**“Dynamic smile ANALYSIS: changes with age**

**in gujarati population”**

 **1Dr.Dolly Patel, 2Dr.Falguni Mehta, 3Dr.Jaymin Suthar,4 Dr.Sandip Thakkar**

 1Professor and Head, Dept.of orthodontics and dentofacial orthopedics

 2 Professor,Dept.of orthodontics and dentofacial orthopedics

 3,4 PG student , Dept.of orthodontics and dentofacial orthopedics

 Govt.Dental College and Hospital, Asarwa, Ahmedabad-16, Gujrat
 **Corresponding Author:** Dr.Sandip Thakkar : Email id: sandip\_thakkar25@yahoo.com

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**Abstract:**

**Introduction**: The objective of this study was to define age-related changes in the human smile. The areas of interest were upper lip length at smile and repose, upper lip thickness at smile and repose, maxillary incisal display at smile, interlabial gap height at smile, smile index, percent buccal corridors, intercommisural width at rest, smile height, and smile arc.

**Materials and Method**: Video equipment was used to capture video for 150 subjects. Two frames for each subject were selected; one frame representing the lips at rest and the second representing the widest smile. After excluding 50 subjects the data for the remaining 100 subjects was analyzed with equal number of males and females.

**Results**: There was a decrease in the maxillary incisor display during smile in both males and females, with increase in age. Smile index significantly increased with increase in age. Most subjects displayed an average smile height. No subjects in the 50 and over age group displayed a high smile while no subjects in the 15-19 year old age group presented with a low smile. All the dynamic measures indicated there was a pattern of decreasing change from rest to smile especially evident after the 30-39 year old age group.

**Conclusions**: This study helps to establish age related dynamic changes. As the person ages the smile gets narrower vertically and wider transversely.

**Key words** : Dynamic changes, smile,Lip length, Maxillary incisal display.

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