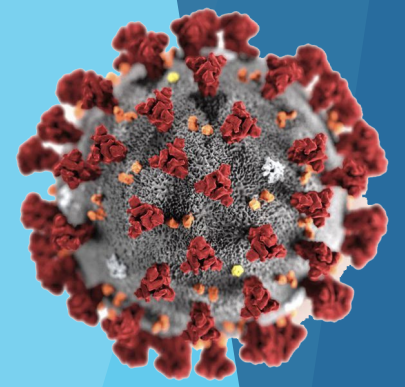
Long COVID's Impact on Patients, Workers & Society

Webinar Nov. 1st, 2023

https://healthconference.org



Webinar Conclusion

Dr. Kevin Kavanagh, MD, MS
Board Chairman Health Watch USAsm

SARS-CoV-2 Frontal Lobes

Journal of Alzheimer's Disease

Is the Frontal Lobe the Primary Target of SARS-CoV-2 ?

- "...there is some evidence that SARS-CoV-2 could preferentially and directly target the frontal lobes, as suggested by behavioral and dysexecutive symptoms, fronto-temporal hypoperfusion on MRI, EEG slowing in frontal regions, and frontal hypometabolism on 18F-FDG-PET imaging.

- "We suggest that an inflammatory parainfectious process targeting preferentially the frontal lobes (and/or frontal networks) could be the underlying cause of these shared clinical, neurophysiological, and imaging findings in COVID-19 patients."

https://pubmed.ncbi.nlm.nih.gov/33720900/

Violence in our Society

Cortex

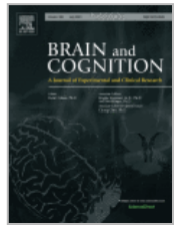
Volume 147, February 2022, Pages 169-184

“This theory centers around damage to the frontal lobe in the area of the prefrontal cortex. A variety of emotional-social disturbances can occur with lesions to this area. Joseph Barrash, et al., have reported the following lesions in regions of the prefrontal cortex: "Irritability, impatience and lability are common manifestation deficits in abilities critical to interpersonal sensitivity and socially appropriate behavior including deficient monitoring of social behavior".. along with impairment with "moral reasoning and judgement." Dysexecuti personality disturbance can also occur which is associated with "impaired cognitive control and the latter as with deficits in emotional/social behavior and decision-making."

Barrash J, Bruss J, Anderson SW, Kuceyeski A, Manzel K, Tranel D, Boes AD. Lesions in different prefrontal sectors are associated with different types of acquired personality disturbances. Cortex. 2022 Feb;147:169-184. doi: 10.1016/j.cortex.2021.12.004. Epub 2021 Dec 31. PMID: 35051710; PMCID: PMC8816872. https://pubmed.ncbi.nlm.nih.gov/35051710/

Violence in our Society

Brain and Cognition
Volume 55, Issue 1, June 2004, Pages 198-208



- The prefrontal cortex acquires and implements the 'rules of the game' needed to participate in our society. A particular area of the prefrontal cortex, the orbitofrontal cortex, is the area of the brain which is important in the "cognitive process of decision making." It is also important in the modulation of antisocial behavior and in the modulation of reactive aggression. In other words, the prefrontal cortex is involved in the determination of when aggression is and is not appropriate.

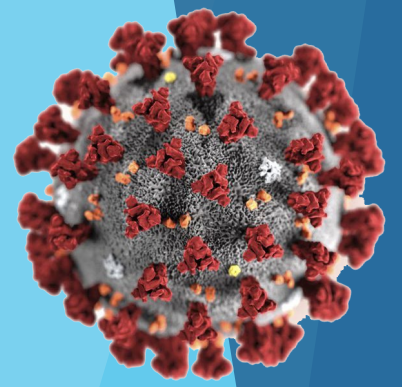
Blair RJ. The roles of orbital frontal cortex in the modulation of antisocial behavior. Brain Cogn. 2004 Jun;55(1):198-208. doi: 10.1016/S0278-2626(03)00276-8. PMID: 15134853. https://pubmed.ncbi.nlm.nih.gov/15134853/

Long COVID's Impact on Patients, Workers & Society

Webinar Nov. 1st, 2023

https://healthconference.org

USA Health Watch



Webinar Conclusion

Dr. Joycelyn Elders
Past United States Surgeon General


Thank You!