



Pediatric Neurology: Chapter 105. Normal and abnormal cerebrovascular development: gene-environment interactions during early life with later life consequences (Handbook of Clinical Neurology)

Mark S. Scher

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A greater understanding of cerebrovascular health and disease requires the consideration of recent neuroscience advances concerning neuroplasticity in the context of classical developmental neurology principles. Consideration of the ontogenetic interplay of nature and nurture influencing brain development during prenatal and early postnatal time periods should consider the concept of the developmental origins of neurological health and disease. Adaptive and maladaptive effects of neuroplasticity require a systems biology approach integrating molecular, receptor, cellular, neural network, and behavioral perspectives, culminating in the structural and functional cerebrovascular phenotypes that express health or disease across the lifespan. Cognizance of the interrelationships among maternal, placental, fetal, and neonatal factors requires an interdisciplinary appreciation of genetic/epigenetic forces of neuroplasticity during early life that incrementally influence cerebrovascular health or disease throughout childhood and adulthood. Knowledge of the systemic effects of multiorgan function on cerebrovascular development further broadens the systems biology approach to general plasticity of the individual as a whole organism. Short- and long-term consequences of the positive and negative effects of neuroplasticity must consider ongoing gene-environment interactions with maturation and aging, superimposed on earlier fetal/neonatal experiences that sustain neurological health or contribute to disease during childhood and adulthood.

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