Emotions, social support and positive resources during Covid-19 pandemic: A qualitative-quantitative survey among italian adolescents

Giulia Perasso[°], Grazia Serantoni[°], Carmela Lillo[°], Alessandro Maculan^{*}, Patrizio Paoletti[°], Tania Di Giuseppe[°]

^o Fondazione Patrizio Paoletti,
e-mail: g.perasso@fondazionepatriziopaoletti.org;
e-mail: grazia.serantoni@gmail.com;
e-mail: c.lillo@fondazionepatriziopaoletti.org;
e-mail: patrizio@patriziopaoletti.it;
e-mail: t.digiuseppe@fondazionepatriziopaoletti.org.
* Università di Padova,
Department of Philosophy, Sociology,
Education and Applied Psychology (FISPPA)
e-mail: alessandro.maculan@unipd.it.

Ricevuto: 22.11.2022 - Accettato: 24.07.2023

Pubblicato online: 11.10.2023

Abstract

Covid-19 pandemic had a massive impact on adolescents. The present study illustrates an online survey administered to N = 861 Italian adolescents (mean age = 15.81 years; females 58%), asking them about: (i) the most frequent negative emotions during the pandemic; (ii) the main sources of social support; (iii) whether they had also experienced positive emotions; (iv) in which lifedomains they had experienced positive emotions. The results reveal that adolescents experienced boredom, sadness, fear, and agitation as negative emotions. The respondents reported family, friends and themselves as sources of social support. The main life-domains in which adolescents experienced positive emotions were: new discoveries in self-awareness, inner growth, relational skills. This study highlights that the pandemic has elicited positive resources (e.g., resilience, creativity and generativity) in adolescents, laying the foundations for interventions, in developmental and educational psychology, that are not top-down but bottom-up.

Giulia Perasso et al. / *Ricerche di Psicologia, 2023, Vol. 46* ISSN 0391-6081, ISSNe 1972-5620, Doi:10.3280/rip2023oa16630

Keywords: Covid-19; adolescence; positive emotions; negative emotions; social support; survey

Introduction

The occurrence of stress and anxiety significantly rose as a result of the COVID-19 pandemic (Yao et al., 2020). On a global scale, between January 2020 and January 2021, there was a 27% increase in depressive disorders and a 25% increase in anxiety disorders (Santomauro et al., 2021). Given that adolescence is a crucial period in the emotional, social and identity development of the individual (Crone & Dahl, 2012; Blakemore & Mills, 2014), the COVID-19 pandemic has threatened adolescents' growth process, forcing them to face changes in their daily lives such as distance learning, limited social contact with peers, and being forced to stay at home for extended periods (Green et al., 2021). A study on the analysis of adolescents' drawings by Tishelman et al. (2022) shows that adolescents suddenly found themselves living in a dystopian scenario, where their routines were disrupted, and loneliness and predominantly negative emotions took hold. Pandemic had a shortand long-term impact on the lives of an entire generation of adolescents in terms of negative emotions on a clinical level (e.g., spreading emotional problems such as depression, anxiety, panic, mood fluctuations) (Amorós-Reche et al., 2022), corroborated by data collected from the perspective of the parents (Babore et al., 2022).

Over the past two years, scientific research has attempted to delineate the severity and direction of Covid-19 pandemic's impact on adolescents. The first pandemic wave increased negative emotions in children and adolescents, given the exposure to stressors such as distance learning and increased time spent – obligatorily – with the family (Green et al., 2021). According to Rathgeb et al. (2022), the impact of the pandemic on the level of negative emotions was correlated with age: adolescents suffered more than children. Von Soest et al. (2022) emphasised a decline in optimism and expectations for the future in adolescents, in line with the decline in positive emotions and life satisfaction reported by Shoshani and Kor (2021) and the decrease in perceived happiness documented by Evli and Şimşek (2022).

Another negative aspect, on which many studies have focused, is the massive use of the Internet and social media during the pandemic: given an increase in the screen-time (Evli & Şimşek, 2022), for many children and adolescents, social media represented a means of keeping in touch with peers, maturing appreciation and gratitude towards this form of technology (Maheux et al., 2021). However, studies by Cauberghe et al.

(2021) and Velez et al. (2022) have indicated that social networks cannot really make up for the absence of a face-to-face exchange with peers and in-person experiences, which are fundamental to psychosocial development. Internet use, therefore, should be considered both a coping response during the emergency, but also a risk factor for Internet addiction in the developmental age (Evli & Şimşek, 2022).

Research has also shown that adversity can lead individuals to catalyze their resources. This consists in the development of abilities and resources, benefits, and growth opportunities, related to the pandemic experience (Paoletti et al., 2022a; Bhattacharya et al., 2022). Silk et al. (2022), analysing diary text of teens, state that the pandemic represented a pause from the stresses of contemporary life, offering a time to focus on oneself, and engage in creative and healthy activities.

Adolescence and emotions

During the development, emotion regulation involves complex and continuously evolving processes (e.g., recognition, acceptance, management and organisation of internal and external stimuli) (Zeman et al., 2006). These processes are filtered by different systems: a) physiological, b) cognitive, c) behavioural and d) environmental. In adolescence, the continuous interaction between neuro-physiological substrates and environmental interactions (Ahmed et al., 2015) reinforces emotion regulation. A disruption in this exchange (caused by environmental, relational, familial, etc. stressors), triggers maladaptive emotional regulation processes in the adolescents, and becomes a risk factor for anxious-depressive symptoms characterised by self-blame, catastrophisation, rumination, social withdrawal and anger (Stikkelbroek et al., 2016; Young et al., 2019).

According with these premises and with an awareness of the largescale impact that the COVID-19 pandemic has had and continues to have, recent scientific literature has highlighted how monitoring the emotional health and general well-being of adolescents is a priority to prevent: development of depressive-type psychopathological profiles, poor quality of life, social withdrawal, exposure to bullying episodes, hetero- or self-inflicted aggression, decline in school performance, lowered self-esteem, etc. (Branje & Sheffield Morris, 2021; Robillard et al., 2021; Romm et al., 2021; Gupta et al., 2022; Schunk et al., 2022).

It is also important to note that, when exposed to a risk situation, adolescents have positive resources (e.g., coping strategies, self-efficacy, emotion regulation skills) that can help them manage the emotional difficulties associated with the critical period (Fergus & Zimmerman, 2005). These characteristics are associated with a high level of resilience,

defined as the ability to manage and cope adaptively with adverse events (Luthar et al., 2006). In these terms, an adverse event, such as the Covid-19 pandemic, may have awakened and strengthened the vital resources of those who experience it (Grotberg, 1995; Cyrulnik, 2001), offering people the opportunity to learn about their potential, improving themselves and reprogramming their future (Paoletti et al., 2022a).

Adolescence and social support

Social support results from interpersonal relationships and connections that shape, protect, stimulate and promote individual functioning (Zimet et al., 1988). It is generally provided by people in the family and close-relational circle or by members of society (Barker, 2007). In adolescence social support fosters: (i) the ability to recognise needs and request help, (ii) the development of adaptive coping strategies, (iii) the promotion of self-esteem, (iv) and the prevention of social withdrawal, stress and depression (Dumont & Provost, 1999; Chu et al., 2010). However, as pointed out by Camara et al. (2014), if the social support sources are not perceived by the adolescent as sufficiently aware of their personal history, mature, trustworthy and emotionally involved, they may represent a source of additional stress. This aspect is in line with the scientific literature that has investigated the sources and role of social support in adolescence during the pandemic period (Lisitsa et al., 2020; Kurudirek et al., 2022). During COVID-19 second and first waves, adolescents mainly relied on family members and close friends, rediscovering some ties and strengthening others (also through the use of technologies) to preserve 'normality', fight loneliness, take care of their emotional and mental well-being, and maintain good school performance. (Meng Qi et al., 2020; Permatasari et al., 2021). Social support, in fact, was crucial to strengthen their resilience and adaptive capacities (Campione-Barr et al., 2021; Li et al., 2021).

Crisis and resources

From a theoretical and empirical point of view, positive psychology (Sheldon & King, 2001), emphasizes the importance of the strengths and virtues of human beings in coping with difficulties. A crisis, especially as vast as the global health crisis, can make human beings realize and display exceptional processes and resources, which adversity makes urgent, constituting a real turning point in the lives of individuals (Morin, 2000). When humans do not neglect suffering, crisis allows individuals to reflect on their future, reorganize their resources, catalyze them and reinvent themselves (Paoletti et al., 2008; Paoletti & Selvaggio, 2013, Paoletti et al., 2022a). Therefore, in this study, space will be given

both to the difficulties experienced by adolescents, but also to positive resources of social support, coping, self-awareness, hope and creativity, deployed in the social and historical context of the pandemic and in the phase of the life cycle most important for the definition of identity (Erikson, 1968).

Study Aims

The present study aims to analyse, quantitatively and qualitatively, the emotions experienced by Italian adolescents during the pandemic and the type of social support perceived. Specifically, the study aims to investigate: (i) the most frequent negative emotions experienced by adolescents during the pandemic; (ii) the main sources of social support experienced by them; (iii) whether positive emotions were also experienced by them during the pandemic; (iv) in which life-domains adolescents had experienced positive emotions.

Method

Participants

Eight hundred sixty-one (N = 861) adolescents (58% females; mean age = 15.81 years, SD = 1.89, min = 12, max = 19) took part in the study. The adolescents were secondary school students of first (25%) and second degree (75%). The sample came from all over Italy, with San Benedetto del Tronto (27%), Rome (21%), Oristano (14%) and Acerra (5%) as the cities with the highest participation. The other cities involved in the survey were: Ascoli Piceno, Assisi, Bergamo, Catania, Foggia, Naples.

Measures

The survey has been administered to adolescents online on the Survey Monkey platform, in March 2022. The survey was an *ad hoc* questions tailored to specific research questions or populations (Kazdin, 2013). The first part delves into the emotions of young people in times of adversity; then it focuses on the social resources teenagers have in times of crisis; finally it investigates the contexts of positive emotions that adolescents may have felt during the pandemic crisis. It is important to notice that the survey was created in the framework of positive psychology, aiming at studying the resources that humans can exhibit in times of crisis, without ignoring their sufferance (Sheldon & King, 2001). The survey presented four questions, in the following areas: i. most frequent negative emotions during the pandemic (e.g. "Which emotions did you feel more often during the COVID-19 pandemic?"

with possible answers: Agitation, Irritation, Boredom, Fear, Distrust, Sadness, Upset, Other with possibility to specify); ii. social support sources during the pandemic (e.g., "Who were your main points of reference during the COVID-19 pandemic?" as an open-ended question); iii. presence or absence of positive emotions during the pandemic (e.g., "Did you feel positive emotions during the COVID-19 pandemic?" with answers: Yes vs. No). iv. the fourth question (i.e., reserved for those who answered 'Yes' to question iii.), included a qualitative investigation: participants were asked to specify which positive emotions they had felt and in which context (e.g. 'In which context did you feel positive emotions during the COVID-19 pandemic?').

Procedure

The research project, developed by the Research Institute for Neuroscience Education and Didactics (RINED, Fondazione Patrizio Paoletti) in collaboration with the University of Padua, was co-founded by Fondazione Mediolanum Onlus and approved by the Ethics Committee of the University of Padua (file: 2020-III/13.41.10). Fondazione Patrizio Paoletti created a series of regional online conferences to present the research project, during the second pandemic wave (April 2021-February 2022). The online conferences were addressed at teachers and school principals who had participated in Fondazione Patrizio Paoletti's courses and webinars of continuing training – accredited by the Italian Ministry of Education, University and Research. After informed consent was provided to the families (administered by the schools participating in the research), the students of the schools were administered the survey (March 2022).

Analytic Plan

For the study a mixed method approach has been used since combining qualitative and quantitative methods can provide a more comprehensive understanding of complex psychological phenomena (Hanson et al., 2007). The results of the qualitative-quantitative survey were analysed: (i) quantitative data with descriptive statistics using IBM Statistics SPSS Software Version 25 (2017); (ii) qualitative data following the guidelines of the Consensus-Based Checklist for Reporting of Survey Studies (CROSS) (Sharma et al., 2021). Text analysis was performed by first identifying the most recurring themes and then coding the emerging common categories (Braun & Clarke, 2006).

Results

The negative emotions felt most frequently by the respondents during the pandemic were boredom (29%), sadness (14%), fear (9%) and agitation (8.9%) (Table 1). Fourteen percent (n = 69) marked the option 'Other', specifying that they felt bewilderment, anger, uncertainty, grief, apathy, anxiety, and distress.

Response options	Frequency (n)	Frequency (%)
Agitation	68	8
Irritation	56	6
Boredom	258	30
Fear	69	8
Defeat	57	7
Sadness	114	13
Turmoil	70	8
Other	118	14
Missing	51	6

Tab. 1 - Negative emotions of adolescents (N=861) during Covid-19 pandemic

The main sources of social support were family members (31%), friends (29%) and themselves in first person (22%) (Table 2). For this item, the survey had no optional answers, leaving the respondent free.

panaenne		
Responses	Frequency (n)	Frequency (%)
Friends	548	29
Online Friends	121	6
Family	587	31
Teachers	47	3
Myself	413	22

Tab 2 - Social support sources of adolescents (N=861) during Covid-19 pandemic

89

Sport Coach	29	2
Religious Figures	25	1
Physicians	10	1
Psychologists and Counsellors	67	7
Nobody	8	1
Partner	15	1
God	1	0
Grandparents	2	0
Uncles	1	0
Other	8	1

When asked to indicate whether or not they had experienced positive emotions during the pandemic, 42% of participants answered 'Yes', 58% of participants answered 'No' (Table 3).

Tab. 3 - Adolescents' answers (N = 861) to the question "Did you feel positive emotions during the pandemic?"

Response Options	frequency (n)	frequency (%)
No	492	58
Yes	369	42

Three hundred and sixty-nine 'Yes' respondents answered the openended question 'In which context did you feel positive emotions during the pandemic?'. These answers were analysed qualitatively, deriving 10 semantic categories (Table 4) – which can be consulted in the coding tree (Figure 1) – that explain in which area of life the young people felt positive emotions: (1) "Self-awareness/Personal growth" (32% respondents) (2) "Relationships: Family" (33% respondents), (3) "Relationships: Friends/Partners"(25% respondents), (4) "Appreciation and Enjoyment" (31% respondents), (5) "Gratitude and Hope" (13% respondents), (6) "Empathy and Sense of Common Humanity" (6% respondents), (7) "Self-care" (13% respondents), (8) "Contact with

90

Nature and Animals" (4% respondents), (9) "Technology for Communication" (9% respondents), (10) "Pandemic Period as Opportunity" (2% respondents); 6.5% of the responses were unclassifiable. The categories identified underwent content analysis, tagging and thematic analysis (Figure 1 and Table 5).

Category	Frequency (n)	Frequency (%)
Self-awareness/Personal growth	121	32,79
Relationships: Family	124	33,60
Relationships: Friends/Partners	94	25,47
Appreciation and Enjoyment	117	31,71
Gratitude and Hope	49	13,28
Empathy and Sense of Common Humanity	23	6,23
Self-Care	51	13,82
Contact with Nature and Animals	16	4,34
Technology for Communication	36	9,76
Pandemic Period as Opportunity	9	2,44
unclassifiable	24	6,50
Total	369	100

Tab. 4 – Categories emerged from the thematic analysis of the text

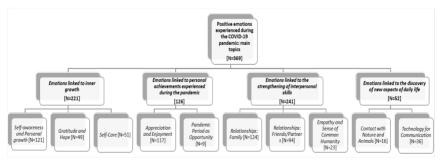


Fig. 1 – Coding tree of the categories identified through content analysis, tagging and thematic analysis open-ended responses from N = 369adolescents [N = number of interviews/topic occurrence]

Discussion

Negative Emotions, Positive Emotions, Social Support

Investigating adolescents' biopsychosocial health is crucial as they represent the future of mankind (Kuntsche & Ravens-Sieberer, 2005). The survey data show that, during the pandemic, adolescents experienced negative emotions more frequently than positive emotions in line with the decrease in individual happiness documented by Evli and Şimşek (2022). Among the negative emotions reported by adolescents, boredom is predominant and possibly linked to a feeling of existential emptiness as shown in the study by Hartoyo and Wijaya (2022). The prevalence of sadness and agitation is in line with studies that show, at a clinical level, the growth of depressive and anxious symptoms among adolescents during the pandemic (Amorós-Reche et al., 2022; Babore et al., 2022). Moreover, the spread of fear probably relates to contagion, a specific fear that became prevalent among adolescents (Panda et al., 2021), risking to compromise adolescents' health, leading them to reduce physical and outdoor activities (Cummings et al., 2022).

In the present study adolescents' perceived social support, operationalised as a multidimensional (Zimet et al., 1988), is also investigated. Adolescents report relying on family to manage negative emotions and stresses related to the pandemic. Although adolescence represents a phase of individuation and separation from the family nucleus, it still constitutes – for the majority of them – a safe base for proximity and socio-emotional comfort during adversity (Garmezy & Masten, 1994; Nickerson & Nagle, 2005), as well as a protective factor against risk behaviours (Perasso et al., 2020; Perasso et al., 2021). Similarly, peers represented a key social resource to manage stress, even if the contact was mediated by technology (Maheux et al., 2021; Cauberghe et al., 2021; Velez et al., 2022), in line with the literature emphasising the importance of the peer group to support the identity construction process (Erikson, 1968: Nickerson & Nagle, 2005). In the results of the present survey, a large subgroup of adolescents reports having relied on themselves, seeing themselves as a social resource: the response is in line with Silk et al. (2022) research, where the pandemic is portrayed by some adolescents as an opportunity for self-discovery.

Life domains related to adolescents' positive emotions

The categories identified through content analysis and thematic analysis of the open-ended answers given by a subgroup of adolescents (the participants who reported, who reported having experienced positive

emotions) allows an in-depth examination of important topics, that are related to prevention, and educational and clinical intervention (Figure 1 and Table 5).

Adolescents have reported that, during the pandemic, they were able to nurture inner growth through a greater awareness of their emotions and their management, in order to control the situation's impact on a physical, social, emotional and psychological level (Bathia, 2020; Kazi & Mushtag, 2021). Adolescents described themselves as more mature and aware, ready for new challenges (González-Valero et al., 2020). This greater self-awareness and the greater time spent taking care of oneself may represent, a protective element against impulsive behaviour, depressive symptoms and addictive behaviour (especially from the new technologies, which are so useful for maintaining contact with one's relational circle but equally dangerous in terms of the risk of alienation) (Bermejo-Martins et al., 2021; Diotaiuti et al., 2022). Other aspects, linked to the positive emotions experienced, such as hope, gratitude and appreciation for the small things of everyday life and a sense of security, emerged in the literature as fundamental psychological resources for coping with and adapting to the changes imposed by such a stressful period as the pandemic (Pellerin & Raufaste, 2020; Pigaiani et al., 2020). Adolescents seem to have seized the period of restrictions imposed not only as a loss of freedom but as an opportunity to reflect on difficult relationships - especially at school and among peers - and as a chance to experience a new sense of security, a new, more protected environment in which they do not feel judged and can grow. However, this aspect must be monitored to prevent social withdrawal (Almeida et al., 2021).

Relationships with family, friends and the self also represented fundamental sources of joy, appreciation, gratitude. Although the literature has focused mainly on negative emotions and their consequences (Tugade & Fredrickson, 2004), positive emotions are associated with greater life satisfaction and fewer depressive symptoms (Quoidbach et al., 2010; Gentzler et al., 2016).

Plus, during the pandemic, positive emotions predict individual resilience (Israelashvili et al., 2021). According to Romm et al. (2021), positive emotions can be a protective factor for adolescents towards the negative consequences of COVID-19 and can be increased with specific educational programmes as described by Mesuardo et al. (2022) and Datu et al. (2022). During the pandemic, perceiving emotional closeness to family and friends was associated with more frequent positive emotions in adulthood (Brown & Greenfield, 2021) and in the elderlies (Cavallini et al., 2021). Similarly, the present study states that positive emotions were experienced by adolescents in their relationships with

family and friends, the two socioemotional extremes where, in adolescence, a balance is needed between the search for attachment proximity and the need to explore the world (Nickerson & Nagle, 2005).

Moreover, some adolescents reported experiencing positive emotions related to seeing daily life in a new way, during the period of pandemicrelated restrictions, through a re-discovery of the resources available in the home environment (Rogers et al., 2021). As some research reports, digital technologies for communication and virtual encounters can promote a greater perception of social support, associated with fewer feelings of loneliness, boredom and anger and a greater sense of belonging, ensuring the maintenance of meaningful social relationships even during an extreme situation such as isolation (Pedrosa et al., 2020; Gabbiadini et al., 2020). Quarantine therefore did not reduce young people's empathy and sociability (Commodari et al., 2020). Some adolescents report that they also made new friends, expanding their network of relationships and cultivating it over time. Online gaming was also found to be socially significant and alleviated emotional distress during isolation (Giardina et al., 2021).

Plus, some adolescents reported that during this period they experienced more contact with nature through walks and activities in the green spaces near home. According to a recent study, during the restriction period, emotions were found to be more positive among people who had accessible outdoor green spaces (Pouso et al., 2021). Furthermore, exercise, walking and gardening are among the activities associated with greater benefits on emotions (Lades et al., 2020). The interaction with pets was also associated with positive emotions, in line with evidence on the benefits of the contact with animals for social behaviour, interpersonal interactions, mood, and stress management (Beetz et al., 2012).

All these resources, from different life domains, highlight the heterogeneity of post-traumatic growth patterns and resilience profiles that other studies have pointed out (Zhen & Zhou, 2022; Dvorsky et al., 2021). The present study shows that adolescents, during the COVID-19, pandemic demonstrated increased self-awareness, positive emotions, and strengthened social connections, a renewed interest for nature, which contributed to protect and foster their emotional wellbeing. The study supports the notion that crises, such as the global health crisis caused by the Covid-19 pandemic, can serve as catalysts for individuals to tap into exceptional processes and resources, constituting turning points in their lives (Sheldon & King, 2001; Morin, 2000; Paoletti & Selvaggio, 2013; Paoletti, 2008; Paoletti et al., 2022a). Given the multiplicity of post-traumatic growth and resilience profiles of adolescents (Zhen & Zhou,

2022; Dvorsky et al., 2021), the present research emphasizes the need for interventions (Perasso et al., 2023) in developmental and educational psychology that focus on promoting positive resources in different life domains. By recognizing and nurturing these strengths, psychologists, educators, teachers, and parents, can support adolescents in navigating future crises and promoting their overall well-being and development.

Limits and Future Directions

Limitations of the study include the use of survey constituted by selfreport items, that according to Dicken (1963), can cause social desirability bias in the respondent; this was possibly buffered by the anonymity of the compilation. The methodology did not include a longitudinal perspective (McCall, 1977; Ferrer & McArdle, 2010) because the focus of the study was on the height of the pandemic emergency, as a present event at the time of the research. It is suggested to future studies on the effects of the pandemic to adopt a longitudinal assessment and follow-up.

Another limitation of the research is the lack of face to face interviews and focus groups to investigate the emotions of the adolescents: the implementation of further qualitative methods was hindered by the pandemic restriction and by the extended number of participants. Moreover, no qualitative investigation has been conducted on negative emotions. In fact, since a large body of studies have focused on young people's negative emotions during the pandemic (e.g., Amorós-Reche et al., 2022; Babore et al., 2022), the present work wished to focus instead on positive emotions, which have been less investigated in the literature.

In fact, to date, most studies on the effects of the pandemic mainly examine the risk factors for the individuals' health, while there are still few studies that explore the resources and factors that promote positive coping with the negative effects of the pandemic (Paoletti et al., 2022a).

The present research results provide useful information for orienting educational policies towards mental health promotion in the coming years. Although the results show the marked presence of negative emotion experienced during the pandemic by adolescents, important forms of positive coping adaptation were highlighted. The research highlighted aspects to be valorised in terms of resilience and the ability to respond to crises. Having experienced a health emergency as an opportunity to have more intense experiences with oneself, with family and peers, re-signifying restrictions and isolation as a time to rediscover oneself, are all important elements to be promoted and shared.

Furthermore, the recognition of positive emotions represented a factor in the adolescents' coping with stress, making them more capable of learning from unusual situations. Reducing the negative impact of the pandemic experience through a re-signification of it by cultivating positive emotions through the experience of social cohesion and gratitude, mirrors the strategies described in some recent neuroscientific models of promoting brain resilience and well-being (Paoletti & Ben-Soussan, 2019; Tabibnia, 2020).

In terms of future directions for research on the issues addressed, the important strategies activated by adolescents remind us of the need to educate on the awareness of one's own resources through a positive neuropsycho-pedagogical approach (Paoletti, 2008; Paoletti et al., 2016; Pavoncello et al., 2013). Indeed, the awareness of one's own capabilities can enable and sustain a new rebirth (Paoletti et al., 2016). School curricula should educate future generations in neuro-psycho-pedagogical knowledge to cope with adversity and uncertainty. Thus, it is necessary to educate adults and young people to understand the links between neuro-psycho-physiological states, emotions and behaviour to prevent depression and anxiety (Paoletti et al., 2022a; Paoletti et al., 2022b).

Conclusion

The Covid-19 pandemic had a massive impact on adolescents. The results of this study emphasised how adolescents were confronted with negative emotions (e.g., boredom, sadness, fear, agitation) and the principal sources of social support (e.g., family, friends, one-self). The results confirm the fundamental role, for adolescents, of family and peers to overcome adversities. However, this study innovatively shed light on the positive aspects, transformations and generative crises that the adolescents experienced. The analysis of their reflections on the positive emotions they experienced during the pandemic revealed: an inner growth in terms of increased self-awareness, gratitude and hope, and self-care; the ability to appreciate small moments and the courage to take up new challenges by reading them in terms of opportunities; a strengthening of relational skills both within the family and among peers by using empathy and a sense of common humanity; and, finally, the possibility of discovering new aspects of everyday life through technology and new means of communication, without ever giving up contact with nature. This is the first study in Italy to focus on capitalising on the adolescent's resources during the pandemic and lays the foundations for clinical and educational interventions that aim to highlight the aspects of creativity, positivity and generativity of the new

generations. This approach wants to lay ground for more educational and risk-prevention tools in the developmental age that are developed from a bottom-up, and not top-down, perspective.

Acknowledgments

Vito Giannini, Elvira Vento (Istituto Paritario Vincenzo Pallotti); Romina Morresi (Istituto Superiore Augusto Capriotti); Simona De Santis (Centro scolastico TUASCUOLA); Barbara Piva, Ilaria Rossini (Scuola bilingue - Assisi International School); Stefania Tetta (Istituto di Cultura e di Lingue Marcelline); Lisa Finocchiaro (Istituto Superiore "E. Fermi-F. Eredia"); Monica Sanna (Istituto Superiore "S. A. De Castro"); Anna Maria Neri (Scuola secondaria "G. Caporale"); Pina Crimaldi (Istituto Superiore "Alfonso Maria Dè Liguori"); Teresa Mautone (Istituto Superiore "Bruno Munari"); Rita Canosa (I.C. Don Milani-Capasso – Acerra); Luca Cerrao, Patrizia Siena (Fondazione Patrizio Paoletti).

References

- Ahmed, S. P., Bittencourt-Hewitt, A., & Sebastian, C. L. (2015). Neurocognitive bases of emotion regulation development in adolescence. *Developmental cognitive neuroscience*, 15, 11-25. DOI: 10.1016/j.dcn.2015.07.006.
- Almeida, I., Rego, J. F., Teixeira, A., & Moreira, M. R. (2021). Social isolation and its impact on child and adolescent development: a systematic review. *Revista paulista de pediatria : orgao oficial da Sociedade de Pediatria de Sao Paulo*, 40, e2020385. DOI: 10.1590/1984-0462/2022/40/2020385.
- Amorós-Reche, V., Belzunegui-Pastor, À., Hurtado, G., & Espada, J. P. (2022). Emotional Problems in Spanish Children and Adolescents during the COVID-19 Pandemic: A Systematic Review. *Clinical and Health*, 33(1), 19-28. DOI: 10.5093/clysa2022a2.
- Babore, A., Morelli, M., & Trumello, C. (2022). Italian adolescents' adjustment before and during the coronavirus disease 2019: A comparison between mothers' and adolescents' perception. *British Journal of Clinical Psychology*, 61(2), 281-286. DOI: 10.1111/bjc.12334.
- Barker, G. (2007). Adolescents, social support and help-seeking behaviour: an international literature review and programme consultation with recommendations for action. https://apps.who.int/iris/bitstream/handle/10665/43 778/9789241595711_eng.pdf.
- Beetz, A., Uvnäs-Moberg, K., Julius, H., & Kotrschal, K. (2012). Psychosocial and psychophysiological effects of human-animal interactions: the possible role of oxytocin. *Frontiers in psychology*, *3*, 234. DOI: 10.3389/fpsyg.2012. 00234.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage please see: http://creativecommons.org

- Bermejo-Martins, E., Luis, E. O., Fernández-Berrocal, P., Martínez, M., & Sarrionandia, A. (2021). The role of emotional intelligence and self-care in the stress perception during COVID-19 outbreak: An intercultural moderated mediation analysis. *Personality and Individual Differences*, 177, 110679. DOI: 10.1016/j.paid.2021.110679.
- Bhatia, R. (2020). Effects of the COVID-19 pandemic on child and adolescent mental health. *Current Opinion in Psychiatry*, *33*(6), 568-570. DOI: 10.1097/YCO.00000000000651.
- Bhattacharya, N., Choudhury, S., Roychowdhury, M., Sinha, M., Mistri, P., Bhattacharya, R., et al. (2022). 'Art at Safe Homes': a pioneer study among COVID patients and their treatment Team. J. Prev. Assess. Rehabil. 2022, 211220. DOI: 10.3233/WOR-211220.
- Blakemore, S. J., & Mills, K. L. (2014). Is adolescence a sensitive period for sociocultural processing. *Annual review of psychology*, 65(1), 187-207. DOI: 10.1146/annurev-psych-010213-115202.
- Branje, S., & Morris, A. S. (2021). The impact of the COVID- 19 pandemic on adolescent emotional, social, and academic adjustment. *Journal of Research on Adolescence*, *31*(3), 486-499. DOI: 10.1111/jora.12668.
- Braun, V. & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative research in psychology*, 3(2), 77-101. DOI: 10.1191/1478088706qp0630a.
- Brown, G., & Greenfield, P. M. (2021). Staying connected during stay- athome: Communication with family and friends and its association with wellbeing. *Human Behavior and Emerging Technologies*, 3(1), 147-156. DOI: 10.1002/hbe2.246.
- Camara, M., Bacigalupe, G., & Padilla, P. (2017). The role of social support in adolescents: are you helping me or stressing me out?. *International Journal* of Adolescence and Youth, 22(2), 123-136. DOI: 10.1080/02673843.2013.875480.
- Campione- Barr, N., Rote, W., Killoren, S. E., & Rose, A. J. (2021). Adolescent adjustment during COVID- 19: The role of close relationships and COVID-19-related stress. *Journal of Research on Adolescence*, 31(3), 608-622. DOI: 10.1111/jora.12647.
- Cauberghe, V., Van Wesenbeeck, I., De Jans, S., Hudders, L., & Ponnet, K. (2021). How adolescents use social media to cope with feelings of loneliness and anxiety during COVID-19 lockdown. *Cyberpsychology, Behavior, and Social Networking*, 24(4), 250-257. DOI: 10.1089/cyber.2020.0478.
- Cavallini, E., Rosi, A., van Vugt, F. T., Ceccato, I., Rapisarda, F., Vallarino, M., ... & Lecce, S. (2021). Closeness to friends explains age differences in positive emotional experience during the lockdown period of COVID-19 pandemic. *Aging Clinical and Experimental Research*, 33(9), 2623-2631. DOI: 10.1007/s40520-021-01927-7.
- Chu, P. S., Saucier, D. A., & Hafner, E. (2010). Meta-analysis of the relationships between social support and well-being in children and adolescents. *Journal of social and clinical psychology*, 29(6), 624-645. DOI: 10.1521/jscp.2010.29.6.624.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Commodari, E., & La Rosa, V. L. (2020). Adolescents in quarantine during COVID-19 pandemic in Italy: perceived health risk, beliefs, psychological experiences and expectations for the future. *Frontiers in psychology*, 11, 559951. DOI: 10.3389/fpsyg.2020.559951.
- Crone, E. A., & Dahl, R. É. (2012). Understanding adolescence as a period of social-affective engagement and goal flexibility. *Nature reviews* neuroscience, 13(9), 636-650. DOI: 10.1038/nrn3313.
- Cummings, C., Humiston, T., Cohen, L. B., & Lansing, A. H. (2022). The role of COVID-19 fears and related behaviors in understanding daily adolescent health behaviors during the pandemic. *Journal of Health Psychology*, 27(6), 1354-1364. DOI: 10.1177/13591053211044533.
- Cyrulnik, B. (2001). Manifeste pour la résilience. *Spirale*, (2), 77-82. DOI: 10.3917/spi.018.0077.
- Datu, J. A. D., Valdez, J. P. M., McInerney, D. M., & Cayubit, R. F. (2022). The effects of gratitude and kindness on life satisfaction, positive emotions, negative emotions, and COVID-19 anxiety: An online pilot experimental study. *Applied Psychology: Health and Well-Being*, 14(2), 347-361. DOI: 10.1111/aphw.12306.
- Di Giuseppe, T., Paoletti, P., P., Pavoncello, D., & & Serantoni, G. (2016). I giovani e il lavoro: prospettive e ricerca di senso. *Ricerca di Senso*, *3*, 215-248.
- Dicken, C. (1963). Good impression, social desirability, and acquiescence as suppressor variables. *Educational and Psychological Measurement*, 23(4), 699-720. DOI: 10.1177/2F001316446302300406.
- Diotaiuti, P., Girelli, L., Mancone, S., Corrado, S., Valente, G., & Cavicchiolo, E. (2022). impulsivity and depressive brooding in internet addiction: A study with a sample of italian adolescents during covid-19 lockdown. *Frontiers in Psychiatry*, 13. DOI: 10.3389%2Ffpsyt.2022.941313.
- Dumont, M., & Provost, M. A. (1999). Resilience in adolescents: Protective role of social support, coping strategies, self-esteem, and social activities on experience of stress and depression. *Journal of youth and adolescence*, 28(3), 343-363. DOI: 10.1023/A:1021637011732.
- Dvorsky, M. R., Breaux, R., & Becker, S. P. (2021). Finding ordinary magic in extraordinary times: child and adolescent resilience during the COVID-19 pandemic. *European child & adolescent psychiatry*, 30(11), 1829-1831. DOI: 10.1007/s00787-020-01583-8.
- Erikson, E. H. (1968). Identity: Youth and Crisis. New York: Norton.
- Evli, M., & Şimşek, N. (2022). The effect of COVID-19 uncertainty on internet addiction, happiness and life satisfaction in adolescents. Archives of Psychiatric Nursing. DOI: 10.1016/j.apnu.2022.07.008.
- Fergus, S., & Zimmerman, M. A. (2005). ADOLESCENT RESILIENCE: A Framework for. *Annual Reviews of Public Health*, 26, 399-419. DOI: 10.1146/annurev.publhealth.26.021304.144357.
- Ferrer, E., & McArdle, J. J. (2010). Longitudinal modeling of developmental changes in psychological research. *Current Directions in Psychological Science*, 19(3), 149-154. DOI: 10.1177/0963721410370300.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Gabbiadini, A., Baldissarri, C., Durante, F., Valtorta, R. R., De Rosa, M., & Gallucci, M. (2020). Together apart: the mitigating role of digital communication technologies on negative affect during the COVID-19 outbreak in Italy. *Frontiers in Psychology*, 11, 554678. DOI: 10.3389/fpsyg.2020.554678.
- Garmezy, N. & Masten, A. (1994). Chronic Adversities. In M. Rutter, E. Taylor,
 & L. Herson (Orgs.). *Child and Adolescent Psychiatry* (pp. 191-207).
 Oxford: Blackwell Scientific.
- Gentzler, A. L., Palmer, C. A., & Ramsey, M. A. (2016). Savoring with intent: Investigating types of and motives for responses to positive events. *Journal* of Happiness Studies, 17(3), 937-958. DOI: 10.1007/s10902-015-9625-9.
- Giardina, A., Di Blasi, M., Schimmenti, A., King, D. L., Starcevic, V., & Billieux, J. (2021). Online gaming and prolonged self-isolation: evidence from Italian gamers during the COVID-19 outbreak. *Clinical Neuropsychiatry*, 18(1), 65. DOI: 10.36131/2Fcnfioritieditore20210106.
- González-Valero, G., Zurita-Ortega, F., Lindell-Postigo, D., Conde-Pipó, J., Grosz, W. R., & Badicu, G. (2020). Analysis of self-concept in adolescents before and during COVID-19 lockdown: Differences by gender and sports activity. *Sustainability*, 12(18), 7792. DOI: 10.3390/su12187792.
- Green, K. H., van de Groep, S., Sweijen, S. W., Becht, A. I., Buijzen, M., de Leeuw, R. N., ... & Crone, E. A. (2021). Mood and emotional reactivity of adolescents during the COVID-19 pandemic: short-term and long-term effects and the impact of social and socioeconomic stressors. *Scientific Reports*, 11(1), 1-13. DOI: 10.1038/s41598-021-90851-x.
- Grotberg, E. H. (1995). *A guide to promoting resilience in children: Strengthening the human spirit* (Vol. 8). The Hague, Netherlands: Bernard van leer foundation.
- Gupta, R. S., Dickey, L., & Kujawa, A. (2022). Neural markers of emotion regulation difficulties moderate effects of COVID-19 stressors on adolescent depression. *Depression and anxiety*, 39(6), 515-523. DOI: 10.1002/da.23268.
- Hanson, W. E., Creswell, J. W., Clark, V. L. P., Petska, K. S., & Creswell, J. D. (2005). Mixed methods research designs in counseling psychology. *Journal* of counseling psychology, 52(2), 224. DOI: 10.1037/0022-0167.52.2.224.
- Hartoyo, A. L., & Wijaya, E. (2022, April). Correlation between Boredom and Meaning of Life in Late Adolescence during the Covid-19 Pandemic. In 3rd Tarumanagara International Conference on the Applications of Social Sciences and Humanities (TICASH 2021) (pp. 1495-1500). Atlantis Press.
- IBM Corp. Released 2017. *IBM SPSS Statistics for Windows, Version 25.0.* Armonk, NY: IBM Corp.
- Israelashvili, J. (2021). More positive emotions during the COVID-19 pandemic are associated with better resilience, especially for those experiencing more negative emotions. *Frontiers in Psychology*, 12, 648112. DOI: 10.3389/fpsyg.2021.648112.
- Kazdin, A.E. (2013). *Research Design in Clinical Psychology*. London: Pearson Education Limited.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Kazi, F., & Mushtaq, A. (2021). Adolescents navigating the COVID-19 pandemic. *The Lancet. Child & Adolescent Health*, 5(10), 692. DOI: 10.1016%2FS2352-4642(21)00279-0.
- Kuntsche, E., & Ravens-Sieberer, U. (2015). Monitoring adolescent health behaviours and social determinants cross-nationally over more than a decade: introducing the Health Behaviour in School-aged Children (HBSC) study supplement on trends. *The European Journal of Public Health*, 25(suppl.2), 1-3. DOI: 10.1093/eurpub/ckv009.
- Kurudirek, F., Arıkan, D., & Ekici, S. (2022). Relationship between adolescents' perceptions of social support and their psychological well-being during COVID-19 Pandemic: A case study from Turkey. *Children and Youth Services Review*, 137, 106491. DOI: 10.1016/j.childyouth.2022.106491.
- Lades, L. K., Laffan, K., Daly, M., & Delaney, L. (2020). Daily emotional well-being during the COVID-19 pandemic. *British journal of health psychology*, 25(4), 902-911. DOI: 10.1111/bjhp.12450.
- Li, F., Luo, S., Mu, W., Li, Y., Ye, L., Zheng, X., ... & Chen, X. (2021). Effects of sources of social support and resilience on the mental health of different age groups during the COVID-19 pandemic. *BMC psychiatry*, 21(1), 1-14. DOI: 10.1186/s12888-020-03012-1.
- Lisitsa, E., Benjamin, K. S., Chun, S. K., Skalisky, J., Hammond, L. E., & Mezulis, A. H. (2020). Loneliness among young adults during COVID-19 pandemic: The mediational roles of social media use and social support seeking. *Journal of Social and Clinical Psychology*, 39(8), 708-726. DOI: 10.1521/jscp.2020.39.8.708.
- Luthar, S. S., Sawyer, J. A., & Brown, P. J. (2006). Conceptual issues in studies of resilience: Past, present, and future research. *Annals of the New York Academy of Sciences*, 1094, 105. DOI: 10.1196/annals.1376.009.
- Maheux, A. J., Nesi, J., Galla, B. M., Roberts, S. R., & Choukas-Bradley, S. (2021). Grateful: Longitudinal associations between adolescents' social media use and gratitude during the COVID-19 pandemic. *Journal of Research on Adolescence*, 31(3), 734-747. DOI: 10.1111/jora.12650.
- McCall, R. B. (1977). Challenges to a science of developmental psychology. *Child Development*, 333-344. DOI: 10.2307/1128626.
- Morin, E. (2000). La testa ben fatta. Riforma dell'insegnamento e riforma del pensiero. Milano: Raffaello Cortina.
- Nickerson, A. B., & Nagle, R. J. (2005). Parent and peer attachment in late childhood and early adolescence. *The Journal of Early Adolescence*, 25(2), 223-249. DOI: 10.1177/2F0272431604274174.
- Panda, P. K., Gupta, J., Chowdhury, S. R., Kumar, R., Meena, A. K., Madaan, P., ... & Gulati, S. (2021). Psychological and behavioral impact of lockdown and quarantine measures for COVID-19 pandemic on children, adolescents and caregivers: a systematic review and meta-analysis. *Journal of tropical pediatrics*, 67(1), fmaa122. DOI: 10.1093/tropej/fmaa122.
- Paoletti, P. (2008). Crescere nell'eccellenza. Roma: Armando editore.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Paoletti, P., & Ben Soussan, T. D. (2019). The sphere model of consciousness: from geometrical to neuro-psycho-educational perspectives. *Logica Universalis*, 13(3), 395-415. DOI: 10.1007/s11787-019-00226-0.
- Paoletti, P., & Selvaggio, A. (2013). Normalizzazione. Quaderni di Pedagogia per il Terzo Millennio. Edizioni 3P.
- Paoletti, P., Di Giuseppe, T., Lillo, C., Anella, S., Santinelli, A. (2022b). Le Dieci Chiavi della Resilienza. https://fondazionepatriziopaoletti.org/10chiavi-resilienza/.
- Paoletti, P., Di Giuseppe, T., Lillo, C., Ben-Soussan, T. D., Bozkurt, A., Tabibnia, G., & Perasso, G. F. (2022a). What can we learn from the COVID-19 pandemic? Resilience for the future and neuropsychopedagogical insights. *Frontiers in Psychology*, 5403. DOI: 10.3389/fpsyg.2022.993991.
- Pavoncello, D., Di Giuseppe, T., Aprile, V., & Paoletti, P. (2013). Giovani tra speranza, fiducia e progettualità. Risultati di una ricerca. Orientamenti pedagogici: rivista internazionale di scienze dell'educazione, 60(353), 591-609.
- Pedrosa, A. L., Bitencourt, L., Fróes, A. C. F., Cazumbá, M. L. B., Campos, R. G. B., de Brito, S. B. C. S., & Simões e Silva, A. C. (2020). Emotional, behavioral, and psychological impact of the COVID-19 pandemic. *Frontiers in psychology*, 11, 566212. DOI: 10.3389/fpsyg.2020.566212.
- Pellerin, N., & Raufaste, E. (2020). Psychological resources protect well-being during the COVID-19 pandemic: A longitudinal study during the French lockdown. *Frontiers in Psychology*, 11, 590276. DOI: 10.3389/fpsyg.2020.590276.
- Perasso, G., Carone, N., Health Behaviour in School Aged Children Lombardy Group 2014, & Barone, L. (2021). Alcohol consumption in adolescence: the role of adolescents' gender, parental control, and family dinners attendance in an Italian HBSC sample. *Journal of Family Studies*, 27(4), 621-633. DOI: 10.1080/13229400.2019.1676818.
- Perasso, G., Carraro, E., & Ozturk, Y. (2020). Family mealtime against adolescentes' drinking, drug use, and others risk behaviours. Then and now. *Health and addictions: salud y drogas*, 20(2), 119-134. DOI: 10.21134/haaj.v20i2.540.
- Perasso, G., Serantoni, G., Lillo, C., Maculan, A., Vianello, F., & Di Giuseppe, T. (2023). Teaching with What you Are: The Importance of Teachers' Positive Resources and of the Neuropsychopedagogical Training Envisioning the Future on Adolescents' Well-Being. A Correlational and Analysis of Variance Study. *Human Development* - Annual Volume 2023. DOI: 10.5772/intechopen.112437.
- Pérez-Urrestarazu, L., Kaltsidi, M. P., Nektarios, P. A., Markakis, G., Loges, V., Perini, K., & Fernández-Cañero, R. (2021). Particularities of having plants at home during the confinement due to the COVID-19 pandemic. *Urban forestry & urban greening*, 59, 126919. DOI: 10.1016/j.ufug.2020.126919.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage please see: http://creativecommons.org

- Permatasari, N., Ashari, F. R., & Ismail, N. (2021). Contribution of perceived social support (peer, family, and teacher) to academic resilience during COVID-19. *Golden Ratio of Social Science and Education*, 1(1), 01-12. DOI: 10.52970/grsse.v1i1.94.
- Pigaiani, Y., Zoccante, L., Zocca, A., Arzenton, A., Menegolli, M., Fadel, S., ... & Colizzi, M. (2020, November). Adolescent lifestyle behaviors, coping strategies and subjective wellbeing during the COVID-19 pandemic: an online student survey. *Healthcare*, 8(4), 472.
- Pouso, S., Borja, Á., Fleming, L. E., Gómez-Baggethun, E., White, M. P., & Uyarra, M. C. (2021). Contact with blue-green spaces during the COVID-19 pandemic lockdown beneficial for mental health. *Science of The Total Environment*, 756, 143984. DOI: 10.1016/j.scitotenv.2020.143984.
- Purewal, R., Christley, R., Kordas, K., Joinson, C., Meints, K., Gee, N., & Westgarth, C. (2017). Companion animals and child/adolescent development: A systematic review of the evidence. *International journal of environmental research and public health*, 14(3), 234. DOI: 10.3390/ijerph14030234.
- Qi, M., Zhou, S. J., Guo, Z. C., Zhang, L. G., Min, H. J., Li, X. M., & Chen, J. X. (2020). The effect of social support on mental health in Chinese adolescents during the outbreak of COVID-19. *Journal of Adolescent Health*, 67(4), 514-518. DOI: 10.1016/j.jadohealth.2020.07.001.
- Quoidbach, J., Berry, E. V., Hansenne, M., & Mikolajczak, M. (2010). Positive emotion regulation and well-being: Comparing the impact of eight savoring and dampening strategies. *Personality and individual differences*, 49(5), 368-373. DOI: 10.1016/j.paid.2010.03.048.
- Rathgeb, C., Schillok, H., Voss, S., Coenen, M., Schulte-Körne, G., Merkel, C., ... & COSMO Study Team. (2022). Emotional Situation of Children and Adolescents during the COVID-19 Pandemic in Germany: Results from the COVID-19 Snapshot Monitoring Study (COSMO). *International Journal of Environmental Research and Public Health*, 19(5), 2698. DOI: 10.3390/ijerph19052698.
- Robillard, C. L., Turner, B. J., Ames, M. E., & Craig, S. G. (2021). Deliberate self-harm in adolescents during COVID-19: The roles of pandemic-related stress, emotion regulation difficulties, and social distancing. *Psychiatry research*, 304, 114152. DOI: 10.1016/j.psychres.2021.114152.
- Rogers, A. A., Ha, T., & Ockey, S. (2021). Adolescents' perceived socioemotional impact of COVID-19 and implications for mental health: Results from a US-based mixed-methods study. *Journal of Adolescent Health*, 68(1), 43-52. DOI: 10.1016/j.jadohealth.2020.09.039.
- Romm, K. F., Park, Y. W., Hughes, J. L., & Gentzler, A. L. (2021). Risk and protective factors for changes in adolescent psychosocial adjustment during COVID-19. *Journal of Research on Adolescence*, 31(3), 546-559. DOI: 10.1111/jora.12667.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Santomauro, D. F., Herrera, A. M. M., Shadid, J., Zheng, P., Ashbaugh, C., Pigott, D. M., et al. (2021). Global prevalence and burden of depressive and anxiety disorders in 204 countries and territories in 2020 due to the COVID-19 pandemic. *Lancet*, 398, 1700-1712. DOI: 10.1016/S0140-6736(21)02143-7.
- Schunk, F., Zeh, F., & Trommsdorff, G. (2022). Cybervictimization and wellbeing among adolescents during the COVID-19 pandemic: The mediating roles of emotional self-efficacy and emotion regulation. *Computers in human behavior*, 126, 107035. DOI: 10.1016/j.chb.2021.107035.
- Sharma, A., Minh Duc, N. T., Luu Lam Thang, T., Nam, N. H., Ng, S. J., Abbas, K. S., Huy, N. T., Marušić, A., Paul, C. L., Kwok, J., Karbwang, J., de Waure, C., Drummond, F. J., Kizawa, Y., Taal, E., Vermeulen, J., Lee, G., Gyedu, A., To, K. G., Verra, M. L., ... Karamouzian, M. (2021). A Consensus-Based Checklist for Reporting of Survey Studies (CROSS). *Journal of General Internal Medicine*, 36(10), 3179-3187. DOI: 10.1007/s11606-021-06737-1.
- Sheldon, K. M., & King, L. (2001). Why positive psychology is necessary. *American psychologist*, 56(3), 216. DOI: 10.1037/0003-066X.56.3.216.
- Silk, J. S., Scott, L. N., Hutchinson, E. A., Lu, C., Sequeira, S. L., McKone, K. M., ... & Ladouceur, C. D. (2022). Storm clouds and silver linings: day-today life in COVID-19 lockdown and emotional health in adolescent girls. *Journal of pediatric psychology*, 47(1), 37-48. DOI: 10.1093/jpepsy/jsab107.
- Stikkelbroek, Y., Bodden, D. H., Kleinjan, M., Reijnders, M., & van Baar, A. L. (2016). Adolescent depression and negative life events, the mediating role of cognitive emotion regulation. *PloS one*, *11*(8), e0161062. DOI: 10.1371/journal.pone.0161062.
- Tabibnia, G. (2020). An affective neuroscience model of boosting resilience in adults. *Neuroscience & Biobehavioral Reviews*, 115, 321-350. DOI: 10.1016/j.neubiorev.2020.05.005.
- Tishelman, C., Degen, J. L., Weiss Goitiandía, S., Kleijberg, M., & Kleeberg-Niepage, A. (2022). A Qualitative Serial Analysis of Drawings by Thirteento Fifteen-Year-Old Adolescents in Sweden About the First Wave of the Covid-19 Pandemic. *Qualitative Health Research*, May 2022. DOI: 10.1177/2F10497323221101978.
- Tong, A., Sainsbury, P., & Craig, J. (2007). Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups. *International journal for quality in health care: Journal of the International Society for Quality in Health Care*, 19(6), 349-357. DOI: 10.1093/intqhc/mzm042.
- Tugade, M. M., & Fredrickson, B. L. (2004). Resilient individuals use positive emotions to bounce back from negative emotional experiences. *Journal of personality and social psychology*, 86(2), 320. https://psycnet.apa.org/doi/10.1037/0022-3514.86.2.320.

Copyright © FrancoAngeli

This work is released under Creative Commons Attribution - Non-Commercial -

No Derivatives License. For terms and conditions of usage

- Velez, G., Hahn, M., & Troyer, B. (2022). Making meaning of COVID-19: An exploratory analysis of U.S. adolescent experiences of the pandemic. *Translational Issues in Psychological Science*, 8(2), 269-281. DOI: 10.1037/tps0000326.
- Von Soest, T., Kozák, M., Rodríguez-Cano, R., Fluit, D. H., Cortés-García, L., Ulset, V. S., ... & Bakken, A. (2022). Adolescents' psychosocial well-being one year after the outbreak of the COVID-19 pandemic in Norway. *Nature Human Behaviour*, 6(2), 217-228. DOI: 10.1038/s41562-021-01255-w.
- Yao, H., Chen, J. -H., and Xu, Y. -F. (2020). Patients with mental health disorders in the COVID-19 epidemic. *Lancet Psychiatry*. 7, e21. DOI: 10.1016/S2215-0366(20)30090-0.
- Young, K. S., Sandman, C. F., & Craske, M. G. (2019). Positive and negative emotion regulation in adolescence: links to anxiety and depression. *Brain sciences*, 9(4), 76. DOI: 10.3390/brainsci9040076.
- Zeman, J., Cassano, M., Perry-Parrish, C., & Stegall, S. (2006). Emotion regulation in children and adolescents. *Journal of Developmental & Behavioral Pediatrics*, 27(2), 155-168.
- Zhen, R., & Zhou, X. (2022). Latent patterns of posttraumatic stress symptoms, depression, and posttraumatic growth among adolescents during the covid-19 pandemic. *Journal of Traumatic Stress*, 35(1), 197-209. DOI: 10.1002/jts.22720.
- Zimet, G. D., Dahlem, N. W., Zimet, S. G., & Farley, G. K. (1988). The multidimensional scale of perceived social support. *Journal of personality* assessment, 52(1), 30-41. DOI: 10.1207/s15327752jpa5201_2.