KEYWORDS:** Herbst appliance, Comparison, support problems.

**Intended goal:**This from research the goal modified , cast tire Herbst hardware used in case surgical method treatment measure alternative as 1 year during the 2nd grade bite types treatment and him analysis to do

**Actuality of the subject:**Dentist for productivity , daily practice with engage in and good and good quality result occlusion of the 2nd class in treatment used unobtainable devices development and types increase take came \_ This research Herbst of the device to the bones of the face and jaw effect , face in the profile changes , muscles movement , support problems , ( mandibular cutting teeth protrusions ) clinical complications , hardware design and surgical treatment and Herbst appliance with 2nd class occlusion treatment between comparisons such as wide in quantity studies own into takes \_ Comparison for Herbst appliance one how much modifications designs there is That's it Achamian welded and casting tire devices types usually to the individual special way design will be done . Other occlusion of the 2nd class by treatment for addition mechanisms are also available and they are brace system with together is used and ready in case mawood will be

Herbst device occlusion of the 2nd class in treatment alone in case use need not \_ Modification in the form of there is a lot of it in bricks fuchsia tool as use can , for example lower jaw teeth between the distance to close for support will be branches as use can \_ Even Herbst Lingual brace device system with together when used temporary support function executor from devices using teeth between distances from closing according to faster to the result achieved note done \_

Herbst of the device support tool as and his modifications various treatment remedy events for use \_ orthodontics easily come in came no , from him except this about in the literature very short data there is

**Materials and methods:**All patients work details TDSI Orthodontics and teeth prosthesis in the department orthodontics practices received Orthodontic treatment criteria Herbst appliance and him from modifications using treatment own into received Modification types , numbers and How fast meeting standing of patients files , x-ray images , pictures and models based on cause released. In the clinic and in practice all in patients Herbst of the device casting tire from the form was used . Average age  $15.6 \pm 5.61$ . 53.3% patients a woman 46.7% of patients by gender male gender , Herbst apaparti with being treated are patients .

Modification type , individual modifications to meet speed and number of patients documents , X-ray images , models , pictures using was determined .

**Discussion:** In literature teeth not developing to stay cases ( aplasia ) in approximately 6.7 % of cases occurs that given . This is in 41% of cases lower jaw 2nd premolars, 13% lower jaw 1st premolars . In class 2 occlusion support problem that's it with solution can lower jaws molar teeth mesialization and lingual braces together application about studies are also available. Casting tire hard bimaxillary Herbst device occlusion of the 2nd class treatment mechanisms one is counted . In this mouth marks telescopic mechanisms with bottom the jaw defined in position opening providing gives . This in search only casting tire modified Herbst from the device was used . High and the lower jaw is different different in the teeth support on duty use possible that it was because of him a lot functional support appliance as to use can \_ Herbst appliance if occlusion of the 2nd class to be in scores passive support also use as can \_ If in a class 2 occlusion jaws attitude addition correction Demand if done Herbst the device is the most effective selection . A teenager during growth process climax past since he left after or this of the period the end Herbst of the device ideal time to install is counted . This in research average age 15.6.Herbst appliance elainer with together with ( photo 1) orthodontics in practice is used .



**Figure 1.** Herbst appliance elainer with together orthodontics in practice application

**Results:** Diary orthodontics in practice in 12% cases Herbst from the device is used , that's it 18% of the amount is modified in case Herbst of the device high support quality and power-effect 2nd class occlusion geometry classic treatment measures addition respectively very suitable \_ comes. The lower jaw is chewing teeth distalization for 27% (12) patients Herbst appliance distalization mechanism with together used \_ 15% of patients ( 7) lower jaw mastication teeth between the distance shorten in order to support tool as used \_ The distance save stand up bar construction in 9% (4) patients used and in 7% ( 3 ) cases Herbst from the device dystopian teeth in leveling used . One in hardware a lot partial modifications to meet condition is 11% ( 5 ) . did \_ This time during university medicine in the center many p partial modifications and Herbst of the device quadrohelix appliance with combination there is it didn't happen .

**Conclusion:** Diary orthodontics in practice in 12% cases Herbst appliance is used and therefore 18% modified is the type . Herbst of the device high support function , class 2 occlusion cure - measure in events , time and money economy with together a lot functionality support task trowel increase enable gives \_ Herbst appliance treatment to measures depending on the individual modification to

be brought to the situation can \_ Treatment process adolescence from the era next to the period right \_ coming if cure for to go the time again seeing exit need \_ Many p partial modification possibilities yet complete not studied . Planned lower jaw molar teeth in mesialization temporary support devices Herbst appliance such as bimaxillary unobtainable from hardware according to a lot of times since using is coming .

### Literature:

- 1 Speech Disorders In Children With The Deformation Of The Dentoalveolar System And Their Complex Treatment/ European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 07, Issue 11, 2020 pages – 2486-2490(SCOPUS )/ RN Nigmatov, IMNigmatova , FA Shamukhamedova, MONodirkhonova, UMRazzakov, RAKholmurzaev, MBAralov
2. Carstairs V. Multiple deprivation and health state. *CommunityMed* 1981 ;3:4 -13.
3. Hassel B, Farman AG. Using skeletal maturation evaluation cervical vertebrae. *Am J Orthod Dentofacial Orthop* 1995 ;107:58 -66.
4. Senn S. Some controversies in planning and analyzing multicentre trials . *Stat Med* 1998 ;17:1753-65 .
5. Baton S, Cook PA. Predicting functional appliance treatment outcome in Class II malocclusions—a review. *Am J Orthod Dentofacial Orthop* 1997 ;112:282 -6.