Satisfaction level in dental phobic patients with implant-supported rehabilitation performed under general anaesthesia anesthesia in patients with dental phobia: a prospective study

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Abstract

<u>Background:</u> Phobie patients with dental phobia avoid dental treatment, impairing their oral health and making it challenging to offer them prosthetic rehabilitation. This study evaluated patients' experience of implant-supported rehabilitation treatment prosthetic treatment after implantation performed under general anaesthesiaanesthesia due to dental phobia and severe pharyngeal reflexes (SPR). The effect of sexgender, age, and implant location of implantation on patient satisfaction was prospectively evaluated tested.

Methods: Two hundred and five patients underwent implantation under general anesthesia both-in one or both jawsmaxilla and mandible, respectively. After a trans-gingival healing period of 6-8 weeks, fixed implant bridges were inserted. Patients completed-were administered the Ooral Haealth Impact Perofile questionnaire (OHIP-14).) questionnaire and aAn additional set of six special questions-was also developed and considered. Analysis of tThe OHIP-14 total score was made analyzed using logistics regression. The Wald chi-square test was used to analyse analyze the effect of age, sex, gender and implant location on patient satisfaction-of implantation.- Effect sizes were estimated as odds_-ratios and associated 95% Wald confidence intervals. Results: Eighty--two of the 205 patients were included after prosthetic treatment. After the start of treatment, 38 patients were excluded (4 died and 34 could no²t be reached)... Forty-three patients (age: 30-90 years)were finally included in the OHIP-14-analyses were made by 43 patients (30-90 years)after exclusion. In total, 67% of 67% of patients were totally satisfied with the whole implant rehabilitation (scoreing 0). Mean of total score was 2.5. Only age significantly affected significantly (Pp=0.014) patients satisfaction. YThe obtained data indicate that younger patients (30-64 years), especially women, wereare less satisfied with their treatment (4.95) than older patients (0.3;) for age group (65–90 years). Special questions' data showed that 94.5% of patients were satisfied with their treatment. 77.3% continued regular check-up after treatment and 96.9% would undergo the same treatment again. 95.5% would recommend implants to a friend of colleague.

Conclusion: <u>SexGender</u> and <u>implant</u> location of <u>implantation</u> had<u>we</u> no significant influence on patient satisfaction. Younger patients, especially women, <u>wereare</u> less satisfied than older patients.

Introduction

Anxious patients <u>due towith</u> dental phobia or severe pharyngeal reflexes (SPR) show poorer oral health and more decayed and missing teeth than typical individuals [1]. Prosthetic treatments are needed for <u>recovery</u> <u>ofreplacing</u> missing teeth in these patients₁₇ however, these patients are uncooperative and show poor <u>compliance to</u> dental treatment-<u>compliance</u>, which complicates any treatment₁₅ increases <u>the</u> risk of failure, and makes it difficult to perform implant-supported rehabilitation [2, 3]. A very long procedure is expected if **Commented [A5]:** As per the journal guidelines, the abstract should be unstructured and should be a single paragraph of about 200 words maximum without headings.

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implantation is considered for these patients. Consequently, local anesthesia <u>iswill be</u> insufficient <u>for to</u> <u>perform</u> an <u>adequate</u> operation [4, 5]. In such cases, surgery under general anesthesia <u>iseould be</u> an option that enables patients undergoing implant treatment to improve their oral health₇ and well-being.

General anaesthesia makes it convenient possible for patients to have undergo all surgical procedures carried out in one session, and while then implants can be installed in the maxilla, -or-mandible, or if needed in both jaws in one-another single appointment [6]. As known, rRehabilitation with implants prevents continuous alveolar bone resorption, and preserves alveolar ridge height and width, which ensures ensuring positive eesthetic outcomes [7, 8] and, comfort and efficacy of prosthetic reconstruction [9_, 10,11]. Additional positive factors for patients are increase in self-esteem, and patients² satisfaction [12, 13].

When assessing the outcome of implant treatment, it is important to consider both the clinicians' and the patients' appraisals-perspectives [14_,15,16]. For the clinicians, implant survival, prosthesis longevity, and the complications are the most important factors. HoweverOn the other hand, cost effectiveness benefit, as well as social and psychological impact of the treatment are more important for the patients [17, 18]. Patients' satisfaction depends on function, comfort, esthetics, and speech disruption [15, 17] and may represent a crucial factor of implant success for the patient [19_,20,21,22]. Patient satisfaction is seen as a vital aspect by evaluatingof the overall quality of dental rehabilitation and should be-made determined on a regular basis to allow clinical practitioners to assess their services [23_,24,25].

The Oral Health Impact Profile (OHIP) questionnaire is an instrument developed to be used for use in clinical studies [26_,27,28,29,30,31,32,33] to measure oOral hHealth-related qQuality of [Life (OHRQoL). Several short versions of this tool have been developed, such as the version OHIP-14-, which consists of seven subgroups with two questions for each subgroupone [27, 28, 31]. [The OHIP-14 questionnaire used in this-the current investigation was previously validated and recommended for use in clinical studies [27, 28, 31]; it covers a wide range of oral health-related problems, i.e.i.e., functional limitation, physical discomfort, psychological discomfort, physical disability, psychological disability, social disability, and handicap [26,-29_,-30,31].]

Most dental satisfaction studies <u>were-have been performed on patients who have undergone general dental</u> treatment [34], and patients with dental anxiety <u>show have been shown to be significantlyconsiderably</u> <u>associated with greaterhigh</u> dissatisfaction [35]. Various <u>studies have evaluated</u><u>investigations were made to</u> <u>study patient</u> satisfaction with implant treatment [41, 42]. <u>However, tBut to the best of ourthe</u> knowledge-of the authors of this study, there is no study <u>has</u> investigated satisfaction of patients <u>experiencingsuffering</u> from dental phobia or SPR after with implant treatment under general anesthesia. <u>Therefore, this study fills</u> an important gap in the academic field and should be used to promote a debate.

Therefore, the presenthe study aimed of the study is therefore to evaluate the satisfaction of partially edentulous patients, experiencingsuffering from dental phobia and SPR, with their implant-supported rehabilitation performed carried out under general anesthesia in one or both jaws. The effect of sexgender,

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age, and <u>implant</u> location <u>of implantation</u> was <u>ill be testedevaluated</u>. This study evaluated patients' experience of oral surgical and prosthetic procedures as well as their satisfaction with <u>the</u> treatment outcome. The hypotheses of this study are <u>as follows</u>: 1) <u>p</u>Patients <u>exhibitingsuffering from</u> dental phobia and SPR <u>will</u> experience good patient satisfaction after implant treatment under general anesthesia; 2) age, <u>sexgender</u>, and <u>implant</u> location <u>of implantation</u> will affect patients satisfaction; and 3). success of rehabilitation with <u>fixed</u> implant_<u>fixed</u> bridges <u>by-in</u> these patients is similar to <u>ththat in patients</u> the patients treated without general anesthesia.

Results

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Eighty--two patients <u>who</u> were treated with implants under general anesthesia between-<u>January 1, 2006, and</u> <u>December 31, 2012, 01.01.2006 to 31.12.2012-were and</u>-included and treated in this study. <u>SubsequentlyAfter start</u>, 38 patients were excluded (4 died and 34 could not be reached to complete thewere <u>lost to follow-up</u> follow-up-after prosthetic treatment). One patient had missing data on several OHIP-14 items. The total <u>patients</u>-number <u>of patients</u> included in the analyses of the OHIP-14 <u>analyses waswas</u> 43 (<u>age range:</u> 30–90 years). Table 2 shows the distribution of <u>sexgender</u>, age, and <u>implant</u> location-of implantation among these patients. The majority of patients were <u>women females</u> (63.6%). <u>Of all implants</u> <u>inserted</u>, 47.7% of the implants-were inserted in the maxilla and 31.8% of the patients had implantswere installed inserted in both jaws.

The implant treatment of all 43 patients included in this study was successful with regard to as far as function and comfort. The follow-up period after the prosthetic reconstruction ranged from 3 to 9 years. Figure 1 shows the OHIP-14 total score distribution for all patients. The OHIP-14 total score was low for the majority of the patients, with 67% scoring 0 and with a mean value total score of 2.5. The OHIP-14 total score by subgroups, i.e., sexgender, age, and type of intervention group, are is shown in Figuress- 2, 3, and 4, respectively. The graphs seem to suggest some differences. However, the data indicate that younger patients (age group 30–64 years), especially young women, wereare less satisfied (mean = $4.95\pm\pm/-9.81$) than older patients (age group 65–90 years;) with (mean = $0.3\pm\pm/-0.76$). Logistic regression analysis (Table 3) was used to investigate the relationship between these background variables and the OHIP-14 total score.

Discussion

 The literature shows that patients satisfaction has been considered as an important criterion for treatment

 success since it is associated with compliance and in turn, anticipated treatment quality [9,10,11, 37]. The

 r
 first hypothesis of this the current study was confirmed because the results clearly demonstrated that the

 included patients wereare generally satisfied with their treatment and hadve good OHRQoL after treatment.

 The overall of patients showedhave even changesd in their dental behaviour behavior, which and continued

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even after the performed oral rehabilitation, and they to visited a dentist or an oral hygienist for regular 110 check-ups. The second hypothesis was partially confirmed in part-because the obtained data showed that only age significantly affecteds patient satisfaction. Younger patients are-were less satisfied than older 112 patients. However, But patients' sexgender and implant location of implantation dido not influence patient satisfaction. Evaluation of the results showed that the implant-supported bridges were successfully 114 maintained in all patients after 3 to 9 years of function, which confirmed the third hypothesis. The sSuccess was measured as the retention of the original screw-retained bridges over time. Patient satisfaction is an 11 important criterion for treatment success since it is associated with compliance and, in turn, anticipated 11 treatment quality [9–11, 37]. Similar results of success have been shown-reported in several studies on 119 patients treated without general anesthesia [9, 10, 37-38,39].

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Precise evaluation of the results indicated that only age has a statistically significant effect $\frac{1}{(p < 0.05)}$ on 12 patients' satisfaction, reflecting and that the number of patients viewing themselves as "problem free" 121 increased with age. Analyses of data by subgroups indicated that younger patients, especially women, 122 showed more psychological discomfort and are were less satisfied than older patients (Figs. 2 and 3). This is 123 124 an interesting observation and may reflects uggests that aesthetics has become an important issue in modern 12 society [40] and that the social lifestyle and attitude of younger peoples' social life style and attitude differ 12 <u>differ</u> from <u>those of</u> older <u>individuals'people</u>. These results are in line with <u>those of</u> a previous study [28]_a 12 which also shows that oral discomfort has different influences on life depending on sexgender and age. In 128 the current study, the sexGender of patients and location of the intervention showed in this study no 12 significant influence on patients' satisfaction (P > 0.05). However, a remarkably a speet is that, in all age groups presented in the graph 2, there are less satisfied women were less satisfied with their treatment than 130 131 men.

132 These data are in accordance with the findings of Pjetursson et al. [41] who-[41] finding; they reported find that more than 90% of patients treated with crowns or implant-supported fixed partial dentures are 133 134 completely satisfied. The obtained results confirmed that 77.3% of the included patients in this study visited a dentist or an oral hygienist for regular check-up after treatment check-up. Most patients (93.9%) dido not 135 regret this kind of treatment and (96.6%) were willing to have the same treatment performed again if 13 137 neededrequired.

The findings of this the current study indicate that the preoperative psychological factors due to dental 138 phobia and SPRs have no effect on post treatment patients' satisfaction with their implant treatment 139 performed under general anesthesia. 140

From the results we conclude, To conclude, iwith regard to the problem addressed that it is recommended to 141 perform that implant treatment should be performed under general anesthesia on in patients with dental 142 phobia and SPR-under general anesthesia. Consequently, implant-supported prostheseis canwould become a 143 treatment option for these patients who otherwise refuse dental treatment, because of due to the availability 14

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of general anesthesia-become a treatment option for these patients who otherwise would stay refusing any Furthermore, contact to the dental professionals, who in turn, have usually excluded implant treatment in in 146 eases involving patients with phobia or SPRs. 147

Methods

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In the present study, tThe OHIP-14 questionnaire was used to measure patient satisfaction-in this 149 investigation. It is a 14-questions survey, grouped intoas seven domains: functional limitation, physical pain, 150 151 psychological discomfort, physical disability, psychological disability, social disability, and handicap 152 (Annex). The OHIP-14 guestionnaire has been previously translated into Swedish; and the reliability and 153 validity has have been tested and the questionnaire has been recommended for use in studies in the Swedish population [28]. Additionally, a set of six special questions related to patients' dental behaviour behavior and 154 treatment satisfaction (Table 1) was developed and used in Swedish-Sweden and used as well. The study 155 156 proposal was submitted to the ethical committee of Stockholm in Sweden (No 2014/1811-31/1). The board of the ethical committee did not see any ethical research obstacles to this study. 157

158 Study population

This prospective study included volved partially edentulous patients who had lost their teeth in one or both 159 jaws and-were treated under general annesthesia with screw-retained fixed implant bridges between 160 January 1, 20062006, toand 31 December 31, 20122012, in a private clinic in Stockholm, Sweden. Informed 161 162 consent was obtained from all individual participants included in the study. All treated patients had to be in a good general health eondition to be eligible for undergoing general anaesthesia anesthesia, which was 163 164 performed and monitored by an anaesthetistanesthetist. The implant surgery itself did not differ from the conventional implant procedure used for non-phobic patients treated without general anaesthesiaanesthesia. 165

Inclusion criteria 166

- Patients were selected according to the following inclusion criteria: 167
- 1) pPatients with dental phobia and -SPRsevere pharyngeal reflexes. 168
- 2) patients with In good general health-condition. 169
- 3) patients wWith edentulous maxilla, mandible, or both-170
- 4) patients wWith edentulous jaws a minimum of 6 months after extraction-17
- 5) patients w With no bone augmentation prior to or in combination with implant insertion-172
- 6) iImplantation performed under general anaesthesiaanesthesia: 173
- 7) implantation wWith 4-6 Straumann implants (Straumann AG, Basel, Switzerland) in the maxilla-174
- 8) implantation wWith 4-5 Straumann implants in the mandible-17

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Identifies the institutional and/or licensing committee that approved the experiments, including any relevant details.

Confirms that all experiments were performed in accordance with relevant named guidelines and regulations.

Confirms that informed consent was obtained from all participants and/or their legal guardians.

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- 9) implantation wWith screw--retained fixed implant bridges-176 Exclusion criteria 177 The following pPatients were excluded from the study: 178 1) patients tFreated without general anaesthesiaanesthesia-179 2) patients tFreated with an other implant system other than Straumann implants-180 3) patients wWith other-rehabilitation_other than screw--retained fixed implant bridges-181 182 4) patients tTreated with bone augmentation were excluded. 183 Treatment protocol Patients were treated according to the following protocol: 184 1) Total extraction due to caries or periodontitis or both was done-performed under general 185 anaesthesia anesthesia, followed by at least a 6-month healing period. 186 2) Interim removable dentures were fabricatedproduced in advance and used by the patient during the 187 188 healing period. 189 3) Straumann implants were placed in the edentulous maxilla, mandible, or both jaws (4-6 implants in the maxilla and 4-5 implants in the mandible) while patients were under general anaesthesiaanesthesia in the 19 edentulous one jaw or in both (4-6 implants in maxilla, 4-5 implants in mandible). 191 4) A trans-gingival healing period of <u>a</u> minimum of 6 to 8 weeks was maintained before continuing the 192 treatment (delayed loading). 193 5) Final restoration with fFixed implant bridges was performed. treatment was the final restoration. 194 Protocol for general anaesthesia 195 Premedical evaluation of each patient was performed by the anaesthetistanesthetist. General anesthesia was 196 19 preoperatively induced Induction starts preoperatively in through a peripheral venous line with 4 mg
- preoperatively induced Induction starts preoperatively in through a peripheral venous line with 4 mg
 bBetamethasone, (Celestone, Merck & Co. Inc., Whitehouse Station, NJ USA), 0.5 mg aAtropine_sulphate
 (Myian AB, Stockholm, Sweden), and 2 g bBenzsylpenicillin (Meda AB, Solna, Sweden). In case of allergy
 to bBenzsylpenicillin, clindamycin was used (Clindamycin Orifarm, Stockholm Sweden). Fluid with
 glucose, rRehydrex 500 mL (Fresenius Kabi, Halden Norway), was administered during
 anaesthesiaanesthesia (Fresenius Kabi, Halden Norway).
 Protocol for surgical procedure under general anaesthesia
- Xylocain<u>e</u>/adrenalin<u>e</u> (Dentsply Pharmaceutical, ONY, United Kingdom) was used <u>as-for_local</u>
 anaesthesiaanesthesia. <u>A s</u>Surgical flap was <u>designed</u> individually <u>designed</u> allowing good inspection of the

206 207 208 209	bone and surrounding area_ <u>Further</u> , <u>4–6 or 4–5</u> Straumann implants <u>4 to 6 and 4 to 5</u> _were placed in the maxilla and mandible, respectively. The implants were inserted with external saline cooling of the drills. Healing abutments <u>were appliedwere placed</u> for external healing. Wound closure was done with Vicryl 3–0 (Ethicon, Johnson & Johnson, Diegen, Belgium). The patients were allowed to use their soft relined		Comment of scores Recomment indicates
210 211 211 212	removable dentures directly after implant insertion. A minimum of 6 to 8 weeks of healing time <u>was</u> <u>maintained</u> before <u>taking an</u> impression taking for prosthetic restoration. Data collection		Comment Recommer with descri value for e
213 214	Data <u>of from</u> the OHIP-14 questionnaire and the set of special questions were collected through follow-up visits at least 3 years after prosthetic treatment. The patients filled the patient consent <u>form</u> and the questionnaires at the recall examination under <u>the</u> supervision of one of the authors who <u>wasis</u> not involved		center (suc Comment used once,
215 216 217	in the treatment to avoid bias and any effects of interpersonal reactions. The <u>individuals patients</u> expressed their level of satisfaction by answering questions. These answers have ould have a score from 0 to 5.		Comment included fr acceptable
218 219	Data analysis/statistical methods The <u>nNumber, sex, and age</u> of <u>the</u> included patients, <u>gender, age;</u> , number of <u>installed</u> -implants <u>placed</u> ; and date of implant surgery <u>were are summarisedsummarized</u> using descriptive statistics, including mean,		Comment Recomment less than 0
220 221 222	standard deviation (SD), median, range, frequency, and percentage. The OHIP-14 total score was analyzed using logistic regression. The Wald chi-square test was used to analyze the effect of age, sex, and implant		Comment appropriate Comment
223 224	location. Effect sizes were estimated as odds ratios and associated 95% Wald confidence intervals.		Availabilit the end of
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