



Pain Experienced In Orthodontic Treated Patients and Pain Expectation in Untreated Patients- A Questionnaire Base Study

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ABSTRACT:

AIM: The aim of the study is to assess the pain experienced in orthodontic treated patients and pain expectation in untreated patient.

METHOD: a questionnaire comprised of 15 questions pertaining pain experienced and expected among orthodontic treated and untreated patients amongst 50 people in SAVEETHA dental college and hospital, poonamallee , Chennai , India ,and results were analyzed.

INCLUSION FACTOR: people coming for treatment in SAVEETHA dental college.

I. INTRODUCTION:

Discomfort and pain are common during orthodontic treatment. Approximately, 90% to 95% of orthodontic patients are reported to experience pain during the course of orthodontic treatment. In orthodontics, the main cause of pain is the application of forces to induce tooth movement. Pain is also influenced by motivation, gender, and personality factors.¹Pain and discomfort can be one of the important discouraging factors for orthodontic treatment.

It is very important to understand the personality of the patient, pain perception, and attitude toward treatment so as to customize the treatment protocol to achieve optimum patient compliance and patient satisfaction. Pretreatment assessment of personality is one of the important factor for achieving patients' compliance, even though due emphasis has not been given in the literature to personality assessment before, during and after orthodontic treatment. Objective criteria are lacking for delineation of personality, the

available instruments are complex and orthodontists are not familiar with them.

II. MATERIALS AND METHODS:

The study was conducted in Saveetha dental hospital, poonamallee, Chennai, India. A questionnaire comprising of 19 questions pertaining the pain experienced and expected among orthodontic treated and untreated patients was prepared. The questionnaire thus prepared is shown in fig: 150 patients of Saveetha dental hospital, poonamallee, Chennai, India, were given questionnaire and their response were noted.

FIGURE: 1

QUESTIONS:

Pain experienced in treated patients and pain expected in untreated patients.

Q1. Placement of separator between the teeth was/will be painful?

a) yes. b) no. c) no opinion

Q2. Placement of band on your posterior teeth was / will be painful?

a) yes. b) no. c) no opinion

Q3. Bonding up brackets caused / will be painful?

a) yes. b) no. c) no opinion

Q4. Placement of arch wire was /will be painful?

a) yes. b) no. c) no opinion

Q5. Wearing of orthodontic elastics was/ will be painful?

a) yes. b) no. c) no opinion

Q6. Wearing of extra oral appearance was/ will be painful?

a) yes. b) no. c) no opinion



Q7. Wearing of orthodontic retainers was / will be painful?

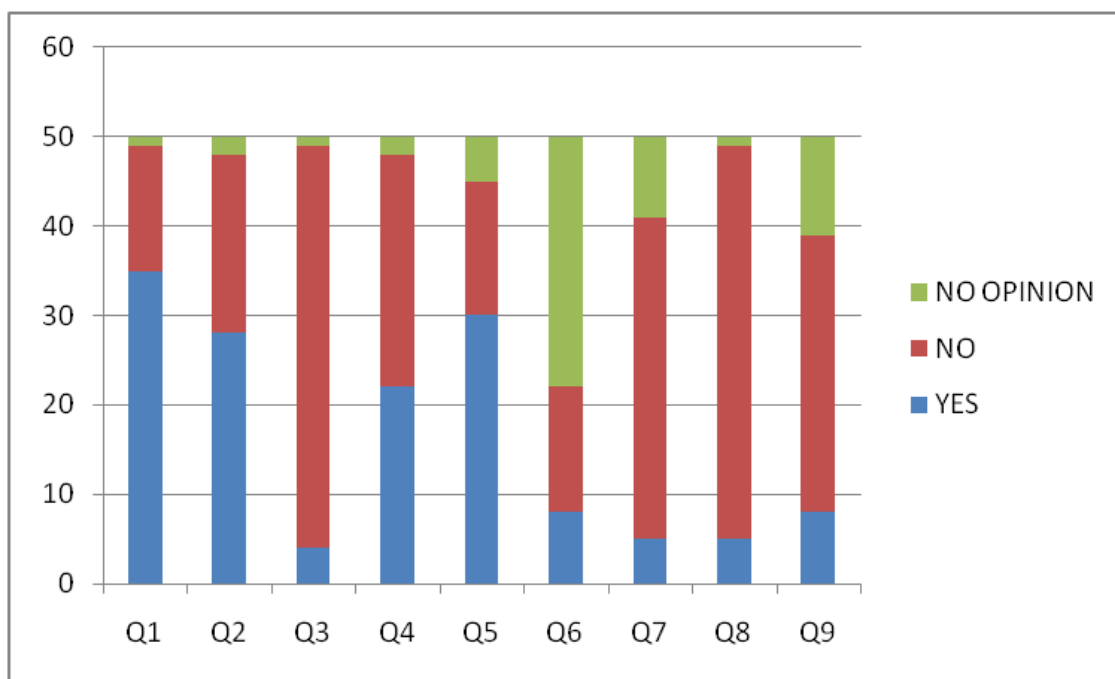
a) yes. b) no. c) no opinion

a) yes. b) no. c) no opinion

Q9. De bonding of brackets was/will be painful?

a) yes. b) no. c) no opinion

Q8. Making of impression was /will be painful?



Patient's attitude regarding orthodontic treatment

1. Braces causes lot of trouble?

a) yes b) no. c) don't know

a) yes b) no. c) don't know

2. When you wear braces you need to change your dietary habits?

a) yes b) no. c) don't know

7. It is of no use to visit an orthodontist after the braces have been removed?

a) yes b) no. c) don't know

3. Orthodontists always says that you have to wear braces more than is really necessary?

a) yes b) no. c) don't know

8. It is not a problem at all when you stop treatment as soon as your teeth are straight?

a) yes b) no. c) don't know

4. Orthodontic treatment often has no use at all?

a) yes b) no. c) don't know

9. Elastics which should be worn with the braces have no use?

a) yes b) no. c) don't know

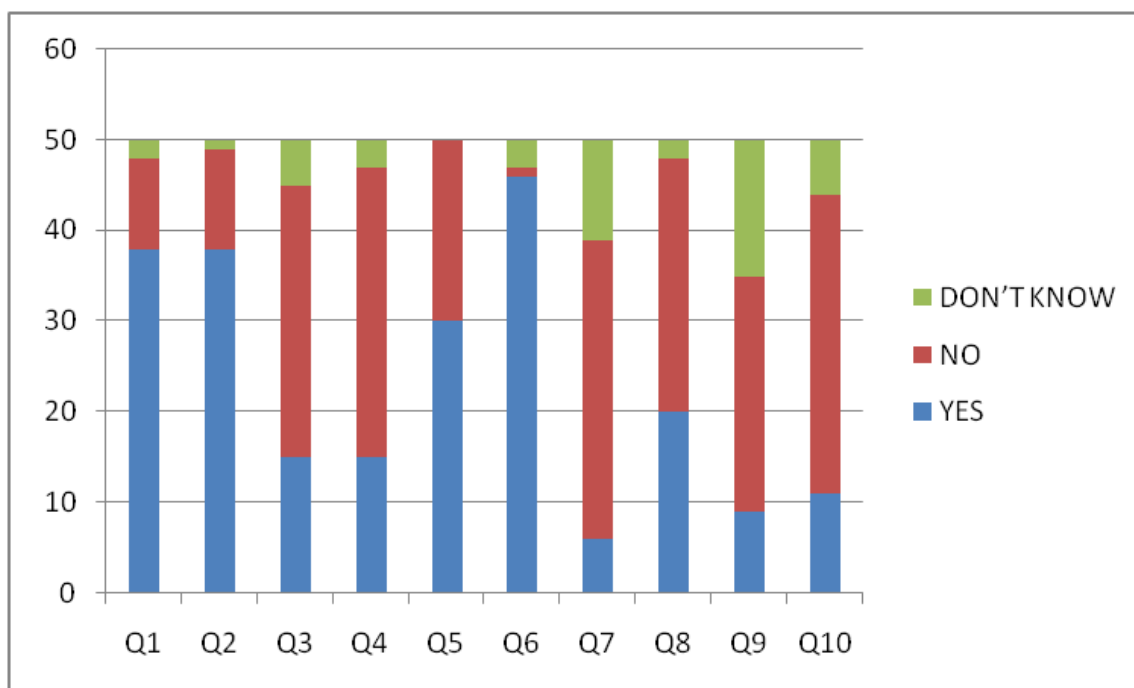
5. People wearing braces are often more teased than people without it?

a) yes b) no. c) don't know

10. Orthodontist often give incomplete information?

a) yes b) no. c) don't know

6. It is necessary to care more for your oral hygiene when you wear braces?



III. RESULT:

A total of 50 patients of Saveetha dental hospital, Poonamallee, Chennai, India, were given questionnaire. The results are summarized.

Out of 50 patients, 35% experienced pain in treated patients and 22% expected pain in untreated patients. 35% says placement of separator between the teeth was/will be painful, 28% says no pain, and 2% has no opinion. 56% says placement of band on your posterior teeth was/will be painful, 40% no pain, 4% has no opinion. 8% says bonding up brackets caused/will be painful, 90% has no pain, 2% has no opinion. 44% says placement of arch wire was/will be painful, 52% says no pain, 4% has no opinion. 60% says wearing of orthodontic elastics was/will be painful, 30% has no pain, 10% has no opinion. 16% says wearing of extra oral appearance was/will be painful, 28% says no pain, 56% has no opinion. 10% says wearing of orthodontic retainers was/will be painful, 72% says no pain, 18% says no opinion. 10% says making of impression was/will be painful, 88% says no pain, 2% has no opinion. 16% says debonding of brackets was/will be painful, 62% says no pain, 22% has no opinion.

On patient's attitude regarding orthodontic treatment, out of 50 people, 76% says braces cause trouble, 20% says braces do not cause trouble, 4%

says don't know. 76% says they had dietary changes while wearing braces, 22% says they don't change their dietary habits, 2% don't know. 30% says that the Orthodontists always says that they have to wear braces more than is really necessary, 60% says that they don't advise, 10% they don't know. 30% says Orthodontic treatment often has no use at all, 64% says there is use, and 6% don't know. 60% says People wearing braces are often more teased than people without it, 40% says they don't. 92% says It is necessary to care more for your oral hygiene when you wear braces, 2% says there is no necessary, and 6% don't know. 12% It is of no use to visit an orthodontist after the braces have been removed, 66% says it is necessary, 22% don't know. 40% says It is not a problem at all when they stop treatment as soon as their teeth are straight, 56% says that they will stop the treatment only after full treatment is done, 4% don't know. 18% says Elastics which should be worn with the braces have no use, 52% says there is use of elastics, and 30% don't know. 22% says Orthodontist often give incomplete information, 66% says they give proper information, and 12% don't know.

IV. DISCUSSION:



The survey was done to assess pain experienced in treated patients and pain expected in untreated patients and attitude of the patient's regarding orthodontic treatment among 50 patients in Saveetha dental hospital, poonamallee, Chennai, India. The results shows out of 50 pain experienced in treated patients and pain expected in untreated patients 35% says placement of separator between the teeth was/will be painful 28% says no pain and 2% has no opinion. 56% says placement of band on your posterior teeth was / will be painful 40% no pain 4% has no opinion.8% says bonding up brackets caused / will be painful 90% has no pain 2% has no opinion. 44% says placement of arch wire was /will be painful 52% says no pain 4% has no opinion.60% says wearing of orthodontic elastics was/ will be painful 30% has no pain 10% has no opinion. 16% says wearing of extra oral appearance was/ will be painful braces 28% says no pain 56% has no opinion.10% wearing of orthodontic retainers was / will be painful 72% says no pain 18% says no opinion.10% making of impression was /will be painful 88% says no pain 2% has no opinion.16% says De bonding of brackets was/will be painful 62% says no pain 22% has no opinion.

On patient's attitude regarding orthodontic treatment out of 50 people 76% says braces cause trouble 20% says braces do not cause trouble 4% says don't know. 76% says they had dietary changes while wearing braces 22% says they don't change their dietary habits 2% don't know. 30% says that the Orthodontists always says that they have to wear braces more than is really necessary 60% says that they don't advice 10% they don't know.30% says Orthodontic treatment often has no use at all 64% says there is use and 6% don't know.60% says People wearing braces are often more teased than people without it 40% says they don't.92% says It is necessary to care more for your oral hygiene when you wear braces 2% says there is no necessary and 6% don't know.12% It is of no use to visit an orthodontist after the braces have been removed 66% says it is necessary 22% don't know. 40% says It is not a problem at all when they stop treatment as soon as their teeth are straight 56% says that they will stop the treatment only after full treatment is done 4% don't know.

18% says Elastics which should be worn with the braces have no use 52% says there is use of elastics and 30% don't know. 22% says . Orthodontist often give incomplete information 66% says they give proper information and 12% don't know. The results of the present study have shown that the pain perception was similar for treated and untreated groups and there was no effect of treatment on pain perception . Patient compliance and attitude of the patient toward treatment are important factors for successful treatment. In the present study, there was no statistically significant difference in attitude of treated and untreated patients .

V. CONCLUSION:

The present study indicates that personality traits affect patients' pain perception and attitude toward orthodontic treatment. Knowing the personality of the patient before commencing, during and after the treatment may be beneficial for the patient and for the orthodontist. Personality traits have a definite effect on pain perception and attitude of the patients. Pretreatment knowledge of personality of the patients could be useful in orthodontics.