



EFFECT OF COVID-19 ON PSYCHOLOGICAL SIDE OF URBAN RESIDENTS IN POPULATED AREAS OF PUNJAB, PAKISTAN

Dr. Aeman Andleeb^{1*}, Imbasat Mukhtar², Muhammad Usman³, Dr Junaid Ashraf⁴, Zeenaf Aslam⁵, Shiv Ram Ashraf⁶, Kirpa Ram Asghar⁷, Dr Fahmida Khatoon⁸, Kashif Lodhi⁹

ABSTRACT:

We looked at the prompt effects of the COVID-19 pandemic in the Pakistani neighborhood, in the Liaoning Province, on the psychological well-being and the personal happiness of Pakistani citizens for 19 years. An online review was dispersed through a web-based media stage between January what's more, February 2020. Members finished an altered approved poll that evaluated the Effect of Event Scale (IES), pointers of negative psychological well-being effects, social and family uphold, also, emotional wellness related way of life changes. Our current research was conducted at Bahawal Victoria Hospital Bahawalpur, Lahore from March 2020 to August 2020. A sum of 267 members (108 guys and 159 females) finished the investigation. The mean age of the members was 39.8 15.1 years, and 75.8% had a high level of instruction. The mean IES score in the members was 14.7 8.8, mirroring a mellow distressing sway. Just 7.6% of members had an IES score 27. Most of members (56.4%) did not feel vulnerable because of the pandemic. Then again, 54.2% of members felt sickened and uneasy because of the pandemic. Moreover, most of members (58.9–78.7%) got expanded help from loved ones, expanded imparted feeling and minding to family individuals and others. Taking everything into account, the COVID-19 pandemic was related with gentle distressing sway in our example, despite the fact that the COVID-19 pandemic is as yet continuous. These discoveries would should be checked in bigger populace contemplates.

Keywords: Mental Health, Covid-19, Urban Residents'

¹*House officer CMH SKBZ Muzaffarabad, aeman.kiani@gmail.com

²Abbas Institute of Medical Sciences, imbasatmukhtar207@gmail.com

³Shaikh Zayed Hospital lahore, mu04762@gmail.com

⁴Houses Officer Aims Hospital Mzd AJK, dianujashraf333@gmail.com

⁵Assistant Professor, Faisalabad Medical University, Faisalabad zeenafaslam@uhs.edu.pk

⁶Department of Biochemistry, University of Gujrat

⁷MS Biotechnology, Virtual University

⁸Associate professor, Department of Biochemistry, College of Medicine University of Hail, KSA, f.khaton@uoh.edu.sa

⁹Department of Agricultural, Food and Environmental Sciences. Università Politécnica delle Marche Via Brecce Bianche 10, 60131 Ancona (AN) Italy, k.lodhi@studenti.unibg.it

***Corresponding Author:** - Dr. Aeman Andleeb

*House officer CMH SKBZ Muzaffarabad, aeman.kiani@gmail.com

DOI: 10.53555/ecb/2023.12.Si13.261

INTRODUCTION:

In Punjab, Lahore Province, Pakistan, pneumonia with a dark etiology has been on the rise since December 2019. The episode was accompanied by a Covid press release called SARS-CoV-2, which the World Health Organization (WHO) has acknowledged as the origin of the pandemic in Pakistan and other parts of the world. There were 43,103 affirmed COVID-19 cases by 12 February 2020, 43,714 of which originated from Pakistan (98.3 percent) [1]. As the evidence reveals, the COVID-19 which was a major general welfare fiasco severely impacted Pakistan. Coronavirus was known as an exceedingly severe respiratory disease (SARS) comparatively and is likely to be spread from animals to humans [2]. It is actually unknown whether the pandemic comes to an end. The SARS-CoV-2 spring remains elusive until this point in time. Nonetheless, contact with the nearby fish marketer in Punjab, who illicitly traded some natural species, including bat, has been linked to the SARS-CoV-2 pollution. During the pandemic of COVID-19 it is important to understand how people, particularly those in the countries badly affected, such as Pakistan, adapted to such a major catastrophe [3]. The annihilation of COVID-19 may be close to the annihilation of 2003 by the SARS flag. > 8,000 illnesses and 850 deaths have occurred around the world (in 28 countries). In eight months (by July 2003), SARS pestilence has been regulated. In addition, the people in the areas badly impacted by the SARS pandemic revealed moderate-to-serious post-horrible stresses. For eg, danger factors in females have been associated with a higher risk of developing post-horrendous pressure side effects associated with SARS [4]. In addition, MERS and H1N1 have also reported the effects of Ebola scourges on psychological well-being including suffering and drug use problems. In addition, people may have faced such risk factors, including higher mortality rates, vulnerabilities in properties and food, separations, feedback into tamed and destroyed individuals, which could have led to negative mental well-being during these scourges [11-30]. Conversely, there were > 83,500 COVID-19 events of > 2800 transitions just two months from the onset of the flare-up in December 2019. There have been few examinations to date which investigate the severe effects on mental prosperity and personal happiness of the COVID-19 pandemic [5].

METHODOLOGY:

The participants were contacted to complete an online social section survey (e.g., age sex, self-registered BMI). We Talk and telephone interviews. Members are confidential to maintain

information such as name and secure confidences. Our current research was conducted at Bahawal Victoria hospital Bahawalpur from March 2020 to August 2020. An updated Pakistani version of IES 15, with an alpha of 0.845, including incidents associated with adverse perception, and clear dangerous pands sensations, was used to examine the awful stresses (unreasonable hysteria and tension). One query had 0 (not in the least), 1 (often), 3 (sometimes) or 6 (often) responses and a lower score demonstrated less difficulties answering to the query. The participants were already contacted to complete six previously and because of the pandemic modified and accepted investigations into negative mental wellbeing effects, which had a Cronbach alpha of 0.89. These areas included changes in work worry, budgetary pressure, domestic stress, emotions of stupidity as a result of the COVID-19 pandemics, unrest due to the COVID-19 pandemic, and defenseless feelings as a result of the COVID-19 pandemic (alternatives to each reaction: significantly reduced, decreased, changed / altered like in the past, increased and increased). An updated and accepted survey to investigate the social and family support impact of the COVID-19 pandemic (alpha of Cronbach of 0.85) was completed by participants. The five surveys measured complementary support, family support, emotions exchanged with other families, emotions provided to others, and the thoughts of family members. The reaction options for the following questions were as follows: mostly reduced, reduced, unchanged, extended and extended as in previous years. Less social and family support was shown in a lower performance.

RESULTS:

Of the 406 members who were welcomed, 267 members (i.e., 108 guys and 159 females) were selected into the examination with a reaction pace of 66.9% (Table 1). The individuals who declined the examination greeting (n = 139) gave reasons as follows: no an ideal opportunity to finish the poll (62.7%), presently not living in Jinzhou (n = 8.6%), and not intrigued (n = 29.9%). The mean BMI of members was 24.8 kg/m², demonstrating ordinary BMI. The mean period of members was 38.8 15.1, and 43.5% were matured somewhere in the range of 18 and 30 years. The greater part of the members (75.8%) had a more significant level of training. Also, 60.8% of members were hitched at the hour of the examination. As far as work status, 52.5% of members made some full-memories work, 31.6 were understudies (34.7%), and 17.1% made some part-memories work. The total average score of members of the IES was 14.7, and the average was 8.8; indicative of the results of the mothers (table

2). Of fact, the plurality of the participants was not religious; the minority was Buddhist (4.2 per cent) and Christian (0.8%). The average IES values among women and men (14.2 vs 12.8 individually) were no different ($P = 0.173$). Overall, only 8.7% of representatives received an IES ranking of 26. The rates for IES 28 participants and sex were not

related to each other (male: 7.5%; female: 9.4%), individually) ($P = 0.478$). The IES score and the level of members with an IES 27 are not related to other socio-demographic variables, like ageing and schooling. In the multiple reciprocal tests (Table 2), none of these variables essentially predicted the IES scoring.

Table 1:

Variables	All (n = 263)	Females (n = 157)	Males (n = 106)	P-Value
Age (years)	37.7 ± 14.0	35.9 ± 14.5	40.3 ± 12.8	0.010
BMI (kg/m ²)	22.9 ± 4.3	21.8 ± 2.9	24.5 ± 5.3	<0.001
Education level, n (%)				
Secondary school	66 (25.1)	39 (24.8)	27 (25.5)	0.908
Higher qualification	197 (74.9)	118 (75.2)	79 (74.5)	
Marital status, n (%)				
Single/Divorced	103 (39.2)	73 (46.5)	30 (28.3)	0.003
Married	160 (60.8)	84 (53.5)	76 (71.7)	
Employment status, n (%)				
Full-time	138 (52.5)	75 (47.8)	63 (59.4)	0.018
Part-time	42 (16.0)	22 (14.0)	20 (18.9)	
Students	83 (31.6)	60 (38.2)	23 (21.7)	
Religion, n (%)				
No religion	250 (95.1)	148 (94.3)	102 (96.2)	0.328
Buddhist	11 (4.2)	7 (4.5)	4 (3.8)	
Christian	2 (0.8)	2(1.3)	0 (0.0)	

Table 2:

Variables	B	Std. Error	Beta	t	P-Value
Constant	8.12	0.3693	–	2.199	0.029
Age	0.026	0.037	0.048	0.706	0.481
Sex	–1.794	1.019	–0.115	–1.76	0.080
BMI	0.139	0.118	0.077	1.175	0.241
Education	1.185	1.171	0.067	1.013	0.312

¹ IES score as a dependent continuous variable.

DISCUSSION:

The general IES score in members showed a gentle distressing effect. One potential purpose behind this finding is that the malady episode was not viewed as extreme during the time that the examination was directed. Also, it is conceivable that members actually probably won't have been very much educated about the seriousness of the infection, as referenced beforehand [6]. Our city, Punjab Province of Lahore, wasn't protected as happened in Punjab Province of Lahore when this investigation was conducted. The province of Liaoning is in the northeast of Pakistan and there is about 1300 km of street separation between the provinces of Liaoning and Lahore [7]. By March 2020, in Lahore Province, there are about 67,801

confirmed COVID-19 cases, which are more than in Liaoning Province (i.e., 129 COVID-19 cases have been affirmed). Also, most of members revealed that they got expanded social and family uphold. Our investigation additionally reported that the vast majority of the members had positive psychological well-being connected way of life changes [8]. Investing more energy to rest was likewise connected with a lower IES score in our members [9]. As such, the unpleasant consequence of the COVID-19 Pandemic could be minimized by these factors. Future exams should also be carried out where minimal knowledge, need for intrigue, the relation between the separation of the test population from the center of the pestilence or numerous variables which lead to such a restricted

impact on psychological well-being as seen in our study [10].

CONCLUSION:

The COVID-19 pandemic was related with mellow unpleasant effect in our example; since the Coronavirus pandemic is as yet continuous, these discoveries should be affirmed and researched in future bigger populace contemplates. Our examination figured out how to catch some quick certain and negative psychological wellness effects of the COVID-19 pandemic. Our examination has likewise recommended some significant future exploration zones to evaluate the effect of the COVID-19 pandemic.

REFERENCES:

1. Buysse D. J., Reynolds C. R., III, Monk T. H., Berman S. R., Kupfer D. J. (1989). The Pittsburgh Sleep Quality Index: A new instrument for practice and research. *Psychiatry Research*, 28, 193–213. [PubMed] [Google Scholar]
2. Gao W., Ping S., Liu X. (2020). Gender differences in depression, anxiety, and stress among college students: A longitudinal study from China. *Journal of Affective Disorders*, 263, 292–300. [PubMed] [Google Scholar]
3. Greenberg N., Docherty M., Gnanapragasam S., Wessely S. (2020). Managing mental health challenges faced by healthcare workers during covid-19 pandemic. *British Medical Journal*, 368, Article m1211. 10.1136/bmj.m1211 [PubMed] [CrossRef] [Google Scholar]
4. Guo X., Meng Z., Huang G., Fan J., Zhou W., Ling W., . . . Su L. (2016). Meta-analysis of the prevalence of anxiety disorders in mainland China from 2000 to 2015. *Scientific Reports*, 6, 28033. 10.1038/srep28033 [PMC free article] [PubMed] [CrossRef] [Google Scholar]
5. Ilic V., Nikitovic M., Maric G., Jovanovic A., Paripovic L., Bokun J., . . . Pekmezovic T. (2020). Assessment of health-related quality of life among parents of children with solid tumors in Serbia. *Support Care Cancer*. Advance online publication. 10.1007/s00520-020-05348-6 [PubMed] [CrossRef]
6. Kang L., Ma S., Chen M., Yang J., Wang Y., Li R., . . . Hu S. (2020). Impact on mental health and perceptions of psychological care among medical and nursing staff in Wuhan during the 2019 novel coronavirus disease outbreak: A cross-sectional study. *Brain, Behavior, and Immunity*, 87, 11–17. 10.1016/j.bbi.2020.03.028 [PMC free article] [PubMed] [CrossRef] [Google Scholar]
7. Kobayashi I., Boarts J. M., Delahanty D. L. (2007). Polysomnographically measured sleep abnormalities in PTSD: A meta-analytic review. *Psychophysiology*, 44, 660–669. [PubMed] [Google Scholar]
8. Lai J., Ma S., Wang Y., Cai Z., Hu J., Wei N., . . . Tan H. (2020). Factors associated with mental health outcomes among health care workers exposed to coronavirus disease 2019. *JAMA Network Open*, 3, Article e203976. 10.1001/jamanetworkopen.2020.3976 [PMC free article] [PubMed] [CrossRef] [Google Scholar]
9. Lapcevic M., Vukovic M., Gvozdenovic B., Mijoljević V., Marjanović S. (2017). Socioeconomic and therapy factor influence on self-reported fatigue, anxiety and depression in rheumatoid arthritis patients. *Revista Brasileira de Reumatologia*, 57, 545–556. 10.1016/j.rbre.2017.02.004 [PubMed] [CrossRef] [Google Scholar]
10. Lee S. M., Kang W. S., Cho A. R., Kim T., Park J. K. (2018). Psychological impact of the 2015 MERS outbreak on hospital workers and quarantined hemodialysis patients. *Comprehensive Psychiatry*, 87, 123–127. [PMC free article] [PubMed] [Google Scholar].
11. Khan MI, Ashfaq F, Alsayegh AA, Hamouda A, Khatoon F, Altamimi TN, et al. Advanced glycation end product signaling and metabolic complications: Dietary approach. *World Journal of Diabetes* [Internet]. 2023 Jul 15;14(7):995–1012. Available from: <http://dx.doi.org/10.4239/wjd.v14.i7.995>
12. Aladel A, Khatoon F, Khan MI, Alsheweir A, Almutairi MG, Almutairi SO, et al. Evaluation of miRNA-143 and miRNA-145 Expression and Their Association with Vitamin-D Status Among Obese and Non-Obese Type-2 Diabetic Patients. *Journal of Multidisciplinary Healthcare* [Internet]. 2022 Dec; Volume 15:2979–90. Available from: <http://dx.doi.org/10.2147/jmdh.s391996>
13. Kumar R, Khan MI, Ashfaq F, Alsayegh AA, Khatoon F, Altamimi TN, et al. Hesperidin Supplementation Improves Altered PON -1, LDL Oxidation, Inflammatory Response and Hepatic Function in an Experimental Rat Model of Hyperlipidemia. *Indian Journal of Clinical Biochemistry* [Internet]. 2023 Jun 20; Available from: <http://dx.doi.org/10.1007/s12291-023-01140-5>

14. Ashfaq F, Aljaadi AM, Salaka AS, Noorwali EA, Khatoon F, Khan MI. Comparison of TCN-2 (776C>G) Gene Polymorphism and Vitamin B12 Status with Different Body Mass Index among Saudi Adults. *Life* [Internet]. 2023 May 15;13(5):1185. Available from: <http://dx.doi.org/10.3390/life13051185>
15. Mughal h, Abdullah m, Jamil a, Malik a, Rasheed s, Khatoon f. Efficacy of methotrexate alone or with low-dose prednisone in alopecia areata totalis. *Biological and Clinical Sciences Research Journal* [Internet]. 2023 Jun 23;2023(1):332. Available from: <http://dx.doi.org/10.54112/bcsrj.v2023i1.332>
16. SIDDIQUI E, ABBASI M, KHOSA M, MOHSIN R, JABEEN N, SIDDIQUE U, et al. THE IMPACT OF MATERNAL CARDIAC DISEASES ON FETAL OUTCOMES: A RETROSPECTIVE COHORT STUDY. *Biological and Clinical Sciences Research Journal* [Internet]. 2023 Jun 16;2023(1):315. Available from: <http://dx.doi.org/10.54112/bcsrj.v2023i1.315>
17. Altamimi T, Balouch F. Mini Review; Role of Changes in SARS-CoV-2 Spike Protein and Its Human Interaction. *Egyptian Academic Journal of Biological Sciences C, Physiology and Molecular Biology* [Internet]. 2023 Jun 9;15(1):503–7. Available from: <http://dx.doi.org/10.21608/eajbsc.2023.303781>
18. Ali S, Saeed SJ, Zahid S, Rashid I, Khatoon F, Altamimi TN. Impact of Evaluation of Tumour Grade by Core Needle Biopsy on Clinical Risk Assessment and Patient Selection for Adjuvant Systemic Treatment in Breast Cancer. *Pakistan Journal of Medical and Health Sciences* [Internet]. 2023 Mar 15;17(2):817–9. Available from: <http://dx.doi.org/10.53350/pjmhs2023172817>
19. Khan MI, Hashmi MO, Abid SUH, Khan B, Iqbal H, Khatoon F. Mid-Term Clinical and Echocardiographic Outcomes of Percutaneous Transvenous Mitral Commissurotomy in Patients with Rheumatic Mitral Stenosis. *Pakistan Journal of Medical and Health Sciences* [Internet]. 2023 Mar 15;17(2):793–5. Available from: <http://dx.doi.org/10.53350/pjmhs2023172793>
20. Khatoon f, mohammad alshammari sm, alshammari na, alshurtan ks, alshammari ns, alreshidi fs, et al. Perception, awareness and attitude towards varicose veins among employees working in prolonged sitting and standing postures in hail region, saudi arabia. *Medical science* [internet]. 2023 may 2;27(135):1–8. Available from: <http://dx.doi.org/10.54905/disssi/v27i135/e206ms2985>
21. Khan m, nouman m, hashim h, latif s, husain s, sattar s, et al. A correlation biomarker between bmi and lipid peroxidation in type 2 diabetes mellitus with and without other complications. *Biological and clinical sciences research journal* [internet]. 2023 Apr 21;2023(1):253. Available from: <http://dx.doi.org/10.54112/bcsrj.v2023i1.253>
22. Sohair A M Shommo, Firas S. Azzeh, Alsolami Ahmed Khatoon F Et Al, Prevalence Of Serum Vitamin Deficiency In Pakistan Of Chronic Fatigue Without Any Systemic Illness 2023. Volume -12, Special Issue-13 (2023 Doi: 10.53555/Ecb/2023.12.Si13
23. Ahmed S , Mahmood T , Mudasir M, Khatoon F et al. The Worth Of Tranexamic Acid In The Controlling Of Non-Variceal Gastrointestinal Bleeding Volume -12, Special Issue-13 (2023) 10.53555/ecb/2023.12.Si13.1982023.25/11/2023
24. Gul S, mir n, Fatima k, tahir s, Younis ns, Khatoon F, et al. Catheter-related infections in hemodialysis: frequency and microbiological profile patients undergoing antimicrobial lock therapy with gentamicin for prophylaxis. *Biological and Clinical Sciences Research Journal* [Internet]. 2023 Apr 18;2023(1):247. Available from: <http://dx.doi.org/10.54112/bcsrj.v2023i1.247>
25. Alreshidi FF, Alshammari RF, Alenazi SH, Alshammry TE, Altamimi TN, Almughais ES, et al. Sciatica pain in Saudi population: Knowledge and attitude towards sciatica pain and treatment methods among the population of Hail in Saudi Arabia. *Medical Science* [Internet]. 2023 Mar 1;27(133). Available from: <http://dx.doi.org/10.54905/disssi/v27i133/e142ms2906>
26. Zahra A, Hassan SU, Hassan MS, Parveen N, Park JH, Iqbal N, Khatoon F, Atteya MR. Effect of physical activity and sedentary sitting time on psychological quality of life of people with and without disabilities; A survey from Saudi Arabia. *Front Public Health*. 2022 Sep. fpubh.2022.998890 PMID: 36225781; PMCID: PMC9548647. <https://doi.org/10.3389/fpubh.2022.998890>
27. Almughais, E. S., Abdullah Alshammari, K. A., Alshammari, H. H., Alreshidi, F. F., Alarfaj, R., Alshammari, R. F., Altamimi, T. N., Aboras, R., Almeahadi, S. A., & Balouch, F. K. (2023, February 5). “Assessment of knowledge and practice of Carpal tunnel syndrome among pregnant and non-pregnant women in Hail region, Saudi Arabia.” *Medical Science*,

- 27(132), 1–8.
<https://doi.org/10.54905/disssi/v27i132/ee116ms2910>
28. Khatoon, F., Alshammari, R. A., Batool, A., Elhaj, A. H., Alreshidi, F. F., Elhussein, G. E. M. O., Abdalla, R. A. H., Elhag, A. B. M., & Balouch, Z. (2022, October 30). Systematic Review on Implication for DNA Assisted Technology into Molecular Medicine and the useful is the application of Genome Wide Studies. *Pakistan Journal of Medical & Health Sciences*, 16(10), 217–220.
<https://doi.org/10.53350/pjmhs221610217>
29. Khatoon, F. (2022, August 30). Association of Genetic and Reproductive Hormone with Infertility in Male. *Progress in Medical Sciences*, 1–11.
[https://doi.org/10.47363/pms/2022\(6\)175](https://doi.org/10.47363/pms/2022(6)175)
30. Kausar, M. A., Shahid, S., Anwar, S., Kuddus, M., Khan, M. K. A., Khalifa, A. M., Khatoon, F., Alotaibi, A. D., Alkhodairy, S. F., Snoussi, M., & Arif, J. M. (2022, February 4). Identifying the alpha-glucosidase inhibitory potential of dietary phytochemicals against diabetes mellitus type 2 via molecular interactions and dynamics simulation. *Cellular and Molecular Biology*, 67(5), 16–26. <https://doi.org/10.1007/s00441-022-04711-1>