COMPARISON BETWEEN SURGICAL AND NON-SURGICAL METHODS FOR THE TREATMENT OF MANDIBULAR FRACTURES Horațiu Urechescu, Marius Pricop, Corina Vernic

INTRODUCTION

RESULT

CONCLUSIONS

The mandible is the most common Regarding the type of treatment fractured of the bone skeleton. Due to its structure the of the subjects underwent surgical mandible has an impact strength treatment, 40% (n=26) ortophedic four times higher than the maxillary | treatment, 1.5% (n=1) no treatment bone. However, because of its was necessary and in case of 1.5 position mandible more exposed to trauma. Objectives of of hospitalization days varied from treatment include reduction restoration of initial avoidance occlusion, and complications. The two treatment hospitalization options to consider are closed or 7.51±3.185 in case of surgical open reduction.

METHOD

This retrospective research was performed in all 65 subjects (mean age 32.08 ± 15.024 years) who were hospitalized for mandible within fractures Timisoara's Department of Maxillofacial Surgery in 2013. In order to compare the hospitalization days and cost we have split the subjects in two groups. The first group included the patients that underwent surgical treatment and the second group the patients with ortophedic treatment. Statistical analysis was performed with SPSS 20 OpenEpi. and Means, standard deviation and proportions are presented. Student's t test was used to compare mean values between and proportions groups as appropriate. A P-value <0.05 was considered statistically significant

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facial that was conducted, 56.9% (n=37) prominence, the (n=1) the treatment proposed was frequently refused by the patient. The number anatomic 1 to 20 days (mean 5.54±3,523). of fracture segments, Statistically the most common pretrauma number of hospitalization days was of 3 (16.9%, n=11). The mean of days was treatment and 3±1.897 in case of ortophedic treatment. The mean of total cost regarding the subjects that underwent surgical treatment was 2396.51649 ± 1026.084154. For the subjects that underwent ortophedic treatment the mean of total cost 899.20127 ± 557.257163. | the surgical treatment.

The current research shows that in case of mandible fracture the costs associated with the surgical treatment are higher than those associated with the ortophedic treatment. The total cost of the hospitalization is in direct relation with the number of days the patient was admitted. In case of surgical beside treatment, the hospitalization costs, we need to take in consideration the costs with general anaesthesia and osteosynthesis plates and screws. This kind of cost was not included in this study. Another fact to consider is the possibility rehospitalisation of the surgically treated patients for removal of the plates and screws after the bone consolidation is completed. these further increase the costs of

Student's t test mean values comparison				
Statistics				
	Surgical treatment	Ortophedic treatment	р	Significance
Hospitalization days	$7.51 \pm 3.185 (n=37)$	$3.00 \pm 1.897 (n=26)$	< 0.001	ES
Hospitalization cost	1877.05 ± 827.961 (n=37)	819.00 ± 517.981 (n=26)	< 0.001	ES
Food cost	34.678 ±15.5231 (n=37)	14.158 ± 8.9225 (n=26)	< 0.001	ES
Medication cost	402.78595 ± 219.514783 (n=37)	51.20212 ± 37.180333 (n=25)	< 0.001	ES
Sanitary materials cost	54.1330 ± 26.46061 (n=37)	14.7284 ± 14.97377 (n=25)	< 0.001	ES
Laboratory tests cost	76.0926 ± 71.42575 (n=27)	50.1575 ±27.07663 (n=4)	0.04962	S
Total cost	2396.51649 ± 1026.084154 (n=37)	899.20127 ± 557.257163 (n=26)	< 0.001	ES

Student's t test mean values comparison