Suicide risk and media consumption in the COVID-19 pandemic in Colombia

Riesgo de suicidio y consumo de medios en la pandemia de COVID-19 en Colombia

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ABSTRACT: The media can play an important role in suicide prevention and mental health care, especially in a country like Colombia, affected by an internal armed conflict, and with worrying cases of suicide that increased during the COVID-19 pandemic. It is known that mental health conditions were accentuated during the first year of this pandemic, with the deaths of family and friends, mandatory isolation, and the economic crisis, among others. This study examines the relationship between media reception and suicidal ideation in Colombia during this period. Methodologically, this predictive, cross-sectional, and non-experimental correlational study presents the results of a survey of Colombians aged 18 to 59 (N=660) from the three most populated regions of the country, conducted from January 1 to November 30, 2020. It was found that both frequent reception of news about deaths coronavirus, as well as the intentional search for or access to information in the media about suicide cases, acted as risk predictors of suicidal ideation. Conversely, the reception of programs that promoted or strengthened spiritual life was a protective factor against suicidal ideation. Age and physical and mental health did not influence the relationship between suicidal ideation and the reception of information about these human losses. In conclusion, the way in which a pandemic and suicide cases are journalistically covered influences suicidal ideation. Exposure to audiovisual entertainment programs could help lower the levels of suicidal ideation in contexts of a health crisis, as long as they emphasize the support networks and the reasons for living that are present in the programs that promote spiritual life.

Keywords: suicide; information media; journalism; entertainment; pandemics; mental health; information; consumption.

RESUMEN: Los medios de comunicación pueden desempeñar un rol importante en la prevención del suicidio y el cuidado de la salud mental, especialmente en un país como Colombia, afectado por un conflicto armado interno, y con cifras preocupantes de suicidio que aumentaron durante la pandemia de COVID-19. Se sabe que en el primer año de esta pandemia se acentuaron las condiciones de salud mental, con la muerte de familiares y amigos, las cuarentenas y la crisis económica. Este estudio examina la relación entre la recepción de medios y la ideación suicida en Colombia durante este período. Metodológicamente, este estudio correlacional, predictivo y transversal presenta los resultados de una

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encuesta a colombianos de 18 a 59 años (N=660) provenientes de las tres regiones más pobladas del país, realizada del 1 de enero al 30 de noviembre de 2020. Se encontró que la recepción frecuente de noticias sobre muertes por coronavirus y la búsqueda o acceso intencional a información sobre suicidios fue un predictor de ideación suicida. En cambio, la recepción de programas que fortalecen la vida espiritual fue un factor protector. La edad y la salud física y mental no influyeron en la relación entre la ideación suicida y la recepción de información sobre estas pérdidas humanas. En conclusión, la forma en que se cubre periodísticamente esta pandemia y los suicidios influye en la ideación suicida. La recepción de entretenimiento ayuda a reducir la ideación suicida cuando el contenido enfatiza en las redes de apoyo y las razones para vivir que están presentes en los programas que promueven la vida espiritual.

Palabras clave: suicidio; medios de información; periodismo; entretenimiento; pandemia; salud mental; información: consumo.

1. Introduction and literature review

Pandemics, because they are complex events that usually push human beings to the limit, exacerbate the crises of health systems and tend to strongly impact the psyche of citizens. In the case of the COVID-19 pandemic that began in 2020, various sources warned about a possible increase in suicide rates (Sher, 2020; Tandon, 2021). Although international organizations provided guidelines to help health systems (Wasserman et al., 2020) and constructively guide citizens on these possible problems, the media have played a dual role in the information that has been circulated on the subject.

The porous nature of the current information ecosystem (Carlson & Lewis 2015), where traditional media compete with digital media and social networks for the same audience, and the explosion of online news media added to the crisis of traditional media with the corresponding precariousness of journalistic work (Barredo-Ibáñez, 2021), have definitively affected the quality of information to which the common citizen is exposed. The infodemic—the over-information of spurious content on certain topics, in this case, COVID-19 (World Health Organization, 2022)—is related, from a media point of view to capturing attention as a broad process around which social media and traditional media are articulated. This attention-grabbing or seeking tends to generate negative effects on the emotions of the recipients (Twenge et al., 2018).

These effects lead to the treatment of people as users, who are overloaded with content, attraction and loyalty strategies, leading in many cases to psychological disorders such as anxiety, lack of sleep, and irritability (Rodrigues et al., 2022). The outcome of this attention-grabbing is visibly seen in the *slot machine effect*, where it is proposed that people become addicted through the constant and diverse symbolic gratifications from media and social platform narratives (Patino, 2019); the sentinel effect, according to which individuals sleep less and less, waiting to receive notifications from the various devices they have (Eisenstein & Estefanon, 2011); the FOMO effect - *fear of missing out* - which alludes to the anxiety of missing some type of important news, or the solitary consumption effect, which drives individuals to insistently show their daily life to obtain social endorsement (Costa & Capoano, 2020), to name a few.

The intervention of effects such as those that have been listed leads to numerous public health problems, among which the suicidal act stands out, which is a complex problem that depends on psychological, personal, cultural, and economical factors, among others (Castro et al., 2014). Furthermore, within this multicausal phenomenon, many authors conclude that there is also a relationship between media consumption and suicidal ideation (Herrera et al., 2015; Acosta et al., 2017; Lois et al., 2018; Durán & Fernández, 2020; Niederkrotenthaler et al., 2020). The increase in screen time from 2010 onward can help us understand the increase in depressive symptoms and suicidal acts in American adolescents (Twenge et al., 2018). Phenomena such as cyber victimization (Sedgwick

et al., 2019) or cyberbullying underpin the link between suicide and the media that has been transferred from the analogue to the digital.

This aforementioned link usually occurs through a contagion effect - which is also called the *Werther effect* or *copycat effect* - and tends to be incentivized according to aspects such as the celebrity status of the person (Stack, 2005; Herrera et al., 2015; Carmichael &. Whitley, 2019). That is, the more famous the celebrity, the greater the possibility of copying by those receiving that content, particularly when the medium in which it is shared does not follow the technical guidelines to address suicide proposed by the World Health Organization (2017). The guidelines suggested by this source range from narrative aspects - such as not using sensationalist language - or editorials - such as advising not to highlight suicide stories spectacularly in the head. Similarly, personal circumstances also influence the contagion effect, since the content will have a greater impact among vulnerable groups than in those other groups with greater media literacy (Muñoz & Sánchez, 2013).

In contrast to the Werther effect is the *Papageno effect*, which is the influence that media can have on defusing suicidal ideation by individuals (Sinyor et al., 2018; Herrera et al., 2015). These authors explain that, sometimes, the media will silence suicide as a way to avoid the contagion effect. Addressing this topic has the ambivalent role of news taboos; hence, suicide has been proposed as one of the taboo topics of journalists (Barredo-Ibáñez, 2011). As such, suicide has the ambivalent role of the taboos described by Gantz (1978) in an already classic work, as it is a topic that can protect societies by presenting options for greater support but also as a destroyer of those same societies when it is treated in a normalized and/or sensationalist manner.

This study examines the relationship between the levels of suicidal ideation and the reception of news -non-fictional broadcasts- and audiovisual entertainment programs -realistic or hyperrealistic broadcasts- in the first year of the pandemic in Colombia. This communicative approach to this mental health problem is novel, considering that research related to suicide has frequently focused on studying the influence of psychological factors (Barzilay & Apter, 2014), social (Perceval et al., 2018), political, cultural and also economic factors (Stack, 2021). Suicidal ideation are thoughts related to the desire to end one's own life and is considered being a major risk factor of suicidal act (Nobile et al., 2021). Reception in this context has to do with media consumption and specifically with the type of commitment or involvement that the audience assumes with what they receive from the media (Pathak & Biswal, 2021).

Suicide, as we see it, is a controversial issue, especially in a country such as Colombia, whose media coverage of mental health problems has been described as lacking (Gutiérrez-Coba et al., 2017). Added to this is the fact that it is a country that has experienced the oldest internal armed conflict in Latin America, which has left more than 250,000 dead and 9 million victims. A decade ago, the prevalence of suicide in the country was one every 4 hours, mainly due to intoxication, firearms and hanging (Muñoz & Sánchez, 2013). Far from decreasing, the suicide rate from 2005 to 2019 before the pandemic increased from 5.1 cases per 100,000 inhabitants to 5.9 (DANE, 2021a, p. 8). In this context, the work of the media has been essential to face this global health crisis (Wasserman et al., 2020).

However, the study by Garcés et al. (2021) shows that the media can contribute to the improvement of mental health and, especially, to the reduction of stress in this COVID-19 pandemic, when families gather to watch entertainment programs to be together and reduce the tension generated by the confinements and uncertainties of the pandemic. Suicidal ideation is considered an important factor in predicting suicidal action (Sedgwick et al., 2019). This is the first imaginary step that, as explained by Castro et al. (2014), may continue with the attempt and, later, with the consummation of suicide.

Authors such as Moscardini et al. (2021) emphasize that there are protective factors such as the social environment or reasons for living that can help mitigate suicidal ideation. On the other hand, the absence of these factors can increase this ideation. Likewise, there is empirical evidence indicating that video games are also used as psychotherapeutic entertainment resources for mental health care (Ceranoglu, 2010). Other studies point out how the negative impact of the media and the lack of practices that strengthen personal well-being or spiritual life are identified as factors linked to suicidal ideation (Martínez & Robles, 2016). From this portion of the literature review, the following hypothesis emerges:

H1. The reception of audiovisual programs is associated with a decrease in the levels of suicidal ideation in Colombia during the period studied, when they promote entertainment and psychological or spiritual well-being.

The previous hypothesis is based on the approaches outlined in the previous literature that, as has been described, emphasize the media's influence—by action or omission—on the behaviour of the users. Thus, it seems logical to assume that not all media content has the same capacity to influence people.

Although organizations such as the World Health Organization (2017) have been publishing guidelines on addressing suicide for more than two decades, which have been replicated at different national and subnational levels (Ministerio de Sanidad, Política Social e Igualdad, 2020), some authors point out that the media continue to publish content on this topic, ignoring these recommendations (Niederkrotenthaler et al., 2020).

Likewise, the COVID-19 pandemic accentuated the effects on the mental health of citizens because, as Da Silva & de Lucas (2020) explain, there was a predominance of negative emotions that deepened social vulnerability, such as "fear, anxiety, stress, irritability and confusion" (p. 164). With the following hypotheses, we will verify to what extent these negative contents published by the media in the context of the COVID-19 pandemic intensified those emotions, generating a greater impact on the levels of suicidal ideation. From this portion of the literature review, H2 emerges:

H2. The reception of news about the negative impact of the pandemic on human life is significantly associated with the increase in suicidal ideation in Colombia during the first year of the COVID-19 pandemic.

2. Methodology

This correlational study of predictive level is based on a non-experimental cross-sectional design. The sampling was performed by quota with the voluntary participation of 660 Colombians residing in capital cities (Cartagena, Bogotá, Armenia, Cali, Barranquilla, Ibagué, Medellín, Valledupar, San Andrés Islands, Riohacha, Monteria, Bucaramanga, Buenaventura, Sincelejo and Tumaco) and the main rural areas of the three most populated regions: Andean, Pacific and Caribbean. The sample was selected in a non-probabilistic approach starting from a population with an age range between 18 and 59 years, which according to the official Colombian census is approximately 32,957,031 inhabitants (Z=1.96; variance = .25; error = 4%).

The age variable was the sample quota, given that the empirical evidence indicates that suicide in Colombia presents significant age-associated differences and hits young people and the working adult population harder (Cendales et al., 2007). Therefore, the participating sample was structured based on two age ranges: young people between 18 and 26 years (50%) and adults between 27 and 59 years (50%). Regarding the gender of the participants, women (62.8%) were more interested in participating in this study than men (37.2%). It is important to mention at a sociodemographic level that 72.8% of the sample is studying technological or professional careers in higher education institutions in Colombia, and the remaining 27.2% are professionals. Likewise, 49.7% of the

respondents declare themselves unemployed and the remaining 50.3% work in the capital cities. In terms of family composition, 78% of the sample lives in nuclear households or extended families, and 22% lives in single-parent families.

To collect the information, students who are pursuing professional careers in the universities where members of the research team work were trained. These students emailed the questionnaire between November 1 and 30, 2020, with prior informed consent and institutional endorsement, to family members, acquaintances, and friends who met the sample requirements in terms of age and region. Regarding the ethical and institutional procedures, this is study is registered with the code NV03PS2201 in a Caribbean coast university in Colombia. This study also complied with the ethical guidelines of the Declaration of Helsinki on Research Involving Human Subjects; therefore, the data collected with minors under 18 years of age were not taken into account in the analysis, since the parents, in most cases, were reluctant to sign the informed consent. This made it difficult to analyze how the variables under study operate in the adolescent population, which is a high suicide risk group.

The questionnaire was made up according to an information and media reception scale (EMI) designed by Garcés et al. (2021) and the Suicide Ideation Inventory (PANSI) created by Osman et al. (2002). A item-by-item conceptual explanation was not provided, in order to enhance efficient readability, as has been done previously in the aforementioned studies. The EMI presents a good consistency and evaluates through 16 items the frequent reception of series or programs, which has an acceptable Cronbach's alpha (α =.73), as well as the reception of news about the pandemic and cases of suicide (α =0.86). Both the items presented in the reception of series or programs or the reception of news about the pandemic and suicide cases were measured in a range of 1 (never) to 4 (very frequently). These types of reception show a satisfactory factorial validity that explains 67.27% of the frequent consumption of media in this context of a health crisis (KMO =.872; Chi² = 6023; df = 210; p-value =.000).

To evaluate suicidal ideation, the PANSI scale was used, which analyzes this problem from 8 items that investigate, in a range from 1 (never) to 5 (always), the presence of frequent negative thoughts (α =.95) associated with the desire to take one's own life for various reasons, such as not being able to meet the expectations of others, hopelessness about the future, the crisis in relationships, inability to solve problems, feelings of failure and despair to end suffering. These items explain 68.5% of the total variance of negative suicidal ideation (KMO =0.938; Chi² = 5408; df = 36; p-value =.000).

The levels of suicidal ideation (low, moderate and high) were obtained through a scale by percentiles, taking as reference the minimum and maximum values of the general score and the 30th and 70th percentiles. For media reception, a nonparametric correlation test and a binary logistic regression analysis were applied because the data of these variables do not have a normal distribution.

3. Analysis of results

3.1. Relationship between media reception and suicidal ideation in pandemic

The percentile grading process applied to the PANSI scale, which was reported in the methodological section, allowed us to estimate the prevalence levels of suicidal ideation in the context of the pandemic. The data obtained reveal a high level of suicidal ideation of 35.2% of respondents at the end of the first year of the pandemic in Colombia, in line with the dramatic increase in predictive indicators of suicidal ideation in the country, such as unemployment, stress, domestic violence, to name a few (DANE, 2021a; 2021b). Sher (2020) argues that the COVID-19 pandemic triggered a greater number of mental disorders, including suicide, as a result of social isolation and personal effects and in individual support environments.

In our study, 40.8% of the Colombians surveyed reported moderate levels and 24.1% reported low levels of suicidal ideation. Although the participation of female respondents was higher as indicated by the methodology of this study, it was found that men (55%) presented higher levels of suicidal ideation than women (45%).

Previous studies have shown that the publicizing of suicides - especially those of celebrities - tends to generate an increase in suicides in the general population (Niederkrotenthaler et al., 2020). Concerning the first hypothesis, we found a link between some media programs and suicidal ideation, as presented in Table 1, in which we have added the options "frequent" and "very frequent", given that screentime can be a predictor of suicidal behaviour (Twenge et al., 2018; Sedgwick et al., 2019):

Table 1. Reception of programs and news three months after the complete quarantine of COVID-19 reported by respondents in Colombia

Factors and indicators of average reception in the context of the COVID-19 pandemic	Frequent/very frequent total reception	Correlation coefficient (r) Tau-b Kendall between receptio and levels of suicidal ideation						
Audiovisual reception								
I have watched series or movies by streaming	65.6%	010						
I have watched a variety of programs on television	53.1%	053						
I have watched cultural or educational television programs	50.0%	066						
I have watched comedy programs on television	48.8%	073						
I have watched television programs that promote or strengthen the spiritual life	30.9%	171*						
I have watched reality shows on television	29.2%	133*						
Journalistic reception of the pandemic								
I have watched general journalistic coverage on social networks	86.2%	.048						
I have watched news recommendations and measures that must be followed to stop COVID-19	81.5%	011						
I have watched the news about the number of deaths from COVID-19	78.0%	.225**						
I have watched the news about the increase in cases of contagion of COVID-19	77.2%	.197*						
I have watched positive news about the recovery of patients with COVID-19	63.2%	091***						
I have watched the news about people who have not yet been infected	54.8%	.042						
I have watched the news about vaccines and other medical advances against COVID-19.	50.6%	.096						
Journalistic reception of suicides								
I have watched the news about suicide cases	34.8%	.182**						
I have sought or accessed information in the media about suicide cases	21.6%	.272***						

Source: own elaboration. *p < .05; **p < .01; ***p < .001

The findings of this table show novel aspects that allowed us to confirm the two proposed hypotheses. The correlations between the media reception factors and the levels of suicidal ideation (high, moderate and low) essessed in a general were performed by applying the Tau-b Kendall test since the data of both variables do not have a normal distribution.

The descriptive data on total frequent reception reveal that in the audiovisual field, series and movies viewed through digital media stood out as the programs most consumed by the participants in this study. However, these programs did not influence suicidal ideation in the period analyzed. In contrast, within the audiovisual field, entertainment programs such as reality shows (r = -.133; p < .005), and programs that emphasize spiritual life (r = -.171; p < .001), were associated with a significant decrease in suicidal ideation. For this analysis, the correlation coefficients shown in Table 1, labeled with asterisks to indicate that the relationship obtained was statistically significant, were taken into account. Normally, correlations in this type of study are relatively low due to the complex and multicausal nature of this problem.

Within the journalistic field, it was found that intentionally accessing information about suicides (r = .272; p < .001) or receiving news that emphasizes the negative impact of the pandemic in terms of the number of deaths (r = .225; p < .001), and increase in cases of contagion (r = .197; p < .01), and suicides (r = .182; p < .001), is associated with a significant increase in suicidal ideation. However, the news that positively highlighted the number of people recovering from COVID-19 (r = .091; p < .001) was associated with a significant decrease in suicidal ideation.

3.2. Media predictors of suicidal ideation

To determine how much media reception explains the generation of suicidal ideas in this pandemic, a binary logistic regression analysis was performed and the high level of suicidal ideation was chosen as a dependent variable, which was recorded with 1 and the other levels (low and medium) with 0.

Table 2. Significant predictors of the high level of suicidal ideation three months after the total quarantine of COVID-19 reported by respondents in Colombia.

Factors and indicators of media reception	В	Standard error	Wald	df	p-value	Exp(B)	
Audiovisual reception							
Receiving programs that promote or strengthen the spiritual life.	243	.100	5.86	1	.015	.784	
Journalistic reception of the pandemic							
Receiving negative news about the number of deaths from coronavirus	.511	.208	5.99	1	.014	1.66	
Journalistic reception on suicide							
Seeking or accessing information in the media about cases of suicide (intentional reception)	.464	.133	12.24	1	.000	1.591	

Source: own elaboration

The data in Table 2 allow us to establish, when reviewing the values of the coefficients of the binary logistic regression model, that the frequent watching of news about the number of deaths by COVID-19 (B = .511; p = .014; degrees of freedom = 1) is the journalistic approach that most as a risk predictor of a high level of suicidal ideation. The search for intentional access to information in the media about suicide cases (B = .464; p = .000; degrees of freedom = 1) is the second predictor of risk that significantly increases high suicidal ideation.

The risk was lower when subjects were exposed to programs that promote or strengthen the spiritual life. This predictor was the only indicator of audiovisual reception that contributed significantly to the decrease in high suicidal ideation (B = -.243; p = .015; degrees of freedom = 1). At a general level, audiovisual and journalistic reception with their respective evaluated indicators explains 21%

 (R^2) of the total variance of suicidal ideation in this context. In the case of the three significant predictors found, their ability to influence high suicidal ideation oscillates between 3.7 (Cox and Snell R^2) and 5.1% (Nagelkerke's R^2).

A moderated mediation analysis was applied using the macro process created by Hayes (2017) to analyze whether the mental and physical health background of the participants intervene in the relationship between media reception and suicidal ideation. In this case, 18% of Colombian participants reported having physical and mental health problems before the pandemic, while 32.3% reported having developed these problems during this pandemic. However, the results obtained with the macro process revealed that the physical and mental health history that the participants had before (p = .157; LLCI = .430; ULCI = 2.65) and during this COVID-19 pandemic (p = .504; LLCI = .446; ULCI = .090) did not influence the relationship between suicidal ideation and reception of negative news about this pandemic.

Likewise, the age (which was the sample's quota variable) and physical and mental health problems that the participants reported acquiring during this pandemic did not influence the relationship between suicidal ideation and the reception of news about the number of coronavirus deaths (p = .020; LLCI = -.197; ULCI = .927) and the intention to seek or access information about suicide cases (p = .992; LLCI = -.546; ULCI = .551).

4. Discussion and conclusions

The literature consulted warns of the negative effects on emotions caused by attention-grabbing strategies as a result of hypercompetitiveness and competition between social media and news outlets (Eisenstein & Estefanon, 2011; Patino, 2019; Costa & Capoano, 2020; Rodrigues et al., 2022). In that sense, before the COVID-19 pandemic, international studies such as that of Carmichael & Whitley (2019), or in the case of Colombia, that of Gutiérrez-Coba et al. (2017), noted an irregular quality of information when addressing issues related to mental health. Therefore, at a time of great global confusion, in a broad framework of social vulnerability (Da Silva & de Lucas, 2020; Manzar et al., 2020) and infodemic, it seems difficult to assume that media content will be effectively anchored to the same advice characterized by the World Health Organization (2017).

Faced with a subject as complex as that of the suicidal act, the results presented in this study on the high levels of suicidal ideation found, alert the concern that these levels may continue to grow during and after this health crisis. For this reason, mental health is an issue that should be given greater attention at this time in Colombia and in the world, even more so because suicidal ideation is one of the risk factors for the consummation of the act, as stated by Nobile et al., (2021). Likewise, the relationship found between suicidal ideation and media reception support what was emphasized by Lois et al. (2018) and Wasserman et al. (2020), the narrative of the media can help to transform the perceptions of people, even more so in times of a generalized crisis such as that of COVID-19.

Regarding media reception, online platforms can be constituted as interactive spaces to build support communities and provide more information, as highlighted by institutional sources (Ministerio de Sanidad, Política Social e Igualdad, 2020). Offering healthy advice, promoting sports practices, communicating the help offered by the mental health system, or family support networks are usually some recommendations that help protect people from suicidal ideation (Martínez & Robles, 2016). It is also very important to regulate social networks to involve them more in these public health issues (Ministerio de Sanidad, Política Social e Igualdad, 2020), as they can also be part of a complex solution. In this way, the problem of the lack of intermediation that occurs on these platforms can be solved (Rodrigues & Araújo, 2022). This situation differs in traditional media due to the active intervention of journalists.

At this point, as the first contribution of this study, we found an interesting conclusion based on confirming the nuances related to H1, where exposure to audiovisual entertainment programs contributed to lowering suicidal ideation in respondents in Colombia in the COVID-19 pandemic context. These nuances allude to the type of entertainment program that the respondents acknowledged having consumed frequently or very frequently, watching programs that promoted or strengthened the spiritual life – within this episode of large-scale public health crisis – helped to diffuse suicidal ideation by establishing, probably, a fundamental accompaniment and by giving reasons to live when facing a moment of high uncertainty. In this sense, programs with content that emphasized psychological and spiritual well-being are considered a protective factor, following the reasoning of Moscardini et al. (2021) and Martínez & Robles (2016). But, of course, these programs are not isolated from other protective factors. Likewise, some studies such as Twenge et al. (2018) have shown a positive relationship between non-screen-mediated activities - such as physical exercise or cultivating spiritual life- and the absence of disorders such as depression.

On the other hand, previous literature assures that there is a close relationship between suicide news and the increase in suicides among the population (Sinyor et al., 2018; Niederkrotenthaler et al., 2020), except in those cases where a negative construction of suicide is shown (Stack, 2005). Therefore, this narrative can effectively serve as a deterrent, provided it is accompanied by other protective factors, such as institutional or psychological help. Similarly, authors such as Twenge et al. (2018) point out the link between screen time and depressive symptoms. Our results, following this line, confirm that both exposure to negative news about the pandemic and intentional access to news about suicide positively reinforced the suicidal ideation of the respondents, which is the first indicator of a potentially suicidal act (Castro et al., 2014; Sedgwick et al., 2019). Thus, H2 is confirmed, showing the link between the impact of negative news regarding the pandemic and the increase in suicidal ideation in the time frame and with the type of respondents chosen.

The findings obtained at the journalistic level, suggest that this COVID-19 pandemic possibly contributed to exacerbating the mood, hopelessness and risk of death that has been present in this violent context in Colombia. The reason for this can be supported by the copycat effect (Carmichael & Whitley, 2019), motivated by the lack of reasons or will to live (Moscardini et al., 2021) in a moment of generalized isolation and anxiety. Although it is important to point out that although psychological factors or problems, such as depression, are involved in suicidal ideation, as suggested by Barzilay & Apter (2014) and Nobile et al. (2021), in our study age and physical and mental health did not influence the relationship between suicidal ideation and the receipt of information about human losses by suicide or as a consequence of the coronavirus. This indicates that the effect of the media on this problem does not depend so much on health conditions, but also on how the participants assumed or gave meaning to the content and information received.

In conclusion, the way in which a pandemic and suicide cases are journalistically covered influences suicidal ideation. Both reception of negative news about the number of deaths from coronavirus, as well as the intentional search for or access to information in the media about suicide cases, acted as risk predictors of suicidal ideation. Conversely, the reception of programs that promoted or strengthened spiritual life was a protective factor against suicidal ideation. Exposure to audiovisual entertainment programs could help lower the levels of suicidal ideation in contexts of a health crisis, as long they emphasize the support networks and the reasons for living that are present in the programs that promote spiritual life.

The results obtained at a general level urge journalists and audiovisual companies not to lose sight of the social responsibility of the media and more so in the context of a health crisis such as the one suffered by COVID-19. In this sense, it is important to reflect on the type of information that is produced in this context and how it can contribute to public health and help citizens make better

decisions regarding the care measures that must be adopted to face this crisis. Although this pandemic has indeed been a school of learning for everyone, including journalists, this does not exempt them from training in public health issues to learn how to cover this type of crisis with greater social responsibility. Likewise, knowledge of the basic terminology at the epidemiological level is required to understand the pandemic (Garcés-Prettel et al., 2021). Journalists and communicators in general should take more into account the recommendations of the World Health Organization (2005), which has been offering guidelines to the media on how to avoid panic, without generating false security or transparency, when reporting on security measures and precautions to take during a pandemic.

This study is not without limitations. The first limitation refers to the extraction of the data: it would be interesting to be able to compare the result with a longitudinal perspective. Almost a decade ago, Muñoz & Sánchez (2013) urged the need to initiate studies that explore the influence of the media on the so-called "autolytic behaviours" in Colombia. Since then, the truth is that very few studies on this phenomenon have been published in the Andean Republic. Another limitation of the study has to do with not having been able to extract a balanced proportion in the participation of men and women in the sample, which justifies that future studies analyze the relationship between suicide and media reception from a gender perspective.

Therefore, this study, although it does not allow us to draw a comparative exercise with the situation before COVID-19, does help to understand and explain some predictive factors of suicidal ideation as a function of media reception. In the future, it would be convenient to analyze the phenomenon taking into account specific variables, such as gender, social ties, interpersonal communication and intrafamily relationships, which may intervene in the relationship between suicidal ideation and media reception, especially in children and adolescents.

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