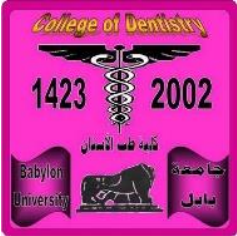


Republic of Iraq
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Evaluation for lip filler



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2024 A.D.

1445 A.H.

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

((نَرْفَعُ دَرَجَاتٍ مِّنْ نَّشَأٍ وَفَوْقَ كُلِّ ذِي عِلْمٍ عَلِيمٌ))

(سورة يوسف الاية ٧٦)

Dedication

Whoever says I have a "get it", praise be to God at the beginning and at the end, so what is the end of a path, and to end an effort, and to seek a quest except thanks to him. The journey was not short and it should not be, the dream was not near nor the road was fraught with facilities but I did it and brought it to my pure angel and my strength after God, my first and eternal support "my mother" to the one who supported me without limits and gave me free "my father" I give you this achievement that had not for your sacrifices he would not have existed

Acknowledgement

who does not thank the creature does not thank the Creator After completing this research, I would like to express my gratitude to my Creator first, then to the Honorable Dean, to the Head of the Department of dentistry, and to those who supervised my research, especially my esteemed professor Asst. Proph. Anass Moez Al-Yassiry, who accompanied us throughout our 5 years of study which not only conveyed knowledge to us, but also conveyed knowledge and morals to our minds, you have our sincere thanks, appreciation and gratitude to everyone in group who helped to complete the graduation project.

Abstract

Introduction: lips filler is a popular cosmetic procedure that can give you the plump, defined lips always dreamed . Overall, the lips and the perioral region are very relevant for facial aesthetics, contributing to the communication of human emotions. Although the beautiful and youthful appearance of the lips is subjective and cultural, some features please and attract most people. These characteristics include lip shape, a well-defined cupid`s bow and labial contours, lip volume, straight or slightly elevated commissures, and an ideal distance between the upper lip vermilion apex and the nasal base. Hyaluronic acid is a naturally occurring component of connective tissue in the skin. Because of its safety and efficacy, it is the most often used filler in cosmetic face operations. HA injections also help reduce fine lines and deeper wrinkles and restore skin volume. The size of the particles in HA acid products varies to address various wrinkle depths thinner particles for fine lines and bigger particles for deeper folds and wrinkles. The two most popular HA lip fillers on the market are Restylane and Juvederm lip injections. **Method:** this study was carried out at the University of Babylon / College of Dentistry for a period between (from November -to March). This study Made for students and Individuals who consented to participate in the study with excluded old age and any systemic and dental disease. The total of participate about (120) divided into two groups depended on age, one group age(20-29) "80" volunteer and other age(30-39)"40"each groups divided on number of making of lip filler. **Results:** in total, 120 respondents completed the survey. 20-29 years old (66.7%) and 30-39 years old (33.3%).Our review and evaluation of these cases showed that Participants The table(3,4,5) show the participation within(20-29) years, and represented different in number for making of the filler. Through this study result in table(3,4,5) found 100% all the participation used the filler for esthetic. The result given (12%,16.7%, 16%) with short lip. Occur swelling after filler (82%,100%, 100%).The disappear wrinkling. The introduced the limitation in mouth opening by the lip filler(42%,72.2%, 75%). The result of self confidence is(76%, 83.3%,83.3%). Also the result occur dark dot in lip or the skin near the lip after filler(8%,92%, 11.1%,16%). The result (10%,16%,16%) with occur ulcer in the lips or near its. The table(6,7,8) show the participation within(30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found 100% all the participation used the filler for esthetic. Found(16.7%,50%,25%)all the participation used the filler for short lip, result (66.7%,66.7%,62.5%) all the participation used the filler for increased the confidence. The (0%,66.7%,)all the participation used the filler for occurrences the ulcer. (50%,33.3%,37.5%)all the participation used the filler for occurrences the limitation in mouth opening. found(0%)all the participation used the filler for occurrences dark dots after filler. The result (50%,83.3%,75%) all the participation used the filler for occurrences swelling. **Conclusion:** the result refer to there is no different between two age groups through signs after made lip filler. All the volunteer agreement with the benefit of lip filler and the side effect lesser, also the side effect diminished with the time.

Introduction

Lips filler is a popular cosmetic procedure that can give you the plump, defined lips always dreamed. Overall, the lips and the perioral region are very relevant for facial aesthetics, contributing to the communication of human emotions. Although the beautiful and youthful appearance of the lips is subjective and cultural, some features please and attract most people. These characteristics include lip shape, a well-defined cupid's bow and labial contours, lip volume, straight or slightly elevated commissures, and an ideal distance between the upper lip vermilion apex and the nasal base .[1,2]

The histology of the lip, the layers of the upper and lower lips include the epidermis, subcutaneous tissue, orbicularis oris muscle fibers, and mucosa. In cross-section, the superior and inferior labial arteries can be observed as they course between the orbicularis muscle fibers and the mucosa. The vermilion is composed of nonkeratinized squamous epithelium that covers numerous capillaries, which give the vermilion its characteristic color. Numerous minor salivary glands can be observed on a histologic section of the lip. Hair follicles and sebaceous glands are located throughout the lip skin; however, these structures are absent in the vermilion. [3]

The most important that lip filler techniques are some how systematized, to be safe and reach the desired aesthetic objectives.[4]The most common kinds of lip fillers "hyaluronic acid fillers, Calcium hydroxyapatite Lip Fillers, Polyalkylimide Lip Fillers, Polylactic Acid Lip Fillers, Collagen Lip Fillers, Permanent Silicone Lip Fillers, Fat Transfer Lip Injections".

The Linear threading technique (Linear Injections), this popular method involves injecting the filler in a linear pattern, much like threading a needle. Often combined with techniques like the Russian technique, it accentuates the height and shape of the lips. The injectable fillers are inserted in tiny straight lines, giving the lips an uplifted look. The Pillar technique (Lip Tenting Technique) involves nearly vertical injections from the white roll (the vermilion border) of the lip. Other techniques that involve parallel injections to the lip contour, this approach provides greater control over both the volume of filler used and the resultant shape of the lip. The essence of this lip filler injection technique is to rotate the lip upwards and outwards more efficiently than other lip augmentation injection techniques, by placing the filler in the superficial part of the lip, an upward force is created, rotating the lip outward as the needle is withdrawn. While this technique is popular, it has generated debate due to the potential trauma it could inflict on the superior and inferior labial arteries. Another technique is Russian lip fillers employs a distinctive approach, injecting the HA product vertically at the base of the lip and applying dermal filler injections. This 'inside out' method of injection, as opposed to working from the lip border inwards, delivers results that are natural yet impressive. The Microdroplet technique is ideal for those looking to minimize the risk of bruising or vascular injury, the Microdroplet Technique is used in conjunction with blunt-tip cannulas. In this technique, 100-300 microdroplets of filler are injected to enhance the lip borders/edges, rejuvenate the philtrum (Cupid's Bow), and fill every crease within the lip that could cause lipstick bleed. The resulting look is natural and enhances the overall features of the lips. [5,6]

Hyaluronic acid is a naturally occurring component of connective tissue in the skin. Because of its safety and efficacy, it is the most often used filler in cosmetic face operations. HA injections also help reduce fine lines and deeper wrinkles and restore skin volume. The size of the particles in HA acid products varies to address various

wrinkle depths thinner particles for fine lines and bigger particles for deeper folds and wrinkles. The two most popular HA lip fillers on the market are Restylane and Juvederm lip injections.[7]

Hyaluronic acid — also known as hyaluronan or hyaluronate — is a gooey, slippery substance .is a naturally occurring substance in the body Scientists have found hyaluronic acid throughout the body, especially in eyes, joints and skin that has the ability to attract water, helping your skin stay hydrated and firm. The synthetic form of this ingredient is used in some brands of injectable cosmetic treatments called dermal fillers. While HA injections have been used cosmetically for wrinkles and other anti-aging treatments for years. A hyaluronic acid lip augmentation filler treatment hydrates, plumps, shapes and defines the lips while eliminating small wrinkles. Treatments with hyaluronic acid for the lips have gained popularity in recent years due to being simple and minimally invasive with increasingly natural and immediate results. What's more, these lip filler treatments can be tailored to the facial features of each patient. [8]

HA is currently the main active material for lip augmentation; it is used in various procedures including increasing the overall volume of the lip or enhancing the vermilion border and sculpting and accentuating lip. Benefits of Hyaluronic Acid Fillers once injected, the gel in the filler supports and shapes the tissues of the lips, include control over lip volume, gradual pace of treatment, bumps dissolve easily, less bruising. There may be less bruising and swelling, compared to other dermal fillers. The side effects of hyaluronic acid fillers are temporary and should only last a few days, bleeding from the injection sites, swelling and bruising, redness and tenderness at the site of the injection, reactivation of cold sores or fever blisters of the lips or area surrounding the lips.[9]

Aim of study: evolution of volunteer opinion about benefit and side effect of hylounic acid lip filler.

Method

This study was carried out at the University of Babylon / College of Dentistry for a period between (from November -to March). This study Made for students and Individuals who consented to participate in the study with excluded old age and any systemic and dental disease, Informed consent was obtained from the subjects after fully explaining the nature of the procedures the objectives and possible discomforts and risks of the study to them. Ethical approval was obtained from the ethical review committee of the University of Babylon/collage of Dentistry. The total of participate about (120) divided into two groups depended on age

Table (1): the frequency and percentage for divided of number of participate

No. of filler	Age (20-29)	Age (30-39)
One time	50(41.7%)	12(10%)
Two time	18(15%)	12(10%)
More than two time	12(10%)	16(13.3%)

total	80(66.7%)	40(33.3%)
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This study done to volunteer by filling questionire direct to the patient who came for dental treatment or by communication by social media the questionire is

No	The question	Type of answer
1	The number of lip filler applications is once, two times or more	-One time -Two time -Three time
2	Was the lip filler done for aesthetic purposes?	-Yes -No
3	Was the filler done for the purpose of short lip?	-Yes -No
4	Did your self-confidence increase after lip filler	-Yes -No
5	Does lip color change after filler?	-Yes -No
6	Does ulceration appear after the filler?	-Yes -No
7	Did you limitation the mouth opening after the filler?	-Yes -No
8	Did dark dot appear in or around the injection area?	-Yes -No
9	Did wrinkles appear around the mouth and did the wrinkles disappear after the filler?	-No/appear -Yes/disappear
10	Do fillers cause swelling of the lips after injection?	-Yes -No

Results

In total, 120 respondents completed the survey. 20-29 years old (66.7%) and 30-39 years old (33.3%). Our review and evaluation of these cases showed that Participants The table(3,4,5) show the participation within(20-29) years, and represented different in number for making of the filler. Through this study result in table(3,4,5) found 100% all the participation used the filler for esthetic. The table (3,4,6) is given result (12%,16.7%, 16%) with short lip that made for using filler to get good appearance with nice smile. The table(3,4,5) Occur swelling after filler (82%,100%, 100%) .The table(3,4,5) Occur wrinkling or disappear. The table(3,4,5) introduced the limitation in mouth opening by the lip filler(42%,72.2%, 75%) which refer to the limitation of opening increased with increase the number of time of using the filler. the table(3,4,5) show the result of self confidence is(76%, 83.3%,83.3%) that can be explain by The confidence increased with increase of number of using filler. Also the result in the table(3,4,5) occur dark dot in lip or the skin near the lip after filler(8%,92%, 11.1%,88.9%,16%,84%) Skin discolorations after HA filler injection have been reported. Table(3,4,5) give the result (10%,16%,16%) with occur ulcer in the lips or near its that due to short duration local injection site reactions. The table(6,7,8) show the participation within(30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found 100% all

the participation used the filler for esthetic. The table(6,7,8) show the participation within(30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(16.7%,50%,25%)all the participation used the filler for short lip due to the thinner upper lip protrusion compared with the larger lower lip. The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(66.7%,66.7%,62.5%) all the participation used the filler for increased the confidence. The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(0%,66.7%),all the participation used the filler for occurrences the ulcer . The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(50%,33.3%,37.5%)all the participation used the filler for occurrences the limitation in mouth opening. The table(6,7,8) show the participated within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(0%)all the participation used the filler for occurrences dark dots after filler. The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found (50%,83.3%,75%) all the participation used the filler for occurrences swelling

Table(3): this table represent distribute the volunteer age(20-29) that made lip filler one time

	Made for esthetic	Made for short lip	Increased the confidence after filler	ulcer	Change color of lip	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	12%	76%	10%	52%	42%	8%	Disappear20%	82%
no	0%	88%	24%	90%	48%	58%	92%	80%	18%

Table(4): this table represent distribute the volunteer age(20-29) that made lip filler two time

	Made for esthetic	Made for short lip	Increased the confidence after filler	Change color of lip	ulcer	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	16.7%	83.3%	72.2%	16.7%	72.2%	11.1%	Disappear29.2%	100%
no	0%	83.3%	16.7%	27.8%	83.3%	27.8%	88.9%	No 70.8%	0%

Table(5): this table represent distribute the volunteer age(20-29) that made lip filler three time

	Made for esthetic	Made for short lip	Increased the confidence after filler	Change color of lip	ulcer	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	16%	83.3%	66.7%	16%	75%	16%	Disappear 25%	100%
no	0%	84%	16.7%	33.3%	84%	25%	84%	No 75%	0%

Table(6): this table represent distribute the volunteer age(30-39) that made lip filler one time

	Made for esthetic	Made for short lip	Increased the confidence after filler	Change color of lip	ulcer	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	16.7%	66.7%	66.7%	0%	50%	0%	Disappear 58%	50%
no	0%	83.3%	33.3%	33.3%	100%	50%	100%	No 42%	50%

Table(7): this table represent distribute the volunteer age(30-39) that made lip filler two time

	Made for esthetic	Made for short lip	Increased the confidence after filler	Change color of lip	ulcer	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	50%	66.7%	66.7%	66.7%	33.3%	0%	Disappear 69.7%	83.3%
no	0%	50%	33.3%	33.3%	33.3%	66.7%	100%	No 30.3%	16.7%

Table(8): this table represent distribute the volunteer age(30-39) that made lip filler three time

	Made for esthetic	Made for short lip	Increased the confidence after filler	Change color of lip	ulcer	Limitation in mouth opening	Occur dark dot after filler	Occur wrinkling or disappear	Occur swelling after filler
yes	100%	25%	62.5%	62.5%	62.5%	37.5%	0%	Disappear60%	75%
no	0%	75%	37.5%	37.5%	37.5%	62.5%	100%	No40%	25%

Discussion

Interest in cosmetic procedures is gradually increasing today. Filler substance injection, used to reduce wrinkles and eliminate age related volume loss, is a type of aesthetic application. Application of filler substances may lead to complications. The complication rate may increase if the procedure is conducted by inexperienced physicians or non-physicians .[10]. Our study exams complications which developed following filler injection, with potential complications and treatment approaches reviewed as well. The table(3,4,5) show the participation within(20-29) years, and represented different in number for making of the filler. Through this study result in table(3,4,5) found 100% all the participation used the filler for esthetic. The lip filler augmentation consists of the reshaping and/or enlargement of the visible portion of the lip, the vermilion. Alteration of the shape of the cupid's bow and of the relationship between the vermilion and the skin underlying the nasal columella also falls within the category of lip augmentation, It is also important to consider the relationship between lip height, also important to consider the relationship between lip height and incisor shown in the anatomic analysis, to evaluate possible maxillary hypoplasia and protrusion, and to consider the patients occlusion status[11].

This agree with Tansatit T, Apinuntrum P, Phetudom T 2014 which thought that lip esthetics alter over time, eras, and races; however, voluptuous lips with enhanced volume are also lovely and appealing.[12]

Also Demosthenous N, etal 2022. which said the hyaluronic acid is a non-surgical aesthetic procedure that aims to increase lip volume and improve lip contour.[13]

The table (3,4,6) is given result (12%,16.7%, 16%) with short lip that made for using filler to get good appearance with nice smile ,For genetically thin lips, structural augmentation with a deeper-placed filler followed by volume correction with a

superficial filler is ideal. For pure cosmetic enhancement of lips, a superficially placed filler with emphasis on the white roll and expansion of the vermilion is ideal.[14]

This agrees with Tansatit T, Apinuntrum P, Phetudom T 2014 pronounced cupid's bow, a well-defined vermilion border, upturned corners of the mouth, fullness in the center that toward the mouth, symmetry between the left and right sides, philtrum length of 12 to 15 mm, a thinner upper lip protrusion compared with the larger lower lip, and a balanced upper and lower lip are the basic principles of ideal lips. The golden ratio, which is 1:1.6, is used to calculate the ideal upper lip to lower lip ratio in frontal view. However, lip esthetics alter over time, eras, and races; however, voluptuous lips with enhanced volume are also lovely and appealing.⁶ In particular, the current ideal female-lip ratio in White women has just been discovered to be 1:1. To better understand what patients think to be the optimal lip ratio, we performed a survey in 2008 to compare their preferences to expert perspectives and use the results as a guiding tool during the patient–doctor consultation process. [15]

The table(3,4,5) Occur swelling after filler (82%,100%, 100%) the swelling occur within used the filler the related to is a physiological reaction that widens the dermal fibrillar interspaces from a normal maximum of 10 m to about 20 m. This facilitates the invasion of histiocytes (which become macrophages) and fibroblasts toward the implant.[16]

This agrees with Cotofana S, et al.2017 Lip contouring procedures involve placement of soft tissue fillers along the vermilion border superficial to the orbicularis oris muscle in a subdermal plane. The superficial injection plane, however, may allow product visibility and more prominent swelling. [17]

Also San Miguel Moragas J, et al.2015 which said swelling is thus an expected sequela of the trauma caused by the injection itself. Although the swelling is usually mild, transient, and not requiring any further intervention, it may still impact patients' satisfaction with the procedure.[18]

The table(3,4,5) Occur wrinkling or disappear after filler (20%,29.2%,25%) that due to , about a third of the HA in the human body is replaced. The enzyme hyaluronidase easily breaks down the naturally occurring molecule. As a result, chemical modification of these molecules through cross-linking is required to produce an effective filler. Cross-linking increases surface area and thus reduces the surface area available for degradation.[19]

The hydrophilic property of HA is critical to its clinical utility; 1 g of HA can bind 6 L of water. This property enables it to maintain the hydration of the intracellular matrix in which cells are structured, preserving tissue volume and supporting surrounding tissues. HA is also unique in that it has no antigenic specificity because it is not species-specific or tissue-specific. As a result, in clinical use, it has a very low risk of allergic reaction. The purification source and, more crucially, the size of the molecules in the HA products now available varies.[20,21]

This property, in particular, is responsible for each product's distinct characteristics. The cement that holds the collagen bricks together has been described as HA products.[22,23]

That agrees with Poleva I, 2022, which improves the hyaluronic acid is a molecule naturally present in the human body, responsible for maintaining the hydration and elasticity of the skin and connective tissue. Due to its properties, hyaluronic acid has been widely used in aesthetic medicine for facial rejuvenation and volume enhancement in different body areas, including the lips.[24]

Through this thesis the table(3,4,5) introduced the limitation in mouth opening by the lip filler (42%,72.2%, 75%) which refer to the limitation of opening increased with increase the number of time of using the filler that reason related to the professional don't care during injection of hyaluronic acid to orbicularis oris muscle that related to movement of the lip during speech and facial expression lead to deformity in the movement of the lips[25], or may be result of increased the thickness of tissue of the lip depended on amount of hyaluronic acid injected[26] that lead to limitation in opening but there is no thesis agree or disagree with this result

the table(3,4,5) show the result of self confidence is(76%, 83.3%,83.3%) that can be explain by The confidence increased with increase of number of using filler.The lips and perioral region play an important role in facial aesthetics and have an impact on the patients self-confidence, their social and psychological spheres, and their quality of life [27]

Patients are not only looking to improve their appearance, but also their mental and emotional health, along with social wellbeing.[28] survey on patient motivations to undergo cosmetic procedures, psychosocial concerns were mentioned more than other identify themes, specifically the appeal for improved confidence, feeling depressed and anxious with current appearance, and feeling consumed by efforts to conceal undesirable physical features.[16] Other studies have demonstrated significant psychological and social benefits from HA filler treatment, in addition to considerable improvements in self-perceived appearance and age.[28,29] These results confirm that benefits from HA filler injections extend beyond mere physical improvement[29].

This agrees with Akinbiyi T, et al 2020 Lip enhancement is a cosmetic procedure that improves the fullness, symmetry, and definition of your lips. Injectables have been shown in numerous studies to significantly increase trust in yourself. It is true that aging doesn't stop for anyone. Your skin, which utilized to be smooth, is no longer able to maintain its level of moisture. [30]

Also the result in the table(3,4,5) occur dark dot in lip or the skin near the lip after filler (8%,11.1%,16%) Skin discolorations after HA filler injection have been reported. The three categories of discoloration are: 1) the Tyndall effect, 2) neovascularization, and 3) hyperpigmentation. The Tyndall effect is a visual distortion from light refraction to the filler material through the skin, and it does not usually resolve until the material is removed using a hyaluronidase injection.[31]

Filler injection may lead to pigmentation changes in the skin. Post-inflammatory pigmentation may develop following ecchymosis in particularly dark-skinned individuals. White color change may be observed when bovine collagen is injected superficially as a filler, while superficial injection of hyaluronic acid leads to a blue color change (Tyndale effect). This color change may be treated. [32]

That agree with Taylor SC, Burgess CM, Callender VD 2009, these are more common among people with darker skin tones: Individuals with dark skin type are said to be more prone to pigmentation issues since they already produce greater amounts of melanocyte skin cells to give their skin its color. When exposed to anything that could trigger an increase in melanin, they can experience hyperpigmentation problems. These can also be caused by exposure to sunlight after treatment: sun exposure can irritate your skin and cause worsening of your freckles and sun spots. These can be remedied with other cosmetic procedures: Post-inflammatory hyperpigmentation isn't a serious side effect of lip injections. The Hyaluronic Acid (HA) fillers that are currently available are safe to use in skin. There is no significant risk for hypo- or hyperpigmentation, scarring or keloid formation. [33]

The dark dot increased within increased number of lip filler. No thesis agree or disagree with this result.

Table(3,4,5) give the result (10%,16%,16%) with occur ulcer in the lips or near its that due to short duration local injection site reactions, generally resulting from an acute inflammatory response to tissue damage combined with the introduction of a foreign material, include swelling, pain, tenderness and bruising, and are seen in the vast majority of patients treated with injectable hyaluronic acid derivatives (Narins et al 2003). In general, lip augmentation is associated with the highest incidence of post-injection pain, swelling, and bruising. In addition, recurrent herpes labialis occurs in a percentage of patients following lip augmentation. [34]

This agree with Narins RS, et al 2003

The table(6,7,8) show the participation within(30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found 100% all the participation used the filler for esthetic.

The filler enhance the esthetic related to basic principles of ideal lips include the following: a pronounced cupid's bow, a well-defined vermilion border, upturned corners of the mouth, fullness in the center that fades out toward the mouth, symmetry between the left and the right sides, philtrum length of 12–15 mm, a thinner upper lip protrusion compared with the larger lower lip, and a balanced upper and lower lip. [35]

This agree with Beer K and Beer J(2009) who thought minor invasive procedures with hyaluronic acid fillers and botulinum toxin A are versatile tools to improve appearance of the lips, restore function and improve psycho-social well-being. [36]

The table(6,7,8) show the participation within(30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found (16.7%,50%,25%) all the participation used the filler for short lip due to the thinner upper lip protrusion compared with the larger lower lip, and a balanced upper and

lower lip specially, on the frontal view, the ratio of ideal upper lip to lower lip is determined by the golden ratio, which is 1:1.6.[37]However, it cannot be ignored that lip aesthetics change throughout history, eras, and races; however, voluptuous lips with an accentuated volume are delightful and very popular as well. [38]

Also the result agree with Robbins JW(1999) that said lip fillers can definitely help with gummy smile correction. This is done by increasing volume in the upper lip, to help block the sight of the gummy smile.[39]

The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found (66.7%,66.7%,62.5%) all the participation used the filler for increased the confidence. One of the benefits that you are likely to experience following lip augmentation is improved self-confidence. There can be a misunderstanding that this type of procedure is all about trying to impress other people, but there is a great deal more to it than just that. If you like what you see in the mirror, it can give your self-esteem a real boost. Dermal fillers and lip fillers can boost your self-confidence by helping you achieve a more youthful appearance. These treatments can be tailored to your specific needs and goals to feel confident about your results.[40]

This agree withAkinbiyiT,Etal.(2020),that saidthe Lip enhancement is a cosmetic procedure that improves the fullness, symmetry, and definition of your lips. Injectables have been shown in numerous studies to significantly increase trust in yourself. It is true that aging doesn't stop for anyone. Your skin, which utilized to be smooth, is no longer able to maintain its level of moisture. [41]

The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found (0%,66.7%,62.5%) all the participation used the filler for occurrences the ulcer. The reason for ulcer is could also be a sign of vascular occlusion. Small ulcerations or blisters could be a reactivation of herpes simplex virus (cold sores) or potentially another immunological, viral or bacterial response to the filler[42]. Also the ulcer increased enhance with increased numbers made filler, no thesis agree or disagree with this result.

The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(50%,33.3%,37.5%)all the participation used the filler for occurrences the limitation in mouth opening

which refer to the limitation of opening increased with increase the number of time of using the filler that reason related to the professional don't car during injection of hyaluronic acid to orbicularis oris muscle that related to movement of the lip during speech and facial expression lead to deformity in the movement of the lips[43], or may be result of increased the thickness of tissue of the lip depended on amount ofhyaluronic acid injected[44], that lead to limitation in opening but there is no thesis agree or disagree with this result.

The table(6,7,8) show the participated within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(

0%,0%,0%) all the participation used the filler for occurrences dark dots after filler, can be explained by freckles appear darkened after a lip filler treatment, it's rarely a serious complication and could be a sign of post-inflammatory hyperpigmentation which is caused by the damage to the dermis during the injection. The dark dots after lip filler injections can also be a vascular lesion caused by bleeding beneath the skin surface. This may happen due to a poor injection technique where the needle hits small blood vessels which can lead to benign skin growths or telangiectasia (broken blood vessels) on the lips, or an allergic reaction[45]. But in this result the no dark dot occur the reason related to number of the volunteer less than expected occurrences dark dot.

The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(50%,83.3%,75%) all the participation used the filler for occurrences swelling. The reason of swelling is the water- binding properties associated with HA products[46]

This agree withLupton JR and Alster TS (2000), which thought, the swelling to the area that is so severe it is causing reasonable discomfort and/or impacting normal activities (ie. Eating, drinking, sleeping). [47]

The table(6,7,8) show the volunteer within (30-39) years, and represented different in number for making of the filler. Through this study result in table(6,7,8) found(58%,69.7 %,60 %) all the participation used the filler disappear wrinkling the reason related to increase the longevity of HA filler, manufacturers have developed crosslink technology that binds HA polymer chains to each other, creating a strong polymer network and transforming the viscous solution into a hard gel particle.[48,49]

Conclusion

The result refer to there is no different between two age groups through signs after made lip filler. All the volunteer agreement with the benefit of lip filler and the side effect lesser, also the side effect diminished with the time.

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