

Format	Title	Length of Lecture/Time to Complete (in minutes)	Contact Hours	CEUs	Lecturer	Behavioral Objectives	Content Overview	Teaching Methods
Lecture 1	Overview of Neurogenetics	60	1	0.1	Elizabeth Baker, MD	Review basic embryonic development, brain anatomy, and common neurological studies utilized to evaluate for neurological abnormalities. Describe 3 classification systems for neurogenetic disorders including location, genetic, and phenotype based. Identify characteristics, symptoms, and inheritance patterns of common disorders impacting the central and peripheral nervous system.	This lecture defines neurogenetics and the 3 classification systems for neurogenetic conditions. He touches on many diseases, both congenital and adult onset, that will be explored further in future lectures	pre-recorded webinar
Lecture 2	Genetic Counseling for an Adult Onset Neurogenetic Condition: the Example of Huntington Disease	45	0.75	0.075	Kathleen Collins, MS, LGC	Discuss clinical features and genetics of Huntington Disease Explore the genetic counseling process for Huntington Disease and HD gene testing Review Huntington Disease management and treatment.	This lecture explores the adult onset condition Huntington Disease, including its progression, genetics, and issues surrounding genetic counseling for such adult onset conditions.	pre-recorded webinar
Lecture 3	Epilepsy Genetics	30	0.5	0.05	Abby Turnwald, MS, LGC	Describe common syndromes associated with epilepsy Review genetic testing options, testing strategies, and test considerations. Recognize the psychosocial impact of epilepsy disorders	This lecture introduces epilepsy by defining the disorder, listing seizure types, discussing common causative genes, and discussing what to focus on in a genetic counseling session	pre-recorded webinar
Lecture 4	Amyotrophic Lateral Sclerosis (ALS)	45	0.75	0.075	Robert Hopkin, MD	Identify symptoms of ALS Describe the inheritance, testing, and treatment options of ALS Outline genetic counseling issues related to ALS	This lecture defines ALS, describes the progression, explains the genetics, and discusses relevant testing considerations for a genetic counseling session.	pre-recorded webinar
Lecture 5	Tuberous Sclerosis	60	1	0.1	Jennifer Glass, MS, LGC	Identify common clinical features of Tuberous Sclerosis Explain inheritance, testing options and considerations related to Tuberous Sclerosis. Explore genetic counseling issues and psychosocial impact of Tuberous Sclerosis.	This lecture will define Tuberous Sclerosis, discuss the wide variability and multi-system nature of the disease, explain the genetics, and discuss relevant issues in genetic counseling.	pre-recorded webinar
Lecture 6	Leukodystrophies	60	1	0.1	Carlos Prada, MD	Define characteristics of leukodystrophies Identify the structure and function of myelin. Describe the clinical features and inheritance patterns of different specific leukodystrophies	This lecture defines leukodystrophy including relevant brain anatomy, discusses the presentation of these conditions, and examines diseases that cause leukodystrophy	pre-recorded webinar
Lecture 7	Familial Strokes	45	0.75	0.075	Stacie Demel, DO, PhD	Describe the basic terms and terminology used in genetic research Describe monogenic disorders associated with stroke Understand that most strokes have hereditary component, but it is polygenetic	This lecture introduces strokes and their risk factors, discusses the genetic basis of strokes and several conditions that cause strokes, and examines the use of GWAS in detecting these conditions	pre-recorded webinar
Lecture 8	Genetic Counseling for Congenital Brain Abnormalities	60	1	0.1	Emily Partack, MS, LGC	Identify characteristics of prenatal and postnatal brain imaging studies such as fetal ultrasound, fetal MRI, and postnatal brain MRI. Describe features and outcomes associated with brain abnormalities identified in the prenatal and pediatric setting. Review testing options and genetic counseling issues associated with congenital brain abnormalities.	This lecture defines prenatal and postnatal brain abnormalities, explores imaging used to detect and diagnose conditions, explains several common malformation, and discusses genetic counseling considerations.	pre-recorded webinar
Lecture 9	The Genetics of Progressive Causes of Dementia	45	0.75	0.075	Russell Sawyer, MD	Understand the Autosomal Dominant forms of Alzheimer's disease Understand how APOE e4 plays a role in late onset Alzheimer's disease Understand what is Frontotemporal Demetia (FTD) Autosomal Dominant causes of FTD Emerging therapies in FTD	This lecture defines cognition, and explores the cause, symptoms, and genetics of neurodegenerative disorders such as Alzheimer's and Frontotemporal Dementia	pre-recorded webinar
Lecture 10	Posterior Fossa Malformations	30	0.5	0.05	Emily Partack, MS, LGC	Identify common imaging findings for posterior fossa malformations. Evaluate prognosis for varying posterior fossa malformations. Identify genetic conditions associated with posterior fossa malformations.	This lecture defines posterior fossa malformation, and addresses several conditions including Dandy-Walker, Joubert, and others by their cause, presentation, and outcome	pre-recorded webinar
Lecture 11	Migrational Disorders	45	0.75	0.075	Robert Hopkin, MD	Describe the features and outcomes of common migrational disorders including lissencephaly, pachygyria, schizencephaly, polymicrogyria, and heterotopia and related genetic syndromes Distinguish common causes of migrational disorders	This lecture explores migrational conditions including lissencephaly, polymicrogyria, pachygyria, and several others in terms of presentation, associated syndromes, known genetic contribution, and outcomes	pre-recorded webinar
Lecture 12	Syndromic Malformations of Brain Vasculature	75	1.25	0.125	Katie Wusik, MS, LGC	Identify types of vascular malformations Discuss different causes of vascular malformations including germline and mosaic genetic mutations Describe common syndromes that involve malformations of brain vasculature including HHT, CCM, Sturge-Weber, and others	This lecture defines common vascular malformation, and describes syndromes caused by both germline and somatic mutations, as well as syndromes associated with brain aneurysms and other vascular anomalies	pre-recorded webinar
Lecture 13	Holoprosencephaly	30	0.5	0.05	Robert Hopkin, MD	Define characteristics of holoprosencephaly (HPE) and its types Describe the causes of HPE, both genetic and environmental Identify conditions which have HPE as a symptom	This lecture defines HPE and its types, describes embryological brain malformation, identifies genetic and non genetic causes, and discusses a variety of syndromes associated with HPE.	pre-recorded webinar
Lecture 14	Inborn Errors of Metabolism - CNS involvement Part 1	60	1	0.1	Barbara Hallinan, MD Cecilia Goueli, MS, LGC	Identify features common to the conditions discussed Consider differential diagnosis and diagnostic strategies Identify counseling issues specific to these conditions	This lecture uses case studies to describe the clinical presentation and diagnostic odyssey of patients with GLUT1 and NKH. She also describes the genetics and treatment of each condition	pre-recorded webinar
Lecture 15	Inborn Errors of Metabolism - CNS involvement Part 2	45	0.75	0.075	Barbara Hallinan, MD Christine Spaeth, MS, LGC	Identify features common to the conditions discussed Consider differential diagnosis and diagnostic strategies Identify counseling issues specific to these conditions	This lecture uses case studies to describe the clinical presentation and diagnostic odyssey of patients with NCL and NBIA. She also describes the genetics and treatment of each condition	pre-recorded webinar
Self-Paced Case Modules	Neurogenetics Case Modules	30	0.5	0.05	NA	Incorporate knowledge of neurogenetics to process a neurogenetics case. Demonstrate neurogenetics knowledge through case-based learning.	These case modules allow learners to walk through 3 different cases and make decisions about what information or testing they would like. This then takes then down different paths and provides feedback about their choices ultimately leading to a diagnosis for the case.	self-paced modules
Total		765	12.75	1.275				