

THE USAGE OF THE HUMAN UPGRADE DEVICE TAOPATCH® IN THE FACIAL REGION IN ADULTS AND CHILDREN

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Aim: To study the effect of Taopatch® in adults and children from dental point of view - improvement in the mouth opening and pain relief during palpation.

Materials and Methods: 149 patients (73 adults, 76 children) have been examined before (pre) and after (post) the application of Taopatch® type TMJ (Pic. 1, 5). Mean age for the adults: 33.52±9.37, for the children: 10.62±2.49.

The pain was determined with a 0-to-10-scale. The temporal tendon insertion on the medial aspect of the coronoid process was palpated with the index finger intraorally both on the left and on the right side (Pic 2, 6).

The maximum opening of the mouth was measured in mm by one and the same investigator using a metal ruler Dentaurum (Pic 3, 7). Three measurements were done for each patient before and after the Taopatch®: maximum opening of the mouth, pain during palpation (on the right R and left L sides). The applicator was placed in front of the tragus. After applying the human upgrade device, the patient had a glass of water and walked 50 steps, moving energetically. The statistical analysis included descriptive statistics and the Paired samples T-test. (Tab. 1, 2) (Pic. 4, 8)

Results:

1. Improvement in the measured parameters with the Taopatch® TMJ on has been observed in all the examined patients.
2. Both adults and children reacted positively to the therapy and the results were immediate.
3. In adults the max opening has increased from 48.36±6.715 mm to 51.43±6.463 mm ($t(72)=11.255, p=0.000$). The pain on the right side during palpation has reduced from 4.89±2.547 to 3.15±2.301 ($t(72)=10.813, p=0.000$). The pain on the left side has reduced from 4.89±2.325 to 3.32±2.185 ($t(72)=9.728, p=0.000$).
4. In children the max opening has increased from 45.48±6.871 mm to 48.45±6.867 mm ($t(75)=13.838, p=0.000$). The pain on the right side during palpation has reduced from 5.70±2.683 to 3.74±2.479 ($t(75)=8.993, p=0.000$). The pain on the left side has reduced from 6.38±2.612 to 4.24±2.427 ($t(75)=9.421, p=0.000$).

Conclusion: The human upgrade device Taopatch®TMJ is safe for used both in adults and children for pain reduction and wider opening of the mouth which has been statistically proven.



Pic.1. Application of Taopatch TMJ in a child



Pic.2. Palpation with the Taopatch TMJ



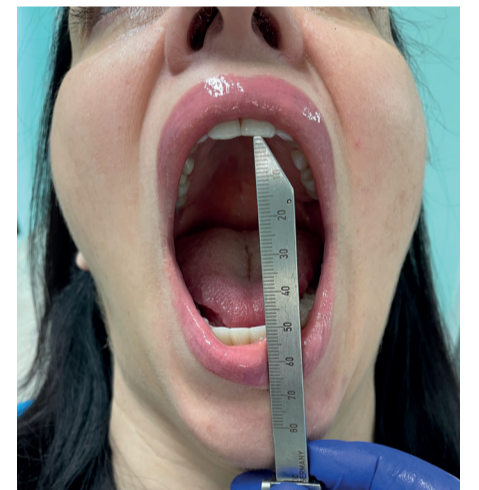
Pic.3. The maximum mouth opening in a child improves with the Taopatch



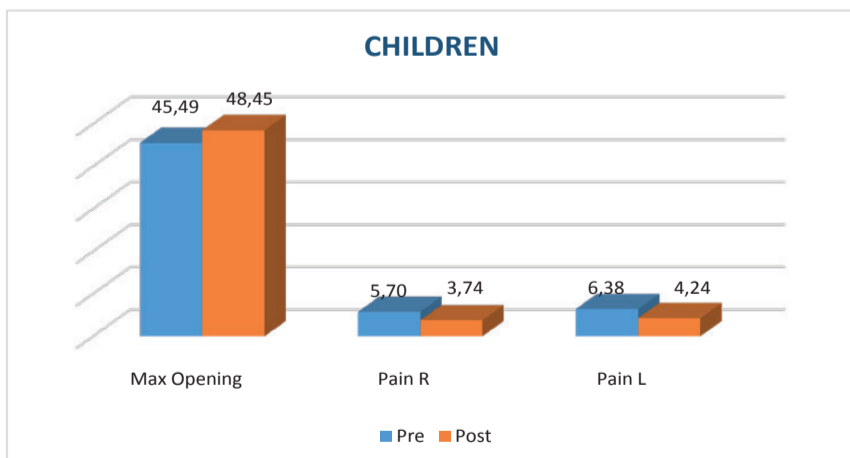
Pic.5. Application of Taopatch TMJ in an adult



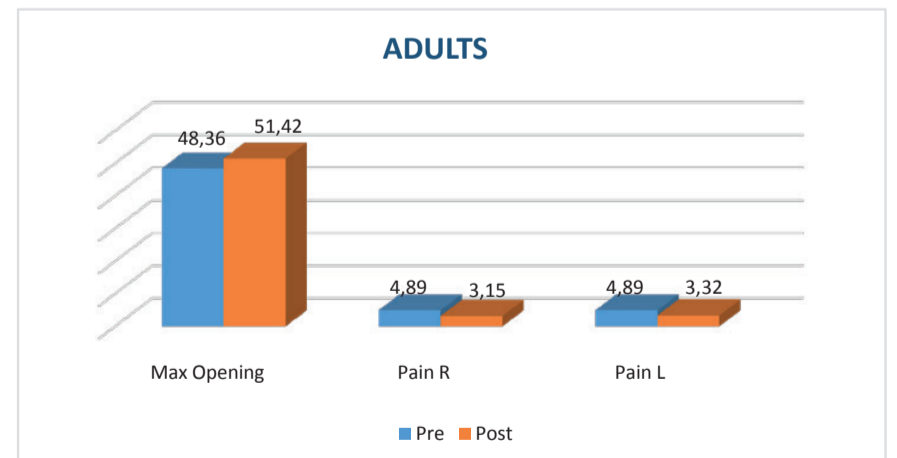
Pic.6. Palpation with the Taopatch TMJ



Pic.7. The maximum mouth opening in an adult improves with the Taopatch



Pic.4. Improvement in the mouth opening and pain relief with Taopatch® TMJ in children.



Pic.8. Improvement in the mouth opening and pain relief with Taopatch® TMJ in adults.

CHILDREN	Pre	Post	t ₍₇₅₎	p
Max Opening	45.48±6.871	48.45±6.867	13.838	0.000
Pain R	5.70±2.683	3.74±2.479	8.993	0.000
Pain L	6.38±2.612	4.24±2.427	9.421	0.000

Tab.2. Results before (pre) applying the Taopatch® TMJ and after (post) its application in children.

ADULTS	Pre	Post	t ₍₇₂₎	p
Max Opening	48.36±6.715	51.43±6.463	11.255	0.000
Pain R	4.89±2.547	3.15±2.301	10.813	0.000
Pain L	4.89±2.325	3.32±2.185	9.728	0.000

Tab.1. Results before (pre) applying the Taopatch® TMJ and after (post) its application in adults.