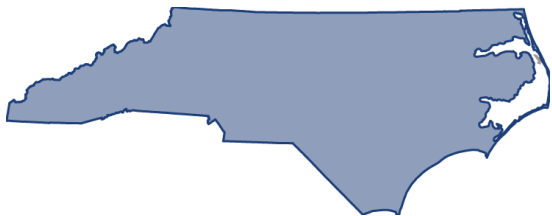


North Carolina & National Institute of Dental and Craniofacial Research



FY20 Total Funding: **\$9,903,284**

Number of Institutions Funded: **4** (Carolinas Medical Center; Duke University; Epiccypher, Inc.; University of North Carolina Chapel Hill)

Number of Grants Awarded: **24**

Number of Congressional Districts with NIDCR Grants: **3**

Improving North Carolina's Oral Health Through NIDCR Funding:

- The University of North Carolina at Chapel Hill is researching pediatric-transmitted HIV. Mother-to-child-transmission (MTCT) of HIV continues to be high in developing countries where breast-feeding is a necessary means to provide nutrients and protective immunity against many co-infecting pathogens to HIV-1 exposed infants. Thus, a pediatric HIV vaccine is urgently needed. The goal is to identify delivery strategies that can prevent breast milk transmission of HIV in newborns. The immaturity of the infant immune system is a unique challenge in pediatric vaccine design. By testing several models, researchers hope to improve the pediatric immune system and determine whether oral application of the adjuvanted DNA prime vaccine will result in better induction of vaccine-induced immune responses at the site of viral entry compared to systemic administration.
- At the Carolinas Medical Center funding was awarded to develop a clinical registry for the dental outcomes of patients treated for head and neck cancers. Treatment for these types of cancers has a wide range of negative effects on oral health, and compiling the data and outcomes of patients treated will help discover what treatments are most effective in improving oral health both at the time of treatment and in the future.

