

# Webinar by Elkhonon Goldberg, PhD

## WEBINAR "COVID-19 AND BRAIN DYSFUNCTION: EVOLVING UNDERSTANDING"

COVID-19 is a viral illness caused by the novel coronavirus (SARS-CoV-2), which has become a global pandemic affecting all of us. While it has been originally characterized as respiratory illness, a growing body of evidence suggests that the brain may also be affected. In this webinar we will discuss the concept of "neuro-COVID" and examine the emerging evidence of COVID-19 impact on the human brain and the multiple clinical neurological and neuropsychological manifestations of this impact. In particular, we will discuss the potential for long-term neurocognitive sequelae of neuro-COVID and the role of neuropsychology in addressing them. In addition, we will briefly review the impact of diseases caused by other coronaviruses (SARS, MERS) on the brain.

### Date and time:

December 10, 2020 (Thursday) from 2pm to 5:15pm Eastern Time (1pm – 4:15pm Central Time, 11am – 2:15pm Pacific Time)

December 12, 2020 (Saturday) from 12pm to 3:15pm Eastern Time (11am – 2:15pm Central Time, 9am – 12:15pm Pacific Time)

### Topics to be covered:

COVID-19 pandemic and the brain.

Brain as the target of COVID-19.

Direct vs indirect mechanisms of brain damage in COVID-19.

Primary mechanisms of brain infection: transsynaptic vs hematogenous.

Mechanisms of infection: the role of ACE2 receptor.

COVID-19 and immune response.

Clinical neurological and neuropsychiatric manifestations of COVID-19.

Introducing "Neuro-COVID".

Long-term sequelae of Neuro-COVID.

Other coronaviruses and the brain: SARS, MERS.

Other viruses and the brain: HIV, and HSV.

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## ABOUT THE INSTRUCTOR



The webinar will feature Elkhonon Goldberg, Ph.D., ABPP., a clinical neuropsychologist and cognitive neuroscientist, Clinical Professor in the Department of Neurology, NYU School of Medicine and Diplomate of The American Board of Professional Psychology in Clinical Neuropsychology. Elkhonon Goldberg, Ph.D., ABPP authored numerous research papers on functional cortical organization, hemispheric specialization, frontal lobe functions and dysfunction, memory and amnesias, traumatic brain injury, dementias, and schizophrenia. Goldberg's books *The Executive Brain* (2001), *The Wisdom Paradox* (2005), and *The New Executive Brain* (2009) have met with international acclaim. He coauthored *The SharpBrains Guide to Cognitive Fitness* (2013). He was a student and close associate of the great neuropsychologist Alexander Luria.

Dr. Goldberg's more recent books are:

1. **Creativity: The Human Brain in the Age of Innovation** (Oxford University Press, 2018)
2. **Executive Functions in Health and Disease** (Academic Press, 2017)