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Digital Technology in Dental Education During COVID-19 Pandemic: Worldwide Experience of Professors and Students

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Tecnología digital en la educación odontológica durante la pandemia por COVID-19: experiencia mundial de profesores y estudiantes

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ABSTRACT: The objective of this study was to assess the use and experience with digital communication tools among dentistry professors and students to adapt to distance learning during the Covid-19 pandemic. Nine hundread and ninety five participants (479 dentistry professors and 516 students) from countries in North America, Latin America, Brazil, Europe, Asia, Oceania, and the Middle East answered a questionnaire about motivation/stress/anxiety; practice with digital technologies; synchronous/asynchronous communication technologies (difficulties/benefits), and which ones would they prefer using when returning to college. Data were analyzed by the Chi-square test and Fisher's exact (α =0.05). Motivation was more affected among the female professors, male students, and Brazilians (p<0.05). Concern about the academic future, was higher among female students, up to 30 years old, from Latin America and Brazil, and lower for European professors (p<0.05). Anxiety and

stress were higher for undergraduate students up to 20 years old from Latin America and Brazil (p<0.05). European professors used more synchronous videoconferencing services for lectures/questions, while Brazilians used more text messaging applications for answering questions (p<0.05). Latin American professors used more surveys for evaluation (p<0.05). Brazilian professors indicated that they would use "online meetings" and "survey administration services" when returning to face-to-face activities and Europeans professors/students would use "email" (p<0.05). Professors from Asia/Oceania/Middle East and professors/students from Brazil indicated "remote activities were important for students not to be inactive" (p<0.05). Efforts were made to adapt Dentistry's teaching to distance learning during the COVID-19 pandemic. However, the technologies used for this, feelings, and experiences differed between professors and students.

KEYWORDS: Coronavirus infections; Social distance; Students; Dentistry education.

RESUMEN: El objetivo de este estudio fue evaluar el uso y la experiencia con herramientas de comunicación digital entre profesores y estudiantes de odontología para adaptarse al aprendizaje a distancia durante la pandemia Covid-19. Novecientos noventa y cinco participantes (479 profesores y 516 estudiantes de odontología) de países de diferentes regiones de América del Norte, América Latina, Brasil, Europa, Asia, Oceanía y Oriente Medio respondieron un cuestionario sobre motivación/ estrés/ansiedad; práctica con tecnologías digitales; tecnologías de comunicación sincrónicas/asincrónicas (dificultades/beneficios), y cuáles continuarían usando al regresar a la universidad. Los datos se analizaron mediante las pruebas Chi-cuadrado v exacta de Fisher (α =0.05). La motivación se vio más afectada entre las profesoras. estudiantes y brasileños (p<0,05). La preocupación por el futuro académico fue mayor entre las estudiantes, hasta los 30 años, de América Latina y Brasil, y menor para el profesorado europeo (p<0,05). El estrés fue mayor para el estudiantado de pregrado de Latinoamérica y Brasil hasta los 20 años (p<0.05). El profesorado europeo utilizó más servicios de videoconferencia sincrónica para clases y consultas, mientras que el brasileño utilizó más aplicaciones de mensajería de texto para consultas (p<0,05). El profesorado latinoamericano utilizó más encuestas para evaluación (p<0.05). El profesorado brasileño indicó que utilizaría "reuniones en línea" y "servicios de encuestas" cuando regresaran a la presencialidad, mientras que el profesorado/ estudiantado europeo utilizaría "correo electrónico" (p<0,05). El profesorado de Asia/ Oceanía/Medio Oriente y profesorado/estudiantado de Brasil indicó que "las actividades remotas eran importantes para que el estudiantado no estuviera inactivo" (p<0,05). Se relizaron esfuerzos para adaptar la enseñanza de la Odontología al aprendizaje a distancia durante la pandemia de COVID-19. Sin embargo, las tecnologías utilizadas y las experiencias difirieron entre profesores y estudiantes.

PALABRAS CLAVE: Infecciones por coronavirus; Distanciamiento social; Estudiantes; Educación en odontología.

INTRODUCTION

The Coronavirus Disease 2019 (COVID-19), responsible for the severe acute respiratory syndrome (SARS-COV-2), appeared in Wuhan (Hubei province, China) in late 2019 (1-3). Due to the high rate of contamination among people, it quickly migrated to all continents from east to west (from Asia, going to Europe and the Americas), assuming a pandemic status (1,2,4,5). To limit the spread of the virus, isolation and social distancing measures determined by the World Health Organization (WHO) immediately involved the temporary closure of educational institutions, and consequently, the interruption of worldwide classroom activities (1,2,6,7). Thus, to maintain education, alternatives were made possible through distance learning (1, 2, 8, 9).

In this context, the virtual approach between professors and students has been provided through digital communication technologies (1,7,9). These technologies allow teaching by synchronous (real-time lectures) or asynchronous (recorded content available on digital platforms) methods (10), expediting the interaction between professors and students, and consequently, supporting the teaching-learning process (7).

Health courses, such as dentistry, depend on face-to-face contact with patients to train students. This training cannot be provided by distance learning, which has had didactic content exclusively (2,8,9). Despite this limitation, such teaching modality has allowed the learning process to continue by teaching the dentistry didactic components despite being suspended in-person classroom activities. Even in countries where the gradual return is being carried out (11), it is recommended that lectures continue through digital resources to avoid gatherings (4,6). This recommendation aims to prevent new contagion waves (3) due to the lack of specific treatments for COVID-19 or vaccines available to everyone. Additionally, some countries are experiencing a second wave of virus transmission, which could lead to suspend classes at any level of education again.

Previous experiences concerning the use of digital resources in teaching (e-learning) have already been carried out in different dentistry disciplines (12-14). However, they had been applied as a complement to face-to-face education, in an organized and previously planned way, but not in an emergency, as imposed by the Covid-19 public health crisis. Thus, this study aimed to evaluate the incorporation of digital technologies to adapt dental education during the COVID-19 pandemic and the associated experience of professors and undergraduate/graduate students.

MATERIAL AND METHODS

This study was approved by the local research ethics committee (CAAE: 32042720.8.0000.5418). All participants agreed to the informed consent form.

SAMPLE CHARACTERIZATION

A total of 995 volunteers participated in the study, being 479 (49.1%) professors and 516 (51.9%) students (Supplementary Material 1 and Figure 1).



Figure 1. Sample of the professors and students divided between continents/countries.

Although Mexico belongs geographically to North America, in the present study, due to the economic, cultural, and language characteristics in teaching and universities, this country was included among the other Spanish-speaking countries of Latin America. Also, it should be noted that, although Brazil is also part of Latin America, in the present study it was assessed separately due to its continental dimensions and the Portuguesespeaking language.

QUESTIONNAIRE APPLICATION

Dentistry professors with experience in distance learning and communication technologies developed the research questionnaire. The questionnaire consisted of demographic data, and multiple-choice questions divided into two sections. The first section was composed of motivationrelated questions concerning the teaching process imposed by social isolation and the status of university teaching activities.

The second section of the questionnaire had questions related to anxiety and stress regarding remote classes, digital communication technologies (synchronous/asynchronous) used for the different tasks (lectures, questions, evaluations), training for using these digital communication technologies, and difficulties/benefits of remote classes (Supplementary Material 2).

The answers about digital communication technologies were grouped by type, with examples to help the participants understand, such as:

For teaching lectures: Services for synchronous videoconferences (e.g., Zoom®, Google Meet®, Microsoft Teams®, Skype®); Services for synchronous real-time presentations (e.g., Youtube® Live, Twitch®, Collaborate Ultra®, Instagram Live®); Synchronous video calling applications (e.g., Whatsapp® video, Facebook® Messenger, Google® Duo, Facetime®); Video

hosting asynchronous services (e.g., Youtube®, Panopto®, Vimeo®); others;

- Answering questions about the content of the lectures: Email; Synchronous video services (e.g., Zoom®, Google Meet®, Microsoft Teams®, Skype®, Instagram® Live); Text messaging applications (e.g., WhatsApp®, SMS®, Facebook® Messenger); Discussion forums; University's learning management systems (e.g., Blackboard®, Google Classroom®, Canvas®, Moodle®); others;
- Sending activities: Email; Text messaging applications (e.g., WhatsApp®, SMS®, Facebook® Messenger); Survey services (e.g., Google Forms®, Microsoft Forms®, Surveymonkey®); Cloud-storage services (e.g., Google Drive®, Dropbox®, Microsoft Onedrive®); University's learning management systems (e.g., Blackboard®, Google Classroom®, Canvas®, Moodle®); Interactive online polling services (e.g., Kahoot!®, Mentimeter®, Socrative®); others;
- Sending assessments: Email; Survey services (e.g., Google Forms®, Microsoft Forms®, Surveymonkey®); Cloud data storage services (e.g., Google Drive®, Dropbox®, Microsoft Onedrive®); University's learning management system (e.g., Blackboard®, Google Classroom®, Canvas®, Moodle®); Interactive online polling services (e.g., Kahoot!®, Mentimeter®, Socrative®); others.

The questions referring to the second part of the questionnaire were answered only by the participants who had their face-to-face activities suspended and had lectures or activities remotely. The questionnaire had a version for professors and another for undergraduate and postgraduate students in Dentistry (master's students, doctoral students, post-doctoral students, specialization, and residents). The questions regarding demographic data, anxiety/stress levels, and the classes' situation accepted only one answer. The questions regarding the tools used and benefits and difficulties accepted more than one answer. Considering both, participants could have used more than one technology type and faced several challenges and benefits. The questionnaire was made available through the Google Forms platform (Alphabet Co., Mountain View, California, USA). Participants received an invitation with an access link sent by email or WhatsApp application. Participants were invited to participate voluntarily, having access to the questionnaire after agreeing to the Informed Consent Form. The answering time was approximately five minutes.

DATA ANALYSIS

The results were expressed in frequencies (absolute number and percentage). For statistical analysis, the Chi-square test and Fisher's exact were used, considering the significance level of 5%. The analyzes were performed using SPSS software (Version 23.0, IBM Corp., Armonk, NY).

RESULTS

Regarding remote activities, 389 (81.2%) of professors and 445 (86.2%) of students had their face-to-face activities suspended and had online activities. With that, 389 professors and 445 students answered both parts of the questionnaire (Supplementary Material 3).

For professors, the motivation of teaching was most affected in female (p=0.027). The anxiety level about remote lectures was lower for professors in Europe than professors from other continents/countries (p=0.003 and 0.032) (Table 1). For students, the level of motivation with distance learning was significantly more affected in men (p=0.03) (Table 2). The concern with the academic future was greater among female students (p=0.032) and aged up to 20 years and 21 to 30 years (p=0.009), and for Latin American students and Brazil (p<0.0001) (Table 2). The level of anxiety/stress with distance lessons was higher for students aged up to 20 years (p=0.001), for students in Brazil and Latin America (p < 0.0001), and for undergraduate students (p=0.023) (Table 2). Regarding the study of the subjects of the undergraduate/postgraduate courses during the isolation period, it was found that younger students (up to 20 years old) are studying more with distance learning and less alone than students from other age groups (p<0.0001) (Supplementary Material 4). It was also observed that students from private universities are studying more than students from public universities (p<0.0001) (Supplementary Material 4).

Regarding university training/support for the use of digital communication technologies to develop distance lessons/activities, it was found that Latin American professors received more training than those from other continents/ countries (p<0.0001) (Supplementary Material 5). Besides, professors at public universities received less training than professors at other types of institutions (p<0.0001) (Supplementary Material 5). North American and European students, in contrast, had more training/support to access distance learning/activities than students from Brazil and Latin America (p<0.0001) (Supplementary Material 5). It was also observed that students from private universities received more training than students from public universities (p < 0.0001) (Supplementary Material 5).

The most used means to solve students' questions were email (31.4%), videoconference (31.3%), and text messaging applications (21.7%). In that way, Brazilian professors used text messaging apps the most, while North American professors used them the less (p<0.0001) (Table 3). Between the continents, there was a difference in the use of online quiz services, being less used in Asia/ Oceania/Middle East, and more used in Latin America and Europe (p<0.0001) (Table 3).

To access remote lectures, students from all continents/countries used computers/notebooks more than mobile devices (p<0.0001) (Table 3). Latin American students used survey services

more than students from other continents/countries, students from Brazil, on the other hand, used survey services less than other continents (p<0.0001) (Table 4). Students at private universities used the universities' platforms for assessment activities the most (Table 4).

When participants were asked which online tools could be used when returning to face-to-face lessons, the highest response frequencies were for "online meetings" and "university system" for both professors and students, without interference from participants' sex and age. Professors in Brazil answered more "online meetings" and "survey services" and less "email" and "online polling services" than professors from other continents (p<0.0001); professors in Europe scored fewer "cloud storage services" than other continents/ countries (p<0.0001) (Table 5). Students from Brazil marked more the option "none" and less "survey services" and "emails" than students from other continents. While students in Latin America scored more "survey services" and less "survey services." Students from Europe scored more "emails" and less "survey administration services" (p<0.0001) (Table 5).

Regarding the difficulties with distance learning, most professors aged 21-30 years indicated "low student participation"; professors aged 61-70 and 71-80 years had more "difficulty recording lectures," while professors aged 71-80 years cited "lack of knowledge with technologies of video conferencing." On the other hand, professors aged 61 to 70 years indicated more "not having difficulty" with remote lectures (p = 0.011) (Table 6). Professors from Latin America and Asia/Oceania/ Middle East had more "difficulty accessing the internet," while professors from Europe indicated that they "had no difficulties" (p=0.007) (Table 6). Considering the benefits of distance learning, professors in Europe indicated more that they were able to "transmit the content better" than "to be safe in the pandemic"; professors from Asia/ Oceania/Middle East and Brazil indicated that "with remote activities, students are not idle" (p<0.0001) (Table 6).

It was found that in Europe, students had greater "difficulty in accessing the internet" and less "difficulty in concentration" than students from other continents/countries. In comparison, students in Brazil had greater "difficulty in concentration with remote lectures" than students from other continents (p<0.0001) (Table 7). Among the benefits of distance learning, students in Brazil chose more "not to be idle and anxious" and "security during the pandemic" than other continents. In contrast, students in Europe marked less the item "security during the pandemic" and more "I feel more comfortable" than the other continents/country (p<0.0001) (Table 7).

ons (scores from 1 to 10, the higher	
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ing associated w	
xiety concerning teaching associated with distance lessons (so	
's' motivation and stress/anxiety	the score, the higher the level of stress/anxiety).
Table 1. Professors'	the score, the higher t

	Question			How has social	isolation impact	How has social isolation impacted your ability and motivation in the teaching/learning process?	nd motivation in	the teaching/le	arning process?			
Variables		-	2	e	4	5	9	7	8	6	10	p-value
Sex	Female	6 (2.2)	4 (1.5)	17 (6.2)	24 (8.8)	59 (21.6)	34 (12.5)	47 (17.2)	52 (19.0)	22 (8.1)	8 (2.9)	0.027**
	Male	8 (3.9)	8 (3.9)	17 (8.3)	22 (10.7)	48 (23.3)	18 (8.7)	27 (13.1)	30 (14.6)	11 (5.3)	17 (8.3)	
Age	No answer	1 (1.7)	3 (5.1)	8 (13.6)	11 (18.6)	12 (20.3)	4 (6.8)	9 (15.3)	6 (10.2)	2 (3.4)	3 (5.1)	0.371*
	21-30	1 (4.3)	0 (0.0)	2 (8.7)	2 (8.7)	6 (26.1)	3 (13.0)	4 (17.4)	2 (8.7)	2 (8.7)	1 (4.3)	
	31-40	2 (1.4)	1 (0.7)	7 (5.1)	10 (7.2)	32 (23.2)	23 (16.7)	23 (16.7)	27 (19.6)	8 (5.8)	5 (3.6)	
	41-50	1 (0.7)	3 (2.2)	10 (7.2)	12 (8.6)	31 (22.3)	13 (9.4)	21 (15.1)	27 (19.4)	14 (10.1)	7 (5.0)	
	51-60	4 (4.7)	2 (2.3)	4 (4.7)	9 (10.5)	20 (23.3)	7 (8.1)	13 (15.1)	14 (16.3)	6 (7.0)	7 (8.1)	
	61-70	5 (16.7)	2 (6.7)	3 (10.0)	1 (3.3)	6 (20.0)	1 (3.3)	4 (13.3)	5 (16.7)	1 (3.3)	2 (6.7)	
	71-80	0 (0.0)	1 (25.0)	0 (0.0)	1 (25.0)	0 (0.0)	1 (25.0)	0 (0.0)	1 (25.0)	0 (0.0)	0 (0.0)	
Continent	North America	0 (0.0)	3 (10.0)	2 (6.7)	6 (20.0)	10 (33.3)	3 (10.0)	2 (6.7)	0 (0.0)	3 (10.0)	1 (3.3)	0.067*
	Latin America	0 (0.0)	2 (3.2)	5 (7.9)	5 (7.9)	15 (23.8)	4 (6.3)	11 (17.5)	8 (12.7)	7 (11.1)	6 (9.5)	
	Brazil	13 (3.9)	6 (1.8)	23 (7.0)	29 (8.8)	71 (21.5)	38 (11.5)	50 (15.2)	68 (20.6)	20 (6.1)	12 (3.6)	
	Europe	1 (2.0)	1 (2.0)	4 (8.0)	5 (10.0)	9 (18.0)	6 (12.0)	9 (18.0)	6 (12.0)	3 (6.0)	6 (12.0)	
	Asia/Oceania/ Middle East	0 (0.0)	0 (0.0)	0 (0.0)	1 (16.7)	2 (33.3)	1 (16.7)	2 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	
	Total	14 (2.9)	12 (2.5)	34 (7.1)	46 (9.6)	107 (22.3)	52 (10.9)	74 (15.4)	82 (17.1)	33 (6.9)	25 (5.2)	479 (100.0)
	Question			What is your any	ciety/stress leve	What is your anxiety/stress level with distance learning (how do I feel about remote lectures)?	sarning (how do	l feel about ren	note lectures)? #			
Variables		1	2	3	4	5	9	7	8	6	10	
Sex	Female	18 (8.5)	27 (12.7)	22 (10.3)	19 (8.9)	32 (15.0)	24 (11.3)	26 (12.2)	25 (11.7)	13 (6.1)	7 (3.3)	0.113*
	Male	34 (19.5)	13 (7.5)	20 (11.5)	15 (8.6)	25 (14.4)	22 (12.6)	12 (6.9)	20 (11.5)	10 (5.7)	3 (1.7)	
Age	No answer	3 (6.3)	4 (8.3)	8 (16.7)	2 (4.2)	5 (10.4)	12 (25.0)	6 (12.5)	6 (12.5)	1 (2.1)	1 (2.1)	0.812*
	21-30	3 (16.7)	2 (11.1)	3 (16.7)	2 (11.1)	1 (5.6)	2 (11.1)	1 (5.6)	2 (11.1)	2 (11.1)	0 (0.0)	
	31-40	11 (9.3)	16 (13.6)	11 (9.3)	11 (9.3)	19 (16.1)	14 (11.9)	9 (7.6)	14 (11.9)	8 (6.8)	5 (4.2)	
	41-50	18 (16.7)	12 (11.1)	7 (6.5)	8 (7.4)	17 (15.7)	11 (10.2)	9 (8.3)	15 (13.9)	8 (7.4)	3 (2.8)	
	51-60	11 (15.5)	6 (8.5)	9 (12.7)	10 (14.1)	12 (16.9)	5 (7.0)	9 (12.7)	6 (8.5)	3 (4.2)	0 (0.0)	
	61-70	4 (20.0)	0 (0.0)	4 (20.0)	1 (5.0)	3 (15.0)	1 (5.0)	4 (20.0)	1 (5.0)	1 (5.0)	1 (5.0)	
	71-80	2 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0 0)	1 (25 0)	0 0 0	1 (25 0)	0 0/ 0	0 (0 0)	

International matrix I Z <thz< th=""> Z Z Z</thz<>		question				•							
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Latin America 4 (6.5) 2 (3.3) 7 (11.5) 5 (8.2) 8 (13.1) 10 (16.4) 4 (6.5) 11 (18.0) 8 (13.1) Europe 15 (31.9) 4 (8.5) 3 (12.2) 26 (10.6) 18 (7.3) 24 (17.1) 28 (11.4) 14 (5.7) Europe 15 (31.9) 4 (8.5) 9 (19.1) 4 (8.5) 5 (10.6) 2 (4.3) 3 (6.4) 1 (2.1) Assocreamiation 0 (0.0) 0 (0.0) 4 (85.7) 0 (0.0) 1 (16.7) 0 (0.0) Model East 52 (13.4) 40 (10.3) 42 (10.9) 3 (8.1) 4 (61.1) 3 (6.1) 0 (0.0) Model East 52 (13.4) 40 (10.3) 42 (10.9) 3 (8.1) 1 (16.7) 2 (17.1) 1 (16.7) 2 (17.1) 1 (16.7) 2 (16.9) 1 (16.7) 1 (16.7) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1) 1 (16.7) 1 (16.1)	Continent	North America	3 (11.1)	4 (14.8)	1 (3.7)	2 (7.4)	3 (11.1)	6 (22.2)	5 (18.5)	2 (7.4)	0.0) 0	1 (3.7)	
Brazil 30 (12.2) 30 (12.2) 30 (12.2) 30 (12.2) 30 (12.2) 30 (12.2) 30 (12.1) 14 (5.7)		Latin America	4 (6.6)	2 (3.3)	7 (11.5)	5 (8.2)	8 (13.1)	10 (16.4)	4 (6.6)	11 (18.0)	8 (13.1)	2 (3.3)	
		Brazil	30 (12.2)	30 (12.2)	26 (10.6)	18 (7.3)	42 (17.1)	24 (9.8)	27 (11.0)	28 (11.4)	14 (5.7)	7 (2.8)	
		Europe	15 (31.9)	4 (8.5)	4 (8.5)	9 (19.1)	4 (8.5)	5 (10.6)	2 (4.3)	3 (6.4)	1 (2.1)	0 (0.0)	
		Asia/Oceania/ Middle East	0 (0.0)	0 (0.0)	4 (66.7)	0 (0.0)	0 (0.0)	1 (16.7)	0 (0.0)	1 (16.7)	0 (0.0)	0 (0.0)	
Outcin Matrix part is not interest for the classes activities (not being allocable in course's content)? bits 1 2 3 4 5 6 7 8 9 bits Female 14(6.6) 11(5.2) 16(7.5) 10(4.7) 27(12.7) 15(7.0) 32(15.0) 40(18.0) 13(6.1) Male 22(12.6) 8(4.6) 15(8.6) 7(4.0) 21(12.1) 21(12.1) 26(14.4) 30(17.2) 14(8.0) Male 22(12.6) 8(4.5) 15(8.6) 7(4.0) 21(12.1) 21(12.1) 21(2.1) 21(2.1) 21(2.1) 21(2.1) 21(2.1) 21(2.1) 21(2.1) 21(2.1) 21(1.2) 22(12.6) 8(4.6) 7(4.5) 8(1.2) 21(1.2)		Total	52 (13.4)	40 (10.3)	42 (10.9)	34 (8.8)	57 (14.7)	46 (11.9)	38 (9.8)	45 (11.6)	23 (5.9)	10 (2.6)	387 (100.0)
ables 1 2 3 4 5 6 7 8 4 6 7 8 6 7 8 7 9 9 Female 14 (5.6) 11 (5.2) 16 (7.5) 10 (4.7) 27 (12.7) 15 (7.0) 32 (15.0) 40 (18.8) 13 (6.1) Male 22 (12.6) 8 (4.6) 1 (5.1) 36 (3.3) 5 (10.4) 7 (14.6) 11 (2.2) 14 (8.0) S No answer 4 (8.3) 1 (7.1) 1 (5.6) 2 (11.1) 1 (5.6) 4 (8.3) 3 (17.2) 14 (8.0) S 13 - 40 7 (5.9) 6 (5.1) 9 (7.4) 2 (12.7) 1 (16.2) 4 (22.2) 4 (22.2) 1 (5.1) S 14 - 50 9 (8.3) 6 (5.1) 9 (7.4) 4 (3.7) 1 (16.7) 2 (12.7) 1 (5.1) 1 (5.1) 1 (5.1) 1 (5.1) 1 (5.1) 1 (5.1) 1 (5.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.1) 1 (6.		Question		What i	s your level of co	oncern with the	classes/activitie	es (not being ab	le to teach all th	ne course's conte	snt)? #		
Female 14 (6.6) 11 (5.2) 16 (7.5) 10 (4.7) 27 (12.7) 15 (7.0) 32 (15.0) 40 (18.8) 13 (6.1)Male 22 (12.6) 8 (4.6) 15 (8.6) 7 (4.0) 21 (12.1) 25 (14.4) 30 (17.2) 14 (8.0)Name 4 (8.3) 1 (2.1) 3 (6.3) 5 (10.4) 7 (14.6) 11 (22.9) 6 (12.5) 4 (8.3) 21 -30 1 (5.6) 2 (11.1) 1 (5.6) 0 (0.0) 0 (0.0) 2 (11.1) 4 (22.2) 4 (3.3) 31 -40 7 (5.9) 6 (5.1) 9 (7.6) 6 (5.1) 9 (7.6) 6 (5.1) 15 (12.7) 11 (9.3) 12 (10.2) 15 (12.7) 41 -50 9 (8.3) 6 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 6 (5.6) 17 (15.7) 15 (12.2) 51 -60 11 (15.5) 4 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 6 (5.6) 17 (15.7) 16 (12.2) 51 -60 11 (15.5) 4 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 6 (7.0) 11 (15.7) 23 (2.13) 51 -60 11 (15.5) 4 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 6 (7.0) 11 (15.7) 23 (2.13) 51 -60 11 (15.5) 1 (5.0) 1 (5.1) 17 (15.7) 16 (7.0) 17 (15.7) 23 (2.13) 3 (2.8) 51 -60 11 (15.6) 2 (10.4) 7 (15.7) 17 (15.7) 5 (7.0) 11 (15.7) 23 (2.13) 3 (2.8) 71 -80 1 (15.0) </td <td>Variables</td> <td></td> <td>-</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>9</td> <td>7</td> <td>8</td> <td>6</td> <td>10</td> <td></td>	Variables		-	2	3	4	5	9	7	8	6	10	
	Sex	Female	14 (6.6)	11 (5.2)	16 (7.5)	10 (4.7)	27 (12.7)	15 (7.0)	32 (15.0)	40 (18.8)	13 (6.1)	35 (16.4)	0.087**
No answer 4 (8.3) 1 (2.1) 3 (6.3) 5 (10,4) 7 (14,6) 11 (22.9) 6 (12.5) 4 (8.3) 21-30 1 (5.6) 2 (11.1) 1 (5.6) 2 (11.1) 1 (5.6) 4 (8.3) 1 (5.6) 31-40 7 (5.9) 6 (5.1) 9 (7.6) 0 (0.0) 2 (11.1) 4 (22.2) 4 (8.3) 31-40 7 (5.9) 6 (5.1) 9 (7.6) 6 (5.1) 15 (12.7) 11 (9.3) 12 (10.2) 19 (16.1) 15 (12.7) 41-50 9 (8.3) 6 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 6 (5.6) 17 (15.7) 23 (21.3) 3 (2.0) 51-60 11 (15.5) 4 (5.6) 8 (7.4) 4 (3.7) 17 (15.7) 5 (7.0) 11 (15.7) 3 (2.1) 3 (4.2) 61-70 3 (15.0) 0 (0.0) 3 (15.0) 1 (5.0) 2 (10.0) 3 (15.0) 1 (5.0) 71-80 1 (25.0) 0 (0.0) 1 (5.0) 2 (10.0) 3 (15.0) 1 (5.0) 1 (5.0) 71-80 1 (25.0) 0 (0.0)		Male	22 (12.6)	8 (4.6)	15 (8.6)	7 (4.0)	21 (12.1)	21 (12.1)	25 (14.4)	30 (17.2)	14 (8.0)	11 (6.3)	
21-30 $1(5.6)$ $2(11.1)$ $1(5.6)$ $0(0.0)$ $0(0.0)$ $2(11.1)$ $4(22.2)$ $4(22.2)$ $1(25.2)$ $1(5.6)$ $31-40$ $7(5.9)$ $6(5.1)$ $9(7.6)$ $6(5.1)$ $15(12.7)$ $11(9.3)$ $12(10.2)$ $19(16.1)$ $15(12.7)$ $41-50$ $9(8.3)$ $6(5.6)$ $8(7.4)$ $4(3.7)$ $17(15.7)$ $6(5.6)$ $17(15.7)$ $23(21.3)$ $3(2.8)$ $51-60$ $11(15.5)$ $4(5.6)$ $6(8.5)$ $2(2.8)$ $9(12.7)$ $5(7.0)$ $11(15.5)$ $15(21.1)$ $3(4.2)$ $61-70$ $3(15.0)$ $0(0.0)$ $3(15.0)$ $1(5.0)$ $2(10.0)$ $4(20.0)$ $2(11.0)$ $3(15.0)$ $71-80$ $1(25.0)$ $0(0.0)$ $3(15.0)$ $1(5.0)$ $2(10.0)$ $4(20.0)$ $2(11.0)$ $3(15.0)$ $71-80$ $1(25.0)$ $0(0.0)$ $3(15.0)$ $1(5.0)$ $2(10.0)$ $4(20.0)$ $2(11.0)$ $3(15.0)$ $71-80$ $1(25.0)$ $0(0.0)$ $1(25.0)$ $0(0.0)$ $1(25.0)$ $0(0.0)$ $0(0.0)$ $0(0.0)$ $71-80$ $1(25.0)$ $0(0.0)$ $1(25.0)$ $0(0.0)$ $1(25.0)$ $10(0.0)$ $0(0.0)$ $71-80$ $1(25.0)$ $0(0.0)$ $1(25.0)$ $1(25.0)$ $1(15.6)$ $1(5.0)$ $1(5.0)$ $124in$ America $3(11.1)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ $2(7.4)$ Latin America $3(4.9)$ $1(1.6)$ $3(1.2)$ $2(3.3)$ $9($	Ages	No answer	4 (8.3)	1 (2.1)	3 (6.3)	3 (6.3)	5 (10.4)	7 (14.6)	11 (22.9)	6 (12.5)	4 (8.3)	4 (8.3)	0.481*
31-407 (5.9)6 (5.1)9 (7.6)6 (5.1)15 (12.7)11 (9.3)12 (10.2)19 (16.1)15 (12.7)41-509 (8.3)6 (5.6)8 (7.4)4 (3.7)17 (15.7)6 (5.6)17 (15.7)23 (21.3)3 (2.8)51-6011 (15.5)4 (5.6)8 (7.4)4 (3.7)17 (15.7)5 (7.0)11 (15.5)15 (21.1)3 (4.2)61-703 (15.0)0 (0.0)3 (15.0)1 (5.0)2 (10.0)2 (10.0)2 (10.0)3 (15.0)1 (5.0)71-801 (25.0)0 (0.0)1 (25.0)1 (25.0)1 (25.0)0 (0.0)3 (11.1)2 (11.0)3 (15.0)0 (0.0)North America3 (11.1)2 (7.4)0 (0.0)3 (11.1)4 (14.8)7 (25.9)3 (11.1)1 (3.7)Latin America3 (4.9)1 (1.6)5 (8.2)3 (4.9)8 (13.1)2 (3.3)9 (14.8)1 (13.7)Brasil19 (7.7)14 (5.7)16 (6.5)9 (3.7)32 (13.0)26 (10.6)32 (13.0)48 (19.5)1 (7.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)5 (10.6)3 (6.4)7 (14.9)1 (7.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (33.3)1 (16.7)1 (2.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)2 (13.0)2 (13.0)2 (13.0)1 (6.1)1 (2.1)Asia/Oceania/0 (0.0)1 (16.7)0 (0.0)0 (0.0)1 (16.7)2 (13.0)2 (13.0)1 (16.7)1 (17.7) </td <td></td> <td>21-30</td> <td>1 (5.6)</td> <td>2 (11.1)</td> <td>1 (5.6)</td> <td>0 (0.0)</td> <td>0 (0.0)</td> <td>2 (11.1)</td> <td>4 (22.2)</td> <td>4 (22.2)</td> <td>1 (5.6)</td> <td>3 (16.7)</td> <td></td>		21-30	1 (5.6)	2 (11.1)	1 (5.6)	0 (0.0)	0 (0.0)	2 (11.1)	4 (22.2)	4 (22.2)	1 (5.6)	3 (16.7)	
41-509 (8.3)6 (5.6)8 (7.4)4 (3.7)17 (15.7)6 (5.6)17 (15.7)23 (21.3)3 (2.8)51-6011 (15.5)4 (5.6)6 (8.5)2 (2.8)9 (12.7)5 (7.0)11 (15.5)15 (21.1)3 (4.2)61-703 (15.0)0 (0.0)3 (15.0)1 (5.0)2 (10.0)4 (20.0)2 (10.0)3 (4.2)71-801 (25.0)0 (0.0)1 (25.0)0 (0.0)1 (25.0)0 (0.0)1 (5.0)North America3 (11.1)2 (7.4)2 (7.4)0 (0.0)3 (11.1)4 (14.8)7 (25.9)3 (11.1)North America3 (4.9)1 (16.5)3 (11.1)2 (13.1)2 (3.3)9 (14.8)1 (3.7)Latin America3 (4.9)1 (16.5)9 (3.7)32 (13.0)2 (10.6)3 (11.1)1 (3.7)Brasil19 (7.7)14 (5.7)16 (6.5)9 (3.7)32 (13.0)26 (10.6)3 (11.1)1 (3.7)Kuope11 (23.4)2 (4.3)7 (14.9)5 (10.6)3 (6.4)7 (14.9)6 (12.8)1 (7.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (33.3)1 (16.7)0 (0.0)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (3.3)1 (16.7)1 (2.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (3.3)1 (17.7)1 (7.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (3.3)1 (16		31-40	7 (5.9)	6 (5.1)	9 (7.6)	6 (5.1)	15 (12.7)	11 (9.3)	12 (10.2)	19 (16.1)	15 (12.7)	18 (15.3)	
51-6011 (15.5)4 (5.6)6 (8.5)2 (2.8)9 (12.7)5 (7.0)11 (15.5)15 (21.1)3 (4.2)61-703 (15.0)0 (0.0)3 (15.0)1 (5.0)2 (10.0)2 (10.0)3 (15.0)1 (5.0)71-801 (25.0)0 (0.0)1 (25.0)1 (25.0)0 (0.0)1 (25.0)0 (0.0)0 (0.0)North America3 (11.1)2 (7.4)2 (7.4)0 (0.0)1 (25.0)0 (0.0)0 (0.0)0 (0.0)North America3 (11.1)2 (7.4)2 (7.4)0 (0.0)3 (11.1)4 (14.8)7 (25.9)3 (11.1)1 (3.7)Latin America3 (4.9)1 (1.6)5 (8.2)3 (4.9)8 (13.1)2 (3.3)9 (14.8)7 (11.5)7 (11.5)Brasil19 (7.7)14 (5.7)16 (6.5)9 (3.7)32 (13.0)26 (10.6)32 (13.0)48 (19.5)18 (7.3)Europe11 (23.4)2 (4.3)7 (14.9)5 (10.6)5 (10.6)3 (6.4)7 (14.9)6 (12.8)1 (2.1)Asia/Oceania/0 (0.0)0 (0.0)1 (16.7)0 (0.0)1 (16.7)2 (33.3)1 (16.7)0 (0.0)		41-50	9 (8.3)	6 (5.6)	8 (7.4)	4 (3.7)	17 (15.7)	6 (5.6)	17 (15.7)	23 (21.3)	3 (2.8)	15 (13.9)	
61-70 $3 (15.0)$ $0 (0.0)$ $3 (15.0)$ $1 (5.0)$ $2 (10.0)$ $3 (15.0)$ $1 (5.0)$ $71-80$ $1 (25.0)$ $0 (0.0)$ $1 (25.0)$ $1 (25.0)$ $0 (0.0)$ $0 (0.0)$ $0 (0.0)$ North America $3 (11.1)$ $2 (7.4)$ $2 (7.4)$ $2 (7.4)$ $0 (0.0)$ $3 (11.1)$ $4 (14.8)$ $7 (25.9)$ $3 (11.1)$ $1 (3.7)$ Latin America $3 (11.1)$ $2 (7.4)$ $2 (7.4)$ $0 (0.0)$ $3 (11.1)$ $4 (14.8)$ $7 (25.9)$ $3 (11.1)$ $1 (3.7)$ Brasil $19 (7.7)$ $11 (1.6)$ $5 (8.2)$ $3 (4.9)$ $8 (13.1)$ $2 (3.3)$ $9 (14.8)$ $12 (19.7)$ $7 (11.5)$ Brasil $19 (7.7)$ $14 (5.7)$ $16 (6.5)$ $9 (3.7)$ $32 (13.0)$ $26 (10.6)$ $32 (13.0)$ $48 (19.5)$ $18 (7.3)$ Asia/Oceania/ $0 (0.0)$ $0 (0.0)$ $1 (16.7)$ $0 (0.0)$ $1 (16.7)$ $0 (0.0)$ $1 (2.1)$ Asia/Oceania/ $0 (0.0)$ $0 (0.0)$ $1 (16.7)$ $0 (0.0)$ $1 (16.7)$ $0 (0.0)$ Middle East		51-60	11 (15.5)	4 (5.6)	6 (8.5)	2 (2.8)	9 (12.7)	5 (7.0)	11 (15.5)	15 (21.1)	3 (4.2)	5 (7.0)	
71-80 1 (25.0) 0 (0.0) 1 (25.0) 0 (0.0		61-70	3 (15.0)	0 (0.0)	3 (15.0)	1 (5.0)	2 (10.0)	4 (20.0)	2 (10.0)	3 (15.0)	1 (5.0)	1 (5.0)	
North America 3 (11.1) 2 (7.4) 2 (7.4) 0 (0.0) 3 (11.1) 4 (14.8) 7 (25.9) 3 (11.1) 1 (3.7) Latin America 3 (4.9) 1 (1.6) 5 (8.2) 3 (4.9) 8 (13.1) 2 (3.3) 9 (14.8) 12 (19.7) 7 (11.5) Brasil 19 (7.7) 14 (5.7) 16 (6.5) 9 (3.7) 32 (13.0) 26 (10.6) 32 (13.0) 48 (19.5) 18 (7.3) Europe 11 (23.4) 2 (4.3) 7 (14.9) 5 (10.6) 3 (6.4) 7 (14.9) 6 (12.8) 1 (2.1) Asia/Oceania/ 0 (0.0) 0 (0.0) 1 (16.7) 0 (0.0) 1 (16.7) 0 (0.0)		71-80	1 (25.0)	0 (0.0)	1 (25.0)	1 (25.0)	0 (0.0)	1 (25.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
nerica 3 (4.9) 1 (1.6) 5 (8.2) 3 (4.9) 8 (13.1) 2 (3.3) 9 (14.8) 12 (19.7) 7 (11.5) 19 (7.7) 14 (5.7) 16 (6.5) 9 (3.7) 32 (13.0) 26 (10.6) 32 (13.0) 48 (19.5) 18 (7.3) 11 (23.4) 2 (4.3) 7 (14.9) 5 (10.6) 5 (10.6) 3 (6.4) 7 (14.9) 6 (12.8) 1 (2.1) eania/ 0 (0.0) 0 (0.0) 1 (16.7) 0 (0.0) 1 (16.7) 2 (33.3) 1 (16.7) 0 (0.0)	Continent	North America	3 (11.1)	2 (7.4)	2 (7.4)	0 (0.0)	3 (11.1)	4 (14.8)	7 (25.9)	3 (11.1)	1 (3.7)	2 (7.4)	0.032*
19 (7.7) 14 (5.7) 16 (6.5) 9 (3.7) 32 (13.0) 26 (10.6) 32 (13.0) 48 (19.5) 18 (7.3) 1 11 (23.4) 2 (4.3) 7 (14.9) 5 (10.6) 5 (10.6) 3 (6.4) 7 (14.9) 6 (12.8) 1 (2.1) eania/ 0 (0.0) 0 (0.0) 1 (16.7) 0 (0.0) 1 (16.7) 2 (33.3) 1 (16.7) 0 (0.0)		Latin America	3 (4.9)	1 (1.6)	5 (8.2)	3 (4.9)	8 (13.1)	2 (3.3)	9 (14.8)	12 (19.7)	7 (11.5)	11 (18.0)	
11 (23.4) 2 (4.3) 7 (14.9) 5 (10.6) 5 (10.6) 3 (6.4) 7 (14.9) 6 (12.8) 1 (2.1) eania/ 0 (0.0) 0 (0.0) 1 (16.7) 0 (0.0) 1 (16.7) 0 (0.0)		Brasil	19 (7.7)	14 (5.7)	16 (6.5)	9 (3.7)	32 (13.0)	26 (10.6)	32 (13.0)	48 (19.5)	18 (7.3)	32 (13.0)	
0 (0.0) 0 (0.0) 1 (16.7) 0 (0.0) 0 (0.0) 1 (16.7) 2 (33.3) 1 (16.7) 0 (0.0)		Europe	11 (23.4)	2 (4.3)	7 (14.9)	5 (10.6)	5 (10.6)	3 (6.4)	7 (14.9)	6 (12.8)	1 (2.1)	0 (0.0)	
		Asia/Oceania/ Middle East	0 (0.0)	0 (0.0)	1 (16.7)	0 (0.0)	0 (0.0)	1 (16.7)	2 (33.3)	1 (16.7)	0 (0.0)	1 (16.7)	
Total 36 (9.3) 19 (4.9) 31 (8.0) 17 (4.4) 48 (12.4) 36 (9.3) 57 (14.7) 70 (18.1) 27 (7.0) 46 (Total	36 (9.3)	19 (4.9)	31 (8.0)	17 (4.4)	48 (12.4)	36 (9.3)	57 (14.7)	70 (18.1)	27 (7.0)	46 (11.9)	387 (100.0)

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	Question			How has social isolation impacted your applicity and motivation in the teaching/learning process?	solation impact	ea your ability a	ng motivation in	the teaching/lea	arning process <i>:</i>			
Variables		-	2	с	4	2	9	7	8	6	10	p-value
Sex	Female	37 (9.8)	27 (7.2)	64 (17.0)	53 (14.1)	66 (17.6)	40 (10.6)	34 (9.0)	35 (9.3)	11 (2.9)	10 (2.4)	0.030*
	Male	7 (5.1)	5 (3.6)	22 (15.9)	19 (13.8)	24 (17.4)	8 (5.8)	27 (19.6)	14 (10.1)	6 (4.3)	7 (4.3)	
Age	No answer	0 (0.0)	2 (8.3)	6 (25.0)	2 (8.3)	5 (20.8)	1 (4.2)	6 (25.0)	1 (4.2)	1 (4.2)	0 (0.0)	0.743*
	Until 20	7 (11.1)	9 (14.3)	12 (19.0)	10 (15.9)	8 (12.7)	5 (7.9)	5 (7.9)	5 (7.9)	1 (1.6)	1 (1.6)	
	21-30	33 (8.7)	21 (5.5)	61 (16.1)	52 (13.7)	69 (18.2)	38 (10.0)	42 (11.1)	37 (9.7)	13 (3.4)	14 (3.7)	
	31-40	3 (8.3)	0 (0.0)	6 (16.7)	4 (11.1)	7 (19.4)	3 (8.3)	5 (13.9)	5 (13.9)	2 (5.6)	1 (2.8)	
	41-50	0 (0.0)	0 (0.0)	1 (10.0)	3 (30.0)	0 (0.0)	1 (10.0)	3 (30.0)	1 (10.0)	0 (0.0)	1 (10.0)	
	51-60	1 (33.3)	0 (0.0)	0 (0.0)	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
Continent	North America	0 (0.0)	1 (11.1)	2 (22.2)	1 (11.1)	0 (0.0)	0 (0.0)	2 (22.2)	1 (11.1)	1 (11.1)	1 (11.1)	<0.0001*
	Latin America	6 (5.7)	2 (1.9)	16 (15.1)	14 (13.2)	21 (19.8)	13 (12.3)	12 (11.3)	13 (12.3)	6 (5.7)	3 (2.8)	
	Brazil	35 (12.7)	25 (9.1)	57 (20.7)	45 (16.3)	44 (15.9)	21 (7.6)	20 (7.2)	16 (5.8)	6 (2.2)	7 (2.5)	
	Europe	3 (2.4)	4 (3.2)	11 (8.8)	12 (9.6)	25 (20.0)	14 (11.2)	27 (21.6)	19 (15.2)	4 (3.2)	6 (4.8)	
	Total	44 (8.5)	32 (6.2)	86 (16.7)	72 (14.0)	90 (17.4)	48 (9.3)	61 (11.8)	49 (9.5)	17 (3.3)	17 (3.3)	516
	Question			What is your concern level about your academic future (not learning all the content for training)?	cern level about	t your academic	future (not learr	ing all the conte	ent for training)?			
Variables		-	2	3	4	5	9	7	8	6	10	
Sex	Female	10 (2.4)	7 (1.9)	12 (3.2)	16 (4.3)	21 (5.6)	27 (7.2)	36 (9.6)	57 (15.2)	48 (12.8)	143 (38.0)	0.032**
	Male	10 (7.2)	8 (5.8)	7 (5.1)	5 (3.6)	13 (9.4)	7 (5.1)	13 (9.4)	16 (11.6)	16 (11.6)	44 (31.2)	
Age	No answer	2 (8.3)	3 (12.5)	0 (0.0)	2 (8.3)	4 (16.7)	4 (16.7)	2 (8.3)	1 (4.2)	0 (0.0)	6 (25.0)	0.009*
	11-20	0 (0.0)	0 (0.0)	3 (4.8)	0.0) 0	2 (3.2)	2 (3.2)	9 (14.3)	5 (7.9)	5 (7.9)	37 (58.7)	
	21-30	10 (2.6)	10 (2.6)	13 (3.4)	16 (4.2)	25 (6.6)	26 (6.8)	33 (8.7)	58 (15.3)	53 (13.9)	136 (35.8)	
	31-40	4 (11.1)	1 (2.8)	2 (5.6)	2 (5.6)	2 (5.6)	1 (2.8)	5 (13.9)	6 (16.7)	6 (16.7)	7 (19.4)	
	41-50	3 (30.0)	1 (10.0)	0 (0.0)	1 (10.0)	1 (10.0)	1 (10.0)	0 (0.0)	3 (30.0)	0 (0.0)	0 (0.0)	
	51-60	1 (33.3)	0 (0.0)	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (33.3)	
Continent	North America	1 (11.1)	1 (11.1)	0 (0.0)	0 (0.0)	0 (0.0)	3 (33.3)	1 (11.1)	1 (11.1)	0 (0.0)	2 (22.2)	<0.0001*
	Latin America	3 (2.8)	2 (1.9)	1 (0.9)	2 (1.9)	5 (4.7)	5 (4.7)	6 (5.7)	14 (13.2)	15 (14.2)	53 (50.0)	
	Brazil	9 (3.3)	3 (1.1)	7 (2.5)	9 (3.3)	12 (4.3)	10 (3.6)	24 (8.7)	40 (14.5)	40 (14.5)	122 (44.2)	
	Europe	7 (5.6)	9 (7.2)	11 (8.8)	10 (8 0)	17 (13 6)	16 (12 8)	18 (14 4)	18 (14 4)	0 (7 2)	10 (8 0)	

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	question			wiiat is your ally	lety/stress leve		earning (now ao	I TEEI ADOUT FEN	What is your anxiety/stress level with distance learning (how do I feel about remote lectures)? #			
Variables		-	2	3	4	5	9	7	8	6	10	
Course	Undergraduate	9 (2.4)	9 (2.4)	11 (3.0)	10 (2.7)	24 (6.5)	22 (6.0)	30 (8.1)	52 (14.1)	43 (11.7)	159 (43.1)	
	Master's Degree	3 (4.8)	1 (1.6)	3 (4.8)	7 (11.3)	6 (9.7)	5 (8.1)	7 (11.3)	9 (14.5)	13 (21.0)	8 (12.9)	
	Doctorate	3 (6.7)	2 (4.4)	1 (2.2)	2 (4.4)	2 (4.4)	2 (4.4)	8 (17.8)	10 (22.2)	5 (11.1)	10 (22.2)	
	Post-doctorate	3 (37.5)	1 (12.5)	1 (12.5)	0 (0.0)	0 (0.0)	0 (0.0)	1 (12.5)	1 (12.5)	0 (0.0)	1 (12.5)	
	Especialization	1 (5.0)	1 (5.0)	3 (15.0)	2 (10.0)	1 (5.0)	3 (15.0)	1 (5.0)	1 (5.0)	2 (10.0)	5 (25.0)	
	Resident	1 (16.7)	0 (0.0)	0 (0.0)	0 (0.0)	1 (16.7)	2 (33.3)	1 (16.7)	0 (0.0)	0 (0.0)	1 (16.7)	
	Total	20 (3.9)	14 (2.7)	19 (3.7)	21 (4.1)	34 (6.7)	34 (6.7)	48 (9.4)	73 (14.3)	63 (12.4)	184 (36.1)	516 (100.0)
	Question		What	What is your anxiety/stress level with distance classes/activities (how do I feel about remote lectures): #	stress level with	h distance class	es/activities (ho	w do I feel abou	t remote lecture	#:(Si		
Variables		-	2	3	4	5	9	7	8	6	10	
Sex	Female	28 (8.5)	30 (9.1)	35 (10.7)	27 (8.2)	31 (9.5)	40 (12.2)	36 (11.0)	36 (11.0)	28 (8.5)	37 (11.3)	0.71**
	Male	16 (13.9)	17 (14.8)	13 (11.3)	11 (9.6)	10 (8.7)	9 (7.8)	18 (15.7)	12 (10.4)	3 (2.6)	6 (5.2)	
Age	No answer	4 (17.4)	3 (13.0)	4 (17.4)	1 (4.3)	2 (8.7)	1 (4.3)	2 (8.7)	3 (13.0)	2 (8.7)	1 (4.3)	0.001*
	11-20	1 (1.7)	3 (5.0)	4 (6.7)	2 (3.3)	3 (5.0)	5 (8.3)	12 (21.7)	9 (15.0)	10 (16.7)	10 (16.7)	
	21-30	34 (10.6)	33 (10.2)	37 (11.5)	30 (9.3)	34 (10.6)	38 (11.8)	38 (11.8)	30 (9.3)	15 (5.0)	32 (9.9)	
	31-40	4 (12.5)	8 (25.0)	3 (9.4)	2 (6.3)	2 (6.3)	4 (12.5)	1 (3.1)	5 (15.6)	2 (6.3)	1 (3.1)	
	41-50	1 (14.3)	0 (0.0)	0 (0.0)	3 (42.9)	0 (0.0)	1 (14.3)	0 (0.0)	1 (14.3)	1 (14.3)	0 (0.0)	
	51-60	1 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
Continent	North America	1 (14.3)	2 (28.6)	0 (0.0)	0 (0.0)	1 (14.3)	2 (28.6)	0 (0.0)	1 (14.3)	0 (0.0)	0 (0.0)	<0.0001*
	Latin America	3 (3.3)	4 (4.4)	8 (8.8)	5 (5.5)	13 (14.3)	10 (11.0)	10 (11.0)	12 (13.2)	12 (13.2)	14 (15.4)	
	Brazil	13 (5.7)	17 (7.5)	22 (9.6)	15 (6.6)	22 (9.6)	27 (11.8)	36 (15.8)	29 (12.7)	18 (7.9)	28 (12.7)	
	Europe	27 (23.5)	24 (20.2)	18 (15.1)	18 (15.1)	5 (4.2)	10 (8.4)	8 (6.7)	6 (5.0)	1 (0.8)	1 (0.8)	
Course	Undergraduate	25 (8.1)	24 (7.7)	29 (9.4)	28 (9.0)	27 (8.7)	36 (11.6)	38 (12.3)	38 (12.3)	25 (8.1)	40 (12.9)	0.023*
	Master's Degree	8 (13.6)	10 (16.9)	9 (15.3)	5 (8.5)	6 (10.2)	4 (6.8)	8 (13.6)	7 (11.9)	1 (1.7)	1 (1.7)	
	Doctorate	6 (15.0)	8 (20.0)	7 (17.5)	1 (2.5)	6 (15.0)	4 (10.0)	3 (7.5)	1 (2.5)	2 (5.0)	2 (5.0)	
	Post-doctorate	1 (16.7)	1 (16.7)	1 (16.7)	2 (33.3)	0 (0.0)	0 (0.0)	1 (16.7)	0 (0.0)	0 (0.0)	0 (0.0)	
	Especialization	4 (21.1)	3 (15.8)	2 (10.5)	1 (5.3)	0 (0.0)	3 (15.8)	3 (15.8)	0 (0.0)	2 (10.5)	1 (5.3)	
	Resident	1 (16.7)	1 (16.7)	0 (0.0)	1 (16.7)	1 (16.7)	2 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
	Total	45 (10 2)	47 (10 7)	48 (10 Q)	38 (8 6)	10 /0 1/	10 /11 1)	53 (12 U)	16 (10 E)		11 (10 U)	110 1100 01

	ducation		ADOUL THE LEADING/TEATING PLOCESS IN ISSOURVENEES ALIVITIES, WHAT IS YOUL THEFT STAINTING OF THE ISSOUR CONTENTLY. #									
Variables		-	2	æ	4	5	9	7	8	6	10	
Sex	Female	3 (0.9)	11 (3.4)	16 (4.9)	20 (6.1)	39 (11.9)	31 (9.5)	56 (17.1)	73 (22.3)	48 (14.6)	31 (9.5)	0.980*
	Male	0 (0.0)	2 (1.7)	5 (4.3)	8 (7.0)	14 (12.2)	15 (13.0)	18 (15.7)	27 (23.5)	17 (14.8)	9 (7.8)	
Age	No answer	0 (0.0)	3 (13.0)	4 (17.4)	0 (0.0)	5 (21.7)	2 (8.7)	3 (13.0)	3 (13.0)	1 (4.3)	2 (8.7)	0.700*
	11-20	1 (1.7)	1 (1.7)	4 (6.7)	7 (11.7)	7 (11.7)	8 (13.3)	6 (10.0)	12 (21.7)	11 (18.3)	2 (3.3)	
	21-30	2 (0.6)	8 (2.5)	13 (4.0)	21 (6.5)	41 (12.7)	31 (9.6)	56 (17.7)	75 (23.3)	43 (13.4)	31 (9.6)	
	31-40	0 (0.0)	1 (3.1)	0.0) 0	0 (0.0)	0 (0.0)	4 (12.5)	6 (18.8)	7 (21.9)	11 (34.4)	3 (9.4)	
	41-50	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (14.3)	2 (28.6)	2 (28.6)	0 (0.0)	2 (28.6)	
	51-60	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)	
Continent	North America	0 (0.0)	0 (0.0)	1 (14.3)	0 (0.0)	1 (14.3)	1 (14.3)	2 (28.6)	2 (28.6)	0 (0.0)	0 (0.0)	0.063*
	Latin America	0 (0.0)	0 (0.0)	1 (1.1)	5 (5.5)	14 (15.4)	11 (12.1)	17 (18.7)	20 (22.0)	14 (15.4)	9 (9.9)	
	Brazil	3 (1.3)	8 (3.5)	14 (6.1)	20 (8.8)	30 (13.2)	23 (10.1)	38 (16.7)	38 (16.7)	34 (15.4)	19 (8.3)	
	Europe	0 (0.0)	5 (4.2)	5 (4.2)	3 (2.5)	8 (6.7)	11 (9.2)	17 (14.3)	39 (33.6)	17 (14.3)	13 (10.9)	
Course	Undergraduate	3 (1.0)	9 (2.9)	14 (4.5)	25 (8.1)	40 (12.9)	35 (11.3)	52 (16.8)	68 (21.9)	41 (13.2)	23 (7.4)	0.650*
	Master's Degree	0 (0.0)	3 (5.1)	6 (10.2)	1 (1.7)	4 (6.8)	4 (6.8)	13 (22.0)	14 (23.7)	10 (16.9)	4 (6.8)	
	Doctorate	0 (0.0)	1 (2.5)	0 (0.0)	1 (2.5)	2 (5.0)	2 (5.0)	4 (10.0)	9 (22.5)	11 (27.5)	10 (25.0)	
	Post-doctorate	0 (0.0)	0 (0.0)	1 (16.7)	0 (0.0)	0 (0.0)	0 (0.0)	2 (33.3)	3 (50.0)	0 (0.0)	0 (0.0)	
	Especialization	0 (0.0)	0 (0.0)	0 (0.0)	1 (5.3)	3 (15.8)	4 (21.1)	2 (10.5)	3 (15.8)	2 (10.5)	4 (21.1)	
	Resident	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3 (50.0)	1 (16.7)	1 (16.7)	1 (16.7)	0 (0.0)	0 (0.0)	
	Total	3 (0.7)	13 (3.0)	21 (4.8)	28 (6.4)	52 (11.8)	46 (10.5)	74 (16.8)	98 (22.3)	64 (14.5)	41 (9.3)	440 (100.0)

				Device	Devices for recording lessons#\$	s#suo			
Variables		Photographic camera	Mobile device	l didn't record classes	PowerPoint	Videoconferencing services	Webcam	Others	p-value
Continent	Nort America	1 (2.6)	6 (15.4)	4 (10.3)	0 (0.0)	7 (17.9)	21 (53.8)	0 (0.0)	<0.0001*
	Latin America	9 (9.8)	23 (25.0)	4 (4.3)	0 (0.0)	7 (7.6)	45 (48.9)	4 (4.3)	
	Brazil	7 (1.8)	42 (10.6)	32 (8.0)	5 (1.3)	147 (36.9)	164 (41.2)	1 (0.3)	
	Europe	1 (1.9)	4 (7.4)	6 (11.1)	0 (0.0)	4 (7.4)	39 (72.2)	0 (0.0)	
	Asia/Oceania/ Middle East	0 (0.0)	1 (11.1)	0 (0.0)	0 (0.0)	2 (22.2)	6 (66.7)	0 (0.0)	
University	Comunitary	2 (10.0)	4 (20.0)	0 (0.0)	0 (0.0)	8 (40.0)	6 (30.0)	0 (0.0)	0.070*
	Private	8 (3.6)	30 (13.6)	11 (5.0)	1 (0.5)	70 (31.7)	98 (44.3)	3 (1.4)	
	Public	6 (2.2)	32 (11.5)	32 (11.5)	4 (1.4)	71 (25.4)	134 (48.0)	0 (0.0)	
	Publica & private	2 (2.8)	10 (13.9)	3 (4.2)	0 (0.0)	18 (25.0)	37 (51.4)	2 (2.8)	
	Total	18 (3.0)	76 (12.8)	46 (7.8)	5 (0.8)	167 (28.2)	275 (46.5)	5 (0.8)	592 (100.0)
			Sy	/nchronous/asynch	Synchronous/asynchronous technologies used for lessons#\$	s used for lessons#	\$		
Variables		University platform	Hosting services	Videoconference services	nce services	l didn	l didn't use	Others	
Continent	Nort America	2 (4.9)	12 (29.3)	26 (63.4)	(3.4)	1	(2.4)	0 (0.0)	<0.0001*
	Latin America	33 (30.8)	13 (12.1)	59 (55.1)	5.1))) ()	(0.0)	2 (1.9)	
	Brazil	85 (26.1)	5 (1.5)	236 (72.4)	72.4))) ()	(0.0)	0 (0.0)	
	Europe	2 (3.9)	2 (3.9)	46 (90.2)	0.2)	1	1 (2.0)	0 (0.0)	
	Asia/Oceania/ Middle East	0 (0.0)	1 (14.3)	6 (85.7)	5.7))) ()	(0.0)	0 (0.0)	
University	Comunitary	3 (23.1)	2 (15.4)	8 (61.5)	1.5))) ()	(0.0)	0 (0.0)	0.001*
	Private	65 (32.8)	7 (3.5)	125 (63.1)	33.1)	1 (((0.5)	0 (0.0)	
	Public	42 (16.5)	19 (7.5)	192 (75.3)	75.3)	1 (((0.4)	1 (0.4)	
	Publica & private	12 (18.2)	5 (7.6)	48 (72.7)	(2.7))) O	(0.0)	1 (1.5)	
	Total	122 (22.9)	33 (6.2)	373 (70.1)	70.1)	2 (((0.4)	2 (0.4)	532 (100.0)
				Technolo	Technologies for solving questions#\$	stions#\$			
Variables		Text messages Applications	Email	Discussion forums	Survey services	University platform	Videoconferece	I didn't answer questions	
Continent	Nort America	1 (1.6)	23 (37.7)	3 (4.9)	1 (1.6)	11 (18.0)	22 (36.1)	0 (0.0)	<0.0001*
	Latin America	39 (21.2)	49 (26.6)	12 (6.5)	8 (4.3)	34 (18.5)	42 (22.8)	0 (0.0)	
	Brazil	143 (27.0)	163 (30.8)	3 (0.6)	1 (0.2)	36 (6.8)	177 (33.5)	6 (1.1)	
	Europe	7 (7.5)	38 (40.9)	2 (2.2)	1 (1.1)	13 (14.0)	31 (33.3)	1 (1.1)	

Table 3. Digital devices and synchronous/asynchronous technologies used by professors for remote lectures.

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	Middle East		4 (28.6)	2 (14.3)	(1 · /) 1	۷ (۱4.3)	4 (28.6)	0) (0	0 (0.0)	
University	Comunitary	8 (34.8)	8 (34.8)	0 (0.0)	0 (0.0)	2 (8.7)	5 (21.7)	0)(0	0 (0.0)	0.274*
	Private	75 (23.5)	89 (27.9)	6 (1.9)	4 (1.3)	46 (14.4)	99 (31.0)	0))	0 (0.0)	
	Public	83 (19.9)	143 (34.2)	9 (2.2)	5 (1.2)	37 (8.9)	135 (32.3)	9 (1	6 (1.4)	
	Publica & private	25 (20.7)	37 (30.6)	7 (5.8)	3 (2.5)	11 (9.1)	37 (30.6)	1 ((1 (0.8)	
	Total	191 (21.7)	277 (31.4)	22 (2.5)	12 (1.4)	96 (10.9)	276 (31.3)	2 ((7 (0.8)	881 (100.0)
				Activ	Activity submission tools #\$	\$# S				
Variables		Text messages Applications	Email	Survey services	Cloud storage services	Online Quiz Services	University platform	Others	l didn't send activities	
Continent	North America	0 (0.0)	15 (33.3)	1 (2.2)	6 (13.3)	1 (2.2)	19 (42.2)	0 (0.0)	3 (6.7)	<0.0001*
	Latin America	0 (0.0)	38 (27.3)	9 (6.5)	24 (17.3)	19 (13.7)	47 (33.8)	1 (0.7)	1 (0.7)	
	Asia/Oceania/ Middle East	3 (0.7)	109 (26.7)	60 (14.7)	40 (9.8)	3 (0.7)	177 (43.3)	1 (0.2)	16 (3.9)	
	Brazil	0 (0.0)	28 (38.9)	5 (6.9)	4 (5.6)	3 (4.2)	29 (40.3)	0 (0.0)	3 (4.2)	
	Europe	0 (0.0)	6 (35.3)	3 (17.6)	2 (11.8)	3 (17.6)	3 (17.6)	0 (0.0)	0 (0.0)	
University	Comunitary	0 (0.0)	6 (35.3)	2 (11.8)	2 (11.8)	0 (0.0)	7 (41.2)	0 (0.0)	0 (0.0)	0.002*
	Private	0 (0.0)	60 (25.2)	28 (11.8)	24 (10.1)	10 (4.2)	114 (47.9)	1 (0.4)	1 (0.4)	
	Public	2 (0.6)	101 (31.0)	38 (11.7)	34 (10.4)	9 (2.8)	120 (36.8)	1 (0.3)	21 (6.4)	
	Publica & private	1 (1.0)	29 (28.7)	10 (9.9)	16 (15.8)	10 (9.9)	34 (33.7)	0 (0.0)	1 (1.0)	
	Total	3 (0.4)	196 (28.7)	78 (11.4)	76 (11.1)	29 (4.3)	275 (40.3)	2 (0.3)	23 (3.4)	682 (100.0)
				Assessmer	Assessment submission technologies #\$	ologies #\$				
Variables		Email	Survey services	Cloud storage services	University platform	Gt	Others	l didn't	l didn't assess	
Continent	North America	5 (14.3)	7 (20.0)	0 (0.0)	18 (51.4)	1 (2	1 (2.9)	4 (1	4 (11.4)	0.111*
	Latin America	14 (16.5)	14 (16.5)	5 (5.9)	47 (55.3))) ()))	0 (0.0)	2 (6	5 (5.9)	
	Asia/Oceania/ Middle East	3 (37.5)	2 (25.0)	0 (0.0)	3 (37.5)	i) ()	0 (0.0)	0) (0	0 (0.0)	
	Brazil	43 (13.3)	69 (21.3)	10 (3.1)	153 (47.2))) ()	0 (0.0)	49 (7	49 (15.1)	
	Europe	17 (28.3)	8 (13.3)	1 (1.7)	26 (43.3)	3 (1	3 (5.0)	2 (8	5 (8.3)	
University	Comunitary	2 (15.4)	3 (23.1)	1 (7.7)	7 (53.8))) ()	0 (0.0)	0)) (0	0 (0.0)	<0.0001*
	Private	18 (10.2)	34 (19.3)	5 (2.8)	112 (63.6))) ()	0 (0.0)	7) <u>7</u>	7 (4.0)	
	Public	47 (18.7)	46 (18.3)	7 (2.8)	95 (37.8)	.) 8	3 (1.2)	23 (2	53 (21.1)	
	Publica & private	15 (20.8)	17 (23.6)	3 (4.2)	33 (45.8)	1 (.	1 (1.4)	3 (2	3 (4.2)	
	Total	82 (16.0)	100 (19.5)	16 (3.1)	247 (48.2)	.) 8	8 (1.6)	63 (1	63 (12.3)	512 (100.0)

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Variables		Mobile device			Computer/			Tablet	p-value
					notebook				
Continent	North America	6 (42.9)			7 (50.0)			1 (7.1)	<0.0001*
	Latin America	40 (25.8)			88 (56.8)			27 (17.4)	
	Brazil	135 (36.6)			220 (59.6)			14 (3.8)	
	Europe	44 (24.3)			113 (62.4)			24 (13.3)	
	Total	225 (31.3)			428 (59.5)			66 (9.2)	719 (100.0)
				Technologies used for solving questions #\$	solving questions #\$	6			
Variables		Text message applications	Email	Discussion forums	Survey services	Videoconference	University platform	l didn't solve doubts with professors	p-value
Continent	North America	2 (11.8)	5 (29.4)	0 (0.0)	0 (0.0)	1 (5.9)	9 (52.9)	0 (0.0)	<0.0001*
	Latin America	46 (19.1)	49 (20.3)	15 (6.2)	9 (3.7)	23 (9.5)	98 (40.7)	1 (0.4)	
	Brazil	100 (23.4)	104 (24.4)	3 (0.7)	8 (1.9)	17 (4.0)	169 (39.6)	26 (6.1)	
	Europe	24 (9.4)	60 (23.5)	10 (3.9)	4 (1.6)	18 (7.1)	132 (51.8)	7 (2.7)	
University	Private	46 (22.7)	44 (21.7)	8 (3.9)	3 (1.5)	84 (40.4)	15 (6.9)	6 (3.0)	0.542*
	Public	126 (17.3)	174 (23.8)	20 (2.7)	18 (2.5)	324 (43.9)	44 (5.9)	28 (3.8)	
	Total	172 (18.3)	218 (23.2)	28 (3.0)	21 (2.2)	408 (43.4)	59 (6.3)	34 (3.6)	940 (100.0)
				Technologies for evaluation activities #\$	luation activities #\$				
Variables		Email	Survey services	Cloud storage services	Quiz services	University platform	I didn't do eval	l didn't do evaluation activities	p-value
Continent	North America	3 (23.1)	3 (23.1)	2 (15.4)	1 (7.7)	4 (30.8)) 0	0 (0.0)	<0.0001*
	Latin America	57 (31.0)	20 (10.9)	21 (11.4)	28 (15.2)	55 (29.9)	3 (2	3 (1.6)	
	Brazil	101 (28.5)	74 (20.9)	23 (6.5)	8 (2.3)	104 (29.4)	44 (44 (12.4)	
	Europe	60 (37.0)	21 (13.0)	17 (10.5)	6 (3.7)	35 (21.6)	23 (2	23 (14.2)	
University	Private	44 (25.3)	28 (15.5)	20 (11.5)	10 (5.2)	72 (41.4)	2 (2	2 (1.1)	<0.0001**
	Public	177 (33.1)	90 (16.7)	43 (7.9)	33 (6.0)	126 (23.5)	.) 89	68 (12.8)	
	Total	221 (31.0)	118 (16.5)	63 (8.8)	43 (6.0)	198 (27.8)	70	70 (9.8)	713 (100.0)

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** according to Chi-square test (comparisons were made vertically).
 # only participants who were taking distance learning.
 \$ participants could score more than one answer when using more than one technologie; thus, the total exceeds the number of participants.

				Professors					
					Technologies#\$				
		Email	Online Meetings	Survey services	Cloud storage services	Quizzing services	University platform	None	p-value
Sex	Female	39 (8.7)	154 (34.5)	70 (15.7)	52 (11.7)	21 (4.7)	103 (23.1)	7 (1.6)	0.109**
	Male	53 (14.1)	112 (29.9)	53 (14.1)	43 (11.5)	13 (3.5)	91 (24.3)	10 (2.7)	
Age	No answer	28 (23.3)	23 (19.2)	12 (10.0)	15 (12.5)	9 (7.5)	32 (26.7)	1 (0.8)	0.298*
	21-30	4 (10.5)	14 (36.8)	7 (18.4)	4 (10.5)	1 (2.6)	6 (15.8)	2 (5.3)	
	31-40	23 (9.3)	80 (32.5)	43 (17.5)	27 (11.0)	9 (3.7)	59 (24.0)	5 (2.0)	
	41-50	13 (5.5)	83 (35.3)	36 (15.3)	32 (13.6)	12 (5.1)	55 (23.4)	4 (1.7)	
	51-60	17 (12.1)	54 (38.6)	21 (15.0)	14 (10.0)	2 (1.4)	30 (21.4)	2 (1.4)	
	61-70	7 (19.4)	9 (25.0)	3 (8.3)	3 (8.3)	1 (2.8)	10 (27.8)	3 (8.3)	
	71-80	0 (0.0)	3 (50.0)	1 (16.7)	0 (0.0)	0 (0.0)	2 (33.3)	0 (0.0)	
Continent	North America	18 (28.1)	12 (18.8)	4 (6.3)	8 (12.5)	4 (6.3)	18 (28.1)	0 (0.0)	<0.0001
	Latin America	36 (18.8)	35 (18.3)	20 (10.5)	34 (17.8)	20 (10.5)	45 (23.6)	1 (0.5)	
	Brazil	2 (0.4)	188 (41.5)	92 (20.3)	51 (11.3)	3 (0.7)	103 (22.7)	14 (3.1)	
	Europe	31 (32.3)	28 (29.2)	4 (4.2)	2 (2.1)	4 (4.2)	25 (26.0)	2 (2.1)	
	Asia/Oceania/ Middle East	5 (29.4)	3 (17.6)	3 (17.6)	0 (0.0)	3 (17.6)	3 (17.6)	0 (0.0)	
University	Comunitary	0 (0.0)	7 (46.7)	4 (26.7)	2 (13.3)	0 (0.0)	2 (13.3)	0 (0.0)	0.270*
	Private	20 (7.7)	80 (30.9)	43 (16.6)	31 (12.0)	12 (4.6)	67 (25.9)	6 (2.3)	
	Public	51 (12.1)	142 (33.6)	62 (14.7)	43 (10.2)	14 (3.3)	100 (23.7)	10 (2.4)	
	Publica & private	21 (16.8)	37 (29.6)	14 (11.2)	19 (15.2)	8 (6.4)	25 (20.0)	1 (0.8)	
	Total	92 (11.2)	266 (32.4)	123 (15.0)	95 (11.6)	34 (4.1)	194 (23.6)	17 (2.1)	821 (100.0)
	Students								
Sex	Female	118 (16.3)	186 (25.7)	103 (14.2)	83 (11.5)	47 (6.5)	152 (21.1)	34 (4.7)	0.706*
	Male	47 (18.5)	69 (27.2)	34 (13.4)	35 (13.4)	11 (4.3)	47 (18.1)	13 (5.1)	
Age	No answer	8 (16.3)	15 (30.6)	9 (18.4)	3 (6.1)	2 (4.1)	11 (22.4)	1 (2.0)	0.400*
	21-30	27 (20.8)	28 (21.5)	18 (13.8)	10 (7.7)	8 (6.2)	28 (21.5)	11 (8.5)	
	31-40	117 (16.5)	183 (25.8)	96 (13.5)	95 (13.4)	43 (6.1)	143 (20.1)	33 (4.6)	
	41-50	11 (16.7)	22 (33.3)	10 (15.2)	6 (9.1)	2 (3.0)	14 (21.2)	1 (1.5)	
	51-60	1 (4.5)	6 (27.3)	4 (18.2)	4 (18.2)	3 (13.6)	3 (13.6)	1 (4.5)	
	61-70	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
Continent	North America	5 (22.7)	4 (18.2)	5 (22.7)	2 (9.1)	1 (4.5)	5 (22.7)	0 (0.0)	<0.0001
	Latin America	54 (20.9)	63 (24.4)	22 (8.5)	29 (11.2)	35 (13.6)	55 (21.3)	0 (0.0)	
	Brazil	28 (6.4)	124 (28.5)	90 (20.7)	45 (10.3)	12 (2.8)	97 (22.3)	39 (9.0)	
	Europe	78 (29.5)	64 (24.2)	20 (7.6)	42 (15.9)	10 (3.8)	42 (15.9)	8 (3.0)	
Jniversity	Private	24 (11.5)	52 (25.5)	30 (14.5)	17 (8.0)	14 (6.5)	54 (26.5)	15 (7.5)	0.016*
	Public	141 (18.2)	203 (26.4)	107 (13.7)	101 (13.0)	44 (5.6)	145 (18.8)	32 (4.2)	
	Total	165 (16.9)	255 (26.0)	137 (14.0)	118 (12.1)	58 (5.9)	199 (20.3)	47 (4.8)	979 (100.0)

Table 5. Online communication technologies that could be used when returning to face-to-face classes for professors and students.

Bold values mean different fromothers within the groups.

* according to Fisher's exact (comparisons were made vertically).

** according to Chi-square test (comparisons were made vertically).

only participants who were taking distance learning.

\$ participants could score more than one answer when using more than one technology; thus, the total exceeds the number of participants.

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Table 6. Difficulties and benefits related to distance lectures/activities for professors.
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		Internet access	Low student participation	Difficulty recording classes	Difficulty in synthesizing lessons' content	Lack of knowledge of video- conferencing technologies	Lack of interaction with students	Lack of motivation to prepare online lessons	Others&	l didn't have difficulties	p-value
Sex	Female	82 (17.7)	76 (16.5)	25 (5.4)	33 (7.1)	80 (17.3)	114 (24.7)	17 (3.7)	8 (1.6)	27 (5.8)	0.309**
	Male	52 (14.2)	68 (18.6)	19 (5.2)	31 (8.5)	46 (12.6)	95 (26.0)	19 (5.2)	7 (2.0)	28 (7.7)	
Age	No answer	21 (18.6)	21 (18.6)	8 (7.1)	8 (7.1)	11 (9.7)	29 (25.7)	7 (6.2)	2 (1.8)	6 (5.3)	0.011*
	21-30	7 (16.7)	12 (28.6)	2 (4.8)	1 (2.4)	3 (7.1)	14 (33.3)	2 (4.8)	1 (2.4)	0 (0.0)	
	31-40	42 (15.5)	52 (19.2)	12 (4.4)	26 (9.6)	34 (12.5)	73 (26.9)	16 (5.9)	4 (1.5)	12 (4.4)	
	41-50	36 (16.7)	34 (15.8)	9 (4.2)	17 (7.9)	35 (16.3)	53 (24.7)	8 (3.7)	5 (2.3)	18 (8.4)	
	51-60	22 (15.1)	23 (15.8)	7 (4.8)	9 (6.2)	32 (21.9)	36 (24.7)	2 (1.4)	3 (2.1)	12 (8.2)	
	61-70	5 (15.2)	2 (6.1)	5 (15.2)	3 (9.1)	8 (24.2)	3 (9.1)	1 (3.0)	0.0) 0	6 (18.2)	
	71-80	1 (14.3)	0 (0.0)	1 (14.3)	0 (0.0)	3 (42.9)	1 (14.3)	0 (0.0)	0.0) 0	1 (14.3)	
Continent	North America	8 (13.6)	10 (16.9)	6 (10.2)	2 (3.4)	7 (11.9)	19 (32.2)	4 (6.8)	0 (0.0)	3 (5.1)	0.007*
	Latin America	36 (23.4)	22 (14.3)	7 (4.5)	20 (13.0)	20 (13.0)	35 (22.7)	4 (2.6)	5 (3.1)	5 (3.2)	
	Asia/ Oceania/ Middle East	4 (28.6)	3 (21.4)	0 (0.0)	1 (7.1)	0 (0.0)	4 (28.6)	1 (7.1)	0 (0.0)	1 (7.1)	
	Brazil	77 (14.7)	98 (18.7)	28 (5.3)	39 (7.4)	88 (16.8)	129 (24.6)	26 (5.0)	7 (1.4)	32 (6.1)	
	Europe	9 (11.8)	11 (14.5)	3 (3.9)	2 (2.6)	11 (14.5)	22 (28.9)	1 (1.3)	3 (3.9)	14 (18.4)	
University	Comunitary	2 (10.5)	4 (21.1)	1 (5.3)	2 (10.5)	4 (21.1)	4 (21.1)	1 (5.3)	0.0) 0	1 (5.3)	0.698*
	Private	50 (17.2)	56 (19.2)	18 (6.2)	19 (6.5)	31 (10.7)	75 (25.8)	13 (4.5)	7 (2.3)	22 (7.6)	
	Public	59 (14.5)	63 (15.5)	21 (5.2)	35 (8.6)	76 (18.7)	101 (24.9)	18 (4.4)	6 (1.2)	27 (6.7)	
	Public / private	23 (20.7)	21 (18.9)	4 (3.6)	8 (7.2)	15 (13.5)	29 (26.1)	4 (3.6)	2 (1.8)	5 (4.5)	
	Total	134 (16.2)	144 (17.4)	44 (5.3)	64 (7.7)	126 (15.2)	209 (25.3)	36 (4.4)	15 (1.8)	55 (6.7)	827 (100.0)

Activities Provide Interval beam Provide activity beam Provide activity bea Provide activity bea Provide										Deschilitur	Cafaty				
Female 148 (15.6) 80 (39) 93 (9.3) 12 (1.3) 78 (4.2) 136 (4.2) 136 (12.1) 176 (17.9) 156 (1.6) 102 (10.7) Male 100 (14.42) 11 (1.6) 56 (7.9) 19 (2.7) 59 (8.4) 106 (15.0) 106 (15.5) 21 (3.0) 155 (1.6) 152 (10.6) 3 No answer 30 (1.4.7) 31 (1.5) 17 (8.3) 31 (15.2) 31 (15.2) 16 (12.0) 14 (1.7) 21 (10.9) 10 3 33 3 3 3 10 (10.9) 11 (1.1) 12 (13.0) 4 (1.3) 3 (10.9) 10 10 3 10 (10.9) 10 (10.9) 10 (10.9) 10 3 10 (10.9) <th></th> <th></th> <th>Access to digital innovation</th> <th>There are no benefits</th> <th>Add knowledge</th> <th>Provide better lessons' content</th> <th>Better learning</th> <th>Do not lose course content</th> <th>Save transpor- tation expenses</th> <th>of being at home</th> <th>in the isolation period</th> <th>l feel more comfortable</th> <th>Activities - students are not idle</th> <th>0thers&&</th> <th></th>			Access to digital innovation	There are no benefits	Add knowledge	Provide better lessons' content	Better learning	Do not lose course content	Save transpor- tation expenses	of being at home	in the isolation period	l feel more comfortable	Activities - students are not idle	0thers&&	
Male 100 (14.2) 11 (1.6) 56 (7.9) 19 (2.7) 59 (8.4) 106 (15.0) 60 (8.5) 88 (12.5) 10 (61.9) 71 (5.0) 75 (10.6) 75 21-30 10 (10.9) 1 (1.1) 12 (13.0) 3 (1.5) 17 (8.5) 7 (7.6) 10 (10.9) 12 (1.0) 22 (10.9) 10 21-30 10 (10.9) 1 (1.1) 12 (13.0) 3 (1.5) 3 (1.5) 3 (1.5) 3 (1.5) 3 (1.6) 2 (10.9) 10 10 10 10 10 10 10 11 12 (13.0) 3 (1.5) 3 (1.5) 3 (1.5) 3 (1.6)	ex	Female	148 (15.6)	8 (0.8)	93 (9.8)	12 (1.3)	78 (8.2)	136 (14.3)	68 (7.2)	115 (12.1)	170 (17.9)	15 (1.6)	102 (10.7)	6 (0.6)	0.101**
		Male	100 (14.2)	11 (1.6)	56 (7.9)	19 (2.7)	59 (8.4)	106 (15.0)	60 (8.5)	88 (12.5)	108 (15.3)	21 (3.0)	75 (10.6)	3 (0.4)	
21-30 10 (10.9) 1 (1.1) 12 (13.0) 3 (3.3) 6 (6.5) 17 (18.5) 7 (7.6) 10 (10.9) 12 (13.0) 4 (4.3) 10 (10.9) 2 (1.3) 3 (10.0) 2 (1.3) 3 (1.6) 3 (1.1) 12 (13.0) 3 (1.8) 8 (1.5) 3 (1.6) 6 (1.2, 4) 90 (16.9) 8 (1.5) 5 (1.0) 2 (1.3) 3 (1.6) 5 (1.7) 8 (1.5) 5 (1.7) 8 (1.5) 5 (1.6) 1 (1.4) 2 (1.6) 8 (1.1) 0 (0.0) 2 (1.4) 2 (1.4) 2 (1.6) 2 (1		No answer	30 (14.7)	3 (1.5)	17 (8.3)	3 (1.5)	18 (8.8)	27 (13.2)	17 (8.3)	31 (15.2)	31 (15.2)	4 (2.0)	22 (10.8)	1 (0.5)	0.437*
31-40 76 (14.3) 3 (05) 54 (10.2) 8 (1.5) 47 (8.9) 80 (15.1) 33 (1.5) 57 (12.6) 8 (1.7) 9 (15.1) 53 (10.0) </td <td></td> <td>21-30</td> <td>10 (10.9)</td> <td>1 (1.1)</td> <td>12 (13.0)</td> <td></td> <td>6 (6.5)</td> <td>17 (18.5)</td> <td>7 (7.6)</td> <td>10 (10.9)</td> <td>12 (13.0)</td> <td>4 (4.3)</td> <td>10 (10.9)</td> <td>0 (0.0)</td> <td></td>		21-30	10 (10.9)	1 (1.1)	12 (13.0)		6 (6.5)	17 (18.5)	7 (7.6)	10 (10.9)	12 (13.0)	4 (4.3)	10 (10.9)	0 (0.0)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		31-40	76 (14.3)	3 (0.6)	54 (10.2)	8 (1.5)	47 (8.9)	80 (15.1)	43 (8.1)	66 (12.4)	90 (16.9)	8 (1.5)	53 (10.0)	3 (0.6)	
51-60 45 (15,4) 4 (1.4) 28 (9.6) 8 (2.7) 20 (6.8) 4 (1.4) 5 (7.2) 3 (10.6) 5 (7.7) 8 (2.7) 3 (10.9) 1 61-70 12 (7.4) 6 (8.7) 6 (8.7) 1 (1.4) 5 (7.2) 9 (13.0) 4 (5.8) 5 (7.2) 1 (16.7) 1 (6.7) 1 (6.7) 0 (0.0) 0 <td></td> <td>41-50</td> <td>73 (16.1)</td> <td>2 (0.4)</td> <td>31 (6.8)</td> <td></td> <td>39 (8.6)</td> <td>64 (14.1)</td> <td>33 (7.3)</td> <td>57 (12.6)</td> <td>81 (17.9)</td> <td>9 (2.0)</td> <td>52 (11.5)</td> <td></td> <td></td>		41-50	73 (16.1)	2 (0.4)	31 (6.8)		39 (8.6)	64 (14.1)	33 (7.3)	57 (12.6)	81 (17.9)	9 (2.0)	52 (11.5)		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		51-60	45 (15.4)	4 (1.4)	28 (9.6)		20 (6.8)	42 (14.3)	22 (7.5)	31 (10.6)	52 (17.7)	8 (2.7)	32 (10.9)	1 (0.3)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		61-70	12 (17.4)	6 (8.7)	6 (8.7)	1 (1.4)	5 (7.2)	9 (13.0)	4 (5.8)	5 (7.2)	11 (15.9)	2 (2.9)	8 (11.6)	0 (0.0)	
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ontinent	North America	11 (10.7)	3 (2.9)	10 (9.7)			15 (14.6)	14 (13.6)	17 (16.5)	13 (12.6)	2 (1.9)	7 (6.8)	0 (0.0)	<0.0001*
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113 (15.0) 12 (1.6) 70 (9.3) 15 (2.0) 61 (8.1) 99 (13.1) 50 (6.6) 94 (12.5) 129 (17.1) 19 (2.5) 84 (11.1) 28 (14.5) 4 (2.1) 14 (7.3) 2 (1.0) 13 (6.7) 35 (18.1) 21 (10.9) 25 (13.0) 31 (16.1) 1 (0.5) 19 (9.8) 248 (15.0) 19 (1.1) 149 (9.0) 31 (1.9) 137 (8.3) 242 (14.6) 128 (7.7) 203 (12.3) 278 (16.8) 36 (2.2) 177 (10.7)		Private	102 (15.4)	3 (0.5)	60 (9.0)	12 (1.8)	60 (9.0)	101 (15.2)	53 (8.0)	78 (11.7)	111 (16.7)	14 (2.1)	70 (10.5)	0.0) 0	
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248 (15.0) 19 (1.1) 149 (9.0) 31 (1.9) 137 (8.3) 242 (14.6) 128 (7.7) 203 (12.3) 278 (16.8) 36 (2.2) 177 (10.7) 9		Public / private	28 (14.5)	4 (2.1)	14 (7.3)	2 (1.0)	13 (6.7)	35 (18.1)	21 (10.9)	25 (13.0)	31 (16.1)	1 (0.5)	19 (9.8)		
		Total	248 (15.0)	19 (1.1)	149 (9.0)	31 (1.9)	137 (8.3)	242 (14.6)	128 (7.7)	203 (12.3)	278 (16.8)	36 (2.2)	177 (10.7)	9 (0.5)	1657 (100.0)

Table 7. Difficulties and benefits concerning to distance lessons/activities for students.

<0.0001* 1148 (100.0) 0.416* 0.204* p-value 0.643* Resolution of lessons' questions 38 (4.4) 20 (7.3) 26 (4.1) 18 (6.1) 47 (4.1) 34 (4.1) 29 (3.5) 3 (5.0) 1 (1.5) 0 (0.0) 1 (0.5) 9 (3.3) 9 (5.1) 0 (0.0) 0 (0.0) 40 (3.5) l didn't have difficulties 14 (6.5) 13 (4.8) 25 (3.0) 2 (15.4) 21 (3.3) 33 (3.9) 27 (3.1) 3 (5.0) 5 (2.8) 5 (7.5) 0 (0.0) 1 (4.8) 4 (1.5) 7 (2.4) adequate equipment Not having 13 (1.1) 10 (1.2) 5 (1.8) 0.0) 0 1 (1.5) 0 (0.0) 3 (1.4) 4 (1.3) 9 (1.1) 8 (0.9) 2 (1.1) 0 (0.0) 0 (0.0) 4 (1.5) 6 (0.9) 187 (22.0) 263 (22.9) 16 (26.7) 58 (21.2) 76 (25.3) 203 (23.3) 86 (22.5) 11 (16.4) 176 (27.6) 25 (11.5) 60 (22.0) 46 (25.8) 4 (30.8) 4 (19.0) 0.0) 0 l can't focus I was unable to install the video conferencing software 12 (1.0) 0 (0.0) 7 (1.1) 2 (0.9) 3 (1.0) 9 (1.1) 8 (0.9) 4 (1.5) 2 (3.3) 1 (0.6) 9 (1.1) 0 (0.0) 0 (0.0) 1 (4.8) 2 (0.7) Difficulties#\$ Lack of motivation about online lessons 181 (21.4) 249 (21.7) 56 (20.5) 12 (20.0) 181 (21.9) 146 (22.9) 45 (20.7) 193 (22.1) 43 (24.2) 12 (17.9) 53 (19.4) 68 (22.9) 5 (23.8) 1 (7.7) 0 (0.0) 9 (10.7) 33 (12.1) 112 (9.8) interaction students professors 64 (10.0) 11 (5.1) 27 (8.8) 27 (9.9) 7 (11.7) 77 (9.3) 9 (13.4) 85 (9.9) Lack of 85 (9.6) 4 (19.0) 0 (0.0) 0.0) 0 with and Lack of knowledge of video-conferencing technologies 45 (5.2) 16 (5.9) 44 (5.3) 1 (50.0) 15 (5.5) 28 (4.4) 17 (7.8) 10 (3.0) 51 (6.1) (5.3)3 (5.0) 6 (3.4) 6 (9.0) 1 (7.7) 1 (4.8) 61 204 (24.0) 81 (37.3) 217 (24.8) 13 (21.7) 37 (20.8) 205 (24.8) 118 (18.5) 73 (24.2) 277 (24.1) 16 (23.9) 74 (27.1) 60 (21.6) 5 (38.5) 1 (50.0) 4 (19.0) Internet access 45 (7.1) 50 (5.7) 10 (5.6) 10 (3.7) 18 (8.3) 15 (5.1) 59 (7.0) 74 (6.4) Lack of content 24 (8.8) 1 (1.7) 57 (6.9) 6 (9.0) 0.0) 0 0 (0.0) 1 (4.8) Vo answer America America Female 21-30 41-50 11-20 31-40 51-60 Europe Private North Brazil [>]ublic -atin Male Total Variables University Continent Age Sex

ODOVTOS-International Journal of Dental Sciences

							Benetits #\$							
		Access to digital innovation	Access to digital innovation	Add knowledge	l can pay more attention	Dynamic way of learning	Do not lose course content	Save transpor- tation expenses	Activities - not idle and anxious	Possibility of being at home	Safety in the isolation period	l feel more comfortable	Others&	
Sex	Female	119 (9.3)	22 (1.7)	76 (5.9)	30 (2.3)	60 (4.7)	187 (14.5)	190 (14.8)	73 (5.7)	223 (17.4)	238 (18.5)	58 (4.5)	8 (0.8)	0.934**
	Male	46 (10.1)	9 (2.0)	28 (6.3)	9 (1.8)	26 (5.8)	63 (13.9)	69 (15.5)	24 (5.4)	73 (16.4)	75 (16.8)	28 (6.1)	0 (0.0)	
Age	No answer	10 (12.2)	0 (0.0)	2 (2.4)	2 (2.4)	5 (6.1)	10 (12.2)	14 (17.1)	7 (8.5)	15 (18.3)	14 (17.1)	3 (3.7)	0 (0.0)	0.318*
	11-20	16 (7.8)	10 (4.9)	9 (4.4)	4 (1.9)	7 (3.4)	36 (17.5)	28 (13.6)	10 (4.9)	34 (16.5)	45 (21.8)	6 (2.9)	1 (0.5)	
	21-30	121 (9.6)	21 (1.7)	81 (6.4)	30 (2.4)	63 (5.0)	181 (14.3)	188 (14.8)	71 (5.6)	215 (17.0)	224 (17.7)	66 (5.2)	5 (0.5)	
	31-40	14 (9.5)	0 (0.0)	11 (7.5)	1 (0.7)	9 (6.1)	18 (12.2)	24 (16.3)	7 (4.8)	26 (17.7)	27 (18.4)	9 (6.1)	1 (0.7)	
	41-50	3 (10.0)	0 (0.0)	1 (3.3)	2 (6.7)	2 (6.7)	4 (13.3)	4 (13.3)	2 (6.7)	6 (20.0)	3 (10.0)	2 (6.7)	1 (3.3)	
	51-60	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	0.0) 0	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
Continent	North America	3 (9.1)	0 (0.0)	1 (3.0)	1 (3.0)	3 (9.1)	4 (12.1)	6 (18.2)	1 (3.0)	7 (21.2)	5 (15.2)	2 (6.1)	0 (0.0)	<0.0001*
	Latin America	47 (11.8)	5 (1.3)	31 (7.8)	0 (0.0)	19 (4.8)	56 (14.1)	64 (16.1)	6 (1.5)	72 (18.1)	77 (19.4)	17 (4.3)	3 (0.8)	
	Brazil	73 (8.7)	21 (2.5)	57 (6.8)	16 (1.9)	42 (5.0)	120 (14.3)	101 (12.0)	79 (9.4)	123 (14.6)	183 (21.7)	24 (2.9)	3 (0.3)	
	Europe	42 (9.1)	5 (1.1)	15 (3.2)	22 (4.8)	22 (4.8)	70 (15.2)	88 (19.0)	11 (2.4)	94 (20.3)	48 (10.4)	43 (9.3)	2 (0.4)	
University	Private	44 (11.3)	14 (3.7)	19 (5.0)	8 (2.1)	17 (4.2)	61 (15.7)	51 (13.1)	12 (3.1)	63 (16.3)	81 (21.0)	15 (3.9)	2 (0.6)	0.012**
	Public	121 (9.0)	17 (1.3)	85 (6.4)	31 (2.3)	69 (5.1)	189 (14.0)	208 (15.5)	85 (6.3)	233 (17.3)	232 (17.3)	71 (5.3)	6 (0.6)	
	Total	165 (9.5)	31 (1.8)	104 (6.0)	39 (2.2)	86 (5.0)	250 (14.4)	259 (14.9)	97 (5.6)	296 (17.1)	313 (18.1)	86 (5.0)	8 (0.6)	1734 (100.0)
Bold values * accordin ** accordin # only parti \$ participau & Were cite	Bold values mean different fromothers within the groups. * according to Fisher's exact (comparisons were made vertically). # only participants who were taking distance learning. \$ participants could score more than one answer; thus, the total exceeds the number of participants. & Were cited: Absence of distraction due to students' behavior in class, possibility of accessing lectures from other universities, possibility of reviewing classes.	int fromother xact (compai re test (comj vere taking c e more than f distraction	s within the risons were I parisons wer jistance lear one answer due to stude	groups. made vertical e made vertic ning. ; thus, the tot nts' behavior	rtically). vertically). he total exceeds t avior in class, po	the number ssibility of a	of participan	ls. tures from ot	her universi	ties, possibil	ity of reviewi	ng classes.		

DISCUSSION

The Covid-19 outbreak increased distance learning worldwide, as an alternative to face-toface education, due to distance and social isolation measures (2). Thus, this study aimed to verify the experience of professors and students of dental schools from some countries using distance learning technologies.

The results show that all the factors studied influenced the use and experience with the tools. Motivation of teaching of female professors was more affected by social isolation. Simultaneously, the opposite occurred with students, with men being the most affected, although female were more concerned with the academic future. Studies suggest that biological differences between the sexes (e.g., due to differences between sex chromosomes, sex hormones, and brain lateralization) make female more sensitive to personal and other people's concerns. At the same time, men are guided by trends of control, aiming at assertiveness, self-confidence, and dominance, thus focusing on themselves (15). In this sense, it can be inferred that given these biological differences and the pandemic situation, female professors' motivation was more affected than male professors. These professors' need to adapt to digital resources and transmit knowledge through distance learning may cause more significant concern. Personal issues, including family safety, child members confined at home, economic difficulties, may exacerbate this lack of motivation. These differences may also justify female students' more significant concern for the academic future. It is crucial to address the possible role of domestic work, usually femaleexclusive in some cultures, influencing the present results. Female professors and students at home should pay attention to their remote learning duties and assume domestic work. This overload of responsibilities could affect their motivation more than male professors and students. On the other hand, for male students, this new teaching modality can be understood as a lack of control due to uncertainties regarding the new dental education path, affecting the learning process.

Among younger students, concern about the educational future may reflect academic immaturity (2). These students are usually at the beginning of the undergraduate course, making them more susceptible to face-to-face teaching disruption. Furthermore, the learning change from passive professor-centered learning to a more active posture focused on self-learning and self-discipline (7,10,16). This fact can be justified by the greater anxiety/stress of these students with the adaptation to distance learning, especially among students aged up to 21 years. These students are also studying more with distance learning and less alone, indicating the need for the professor's figure to guide their studies. According to these results, it was found that undergraduate students also had higher levels of anxiety/stress associated with remote lectures. Thus, it can be considered that postgraduate students already have greater maturity and academic autonomy. These findings may be since face-toface learning has been the primary teaching method for undergraduate students (17,18), while for postgraduate teaching experiences, hybrid teaching methods have already been applied in educational institutions worldwide (4).

Students from all countries/continents used mainly computer/laptop for accessing distance lessons. Although mobile devices also provide access to the internet and, thus, to lessons' content, it can be suggested that mobility was not a requirement among students because they are confined at home. Besides, mobile devices could be perceived for leisure activities, such as access to social networks (19), not academic activities. A larger screen monitor may improve viewing the lectures' content, helping them solve the educational activities.

Concerning the type of institution, it was found that 29.5% of public universities were not getting online lessons. With that, part of their students answered that they were studying alone or not studying at all. In contrast, students at private universities considered they were studying more with remote lectures. Confirming these findings, private university professors also indicated sending more academic activities to students than public university professors. Thus, the higher economic resources to acquire digital communication technologies and platforms could explain the private institutions' higher adaptation to distance learning. Moreover, their student population comes from higher-income families with the proper equipment and internet access. In contrast, even if public universities have digital communication technologies and platforms, adaptation is more complicated if the student population cannot access the information.

Furthermore, it was found that professors from private universities preferred university communication platforms for transmitting lectures. As there was little time for adapting to distance learning, these institutions probably chose institutional platforms for usage standardization among professors and students (20). This choice avoids the migration between technologies and maximizes the institution's resources, either to pay for the use of these services and to hire personnel for professors' and students' training. This fact can be seen in the present study since private institutions provided more training for these technologies than other institutions.

Although the internet and technology are present in people's lives, distance learning was not yet a routine in dental professors' and students' academic lives. Therefore, training is an essential aspect of using communication technologies focused exclusively on distance learning and facilitating adaptation with this teaching modality (2,7,9). In this sense, as students may be even less adapted to using these technologies than professors, it was found that students from North America and Europe received more comprehensive support using them. In contrast, digital resources in distance learning could be more limited before the pandemic among developing countries. For this, in Latin American countries, the emphasis was placed on this training to better use digital resources.

It appears that among the available technologies to transmit the online lectures and for answering questions, the best option among professors in Europe was synchronous video services. These services have the advantage of better interaction with students since classes occur in real-time (10), similar to face-to-face teaching. Confirming these findings, this was the most used option for answering questions among students in Europe.

Students in Brazil preferred text messages applications for answering questions, opposite to professors and students from countries in North America and Europe. Applications examples include Whatsapp[®], which allows checking whether users are online and whether messages have been read. In addition to creating groups and sharing content (text messages, audio, video, and image files) and allowing small groups "online meetings" (21). There are some examples in the literature about its use in the health field (21-23). However, despite the ease of communication about email, it should be considered that faculty members can feel comfortable because they have to share their cell phone numbers and be consulted at any time by students (21). Countries in Europe and North America culturally use these applications less, while in some countries, such as Brazil, this is the main communication application used today. Thus, the results demonstrate that personal habits about using technology have been transferred to professional matters.

The application of innovative and interactive pedagogical approaches to assessment, such as survey systems, has been verified as an option by students in Latin America. The survey system provides a dynamic form of evaluation due to the competitive nature it adds to the evaluation process, increasing students' interest and involvement (24). Because it was the most used during confinement, the use of this technology was the most recommended by Latin American students when returning to face-to-face activities. On the other hand, this tool was the least used among students in Brazil, so the option least indicated by professors and students to be used when returning from face-to-face lessons, suggesting a lack of habit or knowledge of the functionalities of this digital resource.

Still, about the tools to be used when the face-to-face lectures return, it was observed that online meetings were pointed out more frequently by both professors and students. This data is relevant, as this type of meeting allows the integration of several professionals and students, whether to teach a class, resolve administrative matters, participate in admissions and assessment processes, with fewer time and costs.

Among the limitations of distance learning, we can see that a generations' challenge was a reality in this research since older age professors (61 to 80 years old) had difficulties recording the lectures and using video conferencing tools. It is known that young people use digital technology efficiently (2), as new generations grew up with the emergence and evolution of the internet, while previous generations had to adapt to these technologies gradually. However, it should be noted that learning this is possible, as some older professors (61 to 70 years) also indicated that they had no difficulty with remote lectures.

While difficulty accessing the internet was indicated mainly in developing countries (9), problems with the internet connection was also a limitation indicated by students from Europe. A possible explanation could be many families that started using the residential links for work purposes instead of the corporate links used before this pandemic. Thus, equity in access to distance learning is a factor to be considered independently from the country's economic development.

It should be noted that, although professors and students in Brazil indicated that distance learning was meaningful for students not to be idle, an issue shown by students was the difficulty of concentration. The is a crucial point to be observed in this type or learning, as it is necessary to have a peaceful environment and family support so that students can watch the content of the lectures. This environment influences even the execution of extra-class activities, which can be more difficult, with several family members being confined at home.

It is observed that a limitation of the present study was in relation to the differences in the number of participants among the countries, despite the efforts of researchers to further disseminate the questionnaire. This fact is a reflection of surveys with questionnaires that depend on the willingness/ availability of participants to answer the questions. Moreover, not all universities make available the email addresses of professors/students on their websites, in addition to the vacation/recess period some colleges when conducting this research. wever, care was taken to ensure that the statistical analyzes minimized the differences in sample sizes in the countries/continents.

Despite all the difficulties imposed by the pandemic in the teaching-learning process, it was an opportunity to learn about new technologies in education, which can be applied more efficiently in new contagion waves or pandemics (8). It is also sential to consider that distance learning, as complement to face-to-face teaching, came to stay with us, requiring adequate knowledge on the part of teachers and students so that it is possible to apply the benefits of the available tools fully.

CONCLUSION

It was shown that professors and students struggled with digital technologies to promote distance learning during the isolation caused by the COVID-19 pandemic. Gender, age, countries/ continent, and type of university influenced the technologies used, feelings, and experiences around this adaptation process. Finally, some of the preferred distance learning technologies could be applied when returning to face-to-face activities, especially among professors and students from Latin America and Brazil.

CONFLICTS OF INTEREST

None.



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CHARACTERIZATION OF THE PROFESSORS AND STUDENTS

V	ariables		Р	rofessors			
			C	Continent			
Sex	Age	North America	Latin America	Brazil	Europe	Asia/Oceania/ Middle East	Total
	No answer	11 (36.7)	2 (3.2)	15 (4.5)	2 (4.0)	1 (16.7)	31 (6.5)
	21-30	1 (3.3)	0 (0.0)	10 (3.0)	2 (4.0)	0 (0.0)	13 (2.7)
	31-40	1 (3.3)	18 (28.6)	69 (20.9)	2 (4.0)	0 (0.0)	90 (18.8)
Female	41-50	0 (0.0)	12 (19.0)	79 (23.9)	2 (4.0)	0 (0.0)	93 (19.4)
remate	51-60	0 (0.0)	4 (6.3)	29 (8.8)	3 (6.0)	0 (0.0)	36 (7.5)
	61-70	0 (0.0)	1 (1.6)	7 (2.1)	1 (2.0)	0 (0.0)	9 (1.9)
	71-80	0 (0.0)	0 (0.0)	1 (0.3)	0 (0.0)	0 (0.0)	1 (0.2)
	Total	13 (43.3)	37 (58.7)	210 (63.6)	12 (24.0)	1 (16.7)	273 (57.0)
	No answer	11 (36.7)	5 (7.9)	7 (2.1)	0 (0.0)	5 (83.3)	28 (5.8)
	21-30	0 (0.0)	1 (1.6)	8 (2.4)	1 (2.0)	0 (0.0)	10 (2.1)
	31-40	3 (10.0)	7 (11.1)	28 (8.5)	10 (20.0)	0 (0.0)	48 (10.0)
Male	41-50	2 (6.7)	6 (9.5)	30 (9.1)	8 (16.0)	0 (0.0)	46 (9.6)
	51-60	1 (3.3)	7 (11.1)	32 (9.7)	10 (20.0)	0 (0.0)	50 (10.4)
	61-70	0 (0.0)	0 (0.0)	13 (3.9)	8 (16.0)	0 (0.0)	21 (4.4)
	71-80	0 (0.0)	0 (0.0)	2 (0.6)	1 (2.0)	0 (0.0)	3 (0.6)
	Total	17 (56.7)	26 (41.3)	120 (36.4)	38 (76.0)	5 (83.3)	206 (43.0)
Total		30 (100.0)	63 (100.0)	330 (100.0)	50 (100.0)	6 (100.0)	479 (100.0)
			,	Students			
	No answer	2 (22.2)	3 (2.8)	6 (2.2)	4 (3.2)	-	14 (2.7)
	Up to 20	0 (0.0)	12 (11.3)	28 (10.1)	8 (6.4)	-	48 (9.3)
	21-30	1 (11.1)	64 (60.4)	154 (55.8)	61 (48.8)	-	280 (54.3)
Female	31-40	2 (22.2)	8 (7.5)	12 (4.3)	3 (2.4)	-	25 (4.8)
	41-50	1 (11.1)	2 (1.9)	3 (1.1)	2 (1.6)	-	8 (1.6)
	51-60	0 (0.0)	0 (0.0)	1 (0.4)	0 (0.0)	-	1 (0.2)
	Total	6 (66.7)	89 (84.0)	204 (73.6)	78 (62.4)	-	377 (73.0)
	No answer	1 (11.1)	0 (0.0)	5 (1.8)	4 (3.2)	-	10 (1.9)
	Up to 20	0 (0.0)	0 (0.0)	12 (4.3)	2 (1.6)	-	14 (2.7)
Male	21-30	1 (11.1)	16 (15.1)	47 (17.0)	36 (28.8)	-	99 (19.2)
	31-40	1 (11.1)	1 (0.9)	6 (2.2)	3 (2.4)	-	11 (2.1)
	41-50	0 (0.0)	0 (0.0)	1 (0.4)	1 (0.8)	-	2 (0.4)
	51-60	0 (0.0)	0 (0.0)	1 (0.4)	1 (0.8)	-	2 (0.4)
	Total	3 (33.3)	17 (16.0)	72 (26.1)	47 (36.8)	-	139 (27.0)
Total		9 (100.0)	106 (100.0)	276 (100.0)	125 (100.0)	-	516 (100.0)

Bold values mean different fromothers within the groups.

SUPPLEMENTARY MATERIAL 2 THE QUESTIONNAIRE USED IN THE PRESENT

Questions COMMON QUESTIC	ONS TO ALL PARTICIPANTS Answer options	COMMON QU Professors	ESTIONS TO Students
How has social isolation impacted your ability and	Linear scale:	X	X
motivation in the teaching/learning process?	0 1 2 3 4 5 6 7 8 9 10	л	
What is your level of concern for your academic future (Not being able to learn all the content for training)?	Linear scale: 0 1 2 3 4 5 6 7 8 9 10		х
Have you studied the subjects of the undergraduate/postgraduate course in the isolation period?	 () Yes, I am taking distance lessons () Yes, I am studying alone () No 		Х
Regarding academic activities, check the best alternative that fits for you:	() Others () Face-to-face activities have been suspended, but we are HAVING some distance activities	Х	Х
	 () Face-to-face activities have been suspended and we are NOT having remote activities () Face-to-face activities have not been suspended 		
	S THAT HAD DISTANCE LESSONS/ACTIVITIES		
Anxiety/stress about distance lessons/activities (How I feel about distance classes?):	Linear scale: 0 1 2 3 4 5 6 7 8 9 10	Х	Х
What is your level of concern with content from distance lessons (not being able to teach all the content for student training)	Linear scale: 0 1 2 3 4 5 6 7 8 9 10	Х	
Regarding the teaching/learning process in distance lessons, (what is your understanding of the lesson content?):	Linear scale: 0 1 2 3 4 5 6 7 8 9 10		Х
Did you receive any training/support from the faculty with the distance lessons/activities?	() Yes () No () Others	Х	Х
Which digital device did you use or are using to record the lessons/activities from a distance?*	 () Mobile device camera () Computer/notebook's Webcam () Photography camera () Tablet camera () Specific equipment for videoconferencing () I did not record classes () Others 	X	
Which digital device did you use or are using to access distance lessons?*	() Mobile device () Computer/notebook () Tablet () Other		Х
Which synchronous/asynchronous communication technologies have you used or are using to teach during distance lessons?*	 () Services for synchronous videoconferences (e.g., Zoom, Google Meet, Microsoft Teams, Skype) () Services for synchronous real-time presentations (e.g., Youtube Live, Twitch, Collaborate Ultra, Instagram Live) () Synchronous video calling applications (e.g., Whatsapp video, Facebook Messenger, Google Duo, Facetime) () Video hosting services (e.g., Youtube, Panoptp, Vimeo) () I didn't use () Others 	X	
What digital communication technologies have you used to solve questions about the content of the lessons?*	 () Guiets () Email () Synchronous video services (e.g., Zoom, Google Meet, Microsoft Teams, Skype, Instagram Live) () Text messaging apps (e.g., WhatsApp, SMS, Facebook Messenger) () Discussion forums () Integrated university education management system (e.g., Blackboard, Google Classroom, Canvas, Moodle) () I did not answer questions for students. () Others 	X	Х
What digital communication technologies have you used or are using to send/carry out activities?*	 () Email () Text messaging apps (e.g., WhatsApp, SMS, Facebook Messenger) () Survey administration services (e.g., Google Forms, Microsoft Forms, SurveyMonkey) 	Х	Х
	 () Cloud data storage services (e.g., Google Drive, Dropbox, Microsoft Onedrive) () Integrated university education management system (e.g., Blackboard, Google Classroom, Canvas, Moodle) () Interactive online quiz services (e.g., Kahoot !, Mentimeter, Socrative) () I did not send/perform activities () Others 	X	Х

Continues

Continuation

Continuation			
What digital communication tools have you used or are using to send/conduct an assessment?*	 () Email () Survey administration services (e.g., Google Forms, Microsoft Forms, Surveymonkey) () Cloud data storage services (e.g., Google Drive, Dropbox, Microsoft Onedrive) () Integrated university education management system (ex: Blackboard, Google Classroom, Canvas, Moodle) () Interactive online polling services (e.g., Kahoot!, Mentimeter, Socrative) () I did not send/carry out evaluation activities () Others 	X	X
What difficulties did you have or are having during distance lessons?*	Answer options common to professors and students () Difficulty in accessing the internet () Slow or unstable Internet () Not having a computer / notebook with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Not having a cell phone with internet access () Lack of knowledge with the software tools for videoconferencing () Lack of fiftuelties () Others Answer options for professors () Little knowledge/skills with the technologies () Difficulty recording lessons () Difficulty in synthesizing the content of the lessons () Lack of motivation to prepare distance lessons () Lack of interaction with students () Lack of motivation of students () Lack of motivation of students () Lack of inficulties () Other	Х	X
	 Answer options for students () Lack of interaction with professors/students () Resolution of doubts () I believe that content is missing () I cannot focus the same way as the face-to-face lessons () Lack of motivation with distance lessons 		Х
What are the benefits of distance learning?*	 Answer options common to professors and students () Do not lose course content () Add knowledge () A dynamic way of learning () Access to digital innovation () Possibility of being at home () Not having to spend on transportation () Security in the isolation period () I feel more comfortable with the online environment () I transmit knowledge/activities to students so that they are not idle and anxious () I believe three are no benefits () Others 	Х	X
	 Answer options for professors () I can teach better the content of the classes () I feel more comfortable with the students 	Х	
	Answer options for students () I can pay more attention to the lessons' content () I feel more comfortable with students and professors 		Х
When face-to-face activities return, what technologies (among those you used during the suspension of activities) do you expect to continue using?*	 () Email () Survey administration services (ex: Google Forms, Microsoft Forms, Surveymonkey) () Cloud data storage services (e.g., Google Drive, Dropbox, Microsoft Onedrive) () Integrated university education management system (ex: Blackboard, Google Classroom, Canvas, Moodle) () Interactive online polling services (e.g., Kahoot !, Mentimeter, Socrative) () Meetings or classes through Google Meet, Zoom, Skype or similar () None () Others 	Х	Х

*Multiple option questions.

SUPPLEMENTARY MATERIAL 3 SUSPENSION OF ACADEMIC ACTIVITIES AND BEGINNING OF DISTANCE LEARNING ACTIVITIE FOR PROFESSORS AND STUDENTS

Sample		Profe	ssors		
Variables		Face-to-face activities have been suspended and we are NOT having remote activities	Face-to-face activities have been suspended, but we are HAVING remote activities	Face-to-face activities were NOT suspended	p-value
	North America	1 (3.3)	27 (90.0)	2 (6.7)	
	Latin America	2 (3.2)	61 (96.8)	0 (0.0)	
Continent	Brazil	84 (25.5)	246 (74.5)	0 (0.0)	< 0.0001*
	Europe	1 (2.0)	49 (98.0)	0 (0.0)	
	Asia/Oceania/Middle East	0 (0.0)	6 (100.0)	0 (0.0)	
	Comunitary	0 (0.0)	8 (100.0)	0 (0.0)	
TT • •4	Private	1 (0.7)	137 (98.6)	1 (0.7)	<0.0001*
University	Public	82 (29.5)	195 (70.1)	1 (0.4)	<0.0001*
	Public and private	5 (9.3)	49 (90.7)	0 (0.0)	
	Total	88 (18.4)	389 (81.2)	2 (0.4)	479 (100.0)
Sample Students					
	North America	2 (22.2)	7 (77.8)	0 (0.0)	
	Latin America	15 (14.2)	91 (85.8)	0 (0.0)	0.002*
Continent	Brazil	44 (15.9)	228 (82.6)	4 (1.4)	0.003*
	Europe	5 (4.0)	119 (95.2)	1 (0.8)	
The income iter	Private	10 (8.5)	109 (89.8)	2 (1.7)	0.161*
University	Public	56 (14.2)	336 (85.0)	3 (0.8)	0.161*
	Total	66 (12.8)	445 (86.2)	5 (1.0)	516 (100.0)

Bold values mean different fromothers within the groups.

*according to Fisher's exact (comparisons were made vertically)

SUPPLEMENTARY MATERIAL 4 STUDENTS' STUDY DURING THE PERIOD OF SOC

Variables		I am studying through distance lessons	No	Not enough	Yes, I'm learning alone	p-value
Sex	Female	297 (78.7)	29 (7.7)	6 (1.6)	45 (12.0)	0.800*
	Male	109 (78.3)	9 (6.5)	1 (0.7)	20 (14.5)	0.000
	No answer	19 (79.2)	0 (0.0)	1 (4.2)	4 (16.7)	
	Up to 20	61 (96.8)	2 (3.2)	0 (0.0)	0 (0.0)	
Age	21-30	293 (77.1)	33 (8.7)	6 (1.6)	48 (12.6)	<0.0001*
Agt	31-40	24 (66.7)	2 (5.6)	0 (0.0)	10 (27.7)	<0.0001
	41-50	8 (80.0)	0 (0.0)	0 (0.0)	2 (20.0)	
	51-60	1 (33.3)	1 (33.3)	0 (0.0)	1 (33.3)	
	North America	7 (77.8)	0 (0.0)	0 (0.0)	2 (22.2)	
Continent	Latin America	88 (83.0)	11 (10.4)	0 (0.0)	7 (6.6)	0.173*
	Brazil	209 (75.7)	22 (8.0)	6 (2.2)	39 (14.1)	0.175
	Europ	102 (81.6)	5 (4.0)	1 (0.8)	17 (13.6)	
Course	Undergraduate	294 (79.9)	30 (8.2)	6 (1.6)	38 (10.3)	
	Master's Degree	47 (75.8)	3 (4.8)	0 (0.0)	12 (19.4)	0.169*
	Doctorate	30 (68.2)	4 (9.1)	0 (0.0)	10 (22.7)	
	Post-doctorate	6 (75.0)	0 (0.0)	0 (0.0)	2 (25.0)	
	Especialization	17 (85.0)	0 (0.0)	0 (0.0)	3 (15.0)	
	Resident	5 (83.3)	0 (0.0)	1 (16.7)	0 (0.0)	
University	Private	109 (90.0)	2 (1.7)	3 (2.5)	7 (5.8)	<0.0001*
University	Public	297 (75.0)	36 (9.2)	4 (1.0)	58 (14.8)	<0.0001*
	Total	406 (78.6)	38 (7.4)	7 (1.4)	65 (12.6)	516 (100.0

Bold values mean different fromothers within the groups *according to Fisher's exact (comparisons were made vertically).

SUPPLEMENTARY MATERIAL 5

INSTITUTION TRAINING/SUPPORT WITH DISTANCE LECTURES FOR (SCORES FROM 1 TO 10, THE HIGHER THE SCORE, THE HIGHER THE LEVEL OF STRESS/ANXIETY)

Sample	Р	rofessors		
Variables		Trai	ining#	p-value
		No	Yes	P
	North America	6 (22.2)	21 (77.8)	
Continent	Latin America	1 (1.6)	60 (98.4)	
continent	Brazil	60 (24.4)	186 (75.6)	< 0.0001*
	Europe	14 (29.8)	33 (70.2)	
	Asia/Oceania/Middle East	3 (50.0)	3 (50.0)	
	Comunitary	0 (0.0)	8 (100.0)	
	Private	15 (10.9)	122 (89.1)	< 0.0001*
University	Public	60 (31.1)	133 (68.9)	
	Public and private	9 (18.4)	40 (81.6)	
	1	11 (13.1)	41 (13.5)	
	2	9 (10.7)	31 (10.2)	
	3	8 (9.5)	34 (11.2)	
	4	6 (7.1)	28 (9.2)	
Stress level	5	19 (22.6)	38 (12.5)	0.721*
	6	9 (10.7)	37 (12.2)	0.721
	7	8 (9.5)	30 (9.9)	
	8	6 (7.1)	39 (12.9)	
	9	6 (7.1)	17 (5.6)	
	10	2 (2.4)	8 (2.6)	
	Total	84 (100.0)	303 (100.0)	387 (100.0)
Sample		Students		
	North America	0 (0.0)	7 (100.0)	
a	Latin America	48 (52.8)	43 (47.2)	0.0001*
Continent	Brazil	125 (55.0)	102 (45.0)	<0.0001*
	Europe	35 (29.7)	83 (70.3)	
· · ·	Private	28 (26.4)	79 (73.6)	.0.0001**
University	Public	180 (53.8)	156 (46.2)	<0.0001**
	1	19 (9.1)	26 (11.0)	
	2	21 (10.1)	26 (11.0)	
	3	22 (10.6)	26 (11.0)	
	4	13 (6.3)	25 (10.6)	
Stress level	5	18 (8.7)	22 (9.3)	0.347**
511 CSS ICVEI	6	25 (12.0)	24 (10.2)	0.347.**
	7	21 (10.1)	32 (14.0)	
	8	26 (12.5)	22 (9.3)	
	9	20 (9.6)	11 (4.7)	
	10	23 (11.1)	21 (8.9)	
	Total	208 (46.8)	235 (53.2)	443 (100.0)

Bold values mean different fromothers within the groups

*according to Fisher's exact (comparisons were made vertically)

** according to Chi-square test (comparisons were made vertically)

#only participants who were taking distance lessons answered