Table 1: Descriptive analysis of subjective parameters

	Mean	SD
Velar length	**1.075**	**0.55**
Velar thickness	**1.05**	**0.48**
Velar movement	**2.21**	**0.87**
Velar height	**1.68**	**0.75**
Passavant ridge	**0.25**	**0.52**
Adeniodenlargment	**0.3**	**0.84**
Tongue assisted movement	**0.98**	**0.67**

Table 2: Descriptive analysis of objective parameters

	mean	SD
Resting palatal length	**0.85**	**0.21**
Total length in /i/ sound	**0.92**	**0.23**
Functional velar Length	**0.48**	**0.14**
Remaining velar length	**0.43**	**0.14**
Resting velar thickness	**0.27**	**0.08**
Velar thickness with /i/ sound	**0.28**	**0.09**
Resting gap	**0.25**	**0.09**
Gap with /i/ sound	**0.14**	**0.09**
Velar angle	**122.36 degree**	**17.12**
Closure ratio	**0.46**	**0.29**
Palatal extensibility	**0.14**	**32.76**

Table 3: Subjective velar change with the operation

Parameters	Pre-operative	6 months after the operation	
	(Mean/+SD)	(Mean/+SD)	P value
VelarLength	**0.37+0.68**	**1.78+0.41**	**0.000**
Velar Thickness	**0.42+0.50**	**1.68+0.47**	**0.000**
Velar Movement	**1.68+0.74**	**2.7368+0.99**	**0.008**
Velar Height	**1.36 + 0.68**	**2.0000 + 0.81**	**0.005**

Table 4: Changes in the objective velar parameters with the operation

	Pre-operative (Mean/+SD)	**6 month postoperative (Mean/+SD)**	**P value**
Resting palatal length	**0.68+0.21**	**1.01+0.22**	**0.001**
Total length in /i/ sound	**0.71+0.20**	**1.13+0.25**	**0.001**
Functional velar Length	**0.36+0.11**	**0.60+0.16**	**0.001**
Remaining velar length	**0.34+0.11**	**0.52+0.16**	**0.008**
Resting velar thickness	**0.18+0.07**	**0.35+0.09**	**0.001**
Velar thickness with /i/ sound	**0.20+0.07**	**0.39+0.11**	**0.001**
Resting gap	**0.28+0.09**	**0.21+0.09**	**0.012**
Gap with /i/ sound	**0.21+0.12**	**0.07+0.07**	**0.001**
Closure ratio	**0.32+0.23**	**0.71+0.35**	**0.003**
Palatal extensibilty	**16.6+62.96**	**12.94+19.73**	**0.570**

Table (5): subjective and objective assessment of the palateusing Mann-whitney U test.The level of significance was set at P value = .01

	Subjective assessment (mean $\pm$ SD)	Objective assessment (mean $\pm$ SD)	P value
Velar Length	**0.68 $\pm$ 0.21**	**0.47$\pm$ 0.74**	**0.113**
Velar thickness	**0.35 $\pm$ 0.09**	**0.53$\pm$ 0.52**	**0.752**