The Cleveland Clinic Epilepsy Center proposes an innovative response to the HRSA call, “Strategic Approaches to Improving Access to Quality Health Care for Children and Youth with Epilepsy (CYE)”. Our project, entitled IMPACTT (Integrating Mobile Provider Access for Telemedicine and Transition) addresses the needs of children and youth with epilepsy and their families in three designated Medically Underserved Areas (MUAs). The goals of the project are: (1) to provide care to CYE through a patient/family-centered medical home; (2) to provide transition planning for CYE; (3) to implement telemedicine with CYE and their families at CCF main and 9 clinical sites; (4) to establish a Learning Collaborative involving 9 pediatric primary care sites; and (5) to increase outreach and family engagement, using educational webinars. These goals will be accomplished by 1) implementing evidence-based and innovative models of using health information technologies; 2) implementing the Got Transition Six Core Elements Framework to help youth successfully transition from the pediatric to adult system of health care; and (3) facilitating outreach and education regarding epilepsy among pertinent stakeholders.

Five advanced technology programs will be include in the project: (1) telemedicine, including face to face cameras for consultation with patients and between primary care doctor and specialist; (2) use of MyChart, the Cleveland Clinic technology based record keeping and communication system available to all patients and physicians; and (3) mHealth for patients, a phone-based or computer based application, (4) webinars, and (5) the StandUp bully prevention program.

Project activities and evaluation will follow a Continuous Quality Improvement framework. The 9 sites will participate in a Learning Collaborative that will provide both training and access to expert consultation for primary care providers. Over the three years of the grant, Cleveland Clinic Pediatric Epilepsy and the 9 clinical sites combined will serve at least 1,000 CYE; all of the CYE served by the project will have a seizure action plan in place. Of the nine clinical sites, three are in HRSA designated medically underserved areas (MUAs), constituting about 38% of patients served by the grant. Partnering with families and CYE, Pediatricians, Primary Care providers as well as with Case Western Reserve University, the project will advance engagement and outreach in a broader geographic region in Ohio, resulting in improved services for CYE in Ohio.