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Not peer-reviewed version

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[Calogero Lo Destro](#) * and [Alberto Costa](#)

Posted Date: 4 July 2023

doi: [10.20944/preprints202307.0240.v1](https://doi.org/10.20944/preprints202307.0240.v1)

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Article

Effects of Locomotion Regulatory Mode on COVID-19 Anxiety: The Mediating Role of Resilience

Calogero Lo Destro ^{1*} and Alberto Costa ¹

¹ Niccolò Cusano University, Department of Psychology, Rome, Italy; alberto.costa@unicusano.it

* Correspondence: calogero.lodestro@unicusano.it

Abstract: The COVID-19 pandemic has exerted a significant impact on mental health globally. The uncertainty, fear, and stress associated with this crisis have contributed to a heightened prevalence of anxiety, depression, and various other mental health disorders. In this scenario, the present study aimed at investigating the relationship between locomotion regulatory mode, resilience, and COVID-19 anxiety. It is worth noting that previous extensive research has established a significant correlation between high levels of locomotion and diverse positive psychological conditions, such as optimism, reduced hopelessness, and positive affect. A total of 243 participants completed measures of locomotion regulatory mode, resilience, and COVID-19 anxiety. In line with our hypotheses, individuals' locomotion regulatory mode was negatively, although non significantly, associated with COVID-19 anxiety. Furthermore, resilience was found to mediate the relationship between locomotion regulatory mode and COVID-19 anxiety, indicating that individuals displaying high locomotion may be better equipped to cope with the stress and uncertainty of the COVID-19 pandemic due to their greater levels of resilience. Taken together, these findings highlight the importance of considering both locomotion and resilience in managing anxiety related to COVID-19 and suggest that interventions aimed at enhancing resilience may be beneficial particularly for individuals with low locomotion regulatory mode.

Keywords: Locomotion; regulatory modes; resilience; COVID-19; COVID-19 anxiety

1. Introduction

A coronavirus infection that first emerged in Wuhan, China, is responsible for the respiratory illness known as COVID-19, which has quickly spread across the globe.

As of June 19, 2023, according to the World Health Organization official website, 767.984.989 confirmed COVID-19 cases have been reported [1]. In Italy, the total number of cases registered as positive is more than 25 million, with 190.706 deaths [2].

Italy was the first country in Europe to experience the impact of COVID-19 and has had one of the highest clinical burdens compared to other countries [3].

In March 2020, Italy was also the first country to enforce a nation-wide stay-at-home order to mitigate the spread of the virus. This lockdown confined over 60 million people within their homes for almost three months.

The COVID-19 pandemic and the subsequent implementation of lockdown measures have exerted a significant influence on the mental health and psychological well-being of individuals not only within Italy but also across the globe. In this vein, the literature [4] has widely documented a worldwide increase in the incidence of psychiatric disorders. Specifically, the COVID-19 pandemic has profoundly affected individuals' psychological well-being, leading to an increase in anxiety, fear and distress [5–7]. The pandemic has disrupted individuals' daily routines, resulting in emotions of powerlessness and seclusion [8]. Multiple studies [9,10] have demonstrated that the fear of contracting the virus, the loss of loved ones, and financial instability were the most contributing factors to elevated levels of psychological distress.

Therefore, the heightened levels of concern for personal health and economic consequences, along with increased levels of stress and a reduction in alternative activities, have significantly affected people's lifestyle habits.

1.1. COVID-19 anxiety predictors

Although the long-term effects of the pandemic on mental health are yet to be fully understood, it has become increasingly clear that the psychological aftermath of COVID-19 will continue to be a significant public health issue for years to come.

For this reason, it appears crucial to ascertain the primary factors involved in the development of anxiety related to COVID-19. Research [11] has shown that perceived threat of the virus, encompassing apprehensions regarding virus contraction, the gravity of the illness, and the potential repercussions at both individual and societal levels, indeed play a significant role in this regard. Other predictors include financial concerns, social isolation, loneliness, pre-existing mental health conditions, and exposure to misinformation or conflicting information about the pandemic [12–14]. Additionally, demographic factors such as age, gender, and ethnicity have been found to influence the level of anxiety experienced during the pandemic [15,16].

1.2. Resilience and anxiety

On the opposite hand, psychological resilience, coping behaviors and social support have become crucial tools in managing COVID-19 impact on mental health in healthcare workers [17,18], in hospitalized patients [19] and in the general population [20]. In particular, the relationship between resilience and anxiety has been extensively studied in the scientific literature. Resilience can be defined as the ability to adapt to stress and adversity and bounce back from difficult situations [21], whereas anxiety can be generally considered a psychological state characterized by feelings of apprehension, worry, and fear [22]. Research [23,24] has demonstrated that individuals who display high levels of resilience tend to have lower levels of anxiety, as they are better able to cope with stress and challenges. Conversely, those with lower levels of resilience tend to experience higher levels of anxiety in response to stressors. Thus, resilience may serve as a protective factor against anxiety and other negative mental health outcomes [25,26] and interventions aimed at increasing resilience may be effective in reducing anxiety symptoms [27].

In recent studies conducted during the COVID-19 pandemic, researcher [28] have revealed a negative association between resilience and anxiety among physicians. Similar findings have been obtained in a Chinese sample of patients experiencing COVID-19 symptoms [29]. Specifically, these results indicated that resilience was inversely related with anxiety, serving as a protective factor against its development. Similarly, among the general population, it has been found that resilience negatively predicted COVID-19 anxiety and this relationship was mediated by persistent dysfunctional thinking about COVID-19 [30]. Furthermore, it has been shown [31] that individuals exhibiting higher levels of resilience, as opposed to those with lower levels, demonstrated a reduced susceptibility to the perceived threat of COVID-19, resulting in lower levels of future anxiety.

Locomotion regulatory mode

1.3. Locomotion regulatory mode

Taken together, these findings highlight the extensive research conducted to examine the influence of risk and protective factors in relation to psychological distress and anxiety associated with the pandemic. Nevertheless, the role of regulatory modes in this context remains largely unexplored to date.

Based on the regulatory mode theory proposed by [32], there are two regulatory mode orientations, namely assessment and locomotion. The present paper primarily focuses on the locomotion mode, which is defined as the self-regulatory aspect that involves transitioning from one state to another and directing psychological resources towards initiating and maintaining progress towards goals with minimal interference or delay. Individuals with high levels of locomotion mode are inclined to prioritize rapid action and uninterrupted movement, rather than engaging in critical appraisal, as suggested by [33].

Research has established a positive association between high levels of locomotion and various positive psychological states, including optimism, increased self-esteem, achievement orientation,

positive affect, and psychological well-being [32,34]. High levels of locomotion are also associated with increased job satisfaction, work engagement, and workaholism[35–38].

On the other hand, locomotion has also been negatively associated with social anxiety and depression [32]. In addition, it has been demonstrated that individuals with high levels of locomotion tend to exhibit lower levels of hopelessness, psychological strain, stress, burnout, turnover intentions and withdrawal behaviors [36,39,40].

Furthermore, locomotion has found to be positively associated with harmonious passion, which, in turn, is linked to better psychological adjustment and less stress in the workplace [41]. Likewise, within the realm of sports, the locomotion regulatory mode has been identified as a predictor of harmonious passion, leading to a subsequent reduction in athletes' stress levels [42].

Finally, when examining the predominance of regulatory mode (determined by subtracting assessment from locomotion scores), it has been observed as a predictive factor for work-related stress in a two-wave longitudinal design [43].

1.4. Locomotion and resilience

Locomotion can be considered a significant empowering element and predictor of positive affect that supports the resilience process [44]. This association can be explained by the inclination of individuals with such regulatory mode to prioritize progress and movement, consequently reducing their propensity to ruminate on negative aspects of their past or present circumstances [45].

More in details, research has identified locomotion orientation as a significant predictor [46] of resilient reintegration, which refers to the coping process involving personal growth, self-awareness, and development of resilient characteristics. In this vein, it has been proposed that when recovery resources are inadequate for the demands of the situation, a negative cycle of increased anxiety levels may occur causing a rupture of the body's homeostasis [47].

Based on previous scientific literature emphasizing internal resources and energy of individuals exhibiting high levels of locomotion [32,42,48,49], it is suggested that resilience is fostered through the resources of individuals who are proactive and maintain a steadfast focus on their goals. Therefore, this mechanism is expected to effectively contribute to preventing the escalation of anxiety.

In line with these notions, we hypothesize that locomotion should be positively related to resilience, whereas it should be negatively associated with COVID-19 anxiety. Furthermore, it is hypothesized that locomotion effect on COVID-19 anxiety could be mediated by individuals' resilience.

2. Materials and Methods

2.1. Participants

Two hundred and forty-three participants (44 males) were recruited using snowball sampling. Participants were thoroughly informed about the study and provided informed consent for the anonymous use of their data. They completed a web-mediated survey on a voluntary basis and did not receive any compensation in exchange for their participation. The original sample consisted of 262 participants, but 19 of them were excluded from further analysis as they failed to provide a correct response to a control question. Participants' mean age was 31.24 ($SD = 10.92$). 6.6% of participants held a post-graduate specialization, 37.9% held a university degree, 55.1% held a high school degree and 0.4 % held a middle school diploma. The study was conducted in accordance with the Declaration of Helsinki.

2.2. Procedure and Materials

The survey, firstly, consisted of several questions about socio-demographic data. This was followed by a second section concerning Covid-19 information, locomotion regulatory mode, and resilience. Lastly COVID-19 anxiety was measured.

COVID-19 Vaccination. Participants had to respond to a question regarding their COVID-19 vaccination status. They were required to indicate whether they had received a COVID-19 vaccine by selecting either the response option "yes" or "no".

COVID-19 Infection. Participants were instructed to respond to an inquiry regarding COVID-19 infection, in which they were required to select one of three options: "yes" "no", or "do not know" to indicate whether they had contracted COVID-19 in the past month. Subsequently, to facilitate additional analyses, the responses "no" and "do not know" have been combined.

Locomotion Scale. The Italian version of this scale, as designed by [32], contains 12 self-reported items aimed at evaluating the differences in locomotion tendency among individuals. Specifically, respondents rate the extent to which they agree with self-descriptive statements, both in positive (e.g., "I enjoy actively doing things, more than just watching and observing.") and negative wordings (e.g., "When I finish one project, I often wait a while before getting started on a new one."). The responses were recorded on a 6-point Likert scale, ranging from "strongly disagree" (1) to "strongly agree" (6). The negative statements were reversed before analysis, and a final score was determined by taking the average of all responses. In this sample, Cronbach's α for the locomotion scale was .80 ($M = 4.74$, $SD = .63$).

Resilience. The Brief Resilience Scale [50] consists of six items that are designed to assess an individual's level of resilience. The scale features three positively worded items and three negatively worded items. An example of positive item is "I tend to bounce back quickly after hard times." Conversely, an example of negative item is "I have a hard time making it through stressful events." Participants were asked to rate their agreement with each of the six statements using a 5-point Likert scale, ranging from 1 (strongly disagree) to 5 (strongly agree). In the present sample, Cronbach's α was .87 for the resilience scale ($M = 3.15$, $SD = .81$).

Covid anxiety scale. COVID-19 anxiety scale [51] was developed to assess COVID-19 related anxiety. The scale is composed of 7 items designed to assess individual differences. Specifically, participants had to rate the extent to which each item (e.g., "I feel heart racing when I read about COVID-19") reflected their behavior in the last days. The responses were recorded on a 4-point Likert scale, ranging from 0 (not applicable to me) to 3 (very applicable to me). In this sample, Cronbach's α was .92 ($M = .66$, $SD = .67$).

3. Results

Out of the total 243 participants, 13 reported that they had not received anti-COVID-19 vaccination. Additionally, only 8 participants reported with certainty that they had contracted COVID-19 within the past 30 days.

3.1. Correlation analyses

Table 1 presents correlations between the study variables. As can be seen, there is a positive and significant correlation between locomotion and resilience. On the other hand, COVID-19 anxiety was negatively related with resilience and with gender (females exhibited a higher level of COVID-19 anxiety in comparison to males).

Table 1. Correlations between variables

	1	2	3	4	5	6	7	8
1. Gender	(-)							
2. Age	.04							
3. Education	-.09	.26**						
4. COVID-19 Infection	-.09	-.08	.15*					
5. COVID-19 Vaccination	.02	.05	-.01	.16*				
6. Locomotion	-.14*	.16*	.10	-.02	.08			
7. Resilience	.10	.23**	.04	.01	.04	.31**		
8. COVID-19 Anxiety	-.21**	-.15*	-.03	.11	.14*	-.06	-.18**	(-)

¹ Note: ** $p \leq .01$; * $p \leq .05$;

3.2. Regression model

To test the hypothesis that resilience mediated the relationship between locomotion and COVID-19 anxiety, we used the PROCESS macro Model 4 [52], which utilizes the bootstrapping method to extrapolate estimates of direct and indirect effects. Following the recommendation of [53], predictor variables were centered. Gender (dummy coded as Male = 0 and Female = 1), age, education, COVID-19 vaccination (dummy coded as No = 0 and Yes = 1) and COVID-19 infection (dummy coded as No and Do not Know = 0 and Yes = 1) were entered as control variables. A summary of the results of these analyses is reported in Table 2.

Table 2. Summary of the regression models

Title 1	Resilience			COVID-19 Anxiety		
	B	SE	p	B	SE	p
Gender	.27	.13	.035	-.33	.11	.003
Age	.01	.00	.002	-.01	.01	.285
Education	-.04	.08	.586	-.04	.07	.585
COVID-19 Infection	.09	.14	.522	.21	.12	.081
COVID-19 Vaccination	.12	.22	.573	.48	.19	.011
Locomotion	.38	.08	.000	-.04	.07	.558
Resilience				-.12	.06	.038
R ²		.15			.11	

As can be seen, the results showed that locomotion had a positive and significant effect ($B = .38$, $SE = .08$, $p < .001$) on resilience, which, in turn, had a significant and negative effect on COVID-19 anxiety ($B = -.12$, $SE = .06$, $p = .038$). The association between locomotion and COVID-19 anxiety was non-significant when controlling for resilience, indicating that such relationship is fully mediated (See Figure 1). Accordingly, the indirect effect of locomotion on COVID-19 anxiety through resilience was significant ($B = -.04$, $BootSE = .02$; bootstrapping CI = [-.09, -.01]).

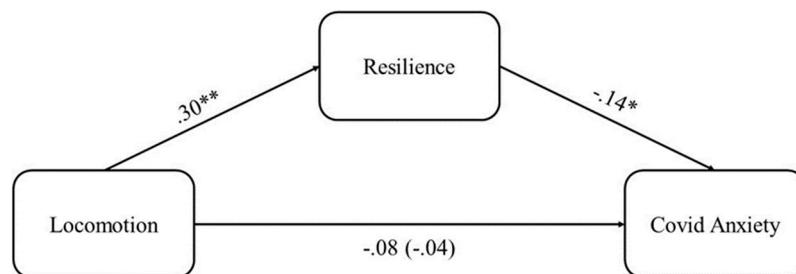


Figure 1. Mediation model. Note: * $p < .05$; ** $p < .01$; Standardized regression coefficients (b) are reported. In brackets, the regression coefficient of the predictor when the mediator was included in the model.

4. Discussion

The COVID-19 pandemic has dramatically changed people's lives worldwide, causing unique levels of anxiety and stress. The long-lasting effects of the virus and its related stressors have made it challenging for individuals to maintain effective coping strategies, leading to persistent psychological challenges for many. In response to such crisis, researchers have been working to investigate the main factors influencing people's ability to be resilient while facing COVID-19 emergency. On the same vein, understanding COVID-19 anxiety predictors seems essential for identifying those most at risk, developing effective interventions to reduce anxiety symptoms and promote resilience during this challenging time.

In this regard, the present study aimed at examining the role of locomotion regulatory mode in the relationship between resilience and COVID-19 anxiety. In line with the hypotheses, this research demonstrated that locomotion regulatory mode was negatively, although not directly, related to COVID-19 anxiety and positively associated with resilience, suggesting that people with a goal-oriented approach to life were more able to face challenging circumstances and less likely to experience anxiety related to the pandemic. Additionally, the study found that resilience was negatively associated with COVID-19 anxiety. This suggests that people who are more resilient are better able to cope with anxiety related to the pandemic.

Importantly, the study found that resilience mediated the relationship between locomotion regulatory mode and COVID-19 anxiety. This means that the positive relationship between locomotion regulatory mode and resilience partially explains why people with a goal-oriented approach to life are less likely to experience anxiety related to the pandemic. In other words, individuals high on locomotion for their nature display high level of internal resources, are proactive and maintain a steadfast focus on their goals. Hence, they are more likely to be resilient and, this helps them to better cope with anxiety caused by the pandemic.

Our findings are consistent with prior research showing an association between locomotion and positive well-being [32,34]. They are also in line with previous works that have demonstrated how personality and motivational dispositions can predict a maladaptive adjustment to stressor in both personal and professional life [54,55]. In this vein, it has been suggested that certain types of individuals are more resilient to chronic stress than are other and locomotion seems to play a fundamental role in this process [46].

Therefore, the present findings provide a unique insight into the basic mechanisms of locomotion regulatory mode by revealing its direct and indirect effects on COVID-19 anxiety. Specifically, this work focuses on locomotion protective role, helping understand how individuals who exhibit locomotion tendencies are equipped to cope with the challenges posed by the COVID-19 pandemic. With this regard, understanding the factors that influence people's ability to cope with the pandemic can help interventions and support strategies to promote resilience and mental health during these challenging times.

Specifically, the peculiarity of locomotion orientation points to the importance of targeting these aspects to alleviate the harmful psychological consequences of COVID-19 pandemic. Since locomotion regulatory mode can be situationally induced [56,57], it could be possible to design health campaigns oriented at inducing locomotion motivation. This approach could be helpful in taking advantage of locomotion strengths to sustain people in finding a more adaptive ways to manage very difficult circumstances (such as a pandemic). More broadly, the present work increases awareness of the strengths and vulnerabilities associated with locomotion regulatory mode orientations in challenging circumstances, allowing people to be prepared for future global crisis.

Several factors limit the generalizability of these findings. Specifically, first aspect is related to the cross-sectional nature of the research that impede longitudinal assumption, allowing only for testing of relationships between predictor and outcomes at a specific point in time. Furthermore, it should be reported the use of a convenience sample (i.e., recruited using snowball sampling) and the imbalance of the sample (i.e., 82% female). Another limitation pertains to the use of self-report measures. In fact, data derived from the same source are potentially subject to common method/source bias. For this reason, it would be beneficial to have, for instance, a physiological measure of anxiety.

Additionally, it should be addressed that such data are limited to responses from individuals living in Italy during a specific phase of the COVID-19 pandemic. With this regard, it is important to note that many aspects of life in Italy have changed during the pandemic. In this vein, we could not be sure the pattern of our results could have been similar in the first phase of the pandemic. However, due to the nature of the relationship and the high level of anxiety experienced at the beginning of the pandemic, it is possible to hypothesize such relationship could be even stronger at that time.

As previously reported, data were collected using a web-mediated survey. Although such procedure may lead to self-selected and potentially biased samples [58], in the case of COVID-19 and

in presence of a scenario changing very quickly it allows to collect data with an extreme rapidity. With this regard, it has also been showed that psychometric properties of online surveys seem to be equivalent to those of paper-and-pencil formats in terms of both internal validity and reliability [58,59].

Yet another limitation of the present research pertains to the lack of assessment mode measure, which do not allow to identify its effects on COVID-19 anxiety and the possible interaction effects with locomotion mode. With this regard, a recent work [60] has highlighted the detrimental impact of assessment regulatory mode vulnerabilities in response to COVID-19 pandemic. Specifically, these vulnerabilities have found to be indirectly linked to heightened psychological distress manifested through fear of missing out, challenges in engaging in activities, and involvement in negative behaviors. Hence, future studies would do well to examine the relationship between both regulatory modes, resilience and COVID-19 anxiety.

5. Conclusions

In conclusion, this work provides valuable insights into the relationship between locomotion regulatory mode, resilience, and COVID-19 anxiety. The findings suggest that resilience mediates the relationship between locomotion and anxiety, highlighting the importance of being resilient when coping with worry and concern caused by the pandemic. These findings have important implications for mental health interventions and support strategies during the COVID-19 pandemic and beyond.

Author Contributions: “Conceptualization, Calogero Lo Destro and Alberto Costa; methodology, Calogero Lo Destro and Alberto Costa; formal analysis, Calogero Lo Destro; writing—original draft preparation, Calogero Lo Destro; writing—review and editing, Alberto Costa. All authors have read and agreed to the published version of the manuscript.”

Funding: This research received no external funding.

Institutional Review Board Statement: The study was conducted in accordance with the Declaration of Helsinki and approved by the Institutional Research Board of the Niccolò Cusano University.

Informed Consent Statement: Informed consent was obtained from all subjects involved in the study.

Conflicts of Interest: The authors declare no conflict of interest.

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