Social, Academic, and Family Factors Associated With Academic Repetition in Dental Students*

Factores sociales, académicos y familiares asociados a la repitencia académica en estudiantes de odontología

Fatores sociais, acadêmicos e familiares associados à repetência acadêmica em estudantes de odontologia

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NATALIA FORTICH MESA

Corporación Universitaria Rafael Núñez. Cartagena, Colombia.
natalia.fortich@curnvirtual.edu.co; https://orcid.org/0000-0003-2929-0278

YURANIS REALES GUTIÉRREZ

Corporación Universitaria Rafael Núñez. Cartagena, Colombia.
yuranis.reales@curnvirtual.edu.co; https://orcid.org/0000-0002-2065-2810

* Original research

Correspondence: natalia.fortich@curnvirtual.edu.co; yuranis.reales@curnvirtual.edu.co
ABSTRACT

Background: Student repetition is a multifactorial phenomenon, of a socio-educational type, associated with different characteristics (sociodemographic, academic, family) in students of institutions, being a recurring manifestation in university institutions, which makes evident the need to identify the factors that intervene in the process, which would help to avoid or reduce dropout. Purpose: to determine the academic, social and family factors associated with student repetition in dental students from a university institution on the Colombian Caribbean coast. Methods: descriptive, cross-sectional study, in a representative sample of dental students in a repetition and non-repetition condition, who voluntarily answered a validated instrument to measure, in addition to sociodemographic characteristics, the associated factors that may influence student repetition and familiar functionality. Results: of 244 participants with a predominance of the female gender, 40.2 % repeating. they never received vocational guidance (19.4 %), in general they reported good family functionality (91 %). The factors associated with student repetition were: socioeconomic status, academic levels and income of the parents, Saber11 test results and the number of times they have repeated a semester and / or a subject. Conclusion: The
identification of these factors allows the design of strategies that encompass the impact of this condition so that higher education institutions can act in a timely manner to reduce these rates.

**Keywords**

academic failure; academic repetition; academic performance; academic repetition; dental; dental education; dentistry; education; higher education; students; student dropout

**RESUMEN**

**Antecedentes:** la repetencia estudiantil es un fenómeno multifactorial, de tipo socioeducativo, asociado a diferentes características (sociodemográficas, académicas, familiares) en estudiantes de instituciones, siendo una manifestación recurrente en las instituciones universitarias, que hace evidente la necesidad de identificar los factores que intervienen en el proceso, que permitiría ayudar a evitar o disminuir la deserción. **Objetivo:** determinar los factores académicos, sociales y familiares asociados en la repetencia estudiantil en estudiantes de odontología de una institución universitaria de la Costa Caribe colombiana. **Métodos:** estudio descriptivo, de corte transversal, en una muestra representativa de estudiantes de odontología en condición de repetencia y no repetencia, quienes, de forma voluntaria, respondieron instrumento validado para medir, además de las características sociodemográficas los factores asociados que pueden influir en la repetencia estudiantil y la funcionalidad familiar. **Resultados:** de 244 participantes con un predominio del género femenino, 40,2 % repetentes. nunca recibieron orientación vocacional (19,4 %), en general refieren una buena funcionalidad familiar (91 %). Los factores asociados a la repetencia estudiantil
fueron: estrato socioeconómico, niveles académicos e ingresos económicos de los padres, resultados pruebas Saber11 y el número de veces que ha repetido un semestre y/o una assignatura. 

**Conclusión:** la identificación de estos factores permite diseñar estrategias que abarquen el impacto de esta condición para que las instituciones de educación superior puedan actuar oportunamente en la reducción de estos índices.

**Palabras clave**

abandono escolar; educación; educación odontológica; educación superior; estudiantes de odontología; fracaso escolar; odontología; rendimiento académico; repetición académica

**RESUMO**

**Antecedentes:** A repetição de estudantes é um fenômeno multifatorial, de tipo socioeducativo, associado a diferentes características (sociodemográficas, acadêmicas, familiares) em estudantes de instituições, sendo uma manifestação recorrente em instituições universitárias, evidenciando a necessidade de identificar os fatores que intervêm na processo, o que ajudaria a evitar ou reduzir a evasão. **Objetivo:** determinar os fatores acadêmicos, sociais e familiares associados à repetição de estudantes de odontologia de uma instituição universitária na costa do Caribe colombiano.

**Metodologia:** estudo descritivo, transversal, em uma amostra representativa de estudantes de odontologia em condição de repetição e não repetição, que responderam voluntariamente a um instrumento validado para medir, além das características sociodemográficas, os fatores associados que podem influenciar a repetição do aluno e funcionalidade da família. **Resultados:** dos 244
participantes com predominância do sexo feminino, 40,2 % repetidos. nunca receberam orientação profissional (19,4 %), em geral relataram boa funcionalidade familiar (91 %). Os fatores associados à repetição do aluno foram: nível socioeconômico, nível acadêmico e renda dos pais, resultados do teste Sabre11 e o número de vezes que repetiram um semestre e / ou um assunto.

Conclusão: a identificação desses fatores permite o desenho de estratégias que abram o impacto dessa condição, para que as instituições de ensino superior possam atuar em tempo hábil para reduzir esses índices.

Palavras chave
desempenho académico; educação odontológica; educação superior; estudantes de odontologia; evasão escolar; fracasso acadêmico; odontologia; repetição acadêmica

INTRODUCTION

At present, with the advent of globalization, the concept of university has been transformed until it is understood as a space in which the development of competencies (logical, interpretive, argumentative, propositional) for the adoption of roles and reflective, critical and creative attitudes that allow the resolution of problems in the social context (1,2). Within this, it is important to highlight that education at the undergraduate level demands a greater demand from students to fulfill their professional training (3). However, on multiple occasions these demands are hampered by the low performance of the student, due to various factors that may be of sociodemographic,
economic and/or related to the academic dimension, study plans and educational resources, which directly affect the repetition of the student and as a consequence of this in the student dropout (4).

For this reason, student repetition is one of the concerns shared by all educational systems in Colombia and in the world since it is the first step in the final process of university dropout. Therefore, it is considered a standard indicator below the school criteria issued by any institution, related to the minimum domain that the student must have to comply with the competencies of a subject (5,6).

In the Latin American context, the situation of university education is not alien to or different from the great situation of global concern, in terms of low academic performance, university repetition and therefore student dropout (7). In the World Bank report (2017) it is estimated that countries such as Nicaragua, Panama, Bolivia, Ecuador and, unfortunately, Colombia, presented high rates of university dropouts, which suggests restructuring their educational systems in order to thus reduce rates. dropout rates and increase the quality of their educational systems (8).

For its part, in Colombia, the System for the Prevention of Drop-Out in Higher Education (SPADIES) has made progress in the centralization of information, through the development of public policies in favor of mitigating this situation, starting from the decrease in the rates of university repetition, in order to combat the high dropout rates and its negative impact on political, economic, social and cultural processes (9). Likewise, according to the Ministry of National Education (MEN), it states that the highest dropouts are found in technical and technological
programs, and for professional programs it is 44.93%. For its part, for the department of Bolívar in 2015, the dropout rate was 44.8% (10).

Regarding the area of health sciences and specifically in the dentistry program, it has been evidenced that students refer as the main cause of repetition the short time to study, the method used by the teacher and difficulty in economic resources, which affects the quality of education due to several factors in which they can be mentioned, extra-age, that is, the gap between school age and chronological age, dropout and repetition, the latter being the highest Interest due to the fact that financial resources must be invested in students who have repeated the same subject or semester 2 or more times and therefore have not been able to be promoted, which leads to student academic failure (11,12).

Other researchers such as Pérez et al, report that the causes of school dropout and repetition were absences from classes, teachers who were not very explicit in their classes, little help provided by the teacher in tutoring students, exam questions were sometimes not fit the content taught, the excessive amount of self-employment, among others (13). Also, the difficulty in financial resources by the students turns out to be the greatest inconvenience for their academic performance, followed by the absence of patients from their clinics and the lack of theoretical knowledge (14).

Based on this situation, it is necessary to make a particular identification in higher education institutions to identify the factors associated with the repetition of dental students, so that specific interventions can be carried out to reduce university dropout rates. In addition, it is essential to
take into account that repetition generates economic effects that lead to additional costs for the family and the student, conditioning the prolongation of the professional cycle that affects the expectations of family well-being and generates possible feelings of failure, demotivation and low income. self-esteem. The need arises to determine the social, academic and family factors associated with student repetition in a dentistry program in the city of Cartagena, Colombia. For which the following research question is formulated: What are the social, academic and family factors associated with student repetition in a dentistry program in Cartagena de Indias?

MATERIALS AND METHODS

Type of study

Descriptive cross-sectional study. The population consisted of 244 students from a dental program enrolled in the first period of 2019. The following inclusion criteria were used: students over 18 years of age, in a state of repetition and non-repetition, academically active within the dentistry program and excluded students who did not accept their participation in the study through informed consent.

Assessment of factors associated with repetition

Prior to the process of carrying out the study, the students in a state of repetition and non-repetition of the dentistry program were informed of the objective and benefits of the study, based on a dialogue with the groups of students involved in order to obtain their participation voluntarily. To
evaluate the factors associated with repetition, the variables under study were organized according to the classification established by the (UNESCO, 2007) in: Personal (related to the emotional process and affects behavior, causing self-mortification, generating insecurity, frustrations and limitations to future life through loss of opportunities, including family members), Social and Institutional (loss of economic resources, infrastructure, human talent, logistics and finance in general) (UNESCO, 2007) (15).

A questionnaire divided into two parts was used: the first comprises an instrument validated by Muñoz and Olivera (2015) (16) which presents a Cronbach alpha of 0.709, which uses a Likert-type scale that allows measuring sociodemographic characteristics and associated factors that possibly influence the repetition process of the students, in addition the results of the ICFES Saber 11 were taken into account, in scores of 1-500 in which they were categorized into three levels: high (333-500), medium (167-332) and low (1-166). In addition, the family APGAR was applied; Suárez and Alcalá (2014) (17), a validated questionnaire for the assessment of family functionality, which presents a Cronbach alpha of 0.793 and consists of 5 questions, where each question can take a value of 0 and 4 points, which that when totaling the maximum value that can be obtained is 20 points and they were categorized into mild dysfunction, moderate dysfunction, severe diffusion and good functionality, considering that an individual has good family functionality when the score obtained is in a range of 17 to 20 points, mild dysfunction from 16 to 13 points, moderate from 12 to 9 points and severe those values less than 9 points.

Statistical analysis
For the tabulation and compilation of the information, a database was designed in the Microsoft Excel v2016 program. The information analysis was carried out using the SPSS V22 software in Spanish, using descriptive statistics by means of a univariate analysis by using the frequency and percentage measure for the qualitative variables, and measures of central tendency accompanied by dispersion measures. for continuous variables of a quantitative nature. To analyze the tendency to the statistical association between the study variables: sociodemographic and academic with the state of repetition of the population under study, a bivariate analysis was performed using Chi-square and the value of its probability was accepted as a significant statistical a value of $p < 0.05$.

**Ethical considerations**

The present study had the authorization and ethical endorsement before the ethics committee of the sponsoring institutions. Likewise, it takes into consideration regulations such as the Declaration of Helsinki and resolution 008430 of 1993 of the Ministry of Health and Social Protection of the Republic of Colombia. Informed consent was requested from the student to participate in the study, guaranteeing confidentiality and respect for dignity.

**RESULTS**

**Sociodemographic characteristics**

Of the 244 participants, 64.3% are female. Most of the participants were in an age range between 23 to 26 years, 86% of the participants were single, with a predominant socioeconomic stratum of
stratum 2 in 39.3% and they came from the department of Bolívar and they resided in the city of Cartagena. Regarding the family environment, it was observed that 86% do not have children, 77% live with their parents and 93% do not work. The educational level of the parents is professional (32.4%), while that of the mothers is secondary (30.7%), apart from 50.8% of the parents have an economic income between 5 to 6 SMLV (Table 1).

| Características sociodemográficas | Global | Repitente | No repetente |
|-----------------------------------|--------|-----------|--------------|
| Género                            |        |           |              |
| Masculino                         | 87     | 39        | 48           |
| Femenino                          | 157    | 59        | 98           |
| Edad                              |        |           |              |
| 15 a 18 años                      | 4      | 0         | 4            |
| 19 a 22 años                      | 81     | 21        | 60           |
| 23 a 26 años                      | 109    | 51        | 58           |
| 27 a 30 años                      | 38     | 20        | 18           |
| Más de 30 años                    | 12     | 6         | 6            |
| Estado civil                      |        |           |              |
| Soltero                           | 212    | 74        | 138          |
| Casado                            | 17     | 11        | 6            |
| Unión Libre                       | 15     | 13        | 2            |
| Separado                          | 0      | 0         | 0            |
| Viudo                             | 0      | 0         | 0            |
| Estrato socioeconómico            |        |           |              |
| 1                                 | 92     | 27        | 65           |
| 2                                 | 96     | 46        | 50           |
| 3                                 | 36     | 18        | 18           |
| 4                                 | 4      | 0         | 4            |
| 5                                 | 3      | 0         | 3            |
| 6                                 | 5      | 0         | 5            |
| 7                                 | 8      | 7         | 1            |
| Número de hijos                   |        |           |              |
| 1                                 | 26     | 15        | 11           |
| 2                                 | 5      | 3         | 2            |
| 3                                 | 2      | 1         | 1            |
| Ninguno                           | 211    | 79        | 132          |
| Convive con sus hijos             |        |           |              |
|       | Sí     | 11,9 | 17 | 17,3 | 12 | 8,2 |
|-------|--------|------|----|------|----|-----|
| No    | 35     | 14,3 | 34 | 34,7 | 1  | 0,7 |
| No Aplica | 180 | 73,8 | 47 | 48   | 133 | 91,1 |

**Convive con**

|       | Papá | 1,2 | 2  | 2  | 1  | 0,7 |
|-------|------|-----|----|----|----|-----|
| Mamá  | 19   | 7,8 | 8  | 8,2 | 11 | 7,5 |
| Ambos | 190  | 77,9| 68 | 69,4 | 122 | 83,6 |
| Pareja| 17   | 7   | 6  | 6,1 | 11 | 7,5 |
| Ninguno | 15  | 6,1 | 14 | 14,3 | 1  | 0,7 |

**Trabaja**

|       | Sí   | 6,6 | 15 | 15,3 | 1 | 0,7 |
|-------|------|-----|----|------|---|-----|
| No    | 228  | 93,4| 83 | 84,7 | 145 | 99,3 |

**Lugar de procedencia**

|         | Antioquia | 8 | 3,2 | 1 | 1 | 7 | 4,9 |
|---------|-----------|---|-----|---|---|---|-----|
| Arauca  | 1         | 0,4 | 0  | 0  | 1 | 0,7 |
| Atlántico | 9  | 3,7 | 4  | 4,1 | 5 | 3,5 |
| Bolívar | 142       | 57,5 | 55 | 55,8 | 87 | 59,7 |
| Cesar   | 9         | 3,6 | 5  | 5  | 4 | 2,7 |
| Córdoba | 19        | 7,7 | 8  | 8,1 | 11 | 7,6 |
| Chocó   | 3         | 1,2 | 2  | 2  | 1 | 0,7 |
| Cundinamarca | 1  | 0,4 | 0  | 0  | 1 | 0,7 |
| La Guajira | 9  | 3,6 | 5  | 5  | 4 | 2,8 |
| Magdalena | 8  | 3,2 | 4  | 4  | 4 | 2,8 |
| Meta    | 1         | 0,4 | 0  | 0  | 1 | 0,7 |
| Norte de Santander | 1  | 0,4 | 0  | 0  | 1 | 0,7 |
| Santander | 3  | 1,2 | 2  | 2  | 1 | 0,7 |
| San Andrés Islas | 8  | 3,3 | 6  | 6,1 | 2 | 1,4 |
| Sucre   | 22        | 8,9 | 6  | 6  | 16 | 11 |

**Lugar donde reside**

|         | Cartagena | 199 | 81,6 | 82 | 83,7 | 117 | 80,1 |
|---------|-----------|-----|------|----|------|-----|------|
| Bayunca | 10        | 4,1 | 3   | 3,1 | 7   | 4,8 |
| Santa Catalina | 4  | 1,6 | 1  | 1  | 3  | 2,1 |
| Clemencia | 1  | 0,4 | 0  | 0  | 1  | 0,7 |
| María La Baja | 1  | 0,4 | 1  | 1  | 0  | 0  |
| Otro    | 29        | 11,9| 11 | 11,2 | 18 | 12,3 |

**Nivel educativo del padre**

|         | Ninguno | 3 | 1,2 | 3  | 3,1 | 0  | 0  |
|---------|---------|---|-----|----|-----|----|----|
| Primaria | 20      | 8,2 | 9  | 9,2 | 11 | 7,5 |
| Secundaria | 60   | 24,6 | 26 | 26,5 | 34 | 23,3 |
| Técnico | 65       | 26,6 | 24 | 24,5 | 41 | 28,1 |
| Tecnólogo | 17    | 7   | 12 | 12,2 | 5  | 3,4 |
| Profesional | 79  | 32,4 | 24 | 24,5 | 55 | 37,7 |
| Especialista | 0   | 0   | 0  | 0  | 0  | 0  |
| Doctorado | 0       | 0   | 0  | 0  | 0  | 0  |
### Nivel educativo de la madre

| Nivel            | n  | %   | n  | %   | n  | %   | n  | %   |
|------------------|----|-----|----|-----|----|-----|----|-----|
| Ninguno          | 1  | 0,4 | 1  | 1   | 0  | 0   |    |     |
| Primaria         | 11 | 4,5 | 4  | 4,1 | 7  | 4,8 |    |     |
| Secundaria       | 75 | 30,7| 22 | 22,4| 53 | 36,3|    |     |
| Técnico          | 70 | 28,7| 27 | 27,6| 43 | 29,5|    |     |
| Tecnólogo        | 19 | 7,8 | 10 | 10,2| 9  | 6,2 |    |     |
| Profesional      | 64 | 26,2| 30 | 30,6| 34 | 23,3|    |     |
| Especialista     | 2  | 0,8 | 2  | 2   | 0  | 0   |    |     |
| Doctorado        | 2  | 0,8 | 2  | 2   | 0  | 0   |    |     |

### Nivel de ingresos económicos de los padres

| Nivel de ingresos económicos de los padres | n   | %   | n   | %   | n   | %   |
|------------------------------------------|-----|-----|-----|-----|-----|-----|
| 1-2 SMLV                                  | 10  | 4,1 | 10  | 10,2| 0   | 0   |
| 3-4 SMLV                                  | 22  | 9   | 22  | 22,4| 0   | 0   |
| 5-6 SMLV                                  | 124 | 50,8| 34  | 34,7| 90  | 61,6|
| 7-8 SMLV                                  | 73  | 29,9| 26  | 26,5| 47  | 32,2|
| 9-10 SMLV                                 | 15  | 6,1 | 6   | 6,1 | 9   | 6,2 |

Total                                                   | 244 | 98  | 146 |     |

When evaluating the academic condition of the participants, it was found that 40.2% of the participants are repeaters, with an academic average of $3.49 \pm 0.37$ SD. Similarly, it was reported that they presented a medium level in the results of the Saber 11 test. However, 32.4% have repeated the semester at least once (1) and 45.5% report having repeated subjects of the basic area (table 2).

### Evaluación académica de los estudiantes

| Condición       | Global | Repitente | No repetente |
|-----------------|--------|-----------|--------------|
| Repitente       | n      | n         | n            |
| 98              | 40,2   | 98        | 146          |
| No repetente    | 146    | 59,8      | 100          |

### Resultados Prueba Saber 11

| Nivel           | Bajo | Medio | Alto |
|-----------------|------|-------|------|
|                 | n    | n     | n    |
| Bajo            | 27   | 11,1  | 23   |
| Medio           | 174  | 71,3  | 60   |
| Alto            | 43   | 17,6  | 15   |

| N° veces que ha repetido un semestre |
|-------------------------------------|

When evaluating the academic condition of the participants, it was found that 40.2% of the participants are repeaters, with an academic average of $3.49 \pm 0.37$ SD. Similarly, it was reported that they presented a medium level in the results of the Saber 11 test. However, 32.4% have repeated the semester at least once (1) and 45.5% report having repeated subjects of the basic area (table 2).
| N° veces que ha repetido una asignatura | 0 | 50 | 20,5 | 1 | 1 | 49 | 33,6 |
|----------------------------------------|---|----|------|---|---|----|------|
| 1                                      | 79 | 32,4 | 9 | 9,2 | 70 | 47,9 |
| 2                                      | 49 | 20,1 | **31** | **31,6** | 18 | 12,3 |
| 3                                      | 24 | 9,8 | 20 | 20,4 | 4 | 2,7 |
| 4                                      | 24 | 9,8 | 20 | 20,4 | 4 | 2,7 |
| 5                                      | 6 | 2,5 | 6 | 6,1 | 0 | 0 |
| 6                                      | 5 | 2 | 5 | 5,1 | 0 | 0 |
| 7                                      | 2 | 0,8 | 2 | 2 | 0 | 0 |
| 8                                      | 3 | 1,2 | 2 | 2 | 1 | 0,7 |
| 9                                      | 1 | 0,4 | 1 | 1 | 0 | 0 |
| 10                                     | 0 | 0 | 0 | 0 | 0 | 0 |
| 11                                     | 1 | 0,4 | 1 | 1 | 0 | 0 |

| Asignaturas con mayor repetencia        | 111 | **45,5** | 44 | 44,9 | 67 | 45,9 |
|-----------------------------------------|-----|----------|----|------|----|------|
| Básicas                                 | 20  | 8,2      | 11 | 11,2 | 9  | 6,2  |
| Clínicas                                | 63  | 25,8     | 43 | 43,9 | 20 | 13,7 |
| Ambas                                   | 50  | 20,5     | 0  | 0    | 50 | 34,2 |

Regarding the factors associated with repetition, the participants answered never having received vocational guidance or having decreased their academic performance and stopped showing up due to problems related to their health or having difficulty adapting to the university environment or having family and emotional conflicts. However, between 13% to 16% rarely said they were afraid of being wrong when participating in the classroom or having a fixed schedule dedicated to their academic activities or having feelings of guilt or reviewing the topic before being seen (table 3).
Likewise, they affirm that they have sometimes attended classes, but are tired or go to support activities at the university. Likewise, they reaffirm systematically studying the contents of the study plan, dedicating proportional time to each subject. However, between 17% to 22% of the participants commented on some occasions, feeling lack of motivation towards their career, dedicating the necessary time to their studies, presenting problems communicating, possessing previous knowledge and having difficulty memorizing the thematic contents (table 3).

Despite this, 21.4% of the students affirm that they always have support from their family group, 24.5% testify that they always feel nervousness or inner agitation at the time of evaluations, 27.6% certify that they would always obtain better grades if they proposed it and 29.6% are always convinced that studying is a very important task for their life (table 3).

| Table 3  | Factors Associated with Repetition in the Population of Study |
|----------|--------------------------------------------------------------|
| Global   | Nunca | Pocas veces | Algunas veces | Muchas veces | Siempre |
| Recibió usted orientación vocacional e información al elegir la carrera | 19 | 19,4 | 11 | 11,2 | 10 | 10,2 | 0 | 0 | 3 | 3,1 |
| Ha tenido dificultad para matricularse a tiempo | 17 | 17,3 | 12 | 12,2 | 8 | 8,2 | 3 | 3,1 | 3 | 3,1 |
| Presenta dificultad para memorizar los contenidos temáticos aprendidos en clases | 6 | 6,1 | 11 | 11,2 | 22 | 22,4 | 4 | 4,1 | 0 | 0 |
| Estudia sistemáticamente los contenidos que conforman su plan de estudio | 6 | 6,1 | 11 | 11,2 | 15 | 15,3 | 11 | 11,2 | 0 | 0 |
| Posee conocimientos previos de los contenidos temáticos desarrollados en el aula de clases | 5 | 5,1 | 7 | 7,1 | 18 | 18,4 | 10 | 10,2 | 3 | 3,1 |
| Su ambiente de estudio es apropiado | 6 | 6,1 | 6 | 6,1 | 8 | 8,2 | 13 | 13,3 | 10 | 10,2 |
| Dedica el tiempo necesario a sus estudios | 5 | 5,1 | 6 | 6,1 | 18 | 18,4 | 14 | 14,3 | 0 | 0 |
| Revisa la temática a tratar antes de ser vista en el aula de clases | 7 | 7,1 | 16 | 16,3 | 15 | 15,3 | 4 | 4,1 | 1 | 1 |
| Asiste permanentemente a sus clases | 5 | 5,1 | 2 | 2 | 3 | 3,1 | 12 | 12,2 | 21 | 21,4 |
|                                                                 | 10 | 10,1 | 6   | 6,1 | 13  | 13,3 | 10  | 10,2 | 4   | 4,1 |
|-----------------------------------------------------------------|----|------|-----|-----|-----|------|-----|------|-----|-----|
| Acude a las actividades de apoyo ofrecidas por la universidad   |    |      |     |     |     |      |     |      |     |     |
| para mejorar su situación académica (tutorías-psicología)      |    |      |     |     |     |      |     |      |     |     |
| Siente una elevada exigencia académica en su carrera           | 5  | 5,1  | 2   | 2   | 9   | 9,2  | 12  | 12,2 | 15  | 15,3|
| Tiene un horario fijo dedicado a sus actividades académicas de  | 6  | 6,1  | 13  | 13,3| 12  | 12,2 | 6   | 6,1  | 6   | 6,1 |
| repaso                                                          |    |      |     |     |     |      |     |      |     |     |
| Le resulta difícil prestar atención a algunos profesores       | 12 | 12,2 | 12  | 12,2| 12  | 12,2 | 6   | 6,1  | 1   | 1   |
| Pregunta al profesor cuando no comprende algo                  | 6  | 6,1  | 9   | 9,2  | 8   | 8,2  | 11  | 11,2 | 9   | 9,2 |
| Obtiendría mejores calificaciones si se lo propusiera           | 4  | 4,1  | 1   | 1   | 2   | 2    | 9   | 9,2  | 27  | 27,6|
| El tiempo que le dedica a cada asignatura es proporcional a su | 5  | 5,1  | 4   | 4,1 | 15  | 15,3 | 13  | 13,3 | 6   | 6,1 |
| importancia                                                     |    |      |     |     |     |      |     |      |     |     |
| Aprende de memoria aquellas cosas que no comprende              | 6  | 6,1  | 10  | 10,2| 12  | 12,2 | 8   | 8,2  | 7   | 7,1 |
| Te preocupas por mejorar tu calidad y velocidad en la lectura  | 5  | 5,1  | 3   | 3,1 | 9   | 9,2  | 9   | 9,2  | 17  | 17,3|
| Procura relacionar, enlazar, y pensar lo que ya sabe con        | 6  | 6,1  | 4   | 4,1 | 11  | 11,2 | 15  | 15,3 | 7   | 7,1 |
| lo que intenta aprender de memoria                              |    |      |     |     |     |      |     |      |     |     |
| Está convencido de que el estudio es una labor muy importante  | 5  | 5,1  | 1   | 1   | 4   | 4,1  | 4   | 4,1  | 29  | 29,6|
| por su vida                                                     |    |      |     |     |     |      |     |      |     |     |
| Siente nerviosismo o agitación interior en el momento de las   | 5  | 5,1  | 1   | 1   | 3   | 3,1  | 10  | 10,2 | 24  | 24,5|
| evaluaciones                                                    |    |      |     |     |     |      |     |      |     |     |
| Tiene que comprobar una y otra vez todo lo que hace            | 7  | 7,1  | 3   | 3,1 | 10  | 10,2 | 16  | 16,3 | 7   | 7,1 |
| Le cuesta trabajo tomar decisiones                             | 7  | 7,1  | 10  | 10,2| 7   | 7,1  | 15  | 15,3 | 4   | 4,1 |
| Se siente decaído o falto de fuerzas                           | 7  | 7,1  | 4   | 4,1 | 14  | 14,3 | 15  | 15,3 | 3   | 3,1 |
| Le vienen ideas de acabar con su vida                          | 32 | 32,6 | 4   | 4,1 | 5   | 5,1  | 1   | 1    | 1   | 1   |
| Ve su futuro sin esperanzas                                    | 23 | 23,5 | 5   | 5,1 | 11  | 11,2 | 3   | 3,1  | 1   | 1   |
| Tiene sentimientos de culpa                                    | 13 | 13,3 | 14  | 14,3| 7   | 7,1  | 7   | 7,1  | 2   | 2   |
| Se siente incapaz de hacer las cosas o terminar las tareas     | 14 | 14,2 | 12  | 12,2| 11  | 11,2 | 6   | 6,1  | 0   | 0   |
| Tiene que hacer las cosas muy despacio para estar seguro de    | 8  | 8,2  | 5   | 5,1 | 21  | 21,4 | 4   | 4,1  | 5   | 5,1 |
| que las hace bien                                              |    |      |     |     |     |      |     |      |     |     |
| Se siente inferior a los demás                                  | 27 | 27,5 | 9   | 9,2 | 5   | 5,1  | 2   | 2    | 0   | 0   |
| Tiene dificultad para adaptarse al ambiente universitario      | 18 | 18,4 | 10  | 10,2| 8   | 8,2  | 5   | 5,1  | 2   | 2   |
| Ha tenido intención de retirarse de la universidad             | 13 | 13,3 | 6   | 6,1 | 14  | 14,3 | 9   | 9,2  | 1   | 1   |
| Se muestra inseguro y/o con miedo a no ser aceptado por sus    | 25 | 25,5 | 12  | 12,2| 3   | 3,1  | 3   | 3,1  | 0   | 0   |
| compañeros                                                     |    |      |     |     |     |      |     |      |     |     |
| Muestra poco interés y falta de motivación con las asignaturas,| 13 | 13,3 | 13  | 13,3| 10  | 10,2 | 5   | 5,1  | 2   | 2   |
| en las que constantemente reprueba                             |    |      |     |     |     |      |     |      |     |     |
| Siente temor a equivocarse al participar en el aula de clases  | 8  | 8,2  | 13  | 13,3| 7   | 7,1  | 12  | 12,2 | 3   | 3,1 |
| cuando el docente plantea una pregunta                         |    |      |     |     |     |      |     |      |     |     |
| Se siente satisfecho con la carrera que eligió para estudiar  | 5  | 5,1  | 2   | 2   | 13  | 13,3 | 8   | 8,2  | 15  | 15,3|
| Siente empatía con los docentes que le han impartido clases   | 4  | 4,1  | 7   | 7,1 | 13  | 13,3 | 13  | 13,3 | 6   | 6,1 |
| Tiene conflictos emocionales (soledad, disgustos familiares o | 18 | 18,4 | 7   | 7,1 | 10  | 10,2 | 6   | 6,1  | 2   | 2   |
| con su pareja)                                                  |    |      |     |     |     |      |     |      |     |     |
| Se relaciona de forma efectiva con sus compañeros y            | 7  | 7,1  | 5   | 5,1 | 10  | 10,2 | 10  | 10,2 | 11  | 11,2|
| docentes                                                       |    |      |     |     |     |      |     |      |     |     |
Siente falta de motivación hacia su carrera  
Se siente rechazado por sus compañeros  
Se siente rechazado por sus docentes  
Presenta problemas para comunicarse y para expresar lo que conoce  
Se siente identificado con su universidad  
En su ambiente familiar son frecuentes los conflictos familiares (disgustos con sus padres y hermanos)  
Tiene apoyo por parte de su grupo familiar  
Se ha ausentado de clases frecuentemente por causa de problemas relacionados con su salud  
Ha dejado de presentar evaluaciones y trabajos importantes a causa de una enfermedad  
Asiste a clases, pero se muestra cansado y fatigado durante el desarrollo de éstas  
Ha disminuido su rendimiento académico debido a problemas de salud

|                               | Nunca | Casi nunca | Algunas veces | Muchas veces | Siempre |
|-------------------------------|-------|------------|---------------|--------------|---------|
| **APGAR familiar**            | n     | %          | n             | %            | n       |
| Me satisface la ayuda que recibo de mi familia cuando tengo algún problema o necesidad | 0     | 0          | 1             | 2,3          | 7       | 16,3 | 10 | 23,3 | 25 | 58 |
| Me satisface la participación que mi familia me brinda y me permite | 0     | 0          | 1             | 2,3          | 3       | 7,0  | 14 | 32,6 | 25 | 58 |
| Me satisface cómo mi familia acepta y apoya mis deseos de emprender nuevas actividades | 0     | 0          | 1             | 2,3          | 5       | 11,6 | 13 | 30,2 | 24 | 56 |
| Me satisface cómo mi familia expresa afectos y responde a mis emociones como rabia, tristeza, amor, etc. | 1     | 2,3        | 0             | 0            | 12      | 27,9 | 16 | 37,2 | 14 | 33 |
| Me satisface cómo compartimos en mi familia: a) el tiempo para estar juntos b) los espacios de la casa c) el dinero | 1     | 2,3        | 3             | 7            | 12      | 27,9 | 14 | 32,6 | 13 | 30 |

In relation to family functionality (family APGAR) in the study population, it could be determined that the participants presented good family functionality in 91%, while only 9% presented mild dysfunction (table 4).

| Funcionalidad          | n | % |
|------------------------|---|---|
| Buena funcionalidad    | 39 | 91 |
| Disfunción leve        | 4  | 9  |
Disfunción moderada 0 0
Disfunción severa 0 0

Finally, when correlating the sociodemographic and academic variables with the academic condition of the students through the bivariate analysis with Pearson's Chi-square test, it was possible to conclude that most of the socio-demographic variables evaluated significantly influence the academic condition of the students. the students (table 5).

| Características sociodemográficas | Condición académica | Valor de p |
|-----------------------------------|----------------------|------------|
|                                   | Repitente | No repitente |
| Género                           |           |             |
| Masculino                        | 39        | 48          | 0,269      |
| Femenino                         | 59        | 98          |            |
| Estado civil                     |           |             |
| Soltero                          | 74        | 138         |            |
| Casado                           | 11        | 6           | 0,000*     |
| Unión Libre                      | 13        | 2           |            |
| Estrato socioeconómico           |           |             |
| 1                                | 27        | 65          |            |
| 2                                | 46        | 50          |            |
| 3                                | 18        | 18          |            |
| 4                                | 0         | 4           | 0,001*     |
| 5                                | 0         | 3           |            |
| 6                                | 0         | 5           |            |
| 7                                | 7         | 1           |            |
| Convive con sus hijos            |           |             |
| Sí                               | 17        | 12          | 0,000*     |
| No                               | 34        | 1           |            |
| Convive con                      |           |             |
| Papá                             | 2         | 1           |            |
| Mamá                             | 8         | 11          |            |
| Ambos                            | 68        | 122         | 0,001*     |
| Pareja                           | 6         | 11          |            |
| Ninguno                          | 14        | 1           |            |
| Trabaja                          |           |             |
| Sí                               | 15        | 1           | 0,000*     |
| No                               | 83        | 145         |            |
| Nivel educativo del padre | ninguno | primaria | secundaria | técnico | tecnólogo | profesional | Promedio | 0,011* |
|---------------------------|---------|----------|------------|---------|-----------|-------------|----------|--------|
| ninguno                   | 3       | 9        | 26         | 24      | 12        | 24          | 0,000   | 0,011* |
| primaria                  | 0       | 11       | 34         | 41      | 5         | 46          | 0,000   | 0,011* |
| secundaria                | 0       | 0        | 0          | 0,011*  | 0         | 0           | 0,000   | 0,011* |
| técnico                   | 0       | 0        | 0          | 0,011*  | 0         | 0           | 0,000   | 0,011* |
| tecnólogo                 | 0       | 0        | 0          | 0,011*  | 0         | 0           | 0,000   | 0,011* |
| profesional               | 0       | 0        | 0          | 0,011*  | 0         | 0           | 0,000   | 0,011* |

| Nivel educativo de la madre | ninguno | primaria | secundaria | técnico | tecnólogo | profesional | Promedio | 0,057* |
|----------------------------|---------|----------|------------|---------|-----------|-------------|----------|--------|
| ninguno                    | 1       | 4        | 22         | 27      | 10        | 30          | 0,057*  | 0,057* |
| primaria                   | 0       | 7        | 53         | 43      | 9         | 34          | 0,057*  | 0,057* |
| secundaria                 | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |
| técnico                    | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |
| tecnólogo                  | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |
| profesional                | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |
| especialista               | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |
| doctorado                  | 0       | 0        | 0          | 0,057*  | 0         | 0           | 0,057*  | 0,057* |

| Nivel de ingresos económicos de los padres | 1-2 SMLV | 3-4 SMLV | 5-6 SMLV | 7-8 SMLV | 9-10 SMLV | Promedio | 0,000* |
|-------------------------------------------|---------|----------|----------|----------|-----------|----------|--------|
| 1-2 SMLV                                  | 10      | 0        | 0        | 0        | 0         | 0        | 0,000* |
| 3-4 SMLV                                  | 22      | 0        | 0        | 0        | 0         | 0        | 0,000* |
| 5-6 SMLV                                  | 34      | 90       | 0        | 0        | 0         | 0        | 0,000* |
| 7-8 SMLV                                  | 26      | 47       | 0        | 0        | 0         | 0        | 0,000* |
| 9-10 SMLV                                 | 6       | 9        | 0        | 0        | 0         | 0        | 0,000* |

Regarding academic factors, statistically significant associations were reported between the level of Saber 11 results and the number of times the student has repeated a semester and / or a subject (p = 0.000) respectively (table 6).

| Evaluación académica. Resultados Saber 11 | Condición académica | Valor de p |
|-------------------------------------------|---------------------|------------|
|                                          | Repitente | No repetente |       |
| Bajo                                      | 23        | 28          | 0,000* |
| Medio                                     | 60        | 114         |       |
| Alto                                      | 15        | 4           |       |

| N° de veces que ha repetido un semestre | Repitente | No repetente | Valor de p |
|----------------------------------------|-----------|--------------|------------|
| 0                                      | 1         | 49           | 0,000*     |
| N° de veces que ha repetido una asignatura | Repitente | No repetente | Valor de p |
|------------------------------------------|-----------|--------------|------------|
| 0                                        | 0         | 50           | 0,000*     |
| 1                                        | 14        | 71           |            |
| 2                                        | 30        | 20           |            |
| 3                                        | 24        | 2            |            |
| 4                                        | 15        | 3            |            |
| 5                                        | 4         | 0            |            |
| 6                                        | 4         | 0            |            |
| 7                                        | 1         | 0            |            |
| 8                                        | 4         | 0            |            |
| 9                                        | 1         | 0            |            |
| 10                                       | 0         | 0            |            |
| 11                                       | 1         | 0            |            |

**DISCUSSION**

The present study allowed the sociodemographic characterization of the study subjects and their relationship with repetition in dental students of a particular program, however, despite the fact that these results cannot be generalized to all dental schools, if they agree to identify Factors that may be common to all dentistry programs, which would allow the design of improvement actions in favor of quality indicators and the reduction of desertion in university students in Health Sciences Programs. In the present work, repetition was evaluated, as it was understood as the action of repeatedly pursuing an academic activity, either due to poor student performance or due to
causes beyond the academic field during a period (year, semester or quarter (18, 19). It is necessary
to identify the academic, social and family factors associated with student repetition in a dental
program in Cartagena de Indias, an interest similar to research by authors such as Dadpe et al and
Graffigna et al (20,21).

Yepes-Delgado et al identified the main causes of academic dropout in 37.5% of cases to academic
difficulties, 31.3% occurred due to program change, 18.8% due to economic reasons or work
reasons. On the other hand, re-entry students lost the courses due to academic difficulties in 38.9%,
27.8% due to work reasons and 33.3% due to physical or mental health reasons - lack of self-
esteem (22). Results that differ from those present, where the students stated that they never
stopped attending the university for health reasons. However, they maintain that on some occasions
they are tired and attend university support programs because they intend to withdraw from the
academic program. Similar data are reported by Medina and Gaytán, who identified the factors
that have influenced the students of the Faculty of Dentistry of the UACH to abandon their
professional studies, of which the physical and emotional discomfort due to the excessive burden
of work on theoretical subjects, clinical practices that significantly affect the health and well-being
of students (23).

Flores M, et al state that the environments that most generate anxiety responses in dental students
are associated with exam and public speaking situations, which is why they suggest that the forms
of evaluation should be modified, promoting better communication between students, teachers and
students, if possible, sensitize teachers to try to be more understanding and caring with their
students (24). Similar results to the present investigation, 24.5% of the participants stated that they
were always nervous or agitated at the time of the evaluations and 20.4% had problems communicating and/or expressing themselves and only 13.3% of the students reported feeling empathy for the teachers who taught them.

Rueda S, et al determined the dropout risk profile according to socioeconomic, institutional, academic, and individual conditions in students from the headquarters of a Colombian university, reporting that 87.5% of the participants were single, 81.1% belonged to socioeconomic strata 1-2 and the academic average was 3.7, according to institutional conditions, 0.8% of the students have a desire to withdraw from the institution. However, the participants report having good relationships with friends in the university environment and seeking support when required. With regard to family aspects, 16.2% affirmed having children, 33.3% were related to living in nuclear families, and 12.8% perceived having severe family dysfunction (25), a relationship can be evidenced with results regarding the academic average (3.49), marital status (single), socioeconomic stratum (stratum 1 and 2), in relation to family functionality it was found that 91% of students have good family functionality, not However, 14.3% of the participants in the present study stated that they intended to withdraw from the university.

Finally, Díaz S, et al associated academic stress and family functionality in dental students, reporting that among the situations that generate stress are teacher evaluations, restlessness, despair, drowsiness and lack of organization of academic activities. Regarding family functionality, the APGAR reported good family functionality in 38.25%, followed by mild dysfunction in 31.8% (26). When relating these findings to the present study, a relationship was found because 13.3% attend classes, but are tired and fatigued about its development and 18.4%
only sometimes dedicate the necessary time to their studies or academic activities. On the contrary, this study reported that the participants have good family functionality, which is considered an important factor on school repetition due to aspects such as type of family, educational level, economic income and the support of the family towards their children. As can affect the academic condition of students.

However, an important limitation corresponds to the design of the cross-sectional study, for future investigations the implementation of longitudinal studies is suggested, which allows obtaining complementary information and thus carrying out the necessary interventions since student repetition is linked to emotional factors, which are fluctuating and changing over time.

The results obtained in this research were presented to the academic authorities of the Program for their evaluation and the taking of improvement actions.

CONCLUSION

The identification of factors associated with repetition in students will allow establishing new teaching and learning methodologies to increase effectiveness and motivation during their academic training, as well as higher education institutions so that they can act in a timely manner in the reduction of these indices. Therefore, it is necessary to follow up students who drop out or show recurrent repetition during the training of the degree.

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