

## Evaluation of Clinical Features of Upper Lip in Saudi Population

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**Received:** May 22, 2017; **Published:** June 16, 2017

### Abstract

One result of adult's facial growth is elongation of the upper lip and subsequent decrease of incisal display on smiling.

We studied the clinical features of the upper lip in approximately 60 healthy, cooperative, Saudi persons ages from 20 - 40 years (male and female), Master pictures of a model will be taken. All patients will undergo to the measurements clinically by ruler with millimeter scale.

Our study has shown consistent values between the general normal esthetic measurements and our measurements in this study for the upper lip features in Saudi Population, and we need more studies with larger number of samples to assure our results in this country.

**Keywords:** Clinical Features; Upper Lip; Saudi Population

### Introduction

One result of adult's facial growth is elongation of the upper lip and subsequent decrease of incisal display on smiling.

**Lips:** The structures that surround the oral compassion. In the central region, their superior border corresponds to the inferior margin of the base of the nose [5-7].

Laterally, their limits follow the alar sulci and the upper and lower lips join at the oral commissures [13]. The inferior limit of the lips in the central region is the mentolabial sulcus. Anatomically, the philtrum and its pillars are a part of the upper lip [3,6]. The surface of the lip is comprised of four zones: hairy skin, vermilion border, vermilion and oral mucosa. The normal shape of the lips varies with age, and is influenced by ethnicity [2-14].

**Vermilion:** The red part of the lips It is covered with a specialized stratified squamous epithelium, which is in continuity with the oral mucosa of the gingivolabial groove. In same side, the vermilion itself is also often referred to as the lips [1,8,9].

**Vermilion Border:** The rim of paler skin that demarcates the vermilion from the surrounding skin [15].

**Frenum:** Can be defined as "a fibrous band of tissue attached to the bone of the and is frequently superficial to muscle attachments [10-12].

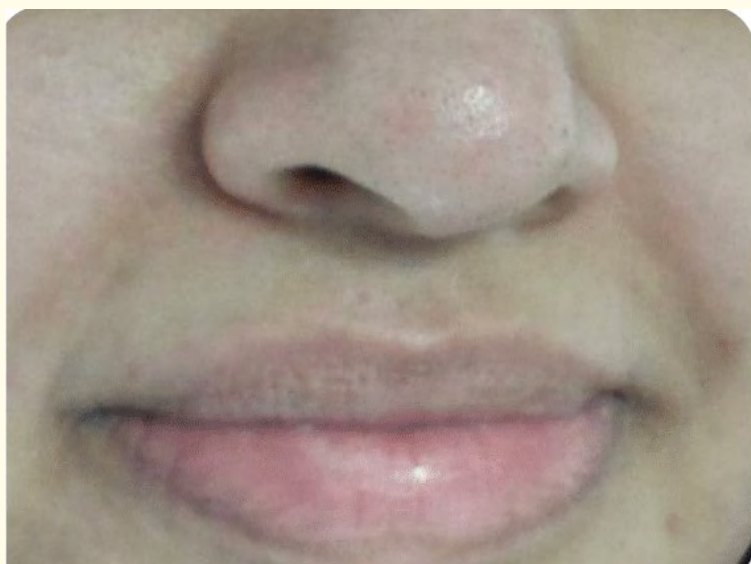
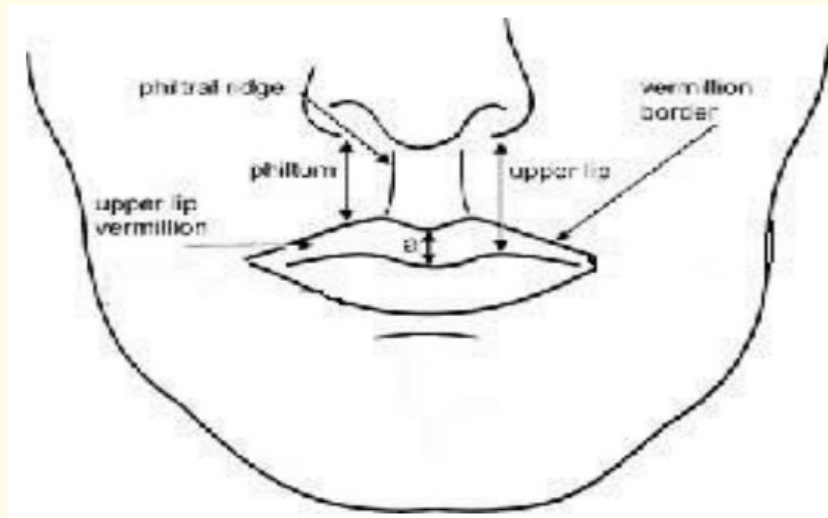


Figure 1

**Aims**

Evaluation the clinical features of upper lip in Saudi population.

**Materials and Methods**

We will study the clinical features of the upper lip in approximately 60 healthy, cooperative, Saudi persons ages from 20 - 40 years (male and female), Master pictures of a model will be taken. All patients will undergo to the measurements clinically by ruler with millimeter scale following these measurements:

- 1- The distance from the base of the nose to the upper line of the upper lip
- 2- The length of the philtrum of the upper lip
- 3- The thickness of the upper lip from the upper line near the hairy skin to the lower line near the mucosa

Date:	Patient #
<b>PATIENT INFORMATION</b>	
Patient's name:	
Birth date:	Age: Sex: <input type="radio"/> M <input type="radio"/> F
City:	
Nationality :	Job:
Bad Habits:	
Systemic Disease:	
<b>CRATIRA OF MEAUREMENT</b>	
1. Distance between base of the nose to upper line of the upper lip.	
<input type="radio"/> 20 – 24 <input type="radio"/> 15 – 20 / 25 – 30 <input type="radio"/> 10 – 15 / 30 – 35	
2. Thickness of upper lip (distance between upper and lower line for the upper lip).	
3. Length of fermium of the upper lip.	
<input type="radio"/> 6 – 10 mm <input type="radio"/> 4 – 6 mm / 11 – 20 mm <input type="radio"/> 2 – 4 mm / 20 – 25 mm	
<b>THE SCALE OF ESTHETIC RESULTS</b>	
A. Very esthetic	
B. Normal measurement.	
C. Low esthetic appearance.	
<b>PATIENT'S MEASUREMENT</b>	
Total f Measurements:	
<input style="width: 100px; height: 20px;" type="text"/>	

Figure 2

**Measurements Rule**

Then after collecting the measurements, it will be subjected by statistical analysis to compare them with the standard esthetic measurements to assess the esthetic appearance of the upper lip in Saudi population.



Figure 3

**Results**

Distance	Men	Women	Total
9 mm		4%	0.8%
10 mm			
11 mm	8.3%	4%	2.46%
12 mm		4%	0.8%
13 mm			
14 mm	8.3%	8%	9.66%
15 mm	16.6%		3.32%
16 mm		4%	0.8%
17 mm	8.3%	8%	9.46%
18 mm		4%	0.8%
19 mm	8.3%	16%	17.66%
20 mm	8.3%	4%	2.46%
21 mm	8.3%	4%	2.46%
22 mm		8%	1.6%
23 mm		4%	0.8%
24 mm			
25 mm	8.3%	4%	2.46%
26 mm		4%	0.8%
27 mm	8.3%	4%	2.46%
28 mm		8%	1.6%
29 mm	16.6%	8%	11.32%
Cases	12	25	

Thickness	Men	Women	Total
4 mm	8.3%		6.3%
5 mm		4%	5.2%
6 mm	8.3%	4%	5%
7 mm			
8 mm	16.6%	8%	13.5%
9 mm	8.3%	8%	7.18%
10 mm	8.3%	12%	7.6%
11 mm	16.6%	16%	14.4%
12 mm	16.6%	20%	14.8%
13 mm	16.6%	4%	13.2%
14 mm			
15 mm		4%	5.2%
16 mm			
17 mm		20%	15.4%
Cases	12	25	

**Discussion**

The esthetic average of the upper lip length has been measured at between 20 mm to 24mm measured from the base of nose to the edge of the upper lip inside dentistry – July 2009.

According to our results it was shown that our measurements were consistent with the normal range of esthetic appearance which was about 17mm.

So, it was noticed that the distance from base of the nose to the edge upper lip in the Saudi Population was with line of the normal esthetic smile.

Average lip mobility in normal esthetic smile is 7 mm to 8 mm as measured in the UCLA Center for Esthetic Dentistry (CED). That related with the upper lip height which determined by the length of the philtrum (7 - 9 mm).

Our results showed that the average values of the upper philtrum in all patients were consistent with the normal esthetic measurement which was about 11 mm.

Our results have showed average thickness in 12 - 16 mm for the upper lip in all samples with higher values in increasing age, these finding were supported by Obaidi HA, Abdul-Qadir MY 2007.

Our study has shown conformity standard measurement in Saudi population, so it was in the most esthetic range.

### Conclusion

Our study has shown consistent values between the general normal esthetic measurements and our measurements in this study for the upper lip features in Saudi Population, and we need more studies with larger number of samples to assure our results in this country.

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**Volume 11 Issue 4 June 2017**

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