



# Characteristics of patients requesting treatment at a periodontics specialty facility in a Chilean population

## *Caracterización del paciente que solicita atención de especialidad en periodoncia en una población chilena*

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### ABSTRACT

**Objective:** To undertake characterization of patients requesting periodontic specialty care. **Material and methods:** The present was a descriptive study which included all patients registered to receive dental care in a population of the Quinta Region in Chile. Data were grouped according to male and female gender, as well as age range. The following was recorded: presence or absence of tobacco use habit, type II diabetes mellitus (DM), admission to periodontal treatment, treatment desertion and admission to post-treatment periodontal therapy (PTPT). For statistical analysis of frequency differences  $\chi^2$  test, alpha 0.05, confidence level 95% potency 80% and t student test were used, assessing differences according to age and gender. **Results:** 110 patients requested treatment: 75 female and 35 male. 94% were admitted in the specialty program. Average age was 41 years (SD 15). During the one-year follow-up, 68% of patients remained in treatment, and 19% was admitted in PTPT. Type II DM rate was 4% for females and 31% for males ( $p < 0.001$ ). Patients in age range 14-29 years were more prone to abandon periodontal treatment. With respect to type II DM differences were statistically significant in average age, 39.5 (SD 15.3) years ( $p = 0.002$ ) and average age for desertion 33.2 (SD 17.7) years ( $p > 0.001$ ). **Conclusions:** Women were more inclined to attend periodontal treatment than men, young patients deserted treatment more frequently. Studies on both genders revealed that males exhibited greater rate of type II DM. Additionally, diabetic patients were younger in average age as well as in average age for desertion of periodontal treatment.

### RESUMEN

**Objetivo:** Realizar la caracterización de los pacientes que solicitan atención de especialidad en periodoncia. **Material y métodos:** Estudio descriptivo que incluyó a todos los pacientes inscritos para recibir atención odontológica de una población de la Quinta Región de Chile. Los datos se agruparon de acuerdo con el sexo femenino, masculino y rango de edad. Se registró ausencia o presencia de hábito de tabaco, diabetes mellitus (DM) tipo 2, ingreso a tratamiento periodontal, abandono de tratamiento e ingreso a terapia periodontal de mantenimiento (TPM). Para el análisis estadístico las diferencias en la frecuencia se determinó con  $\chi^2$ , alpha de 0.05, nivel de confianza de 95%, potencia de 80% y t Student evaluando diferencias en la edad, sexo femenino y sexo masculino. **Resultados:** Solicitaron atención 110 pacientes, 75 sexo femenino y 35 sexo masculino, ingresaron a la especialidad el 94%. La edad promedio fue de 41 (DE 15) años. Durante el seguimiento por un año, el 68% se mantuvo en tratamiento y el 19% ingresó a TPM. La tasa de DM tipo 2 fue de 4% en mujeres y 31% en hombres ( $p < 0.001$ ). El rango de edad entre 14 a 29 años abandonó más el tratamiento periodontal. En relación con la DM tipo 2 las diferencias fueron estadísticamente significativas en la edad promedio, 39.5 (DE 15.3) años ( $p = 0.002$ ) y edad promedio de abandono, 33.2 (DE 17.7) años ( $p > 0.001$ ). **Conclusiones:** Las mujeres asisten más a tratamiento periodontal que los hombres y las personas jóvenes abandonan más el tratamiento. Al estudiar ambos sexos, masculino y femenino, los hombres alcanzaron un mayor porcentaje de DM tipo 2. Además el paciente diabético demostró ser más joven en edad promedio y en edad promedio de abandono de tratamiento periodontal.

**Key words:** Periodontal disease (PD), post treatment periodontal therapy (PTPT), diabetes mellitus (DM).

**Palabras clave:** Enfermedades periodontales (EP), terapia periodontal de mantenimiento (TPM), diabetes mellitus (DM).

### INTRODUCTION

In the pursuit of an ideal periodontal assessment, the professional operator must be aware of the characteristics of those patients he is going to treat, or patients who are going to receive health coverage. It is therefore important that he avails himself to knowledge on patients' non-modifiable individual determinants such as age and gender, descriptive factors which can exhibit differences in a population.<sup>1-4</sup> As a second

step, risk factors should be assessed; exposure to risk factor might increase possibilities of contracting disease.<sup>3,5</sup> All the aforementioned will finally build up

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a characterization which might guide towards care that is pertinent to the population's reality.

It is meaningful to note that among men and women there are behavioral physiopathological differences as well as in dental services use and follow-up.<sup>4,6,7</sup> As they advance in age, patients face different challenges; among them we can count susceptibility to periodontal disease (PD).<sup>8,9</sup> The current concept is based upon the degree of inflammation and bone destruction of periodontal tissues during old age which will be a reflection of the onset, development and progress of PD along time.<sup>10</sup> Periodontal risk factors such as tobacco consumption and diabetes mellitus (DM) will be influential factors.<sup>2,3,8,9,11-13</sup>

In the Petorca province of Chile's Fifth Region (Quinta Region de Chile) no research had been conducted on periodontal patient characterization, since it had only recently been added to dental specialization. The objective of the present study was to achieve characterization of patients requesting periodontal care, the determination according to age range and gender of the number of patients with type II diabetes mellitus (DM), tobacco use, admission to treatment, treatment desertion, as well as follow-up with post-treatment periodontal therapy (PTPT). With respect to type II DM, the following was assessed: average age, number of admitted patients and treatment desertion, presence of type II DM and tobacco consumption, finally age range and desertion of periodontal treatment.

## MATERIAL AND METHODS

The present was a descriptive study. All patients registered to receive dental treatment at the Hospital San Agustin de La Ligua were included. This hospital counts with inter-consultation for periodontal specialty from primary level onwards.

At the first clinical session, patients were requested to sign an informed consent form. Data were recorded in an excel database computer program. Admission was conducted through PSR basic periodontal examination<sup>14</sup> as well as full periodontal chart executed by a periodontics expert (PE).

Cases of periodontitis associated to plaque and initial chronic periodontitis were discarded, since treatment of those was directed to the hospital's primary dental care facility before initiation of this research project, two general dentists were trained in the fields of examination, diagnosis and periodontal treatment requirements so as to ensure that all patients were treated without complications. It is worth mentioning that the present study did not analyze

relationships between characterization, diagnosis and periodontal treatment requirements of specialty patients.

Data were grouped according to male and female gender, age range (14-29 years, 30-45 years, 46-61 years 62-77 years). The following information was recorded: admission to periodontal treatment, desertion from periodontal treatment, admission to PTPT during a follow-up year, absence or presence of tobacco consumption, and finally absence or presence of type II DM, according to medical charts. Aforementioned diagnosis was corroborated at the Hospital's Internal Medicine Service according to the following parameters: glucose test in fasting patient,  $\geq 126$  mg/dL, obesity (BMI  $\geq 27$  kg/m<sup>2</sup>), hypertension ( $\geq 140/90$  mmHg), HDL  $\leq 35$  mg/dL and or triglycerides  $\geq 250$  mg/dL, plus previous examination of glucose intolerance while fasting.<sup>15</sup>

For statistical analysis, frequency differences were determined with  $\chi^2$  test, assuming the following: 0.05 alpha, 95% level of confidence, and 80% potency. Additionally, Student t test was used to assess differences in age, male and female genders.

## RESULTS

110 patients (75 female, 35 male) requested service at the Periodontics Specialty Department. All patients were seeking specialty treatment which included the following in the periodontal treatment: oral hygiene motivation and instruction, teeth cleansing, root scraping and smoothing. 104 patients (94%) were admitted at the Periodontics Specialty Service, 6 (6%) decided not to participate in the study. Average age was 41 years (SD 15). 21 patients (19%) were admitted to post treatment periodontal therapy (PTPT) (*Table I*). During follow-up, when it was enquired through the telephone why patients had discontinued treatment, 24 patients expressed that they lacked sufficient time, and that it was more feasible to conduct periodontal treatment at later hours or through a resoluteness program; 8 patients informed that they were only interested in the primary reason for their consultation and 3 patients had left the city.

Type 2 DM rate was 4% in women and 31% in men ( $p < .001$ ). The rest of used variables did not exhibit significant differences between male and female gender (*Table I*).

With respect to frequency distributed according to age rank (*Table II*), the highest concentration of patients registered for treatment was found between ages 30 and 45 years (36 patients), followed by 46

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