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Effectiveness of 3D PDO Cannula Cog application for the correction of midface, lower face, submental area and eyebrows in women of different age groups

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Introduction: The use of 3D PDO threads (bi-directional cannula Cog threads) as a semi-invasive method of lifting sagging skin of the face.

Objective: The objective of this study is to optimize methodology of correction of midface, lower face, submental area and eyebrows by substantiating individual approaches on the use of 3D PDO cannula Cog threads face lifting.

Methods: The correction of sagging skin of midface, lower face and submental area (78.3%) and eyebrows (21.7%) has been carried out in 23 women aged from 34 to 62 considering age and individual anatomic peculiarities. For the correction of sagging skin of midface, lower face and submental area the antegrade and retrograde methodologies of threads insertion were used, while for the correction of eyebrows, the retrograde methodology was used. When antegrade methodology was used, threads were inserted in the direction from temporal area to sagging skin of midface and lower face, while in case of retrograde methodology, threads were inserted from the treated area to the area of intimate combination of skin and head aponeurosis (temporal, occipital and frontal areas). The evaluation of effectiveness in using methods of correction of sagging skin of midface, lower face, submental area and eyebrows was carried out by combining methods of questionnaire and photofixation and considering the number of used threads and methodology of their insertion. The questionnaire, including 16 questions, was prepared and adapted in accordance with the subjective evaluation of results of previous correction.

Results: According to the data of photofixation in observation dynamics we established the dependence of effectiveness of the used methodologies on the skin condition (its ability to shift in the direction of correction conditional upon fat pads), and also the number of inserted threads and the used method of insertion [among 18 women with the sagging skin of midface, lower face and submental area the following methods were used: in 10 (55.6%) the combined methods of threads insertion (from 4 to 10 threads per each side of the face), in 4 (22.2%) the antegrade method (from 3 to 5 threads per each side of the fact), and in 4 (22.2%) the retrograde method (from 3 to 6 threads per each side of the face). In 5 women having sagging of eyebrows only the retrograde method of correction was used (from 2 to 5 threads per each side of the face). questionnaire and photofixation, carried out within 12 months of observation, have shown the results of stable lifting effect within 8 months in women where the combined method of threads and the highest number of inserted threads were in place. Provided retrograde method was used, the stable lifting was observed within 6 months, and in case of the antegrade method the effect reached 4-5 months.

Conclusion: During the use of combined method of face lifting with the insertion of 10 3D PDO cannula Cog threads per each side of the face in case of sagging skin of the midface, lower face and submental area and in case of the retrograde method for eyebrows lifting with the use of 5 3D PDO cannula Cog threads per each side of the face the most expressed and continuous effect of lifting is reached.

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