

ISSN: 2230-9926

RESEARCH ARTICLE

Available online at http://www.journalijdr.com



International Journal of Development Research Vol. 12, Issue, 02, pp. 53917-53924, February, 2022 https://doi.org/10.37118/ijdr.23932.02.2022



OPEN ACCESS

KNOWLEDGE AND PERCEPTIONS OF MEDICAL STUDENTS AT THE BEGINNING OF COVID-19 PANDEMIC IN TWO NATIONS WITH DIFFERENT HUMAN DEVELOPMENT INDICES

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ARTICLE INFO

Article History:

Received 14th November, 2021 Received in revised form 26th December, 2021 Accepted 11th January, 2022 Published online 20th February, 2022

Key Words:

Covid-19, Medical Students, Knowledge, Perceptions, Human Development.

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ABSTRACT

Covid-19 pandemic affected medical students in all countries of the world. These are times of challenges and opportunities to increase medical knowledge and to practice preventive measures. There is a considerable number of situations that can cause psychological symptoms in medical students, including human development. The aim of this study is to compare medical knowledge, preventive measures, and psychological perceptions in Brazilian and Mozambican medical students. Electronic questionnaires were sent by social network, then descriptive statistics and data pairing were performed. Comparison of groups data showed that internet was the first font of information for most Brazilian students (internet: 59,3%, television: 11,1%) and television was the first font most declared by Mozambicans (television: 40,7%, internet: 33,3%) (p=0,033). Brazilian students performed better in the knowledge test (global average: 74,8% vs. 53,0%, p=0,001). Mozambican student adopted preventive measures with better adherence (do not touching oral, nasal, or ocular mucosa: 85,2 vs. 51,9, p: 0,014) but reported more use of selfmedication (37,0% vs. 74,1%, p=0,048). Brazilian student presented more psychological effects, as being restless (77,8% vs. 33,3%, p=0,005), with worsening in the past 30 days (48,1% vs 22,2%, p=0,049) and partial inability in 10,6 vs. 3,9 days in the last 30 days (p=0,022). Human development index, internet access, and other issues are discussed as possible important factors for these differences.

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Citation: Abrão José Melhem Junior, Gustavo Bianchini Porfirio, Daiane Priscila Simão-Silva and David Livingstone Alves Figueiredo. "Knowledge and perceptions of medical students at the beginning of Covid-19 pandemic in two nations with different human development indices.", International Journal of Development Research, 12, (02), 53917-53924.

INTRODUCTION

Covid-19 pandemic surprised the world in the beginning of 2020. Since the first description in China, (HUANG *et al.*, 2020), the disease has shown its spreading potential reaching pandemic numbers in 2020 February (WHO, 2020a). Some countries initially presented few cases, but there was a run for information and a lot of concern for everybody, including doctors (ELHADI *et al.*, 2020, LINCANGO-NARANJO *et al.*, 2021). Brazil is the largest South American country. In terms of the human development index (HDI), which is the index used by the United Nations to measure the progress of a country, it was 0.765 points in 2020, leaving it as medium HDI and in 84th place among 189 countries.

Mozambique is a country located in Southeastern Africa whose HDI is low (0,456) (WHO, 2020b). In 2020 April, Brazil had confirmed 62,932 cases (298 cases per million inhabitants) and Mozambique 76 cases (2,5 cases per million inhabitants) (WORLDOMETERS, 2020). This difference could be explained by the circulation of citizens around the world, by numbers of tests applied or by the health system response, at that time. Although Covid-19 has brought more initial effects in Europe and Asia than in Africa or South America, there was a great concern about this disease around the world (WHO, 2020b). Besides underlying medical conditions associated with Higher Risk for Severe COVID-19, the pandemic progression and impact has been correlated with HDI (KHALATBARI-SOLTANI *et al.*, 2020). In

addition to the health and economic impacts, the covid-19 pandemic has resulted in schools shut across the world. In this scenario, medical education was highly impacted. The traditional structure of medical education has been disrupted. It was necessary to accelerate the development of an online learning environment, comprising distance education (LINCANGO-NARANJO et al., 2021). At the same time, there were serious implications on the medical students' academic trajectories and their psychological conditions. The medical literature has described high levels of anxiety in young people (QIU et al., 2020), fear of the disease (XIANG et al., 2020), impact on studies, feelings, and attitude (BROOKS et al., 2020). It has also been reported some lack of knowledge in previous pandemics scenarios (MORTELMANS et al., 2009; SAUSER et al., 2010, HSU et al., 2011). As stated by the World Health Organization, the COVID-19 outbreak and response has been accompanied by a massive infodemic: an overabundance of information - some accurate and some not - that makes it hard for people, including medical students, to find trustworthy sources and reliable guidance when they need it (PAHO, 2020). The aim of this study was to assess Covid-19 medical knowledge, preventive measures, and psychological reactions of medical students in the first months of Covid-19 pandemic, in Brazil and Mozambique.

METHODOLOGY

An observational, cross-sectional study was conducted using an electronic questionnaire (Appendix I) via Google Forms, elaborated to collect information about a) medical knowledge about Covid-19 at the moment of the survey (JIANG et al., 2020); b) preventive measures for SARS-COV-2 infection (BRASIL, 2020; CROWLING, AIELLO, 2020); c) and pandemic-related perceptions through an electronic adaptation of the K-10 instrument translated to Portuguese (KESSLER et al., 2002, PEREIRA et al., 2019). The questionnaire link was sent via medical students' social networks - Facebook, WhatsApp, and Instagram. There were included just the responses from medical students. The repeated or incomplete responses were excluded. The data were collected from 2020, Mar 23rd to 2020, Apr 11th. The responses were from Brazilian (n=336), Mozambican (n=27), and Portuguese students (n=1). For comparison purposes, we decided to pair 27 Mozambican students' responses to 27 Brazilian students' responses, considering sex, phase of medical course, and age. Statistical analysis comprised: descriptive statistics using frequency and means tests; paring of data by sex, course phase, and age by qui square, Students t and Wilcoxon test; comparison between groups using qui square and Student's t tests. Data were analyzed by IBM SPSS Statistics program, 26 version. Results were considered significative if the confidence interval was higher than 95% (p<0.05).

RESULTS

Series description (before data pairing): There were 369 valid responses. Majority of them (336) were Brazilian students (91.1%), 27 (7.3%) were Mozambican students and 1(0.3%) was a Portuguese student. Five students (1.3%) didn't inform their country. Majority of Brazilian students (n=293, 87.2%) are from universities in the Paraná State, South of Brazil, with 128 (43.7%) from public institutions and 165 (56.3%) from private medical schools. Median age of the sample was 21.92 ± 3.59 , distributed between 17 and 43 years old. Female gender was the majority, with 251 responses (68.0%). There was majority of students (61.5%) in the two first years of the course (basic cycle), with the following distribution: 89 (24.1%) in the first, 138 (37.4%) in the second, (13.6%) in the third, 47 (12.7%) in the fourth, 30 (8.1%) in the fifth and 15 (4.1%) do sixth year of undergraduate medical course.

Global knowledge average was 72.7%. Student's acquired medical knowledge of a new disease, adoption of preventive measures and psychological perceptions are described in tables 1, 2 and 3. Taken all together, medical students' feelings in the past 30 days were: as habitual (37.7%), a little more frequent (33.6%), such more frequent (16.0%), much more frequent (5.2%), a little less frequent (4.3%),

such less frequent (1.9%), much less frequent (1,4%), not answered (0,8%). In the past 30 days, there was a report of 3,2 days in total incapacity and 6,9 days in partial incapacity for habitual activities. Majority of the sample (79,4%) didn't visit a medical service in the 30 days before to this survey.

Data Pairing: Male/female ratio was equal (14/13, absolute numbers) for both groups (p=1,000, qui square test). Mean age was 25,6 for Mozambique students and 24,4 for Brazil students (p=0,670, Student's t). Phase of course, assessed by year or cycle (basic, clinical or internship), was very similarly distributed (p=0,927, qui²; Wilcoxon value= 3,5). Modify to:

- First font of information: internet was the first font of information for most Brazilian students (internet: 59,3%, television: 11,1%) and television was the first font most declared by Mozambicans (television: 40,7%, internet: 33,3%) (p=0,033, qui²).
- Medical knowledge: Brazilian students had more correct answers in identifying radiologic findings (63,0% vs. 18,5%, p=0,001, qui²), risk group (96,3% vs. 74,1%, p=0,022, qui²), no specific treatment (81,5% vs. 48,1%, p=0,010, qui²) and recommended preventive measures (81,5% vs. 44,4%, p=0,005, qui²). Global knowledge average was higher in Brazilian students (74,8% vs. 53,0%, p=0,001, qui²).
- Use of preventive measures: Mozambican students declared that touched self-eye, nose, or mouth less often than Brazilian (85,2% vs. 51,9%, p=0,014, qui²), had more temperature measures (40,7% vs. 14,8%, p=0,003, qui²), and used more immunity improvement auto medication or vitamin (74,1% vs. 37,0%, p=0,048, qui²).
- Psychological reactions: Brazilian students reported to be more restless than Mozambicans (77,8% vs. 33,3%, p=0,005, qui²) and that all feelings together worsened in the past 30 days (48,1% vs. 22,2%, p=0,049, qui²). Days average in partial inability were also different, Brazilians reported 10,6 days, and Mozambicans reported 3,9 days (p=0,022, Student's t test).

The difference between two countries reached significative correlation in a two tailed Pearson correlation test of 0,697, p<0,001 (Figure 1).



Figure 1. Comparison of averages in medical knowledge about Covid-19 between two countries

DISCUSSION

Before comparison, the global sample (n=369) showed a good level of medical knowledge about Covidacquired in the first weeks of pandemic, with 72,7% of correct answers. These results are consistent with other studies (SOLTAN, ZOGHBY, SALAMA, 2020; ELHADI *et al.*, 2020a; LICANGO-NARANJO *et al.*, 2021) that described fast acknowledgement by medical students in the pandemic scenario. There was good adherence to most preventive measures, except in the declared use of personal preventive devices and self-temperature measuring.

Question	Answers	n (%)
First knowledge about Covid19	Internet	238 (64.5)
e	Television	97 (26.3)
	Newspaper	16 (4.2)
	Colleagues' speech	5 (1.4)
	Professor speech	5 (1.4)
	Scientific journal	5 (1.4)
	Others	3 (0.8)
Local of the very first cases	Wuhan, China	359 (97.3)
-	Others	10 (2.7)
Initial human virus transmission	Rodent ingestion	338 (91.6)
	Others	31 (9.4)
First case series published	41 cases, food exposure in local market	273 (74.0)
*	Others	96 (26.0)
First symptoms	Fever, cough, and dyspnea	357 (96.7)
• •	Others	11 (3.3)
Radiological findings	CT-scan frosted glass standard	171 (46.3)
· ·	X-ray pneumonic standard	184 (49.9)
	Others	14 (3,8)
Etiologic diagnosis	Real time PCR or viral genetics	91 (50.4)
	Real time PCR or antibodies	186 (24.7)
	Hemogram and elevated C-reactive protein	35 (9.5)
	Others	57 (15.4)
Risk group	Older men	345 (93.5)
	Others	24 (6.5)
Main complications	All items below	93 (25.2)
*	Respiratory distress syndrome	265 (71.8)
	Myocardial injury	4 (1.1)
	Shock	4 (1.1)
	Renal failure	3 (0.8)
Effective treatment	No effective treatment disponible	271 (73.4)
	Chloroquine	77 (20.9)
	Others	21 (5.7)
Preventive measures	Handwash	364 (98.6)
	Social distancing	361 (97.8)
	Self-secretion directing	341 (92.4)
	Masks and glasses	331 (89.7)
	High doses of D-vitamin	79 (21.4)
Right answers (%)		72.7

Table 1. Questions about knowledge on Covid-19 at the beginning of pandemic

CT-scan: computerized tomography. PCR: polymerase chain reaction.

Table 2. Adoption of preventive measures and health care

Daily preventive measures	Not answered n (%)	Never n (%)	Few times n (%)	Sometimes n (%)	Many times n (%)
Handwash	0	0	10 (2.7)	119 (32.3)	240 (65.0)
Masks	1 (0.3)	262 (71.0)	72 (19.5)	19 (5.1)	15 (4.1)
Self-secretion directing	2 (0.5)	5 (1.4)	38 (10.3)	110 (29.8)	214 (58.0)
Shake hands greeting	0	183 (49.6)	119 (32.3)	45 (12.2)	22 (6.0)
Visit to older people	0	283 (76.7)	71 (19.2)	15 (4.1)	0
Go out home	1 (0.3)	183 (49.6)	142 (38.5)	24 (6.5)	19 (5.1)
Touch eyes, nose, and mouth	1 (0.3)	42 (11.4)	142 (38.5)	126 (34.1)	58 (15.7)
Self-health concerns	Not answered n (%)	Never n (%)	Rarely n (%)	Eventually n (%)	Daily or more n (%)
Measure temperature	1 (0.3)	0	321 (87.0)	33 (8.9)	14 (3.8)
Vitamin intake	0	0	267	47	55
Analgesics or anti-thermal agents' intake	0	0	313	48	8
Antimicrobial agents' intake	0	0	347	17	5
Go to crowded places	1	0	346	18	5
Travel	3	0	354	9	3
Go to hospital or emergency room	0	0	346	16	7

Table 3. Perceptions in the past 30 days (K-10 questionnaire)

Perceptions	Not answered $n \binom{9}{2}$	Never n (%)	Few times	Part of time $n(\%)$	Most of time $n(%)$	All the time n
	11 (70)		II (70)	II (70)	II (70)	(70)
Tired out	2 (0.5)	131 (35.5)	148 (40.1)	49 (13.3)	27 (7.3)	12 (3.3)
Nervous	2 (0.5)	39 (10.6)	133 (36.1)	118 (32.0)	64 (17.3)	13 (3.5)
So nervous that nothing could calm you down	0	224 (60.7)	85 (23.0)	36 (9.8)	15 (4.1)	9 (2.4)
Hopeless	1 (0.3)	180 (48.8)	114 (30.9)	42 (11.4)	23 (6.2)	9 (2.4)
Restless or fidgety	1(0.3)	64 (17.3)	121 (32.8)	109 (29.5)	55 (14.9)	19 (5.2)
So restless that nothing you could not sit still	0	190 (51.5)	76(20.6)	61 (16.5)	31 (8.4)	11 (3.0)
Depressed	4(1,1)	116 (31.4)	133 (36.0)	79 (21.4)	24 (6.5)	13 (3.5)
So depressed that nothing could cheer you up	3 (0.8)	244 (66.1)	63 (17.1)	34 (9.2)	15 (4.1)	10 (2.7)
Everything was an effort	1(0,27)	181(49,05)	106(28,73)	48(13,01)	18(4,88)	15(4,07)
worthless	2(0,54)	223(60,43)	77(20,87)	37(10,03)	7(4,61)	13(3,52)
How much did the pandemic influence all these feelings?	17 (4.6)	116 (31.4)	111 (30.1)	74 (20.1)	44 (11.9)	7 (1.9)

Data Comparison		Brazil	Mozambique	р	test
First font of information (%)	Internet	59,3	33,3	0,033	qui²
	Television	11,1	40,7		
	Others	29,6	26,0		
edical knowledge about Covid19	Radiologic findings	63,0	18,5	0,000	qui²
(Correct answers, %)	Risk group for Covid19	96,3	74,1	0,022	qui²
	Absence of specific treatment	81,5	48,1	0,010	qui²
	Recommended preventive measures	81,5	44,4	0,005	qui²
Use of preventive measures (%)	Reduction of touch self-eye, nose, or mouth	51,9	85,2	0,014	qui²
	More temperature measures	14,8	40,7	0,003	qui²
	More immunity improvement by auto medication or vitamins	37,0	74,1	0,048	qui ²
Psychological reactions	Restless feeling (%)	77,8	33,3	0,005	qui²
	Feelings worsened in the past 30 days (%)	48,1	22,2	0,049	qui²
	Days average in partial inability (n)	10,6	3,9	0,022	t

Table 4. Comparison data between groups

qui²= qui square test, t= Student's t test. Source: authors.

Several studies on preventive behavior in pandemics had shown a slight discrepancy between knowledge and practice (HSU et al., 2011; SOLTAN, ZOGHBY, SALAMA, 2020; ELHADI et al., 2020a). Most psychological effects described were exhaustion, nervousness, restlessness, and depression, with 49,6% declaring that these feelings worsened in the past 30 days, leading to about one week of partial disability. These findings are lower than Halperin et al. (2021) report, which described over 60% of psychological disturbances in medical students in the pandemic in a larger sample from the United States of America. A study conducted in Kuwait showed 36,7% of severe anxiety and 66,6% of moderate to severe depression in this population (ALSAIRAFI et al., 2021). This lack can be partially explained by geopolitical, sample size, survey type and methodological differences. In association with a civil war, pandemic had higher negative effects in Libyan medical students with anxiety in 64,5% and depression in 88% (ELHADI et al., 2020b). Reconsidering professional choice (GUPTA, ANUPAMA, RAMAKRISHNA, 2021) and suicidal ideation (ELHADI et al., 2020b) were present in some reports. Medical students are evolved with so many tasks and issues about their courses and with patient care in advanced phases, but they are not isolated from society: suffering and solidarity are compounds of their mental status (EGNEW et al., 2018). Most Brazilian students used the Internet as the first information font for the Covid-19, and it was different from most Mozambicans, which had this first notice by television. Brazilians also had better average medical knowledge at the survey time. These findings, taken together, lead to a reflection about iniquality of information access. This study showed a 50% higher use of the internet for Brazilian medical students, the same difference is observed in the human development index (HDI) of both countries (WHO, 2020b) and in the use of the internet by the general population (PRC, 2016) for both countries. Qureshi (2021) reviewed this specific point, observing that Covid-19 pandemic highlighted the disparities of information access around the world based on the following chain: socioeconomic inequities - HDI - economic growth - digital startups - digital divide and poverty - health inequities. Technological, individual, domestic, institutional, and community barriers cause many difficulties in online learning.

Personal devices and velocity of data sharing are few, simple examples of this impairment. Economic changes caused by the pandemic had worsened the digital divide, heightening disparities in medical education, often in favor of those with greater access to resources (BATICULON *et al.*, 2021), and this could explain how Brazilians had acquired the medical knowledge faster than Mozambicans. Other explanation would be related to the greater incidence of Covid-19 cases in Brazil, as compared to Mozambique, in the pandemic beginning, suggesting an arousal for the imminent problem (WORLDOMETERS, 2020). Although Mozambicans medical students had lower average of right responses in medical knowledge, they reported more self-care concerning than Brazilians, in some topics as touching self-eyes, nose and mouth and taking selftemperature.

students imputed unfavorable attitudes and preventive measures to device and training deficits. This finding could explain in part the relative lower adherence of Brazilian students. Another possible explanation would be the great occurrence of fake news, related to political, social, and religious interests, that caused confusion even in people with higher levels of scholarity (BARCELOS et al., 2021). Mozambicans, however, declared more use of self-medication (SM) (74,1%) than Brazilians (37,0%). SM is a global practice associated with disease masking, adverse effects, drug interaction, and antimicrobial resistance; it was described in 58% of students in a Pakistan University, with higher prevalence in medical students (64,9%) (SALEEM et al., 2021). Brazilians declared more psychological reactions and partially paused regular activities more days than Mozambicans. Rodrigues et al. (2020) reviewed 43 articles with this specific issue, observing that the uncertain is the leading cause of psychological symptoms in medical students from many countries. In Brazil, there are various reports of high prevalence of psychological disturbances in pandemic (SILVA et al., 2020; MESSIANO et al., 2021; MENDES et al., 2021). Economic issues and use of psychotropic drugs were associated to higher levels of stress and anxiety; other causes as remote learning activities, risk of contamination and latening of the graduation were also reported (MESSIANO et al., 2021). Lack of dietary care and physical activity are associated to psychological symptoms (MENDES et al., 2021). It's important to remember that mental health is a pre pandemic important issue for medical students (EGNEW et al, 2018), so previous mental illness tend to get worse in a global crisis (RODRIGUES et al., 2020). Exposure to internet information, fake news and real time rising numbers of disease and death are some factors for mental health problems (GARFIN, SILVER, HOLMAN, 2020; BARCELOS et al., 2021). There are some reports suggesting that stress management strategies, as physical activity, balanced diet, coping strategies, structured mentoring programs and specialized mental health professionals, are essential to preserve or improve medical students' mental status (MENDES et al, 2021; MESSIANO et al., 2021). This study has limitations, as convenience sample, the use of electronic and self-applied questionnaire and self-informed data. Data pairing reduced the sample size, but it was done with the intention to moderate the power of one group over other. Nevertheless, these data can contribute with medical schools' policies for medical student's benefit (XIANG et al., 2020).

CONCLUSION

In this study, conducted in the first weeks of Covid-19 pandemic, most Brazilian medical students reported to be informed of the pandemic by internet, and performed better in medical knowledge in comparison with Mozambican pairs. Mozambican medical students had television as first information fount, had better adherence to preventive measures, higher use of self-medication and less psychological reactions to pandemic, as compared with Brazilians. Human development issues, internet access, media exposure, fake news, previous mental health status, and uncertainty may have a role in these findings and medical schools must be careful on these issues.

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APPENDIX I – E-QUESTIONNAIRE

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11 O sebado do imagon que prodomina na COVID 18 é	
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 Sinais de disfunção miocárdica no ecocardiograma 	
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 U diagnostico etiológico pode ser feito por: Marcar apenas uma oval 	
PCR em tempo real ou seguenciamento nânico	
Sequenciamento genômico ou detecção de anticorpos específicos	
Dosagem da angiotensina sérica ou detecção de anticorpos específicos	
Hemograma mostrando linfocitose ou elevação da PCR sérica PCR em tempo real ou detecção de anticorpos específicos	
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Estão sob maior risco de complicações e morte pela COVID-19: 16.		dos estudant	es de Medicina sobre	a pandemia de O	OVID-19.	
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marcar apenas unta oval.	Marcar apenas uma oval.					
- Homens idosos	Lavar as mãos					
Mulheres na menacme	Máscaras e óculos de pr	oteção				
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Nenhum dos acima	Altas doses de vitamina	C e Zinco				
	0					
As principais complicações com potencial mortalidade nestes casos são: 17.	Descreva com que frequên	cia você (executa as ativ	vidades aba	ixo:	
Marcar apenas uma oval.	Marcar apenas uma oval por lin	ha.				
Síndrome do distress respiratório agudo		Nunca	Poucas vezes ao dia	Alguma vezes ao	s N dia veze	Auitas es ao dia
Insuficiência renal aguda Comprometimento micoárdico	Higienizar as mãos com sabã ou álcool	• •	0	0	1	0
Choque	Usar máscara ou outro					
Todos acima	equipamento de proteção individual (EPI)	0	\bigcirc	0		\bigcirc
Até o momento, qual tratamento foi comprovadamente eficaz contra o virus da	Direcionar a tosse ou espirro para local apropriado	0	0	0	1	0
COVID-19? Marcar apenas uma oval	Cumprimentar com beijo, abraço ou aperto de mão	\bigcirc	0	0		0
Ritonavir	Visitar pais, tios, avós com 60 anos ou mais	0	\bigcirc	0		0
Remdesivir	and durinals	0	0			_
Cloroquina	Sair de casa	\cup	0	0		0
	Tocar olhos, boca e nariz	\bigcirc	\bigcirc	\bigcirc		\bigcirc
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 As últimas dez questões perguntaram sobre sentimentos que podem ter ocorrido durante os últimos 30 días. Tomados juntos, esses sentimentos ocorreram mais freqüentemente nos últimos 30 días do que é habitual para 	24.	 Persegos do estuarias de Mediante de Verante de CUVIL-19. Durante os últimos 30 días, se essa situação foi a causa principal desses sentimentos? 								
	você, como de costume, ou menos freqüentemente do que o habitual? (Se você nunca teve quaisquer desses sentimentos nos últimos 30 días, circule a opção		marcar apenas u	O tempo	A maior parte do	Parte do	Um	Nunca		
	de resposta 4.) Marcar apenas uma oval.		Qual a frequência?					0		
	1. Muito mais									
	2. Um tanto mais									
	3. Um pouco mais	25.	Leia o texto a s	seguir e resp	onda sim, caso con	corde, ou não	, caso disc	orde.		
	4. Como de costume		Concordei em	ser entrevist	ado(a) e/ou particip	ar na pesqui	sa de camp de Medic	00		
	5. Um pouco menos		referente ao projeto inititulado(a) Percepção dos estudantes de Medicina sobre a pandemia COVID-19 desenvolvida(o) por_Liga Acadêmica de Clínica Médica Unicentro / DEMED / UnicentroPR. Fui informado(a), aínda, de que a pesquisa é							
	6. Um tanto menos									
	7. Muito menos		coordenada po consultar a qu	or Prof. Abrā alquer mome	o José Melhem Jr., a ento que julgar nece	quem poder ssário atravé	rei contata s do e-mai	r/ 1		
			vontade sem i	centro.br . At receber qual	firmo que aceitei pa quer incentivo finan	rticipar por n ceiro ou ter r	ualquer ör	na nus e com		
21.	Durante os últimos 30 dias, quantos dias você esteve totalmente incapaz de		a finalidade ex	clusiva de co	laborar para o suce	sso da pesqu	isa. Fui inf	ormado(a)		
	trabainar ou realizar as suas atividades (estudar mesmo na quarentena) por causa desses sentimentos?		dos objetivos	estritamente	acadêmicos do est	udo, que, em	linhas ger	ais é		
	Couse Coses Schulleness		estudar a perc	epção do es	tudante de medicin	a frente a um	a pandemi	a. Fui		
			também escla	recido(a) de	que os usos das info	à pesquisa e	r mim ofen	ecidas		
			humanos, da C	Comissão Na	cional de Ética em P	esquisa (CO)	NEP) do Co	inselho		
22.	Durante os últimos 30 dias, quantos dias você foi capaz de realizar metade ou		Nacional de Sa	ude, do Mini	stério da Saúde. Mi	ha colabora	ao se fará	de forma		
	menos das suas atividades (estudar mesmo na quarentena) por causa desses		anônima, por r	neio de resp	osta a questionário	via internet. (D acesso e	a análise		
	sentimentos?		dos dados col	etados se far	ão apenas pelo(a)p	esquisador(a)	e/ou seu(s)		
			orientador(es)	/ coordenad	or(es). Fui ainda info	ormado(a) de	que posso	o me		
			para meu acor	npanhament	o ou sofrer quaisqu	er sancões o	u constran	aimentos.		
			Atesto recebin	nento de um	a cópia assinada de	ste Termo de	Consentin	nento		
23.	Durante os últimos 30 dias, quantas vezes você consultou um médico ou outro		Livre e Esclarecido, conforme recomendações da Comissão Nacional de Ética em Pesquisa (CONEP).							
	profissional de saúde por causa desses sentimentos?									
			Marcar apenas	uma oval.						
			○ NÃO							
