

Advantages and disadvantages of endodontic management

Running title : Advantages and disadvantages in before and after root canal treatment

ABSTRACT

INTRODUCTION:

Root canal treatment is a treatment sequence for the **infected** pulp of the tooth which is intended to result in elimination of infection and **protection of the decontaminated tooth** from future microbial invasion.

AIM:

The aim of the present study is to create awareness among outpatients on the advantages and disadvantages in before and after root canal treatment.

MATERIALS AND METHODS:

The questionnaire based survey was conducted among 101 patients in Saveetha Dental College and Hospitals. The participants range from 20-56 years above Main objective of performing root canal treatment is to eliminate bacteria from the infected root canal system/ remove the inflamed pulp tissue and close it with **biological material like zinc oxide**. Root canal treatment done well then regardless of the number of visits, will create a favourable environment for healing.

RESULT:

The observed results in the present study were depicted in pie charts and results were analysed using SPSS.

CONCLUSION:

The recent advances in endodontics technology attract dental material a lot as they complete the root canal treatment in a couple of days periapical tissue undergoes a lot of changes.

Key words: root canal treatment, endodontics, biological material, create awareness, novel method

INTRODUCTION

Root canal treatment is a treatment sequence for the infected pulp of the tooth which is intended to result in elimination of infection and protection of the decontaminated tooth from future microbial invasion. **Endodontics is a branch of dentistry** that deals with diseases of the tooth root and tooth pulp. The process involves an interaction of knowledge and experience of various outcomes and balancing risk benefits that occur due to root canal treatment (1) .

41 Root canal treatment has more methods and techniques, different types of anesthesia (1,2) . It
42 is very important to note the fact that providing and informing the patients about the advantages
43 of root canal like retaining of the tooth is very essential (2). The person's ability to process the
44 informant is able to be processed due to stress (3). In some cases it has been proven that income ,
45 dental cost and insurance status dental cost and insurance status have become dental ear factors
46 why patients have become resistant to see the dentist (4) .
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48 Anxiety is more common in women (5) . The positive impact and outpact of root canal treatment
49 was to be shown regardless of the cultural background of the patients or the measure used to
50 differ them (6) (7–14).Our team has extensive knowledge and research experience that has
51 translate into high quality publications(15–29) hence,the aim of this study was to evaluate the
52 knowledge and awareness of patients in the samples of saveetha dental college patients to assess
53 the reason they choose root canal treatment and to assess their corners and expectations and
54 choices (30).
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56 MATERIALS AND METHODS

57 The questionnaire based survey was conducted among 101 patients in saveetha dental college.
58 The participants range from 20-56 years above. After explaining the experimental procedure and
59 making the participant fully aware of the role they play in the project. The institutional analysis
60 was done to analyse knowledge, attitude, awareness of the patients exposed to root anal
61 treatment . The survey was online through online based google forms . The questionnaire
62 contained questions on demographic details also. Method of sampling was simple random
63 sampling . The responses were collected and tabulated in the excel sheet and analysed . data was
64 entered in spss version 23 and the results are present in the bar graph and pie chart . The chi
65 square test “monte carlo ”was used to analyze and compare the knowledge and awareness of
66 root canal treatment . the list of independent variabile age,sex. The list of dependent variables is
67 awareness and knowledge
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69 Questionnaire

Serial number	Questions	Options
1	Did you pain after root canal treatment	Yes , no ,maybe
2	Why did you choose root canal treatment over tooth extraction	Less painful, for no gap between teeth
3	Did you know root canal treatment could result in a weaker tooth after treatment	Yes , no ,maybe
4	Did you know root canal treatment could prevent gap in the mouth	Yes , no ,maybe
5	How to maintain hygienic way in root canal treatment	Eating healthy, drinking water, use chewing gum
6	Did you sleep before day of the treatment	Yes , no ,maybe
7	Did you feel stress out before day of the treatment	Yes , no ,maybe
8	Did you get expected outcome after treatment	Yes , no ,maybe
9	Did you consume antibiotics after treatment	Yes , no
10	Did you have any swelling and tenderness in nearby gums before treatment	Yes , no
11	We're you aware of tooth filling	Yes , no

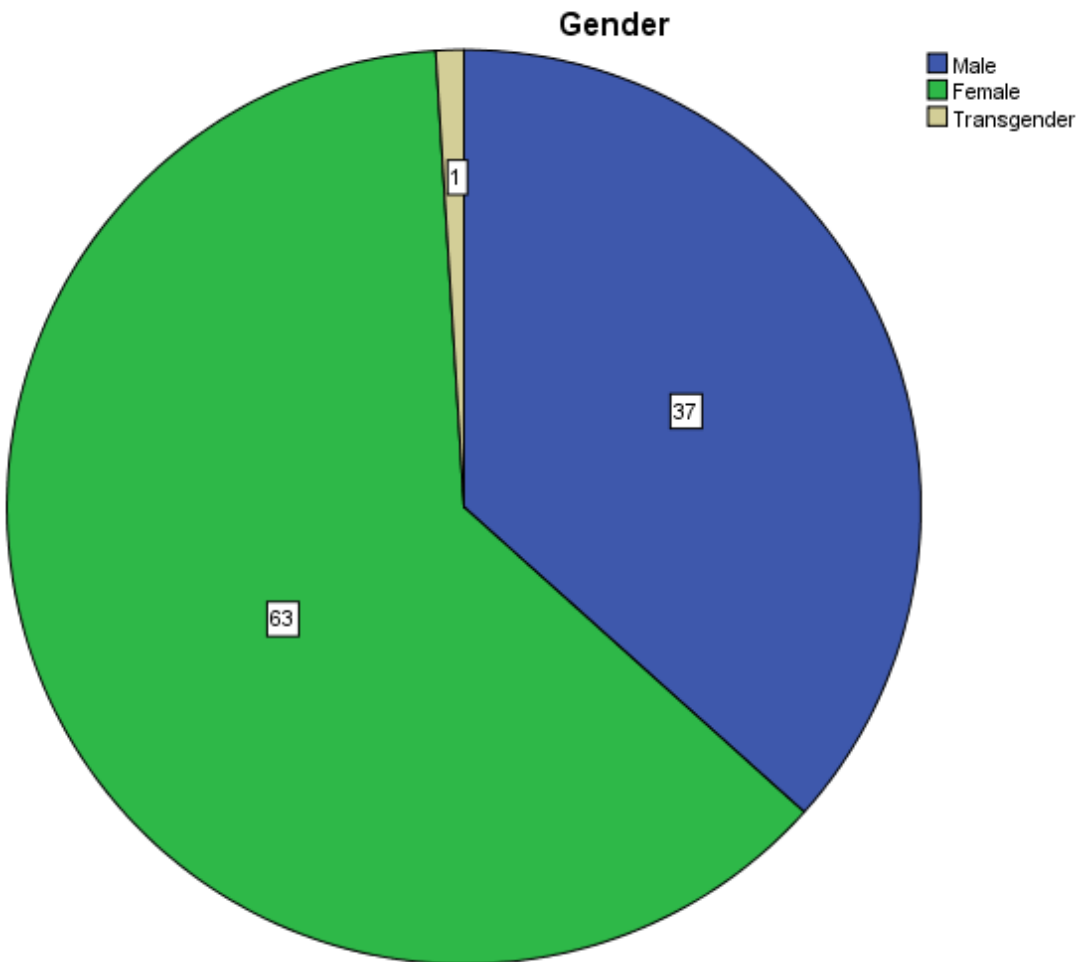
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72 RESULT

73 The present study has observed 32% are aged 22-35 years, 22% are aged 36-45 years
74 14% are aged 20 -22 , 16% are aged 46- 55 years , 9 % are aged 5 and 8% are aged 55 above .
75 Fig 1. The present study observed that in Fig 2 did you expect outcome out of the treatment 78%
76 yes 22 said no and 1% said maybe pearson chi square test shows p value is 0.269 ($p > 0.05$) hence
77 it is statistically not significant .Fig 3 shows a bar graph representing the association between
78 gender and did you get a hygienic way for root canal treatment responses. **The majority of the**
79 **females are into maintaining hygienic ways to root canal treatment. Majority of the participants**
80 **are females in which Pearson chi square test shows p value is 0.029($p > 0.05$) which is significant**
81 Fig 4 shows a bar graph representing the association between gender and **did you get a root canal**
82 **treatment that could result in weaker teeth after treatment** responses. pearson chi square test
83 shows p value is 0.032 ($p > 0.05$) hence it is statistically significant Fig 5 shows a bar
84 graph representing the association between gender and did you get a root canal treatment that

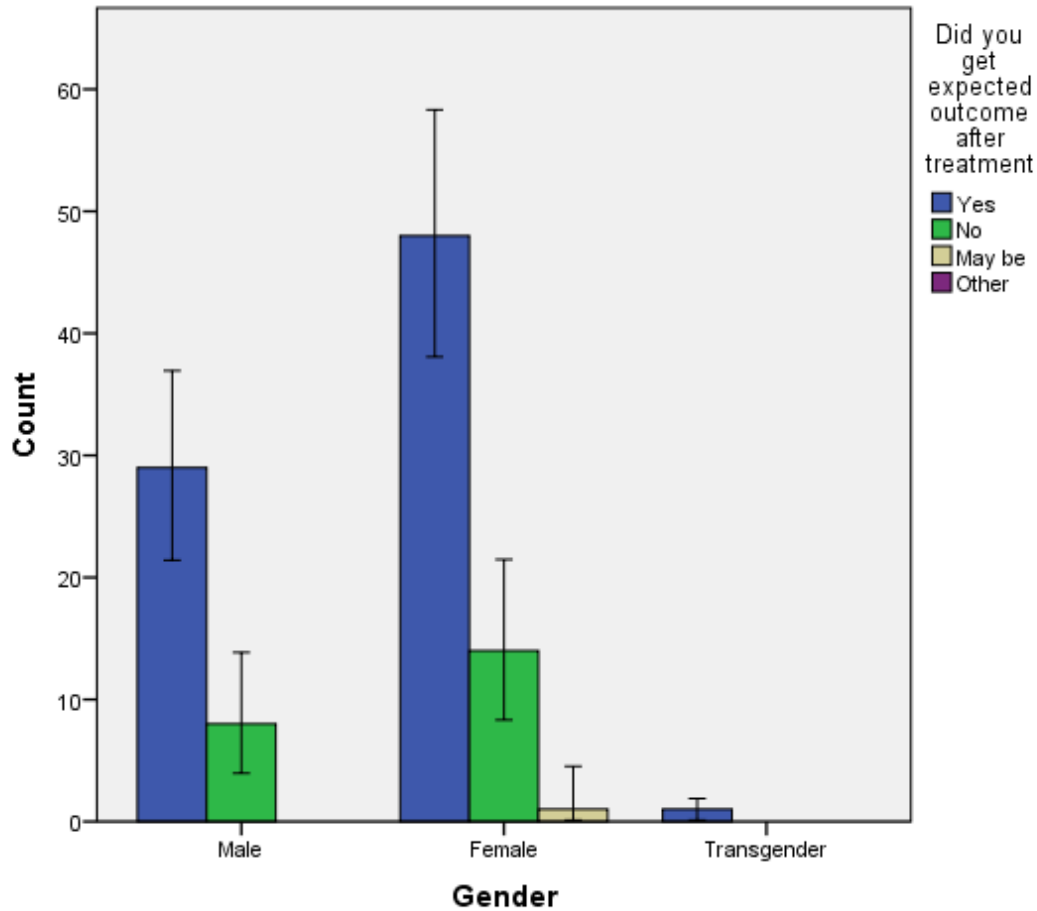
85 could result in weaker teeth after treatment responses pearson chi square test shows p value is
86 0.048(p value> 0.05) hence it is statistically significant.

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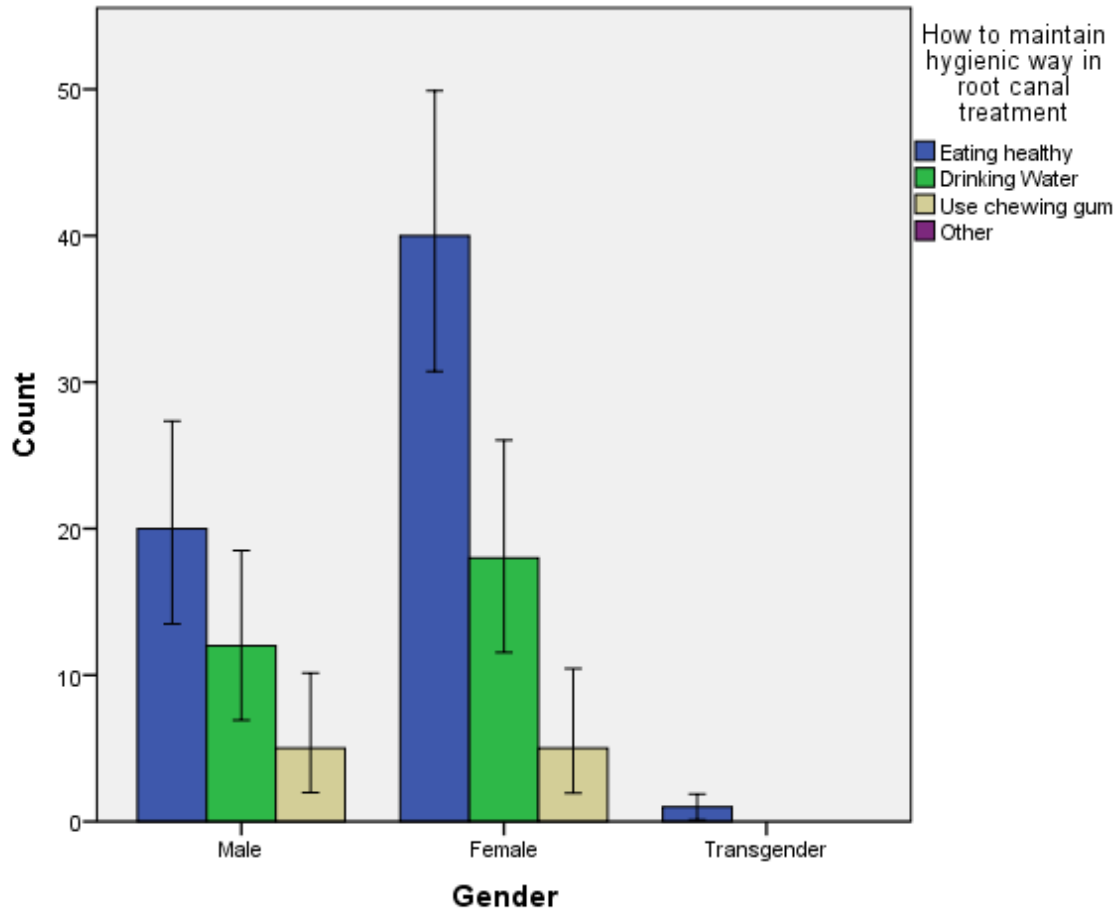
Fig 1 shows the responses to the gender male is 37 % , female is 63%and transgender is 1% .
male is blue colour , female is green and yellow is transgender



Error Bars: 95% CI

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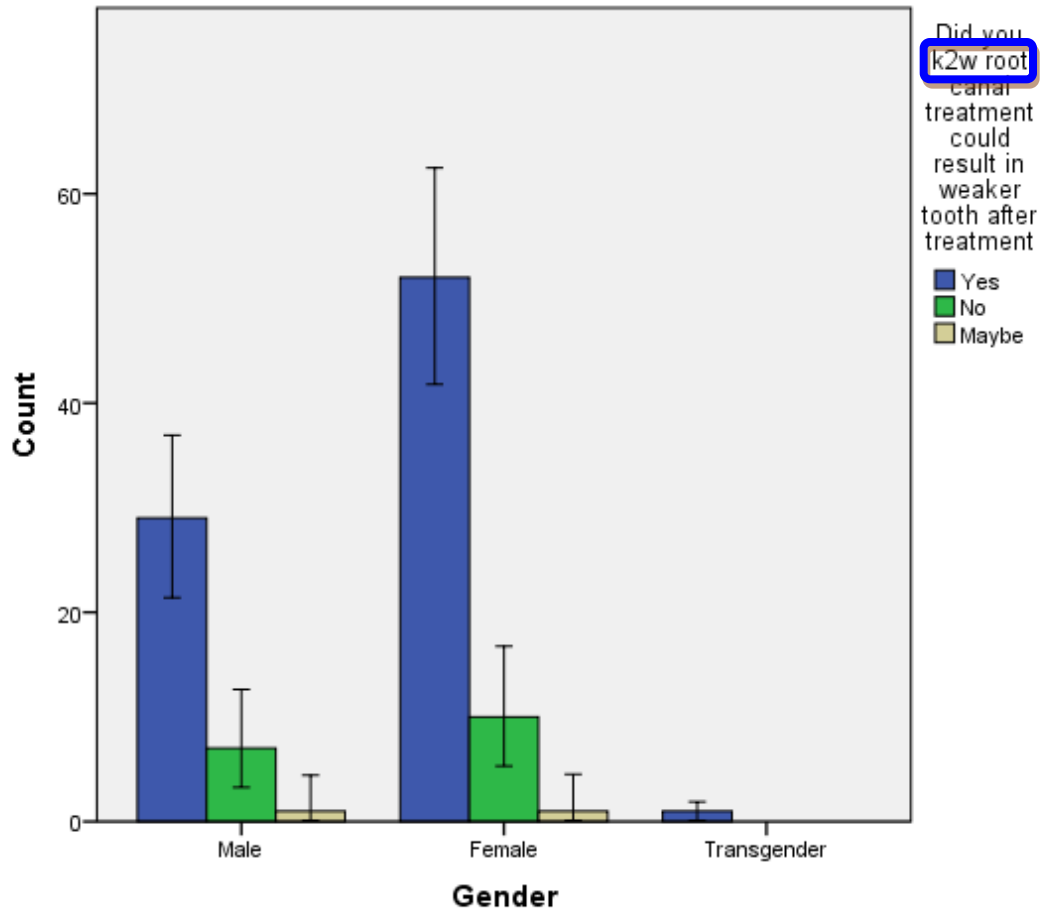
Fig 2 shows a bar graph representing the association between gender and did you get expected treatment responses. x axis represents gender and the y axis represents the number of responses for the amount of overall activity . blue represents yes , green represents no and yellow represents may be . Majority of the participants are females in which Pearson chi square test shows p value is 0.029 (p value > 0.05) which is significant



Error Bars: 95% CI

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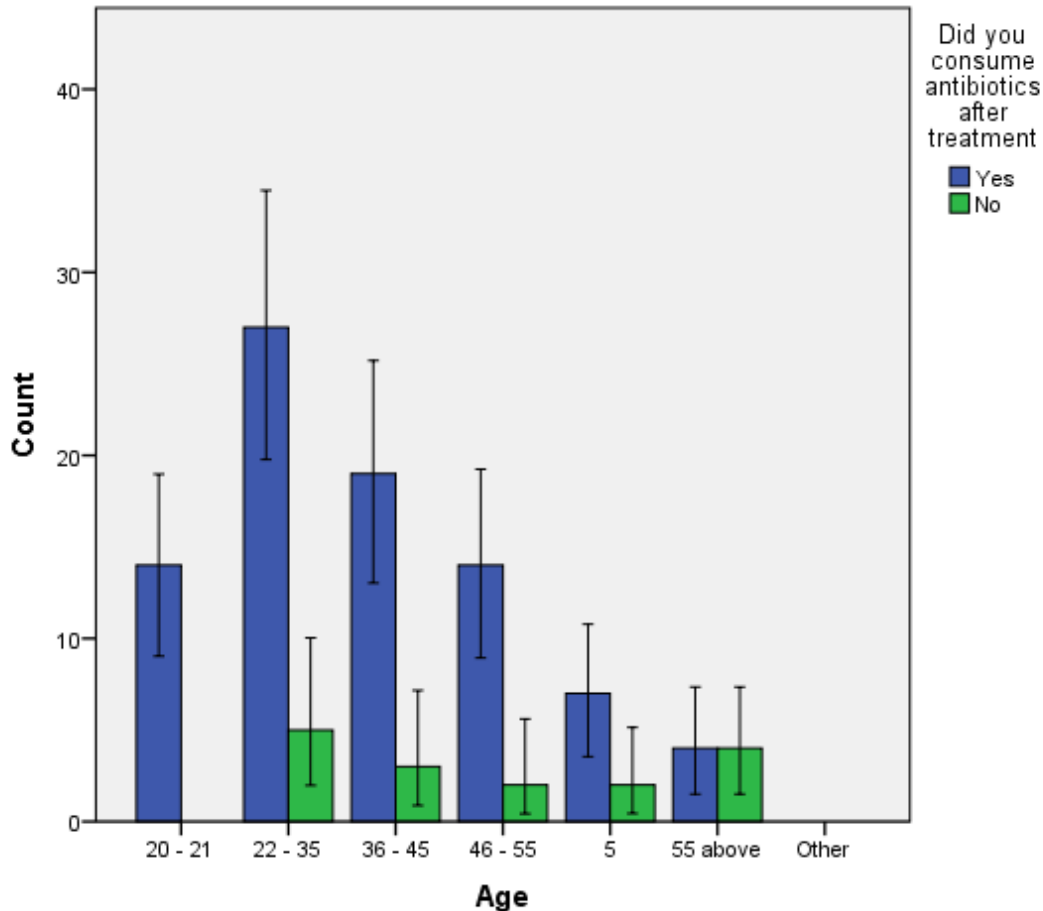
Fig 3 shows a bar graph representing the association between gender and did you get a hygienic way for root canal treatment responses . x axis represents gender and the y axis represents the number of responses for the amount of overall activity . blue represents eating healthy , green represents drinking water , and yellow represents chewing gum . The majority of the females are into maintaining hygienic ways to root canal treatment . pearson chi square test shows p value is 0.269 (p value> 0.05) hence it is statistically not significant



Error Bars: 95% CI

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Fig 4 shows a bar graph representing the association between gender and did you get a root canal treatment that could result in weaker teeth after treatment responses . x axis represents gender and the y axis represents the number of responses for the amount of overall activity . blue represents yes , green represents no , and yellow represents maybe .The majority of the females are into did you root canal treatment could result in weaker teeth . pearson chi square test shows p value is 0.032 (p value> 0.05) hence it is statistically significant



Error Bars: 95% CI

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 127 **Fig 5** shows a bar graph representing the association between gender and did you get a root
 128 canal treatment that could result in weaker teeth after treatment responses . x axis represents
 129 gender and the y axis represents the number of responses for the amount of overall activity .
 130 blue represents yes , green represents no , and yellow represents maybe .in the age group 22 -
 131 35 years are into did u consume antibiotics after the treatment pearson chi square test shows p
 132 value is 0.048(p value > 0.05) hence it is statistically significant

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 136 **DISCUSSION :**

137 The branch of endodontics is a fast growing specialty with the availability of recent advances
 138 including various modernistic tools significantly influencing the quality and durability of
 139 treatment effects.The most common cause of seeking dental treatment is pain, for the alleviation
 140 of which a root canal treatment might be carried out. demonstrates that patients visiting the
 141 dental office expect pain usually larger than that act experienced during treatment.People with
 142 high dental fear have more probability to delay or avoid dental visiting, and a number of fearful
 143 people regularly cancel or fail to show for appointment.

144 It has been noted that trying to manage patients with dental fear is a source of considerable
145 stress for many dentists.(31–34) In our study we found that the pain was the most important
146 patients' concerns associated with root canal treatment. The knowledge about endodontic
147 treatment came from various sources including visit to the dental clinic, print and online media,
148 friends and relatives. In addition, patients can benefit from many forms of local anesthesia, and
149 the use of nitrous oxide, which according to recent reports, enhances the effect of their actions.
150 Costs associated with endodontic treatment are still debatable. Patients often stress that they are
151 too high but adequate to the complexity of the treatment. Nevertheless, more than half of
152 respondents are willing to pay a higher amount to avoid tooth loss, similarly as in the previous
153 study.(31–33) . The limitation of the study is having small sample size, hence the study further
154 extend for large sample size and interpret, further scope of this study by having more data the the
155 proper assessment on advantages and disadvantages in before and after root canal treatment can
156 be taken .

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158 **CONCLUSION**

159 From this study, it is concluded that patients underwent root canal treatment aware about
160 advantages and disadvantages of before and after the root canal treatment.

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