IMPACT OF COVID-19 PANDEMIC LOCKDOWN ON MIGRAINE PATIENTS IN LATIN AMERICA



Reyes, María Teresa MD; Bancalari, Ernesto MD; Santana-Vargas, Angel Daniel PhD; Velez, Karina MD; Rodríguez, Idelfonso MD; Marfil Alejandro MD; Miranda, Silvina MD; Zegarra-Valdivia, Jonathan Adrián PhD.

Introduction:

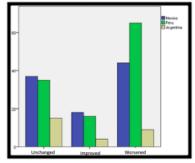
During the coronavirus (COVID-19) pandemic, home confinement, fear of COVID, lifestyle changes, and worldwide health care impacted almost all diseases. Reports from countries outside Latin America found differences in their migraine patients.

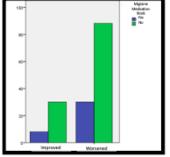
Objective:

Describe and compare the immediate changes in migraine associated with COVID-19 lockdown in patients from three Latin American countries with different restrictions (Argentina, México, and Perú).

Methods:

An online survey was conducted from May to July 2020. The survey was answered by 243 migraine patients (85.2% women), with questions related to sociodemographic data, lockdown conditions, changes in working conditions, physical activity and coffee intake, changes in healthcare access and acute migraine medication use, symptoms of anxiety and depression, and the questionnaire fear of COVID-19.





Results:

The results showed that 48.6% of migraine patients worsened their symptoms, 15.6% improved their symptoms, and 35.8% remained unchanged. Worsening migraine symptoms were associated with staying at home during the lockdown. Intake of analgesics was associated with an 18 times increase for worsening migraine symptoms than those that did not increase their intake OR 18.07 (8.606 - 37.956).

Migraine improved when sleep hours increased, and we found an improvement when patients decreased analgesic intake.

			Migraine							
		Total	Remain unchanged	Imprevement	Worsening	p-value	Worsening Migraine		Improvement Migraine	
Sleep patterns	Unchanged	29	19	3	7	0.00001*	OR			
		(11.9%)	(21.8%)	(7.9%)	(5.9%)				DR	
	Change in sleep schedule/time (Better)	70 (28.8%)	27 (31.0%)	24 (63.2%)	19 (16.1%)		1,910	(0.671 - 5.44)	5.630	(1.48- 21.415
	Worse sleep	144 (59.3%)	41 (47.3%)	11 (28.9%)	92 (78.0%)		6.090	(2.376 - 15.615)	1.699	(0.424 6.806)

Questions regarding COVID-19 news and social media, symptoms caused by COVID-19, and the uncertainty about when the pandemic will stop, were the three items that contributed to the worsening of migraine in the patients in the three countries.

Conclusions:

Confinement during the first pandemic wave in Latin America harmed migraine patients who stayed at home during lockdown

Bibliography:

- Parodi, I.C., Poeta, M.G., Assini, A. et ol. Impact of quarantine due to COVID infection on migraine: a survey in Genova, Italy. Neural Sci 41, 2005–2007 (2002 https://doi.org/10.1007/s10077-000-04543-v.
- https://doi.org/10.1007/s10072-000-04543-x.

 2. ris E Verhagen, Dephne S van Casteren, Simone de Vries Lentsch and Gisela M Terwindt. Effect of lockdown during COVID-19 on migraine: A longitudinal cohor
- study sagepub.com/journels-permissions https://doi: 10.1177/0333102420981739
- 3. Grassic A, Purisht G, O'Acusto L, Olvo S, Buobe Selfa A, Margenotti P. Lifetyle inspect on migratine during home confinement. Acts Neurol Belg. 2022 Apr;122(2):407-503.

 4. Dalawale G, Pezzetti E, Provenuti L, Toni, F. Carpani A and Engenti B (2020) Migratine Symptoms Improvement During the COVID-19 Lockdown in a Cohort of Châdres an Adelescents Front Neurol. 11:27947. doi: 10.1188/hear.2020.575047
- 5. https://www.statista.com/statistics/1110591/frequency-of-exit-while-the-containment-coronavirus
- Zegarna, Adrian; Chino, Brenda; Arnea, Rita. (2020). Knowledge, perception, and attitudes in regard to COVID-19 Pandemic in Peruvian population. 10.31234/psti.o/edya.
- Ahonsu, D.K., Lin, C., Imani, V. et al. The Fear of COVID-19 Scale: Development and Initial Validation. Int J Ment Health Addiction (2020) https://doi.org/10.1007/s11459-020-00270-9
- B. Lin CY, Hou WL, Mamun MA, et al. Fear of COVID-19 Scale (FCV-198) across countries: Measurement invariance issues. Nurs Open. 2021 Mar 21. DOI: 10.1003/mm2.985. Evuluablead of print PMID: 33745019.