The intent of this statement is to describe the breadth of issues that have special pertinence to pediatricians who care for children and families affected by genetic disorders and other chronic health conditions. Early diagnosis, excellent dietary management, biochemical interventions, and good general medical care have begun to erase the previous limits, with a steadily increasing number of patients leading healthier and longer lives. Pediatricians are the more highly qualified to serve them, by virtue of their training and experience, and to provide them a “medical home.” This statement is designed to assist pediatricians in the treatment of these patients by describing their potential roles in relationship to their patients’ changing needs, as they work with various members of the health care team. Pediatricians have a critical role in diagnosis, interdisciplinary planning, acute care delivery, and long-term treatment of children and adolescents with genetic disorders and other chronic health conditions. During the last decade we have witnessed dramatic changes in the diagnosis and treatment of genetic disorders in children that have fundamentally altered the way pediatricians view such conditions. Using the latest scientific information, pediatricians are in the unique position of assisting children who have genetic conditions to reach their full potential. This goal is best achieved by facilitating the integration of the child and family into the community while minimizing the effects of the genetic condition on the child’s overall growth and development. Individuals with genetic and other chronic health conditions and their families confront a seemingly endless series of stressors in their daily lives which may burden families emotionally, socially, and financially. Pediatricians have a key role in the provision of family-oriented, community-based services that recognize the need for the provision of continued multidisciplinary care that will mitigate the adverse long-term physical, developmental, educational, and psychosocial consequences of genetic and other chronic conditions. Pediatricians must stay abreast of the impressive scientific advances that have been made in genetic services while retaining their perspective on the art of the daily practice of medicine to meet the needs of children with genetic or other chronic health conditions and the needs of their families.