CORRELATION BETWEEN FACIAL ATTRACTIVENESS AND THE DIVINE PROPORTIONS IN SERBIAN FEMALES

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INTRODUCTION

Today`s patients are interested mostly in improving facial attractiveness. Establishing universal guidelines of facial beauty could be valuable assistant in treatment planning for specialists who are able to alter facial features, such as orthodontists.

AIM

The aim of this study was to determine the correlation between attractiveness and divine facial proportions in Serbian female populations.

METHOD

Eighty-three en-face facial photographs of Serbian females, mean age 21.2 years, were used in an esthetic poll. Facial attractiveness was graded on a Likert scale by 50 dentists and 50 laypersons, and females were divided into attractive and nonattractive group. Afterwards, linear vertical and horizontal parameters, and proportions that represent golden ratio of the face were measured on photographs in both groups. The mean values for each parameter in both groups were compared to divine proportions, and then comparison between groups was made.
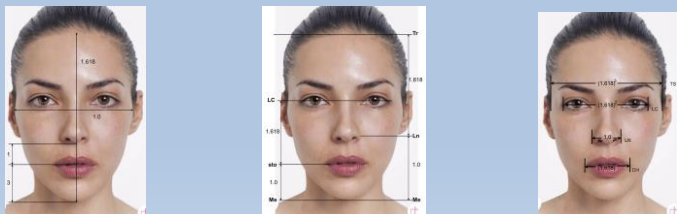

Figure 1. Linear vertical and horizontal parameters with golden ratio

RESULTS

The results of the poll showed that 30.12 % of the sample got highest score and could be considered attractive. Attractive group showed values closer to divine proportions than unattractive group. However, significant difference (P<0.05) between values in attractive group compared to divine proportion were found for vertical parameters in middle and lower facial thirds, and such as could be considered reliable in esthetic treatment outcomes.

	Groups (females)	Mean±SD	P-value
Me - sto	Unattractive	32.43±4.58	
	Attractive	28.33±5.43	.002
Sto - lc	Unattractive	50.87±7.18	
	Attractive	45.93±12.26	.071
Me - ln	Unattractive	57.36±7.92	
	Attractive	48.62±10.33	.001
Ln - tri	Unattractive	84.35±11.91	
	Attractive	75.75±20.16	.056

Table 1. Vertical parameters

	Groups (females)	Mean±SD	P-value
Ln - ln	Unattractive	28.20±3.79	
	Attractive	23.97±6.68	.006
Ch - ch	Unattractive	38.52±4.89	
	Attractive	35.81±9.14	.174
Lc- lc	Unattractive	72.79±9.30	
	Attractive	66.12±16.25	.065
lchk - lchk	Unattractive females	97.01±11.25	
	Attractive females	90.20±20.56	.132
Tri - me	Unattractive females	141.72±18.82	
	Attractive females	124.45±30.17	.013

Table 2. Horizontal parameters

CONCLUSION

Attractive females showed closer values to divine proportions than unattractive ones. Hence, correlation with divine proportions is just one segment in determining facial beauty.

The authors declare no conflict of interest.