

## LURIA NEUROSCIENCE INSTITUTE ANNOUNCES WEBINAR SERIES ABOUT THE BRAIN AND THE MIND

The webinars are presented by Elkhonon Goldberg, Ph.D., ABPP, a clinical neuropsychologist and cognitive neuroscientist, and Diplomate of The American Board of Professional Psychology in Clinical Neuropsychology. His critically acclaimed and bestselling books have been translated into 24 languages.

**CE credits:** each webinar takes 3 hours and 3 CE Credits will be awarded by CE credit sponsor R. Cassidy Seminars.

**Time:** 1 pm – 4:15 pm Eastern Time (noon – 3:15pm Central Time, 10am – 1:15pm Pacific Time), with a short break.

**Dates:** September 2023.

**Fee:** \$165 for a three-hour course. There is no additional charge for the CE certificate.

### ABOUT THE INSTRUCTOR



The webinars will feature Elkhonon Goldberg, Ph.D., ABPP, a clinical neuropsychologist and cognitive neuroscientist, 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). A sought-after educator, he has lectured worldwide. Elkhonon Goldberg 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)

### Executive Functions and the Frontal Lobes

September 9 (Saturday), 2023, 1 pm – 4:15 pm EST  
Executive functions represent the highest level of cognitive control, goal formation, planning, mental flexibility, impulse control, and working memory. They are mediated by the prefrontal cortex and related structures. We will examine their cognitive composition, neural mechanisms, lifespan changes, and gender differences; as well as the role of executive functions in creativity and intelligence.

### Memory and Memory Impairments

September 10 (Sunday), 2023, 1 pm – 4:15 pm EST  
Memory is among the most important cognitive functions, and memory impairment is among the most common and most catastrophic consequences of neurological and psychiatric conditions. In this webinar we will review the basic neurobiology of memory and various forms of memory in normal cognition, including associative memory and working memory. We will then review various amnesic syndromes, e.g. anterograde and retrograde amnesias; and types of memory impairments across a wide range of brain disorders. We will discuss memory changes in aging and efforts to protect it.

### Brain Disorders and Criminal Behavior

September 14 (Thursday), 2023, 1 pm – 4:15 pm EST  
Various brain disorders may alter behavior in ways that result in behaviors judged by society as antisocial or outright criminal. Ultimately the judgment whether certain acts are criminal and to what extent (if any) a history of brain disorder is a mitigating factor, rests with the legal system. However, mental health professionals can make important contributions to these decisions in an advisory capacity. In this webinar we will review some of the conditions with which aberrant behaviors may be associated. These include dementias, neurodevelopmental disorders, TBI, seizures, space occupying lesions, neuropsychiatric disorders, and others. It is important for clinicians working with these populations to be aware of the potential for socially aberrant behavior, which may be predicated, entirely or in part, on the intrinsic properties of underlying brain disease and associated cognitive impairment.

### Aging and Dementias

September 21 (Thursday), 2023, 1 pm – 4:15 pm EST  
Dementias are among the most prevalent neurocognitive disorders presenting a unique set of clinical and societal challenges. We will review several major types of dementia: Alzheimer's disease, Lewy body dementia and its relationship to Parkinson's disease, frontotemporal dementia, vascular dementia, and others. For each of them we will discuss the underlying neurobiology, epidemiology, natural history, diagnosis, and cognitive characteristics. We will also discuss cognitive aging, as well as associated protective and risk factors.

### Laterality and Functional Organization of the Brain

September 23 (Saturday), 2023, 1 pm – 4:15 pm EST  
In this webinar we will discuss why the traditional understanding of hemispheric specialization fails to capture all its essential aspects, and will introduce a new understanding of brain laterality which permits a broader evolutionary perspective. We will review the neuroanatomical and biochemical differences between the two hemispheres; their respective (and changing) roles in cognition across the lifespan; the relationship between hemispheric specialization and emotions.

### Long NEUROCOVID: What Has Been Learned

September 24 (Sunday), 2023, 1 pm – 4:15 pm EST  
New information will be presented about the evolution of the pandemic, challenges associated with vaccination, and the variants. As the pandemic evolves, its character changes. Vaccines are here, but so are the new virus variants. We have a better understanding of the mechanisms of acute and long NEUROCOVID, and of its impact on various segments of the population. NEUROVID in children and in the elderly is of particular concern, as well as its being a risk factor for later-life dementia. The burden of the pandemic on the overall psychological state of the world is growing, but so are the arsenal of tools to counter its effects. These and other issues will be discussed in the new webinar.