HMSU Head-Mounted-Support-Unit

Headrotation as auxiliary.

Device: Digital ancle-reader for mensuring headrotation(horizontal)

Purpose: Shows evident changes of headrotation after manipulation under the feet, which is proofable, because operating through the musclechains and posturesystems.

Headrotation, what here means the abillity doing left- and rightturns with the head, is measured by help of an linelaser and an anclereader(gyroskope).

Therfore can be shown:

- Behavior of pedo-cranial, myofascial chains, and with it:
- Effects being caused by insoles, shoes, leg-lengthegalisation, bootedgetreatment, optical glasses, okklusion, ...

To evaluate headrotation the following is set:

- 1. Handicaps, blockages and pain, no matter which bodyfloor, gives interferences to normal movement. Within there are effects to headrotation.
- 2. Manipulations(insoles, shoes, shoetreatment) no matter what kind, make positive, or negative effekts using the postural struktures(skeleton, joints, muscels, myofascial chains, sensomotoric system,...) from toe to head.
- 3. So, when manipulation is set, someone will be able to show and proof the changes in statics, when its measurble in the topjoint(atlas-skull base)

Meassuring:

- The patient is standing on a plane square(Podoskope)
- Now, the posture of head, neck, shouldes, spine, pelvis, legs, knee and feet is fixed to a paper(anamnesis-form / draft)
- Next, the device is set onto the head of the proband and program gets started.
- CAUSION: Degenerative deseases with the Neck-Spine!(mention before!!)

 The patient gets the order to fix the green laserline to the middlfront-point ahead from him. This calibrates the meassuring!
- 1. Headrotation, caught in barefoot position.
 - This is the **basical mensur**, which returns reference to the following acts.
 - For results, the client is told to rotate his head first left as far as possible, than right. Fix the shoulders.
 - The head mounted goniometerdevice captures movement and send the data to the computer. Being caught:
 - date, time
 - A°- startingpoint, L°-leftturn, R°-rigthturn
 - added are two more cullums for further notice.
 - The program finishes the measurments by itself.
 - The results are shown a)graphic, with an anclegraded disk, and b) numeric in table.
 - So, changes and differences are displayed and a quickly and direkt rating/evaluation is possible. The application is easy, quick, and very pricicly,
 - The results are comparable as being fixed to an external point!
- 2. Now, this procedure will be repeated, by using traedment.
 - \geq getting higher results, means more turning than "barefoot", we rate as positiv effekts.
 - \geq getting lower results, means less turning, the treadmnet needs to be changed or other points should be considered.
- Mensurings to jawjoints, okklusion, or visus are possible
- In an easy way, its also possible to transver the results to a tableprogram(csv)

The meassurements which are drawn by later control-appointments may easily be used to show the range of treadment, therapieprocess and success-controling.













