KNOWLEDGE, ATTITUDE, AND AWARENESS OF THE GENERAL POPULATION TOWARDS FACIAL YOGA, FACIAL MASSAGE AND FACIAL EXERCISES.

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Abstract:

Intoduction: With the emerging beauty trends, facial yoga, facial massage and facial exercise has taken its own stand making it one of the most influential beauty trends in the past few years. The aim of the present study was to assess the knowledge regarding pros, cons and proper technique of facial yoga, facial massage and facial exercise amongst the general population.

Materials and Methods: A questionnaire study was conducted among the general population to assess the knowledge, attitude and awareness of facial yoga. The structured, self-administered, and close-ended questionnaire was designed to collect the data which consist of four parts and comprised of 29 questions related to the topic. The reliability and validity of the questionnaire were calculated (Cronbach alpha - 0.662). Informed consent was also taken from all the participants. Statistical analysis was done using descriptive statistics.

Results: In this study, there were a total of 150 participants out of which 100 were females and 50 were males, Maximum participants were between 18-25 years of age. Around 61.3 % of the participants were aware about face yoga and 50.7 % of the participants performed facial yoga, massage and exercise to lift facial skin for younger looking appearance. The majority of participants were unaware the facial exercise can also cause wrinkling if not done properly.

Conclusion: The overall study concluded that knowledge and attitude of face yoga is average among general population, and it is occasionally practiced among people.

KEYWORDS:

Facial yoga, facial massage, facial, exercises, botulinum toxin, wrinkles.

IndexTerms - Component,formatting,style,styling,insert.

I. INTRODUCTION

With the emerging beauty trends, facial yoga, facial massage and facial exercise has taken its own stand making it one of the most influential beauty trends in the past few years. Facial yoga is a better alternative approach to aesthetic corrections performed by plastic surgeons and dermatologists such as botulinum toxin injections, facelifts, laser treatments, chemical peels etc and is less

invasive and less expensive. Facial yoga is the workout of facial muscles followed by massage to relieve the tension within the facial muscles hence giving a youthful glowing appearance. 2

Facial yoga can be practiced from the comfort of one's home and is a more hassle free and pain free approach than opting for services provided by plastic surgeons and dermatologists in their clinics. However, it can take more time, a week, a month or years to achieve the same results which can be achieved within minutes in a dermatologist's clinic.

The benefits of combining facial yoga, massage and exercise is that muscle activity increases the production of collagen and elastin.³ But facial exercise which is the use of only facial muscle activity increases the tension within the facial muscles which in turn increases the appearance of fine lines and wrinkles, hence if followed by facial massage which is use of hand to massage the muscles of the face increases the blood flow and lymphatic drainage and relieves the tension within the muscles thus counterbalancing the ill effects of facial exercise.

As there are repercussions to excessive manipulation of the skin and facial muscles such as sagging and wrinkling.⁴ The biomolecular effects of face yoga helps to improve the antioxidant status by modulating the expression of relevant genes like glutathione peroxidase, catalase and superoxide dismutase. Thus face yoga helps in generating better stress response and minimal cellular damage

There are repercussions to excessive manipulation of the skin and facial muscles such as sagging and wrinkling.⁴ Thus the aim of the present study was to assess the knowledge and attitude regarding advantages, disadvantages and proper technique of facial yoga, facial massage and facial exercise amongst the general population. Whether the general population think it is better to perform facial yoga or take the quicker route by opting for aesthetic correction services at a plastic surgeon's clinic.

II. MATERIALS AND METHODS

A questionnaire study was conducted among the general population in Pune city. The study duration was about 3 months. The study population belonged from a wide range of age group from 16 to 58 years of age. The calculated sample size was 148 using G* Power software version 3.1.9.2 (Heinrich Heine University, Düsseldorf). The final considered sample size for the study was around 150. The convenient sampling technique was used in the study. A structured, self-administered, and close-ended questionnaire were designed to collect the data which consisted of four parts and comprised of 29 questions related to knowledge, attitude and practices of facial yoga, facial massage and facial exercise practices amongst the general population. The first part consisted of demographic data, the second part consisted of questions related to knowledge, the third part consisted of questions related to attitude, and the fourth part consisted of questions related to practice of facial yoga, facial massage and facial exercise. The questionnaire was prepared using Google forms (Google LLC, Mountain View, California, United States) and the link was distributed to the selected participants through e-mail, WhatsApp number, and other social media platforms (Instagram, Telegram, etc.). A pilot study was conducted initially comprising of 25 participants mostly belonging to age group of 18-25 years of age. The reliability statistics were calculated and Cronbach alpha value was 0.662. A brief introduction about the study was given. Data collected were entered in a spreadsheet (Microsoft Excel, 2016). Statistical analysis was done using descriptive statistics (number and percentage) Statistical Package for the Social Science 23.0 version software (IBM Chicago, Illinois, United States).

III. RESULTS

In Table 1. There were a total of 150 participants out of which 100 were females and 50 were males. Maximum participants were between 18-25 years of age.

In Table 2. 61.3 % of the participants were aware about face yoga. 49.3% of the participants think that face massage involves use of hands and movements of facial muscles. 38% of the participants learned about facial yoga from the social media and internet. Among facial exercise, massage and yoga 35.3% of the population thinks facial massage is better for toning and sculpting of the face while 36% agrees with facial yoga. 50.7 % of the participants perform facial yoga, massage and exercise to lift facial skin for younger looking appearance. About 43.3% of the participants are aware about face rollers as an additional tool for facial massage. About 34.7% of the participants think that fat reduction occurs the most in double chin area and 32.7% thinks it helps in reduction of buccal fat. Regarding the side effects 43.3% of the participants think facial exercise does not have any ill effects.

In Table 3. 35% of the participants Disagrees that facial exercise increases the appearance of fine lines and wrinkles. 38% of the participants agree that long term facial exercise can do more damage than good. 35.3% of the participants agree that Botox is a better alternative to facial yoga.

In Table 4. 44.7% of the participants practice facial yoga or exercise and 31.3% of the participants rarely opt for paid facial yoga or massage services. Only 11.3% consult with a specialist before practicing facial yoga and exercise. 14% of participants use additional tools and serums while practicing facial yoga.

TABLE 1. DEMOGRAPHIC DETAILS OF STUDY PARTICIPANTS (N=150)

Sr.no	Demographic details	Responses	N	%	Total N(%)
1.	gender	Female	100	66.7	150
		Male	50	33.3	

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2.	Age	18-25	123	82	
		26.25	10	10	
		26-35	18	12	
		26.45	4	2.6	
		36-45	4	2.6	
		46-55	5	3.3	
		40-33	3	3.3	
			l		

Sr.no	Questions	Responses	Number (N)	Percentage (%)	Total
1.	1) what is face yoga?	Massage of the face	10	6.7	150
		Exercise of facial	21	14	
		muscles			
		Stimulation of blood	27	18	
		circulation and			
		lymphatic drainage in the face			
		All the above	92	61.3	
2.	What do you understand	Use of hands and tools	44	29.3	150
۷.	What do you understand by face massage?	to stimulate facial	44	29.3	130
	by face massage.	muscles			
		Use of hands and	74	49.3	
		movements of facial			
		muscles	25	165	
		Only moment of facial muscles	25	16.7	
		None of the above	7	4.7	
		Trone of the doore	,		
3.	what does facial massage	Relieves tension in the	12	8	150
	do?	facial muscles	CHILE	I / UUIIII	
		Increase blood circulation and	33	22	
		lymphatic drainage			
		Firms and tones skin	9	6	
		All of the above	95	63	
4.	what is facial exercise?	Use of hands and tools	30	20	150
4.	what is facial exercise?	to stimulate facial	30	20	130
		muscles			
	D	Use of hands and	78	52	
	Kelear	movements of facial		ovation	
		muscles	22	21.2	
		Only moment of facial muscles	32	21.3	
		None of the above	10	6.7	
				1	
5.	what are the effects of	It improves structural	37	22.7	150
	facial exercise?	appearance of the face	2.5	17.0	
		It causes wrinkles	26	17.3	
		Younger looking appearance	24	16	
		All of the above	63	42	
	_			·- I	
6.	where did you learn about	Social media or	57	38	150
	facial yoga?	internet	4.4	20.2	
		Aesthetician or beautician	44	29.3	
		Friends or family	41	27.3	

		Magazine or books	8	5.3	
7.	why according to you do	To strengthen facial	23	15.3	150
7.	people perform facial yoga	muscles	23	15.5	130
	or massage or exercise?	To lose fat from the	27	18	
	of massage of energiese.	face and Neck area	27	10	
		Lift facial skin for	76	50.7	
		younger looking	, -		
		appearance			
		Try to change the bone	24	16	
		structure of the face			
8.	what are the side effects of	Drooping or sagging of	20	13.3	150
	facial exercise?	the skin after sometime			
		Cause wrinkles after	30	20	
		sometime			
		Increase wear and tear	35	23.3	
		of collagen fibres			
		No side effects	65	43.3	
			70 4		
9.	w <mark>hat</mark> additional tools of	Gua Sha	43	28.7	150
	facial massage are you	Face rollers	65	43.3	
	familiar with?				
		Face lifting belts	17	11.3	
		No tools, only hands	25	16.7	
10	XXII : 1 C.1 C.11 :	Б 1 1	22	14.7	150
10.	Which of the following	Facial exe <mark>rcise</mark>	22	14.7	150
	do you think is better for				
	toning and sculpting of the face?	Facial Massage	53	35.3	
	idee.			h Journal	
		Facial Yoga	54	36	
		r delar 10ga	31	30	
		77 04			
		None of the above	21	14	
11.	what do you think is the	Esthecian	20	13.3	150
	best way to learn facial	Yoga instructor	45	30	
		Internet (YouTube,	79	52.7	
	yoga or exercise or			9141911	
	yoga or exercise or massage?	blogs, articles)			
			6	4	
		blogs, articles)	6	4	
	massage?	blogs, articles) Books or magazines	6	4	
12.	massage? What according to you are	blogs, articles) Books or magazines Botox and fillers	34	22.7	150
	massage? What according to you are better alternative to facial	Botox and fillers Plastic surgery	34 18	22.7	150
	massage? What according to you are	Books or magazines Botox and fillers Plastic surgery Laser	34 18 15	22.7 12 10	150
	massage? What according to you are better alternative to facial	Botox and fillers Plastic surgery	34 18	22.7	150
	massage? What according to you are better alternative to facial	Books or magazines Botox and fillers Plastic surgery Laser	34 18 15	22.7 12 10	150
12.	what according to you are better alternative to facial yoga?	Books or magazines Botox and fillers Plastic surgery Laser None of the above	34 18 15 83	22.7 12 10 55.3	
	what according to you are better alternative to facial yoga?	Books or magazines Botox and fillers Plastic surgery Laser None of the above A week	34 18 15 83	22.7 12 10 55.3	150
12.	what according to you are better alternative to facial yoga? How often do you think one should attempt face	Books or magazines Botox and fillers Plastic surgery Laser None of the above A week A month	34 18 15 83 30 41	22.7 12 10 55.3 20 27.3	
12.	what according to you are better alternative to facial yoga? How often do you think one should attempt face yoga to see noticeable	Books or magazines Botox and fillers Plastic surgery Laser None of the above A week A month 2 to 6 months	34 18 15 83 30 41 60	22.7 12 10 55.3 20 27.3 40	
12.	what according to you are better alternative to facial yoga? How often do you think one should attempt face	Books or magazines Botox and fillers Plastic surgery Laser None of the above A week A month	34 18 15 83 30 41	22.7 12 10 55.3 20 27.3	

14.	What all facial muscles are	022 IJNRD Volume 7, Issu Buccinator	11	7.3	150
	involved in facial yoga?	Masseter	15	10	
		Zygomatic minor and major	15	10	
		All of the above	109	72.7	
15.	where according to you	Double chin	52	34.7	150
	does fat reduction occurs	Buccal Fat	49	32.7	
	the most?	Accentuate Jaw line	25	16.7	
		None of the above All of the above	13 11	8.7 7.3	
		Table 3 Attitude based qu		7.3	
1.	Facial exercise increases	Strongly agree	20	13.3	150
	the appearance of fine				
	lines and wrinkles	agree	42	28	
		Neutral	30	20	
		Disagree	53	35	
		Strongly Disagree	5	3.3	
2.	Facial yoga is alone	Strongly agree	16	10.7	150
	sufficient for younger	agree	44	29.3	
	looking appearance	Neutral	29	19.3	
		Disagree	53	35.3	
		Strongly Disagree	8	5.3	
3.	Do you think you should	Strongly agree	20	13.3	150
	consult with a yoga	agree	94	62.7	
	instructor or a doctor	Neutral	20	13.3	
	before doing any face	Disagree	13	8.7	
	yoga?	Strongly Disagree	3	2	
4.	Do you agree that long	Strongly agree	2	1.3	150
	term facial exercise can do	agree	57	38	
	more damage than good?	Neutral	40	26.7	
	lataraati	Disagree	35	23.3	
	IIII	Strongly disagree	16	10.7	
5.	Do you agree that facial	Strongly agree	4	2.7	150
	yoga helps relieve the	agree	43	28.7	
	tension in muscles but	Neutral	63	42	
	facial exercises can instead increase tension in the facial muscles?	Disagree	24	16	
		Strongly disagree	16	10.7	
	Rezeard	h Throug	h Inn	ovation	
6.	Do you agree that Botox is	Strongly agree	4	2.7	150
	a better alternative to	agree	29	19.3	
	facial yoga?	Neutral	39	26	
		Disagree	53	35.3	
		Strongly disagree	25	16.7	
7.	Do you think that facial	Strongly agree	19	12.7.	150
	yoga helps in fat reduction	agree	93	62	
	from face?	Neutral	19	12.7	
		Disagree	14	9.3	
		Strongly disagree	5	3.3	
8.	Do you feel additional	Strongly agree	20	13 3	150
8.	Do you feel additional tools E.g Gua sha, face	Strongly agree agree	20 67	13.3 44.7	150

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	do face yoga on a day to day practice?	Disagree	27	18	
		Strongly disagree	6	4	
9.	Would you encourage	Strongly agree	22	14.7	150
	your acquaintance to	agree	86	57.3	
	practice facial yoga?	Neutral	26	17.3	
		Disagree	11	7.3	
		Strongly disagree	5	3.3	
	ı	Table 4 Practice Based (Questions		
1.	Have you ever done facial	Always	16	10.7	150
	exercise without knowing	often	46	30.7	
	its untold side effects?	rarely	57	38	
		never	31	20.7	
2.	Do you use any additional	Always	14	9.3	150
	tools or serums while	often	48	32	
	practicing facial yoga?	rarely	48	32	
		never	40	26.7	
3.	How often do you practice	Always	15	10	150
	facial yoga or exercise?	often	67	44.7	
		rarely	49	32.7	
		never	19	12.7	
4.	How often do u consult	Always	17	11.3	150
	with a specialist before	often	45	30	
	practicing facial yoga and	rarely	49	32.7	
	exercise?	never	39	26	
					_
5.	How often do u opt for	Always	19	12.7	150
	paid facial yoga or	often	45	30	
	massage services	rarely	47	31.3	
	(E.g facial, massage)?	never	39	26	_

IV. DISCUSSION

Human skin ages in a very unique fashion. The ageing of the skin depends upon various factors like genetic metabolism, pollution, chronic light exposure and hormone. To achieve healthy complexion, practice facial yoga in morning, once a day for 20 to 30 minutes. It is advised to use facial oil or serum while performing facial yoga as it eases the movements. If done correctly, facial yoga helps to tighten facial muscle. When facial movement is repeated, a groove is formed beneath the skin surface and fine wrinkles develop. According to study conducted by Takacs et al 6 isometric exercises were given to patients, 4 out of 8 patients observed reduction in wrinkles and enhanced facial expression.

According to our study, 41.3% participants agree that facial exercise increases the appearance of fine lines and wrinkles in contrast to study done by Abigail M. Smith where they found that 55% patients found single level improvement.¹⁰

According to study conducted by Lana e Silva et al in 4 patients in age range of 40-51 years of age all patients experienced improvement. There were no differences between the present study and study conducted by Lana e Silva et al and Abigail M. Smith.^{1,11}

Face yoga can help activating the muscles around the cheek neck jawline and the enhancing the tone of the face. This occurs by increasing blood circulation and stimulation of the lymphatic system which decreases puffiness and removes toxins and enhances collagen production and skin elasticity.²

Face yoga and massage therapy can also help in the treatment of Temporomandibularjoint disorders. The study conducted by Wieckiewicz and colleagues stated that facial massage can help in correcting the mobility of the jaws. It was found to be effective in 70% of the TMD patients. Face yoga and massage therapy may also help in reducing swelling and pain in the area surrounding the TMJ.⁸

Botulinum Toxin, also known as Botox is a neurotoxin which acts by temporarily paralyzing facial muscle. Patients who regularly undergo Botox treatment should practice facial yoga and exercise and particularly yoga face lift in order to prevent the atrophy of facial muscles due to Botox treatment.⁹

Thus face yoga helps in generating better stress response and minimal cellular damage. ³

More studies are also warranted to understand the effects of face yoga as a singular modality as well as in combination with the existing anti-aging strategies.

V. RECOMMENDATIONS

- 1) Yoga instructors, esthetician, dentist and dermatologist should instruct people regarding benefits of performing facial exercise, yoga and massage. And its adverse effect if not performed correctly.
- 2) Training programs on performing facial exercises should be held among the interested population.

VI. CONCLUSION

The overall study concluded that knowledge and attitude of face yoga is average among general population, and it is occasionally practiced among people .Many people need to be made aware of facial yoga, massage and exercise. Its benefits in toning of facial muscles and reducing skin wrinkles.

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