CHARGED³

Children's Health & Resource Geographic Exploration for Data-Driven Decisions

CHARGED³ is a collaborative project with an interdisciplinary team of GIS and health IT specialists, data scientists, web developers, maternal and child health experts, psychologists, and health services researchers. Funded by the Duke Endowment, the project is equipping others to identify clusters of health "advantage" and "disadvantage" within South Carolina and, in turn, engage stakeholders to improve children's lives.

Through CHARGED³, the Institute for Families in Society (IFS) has developed a Geospatial Environmental Scan© (GeoEScan©) that gives users the ability to identify relevant geographic patterns, at-risk areas, and community-based resource availability while providing a contextual framework to strengthen needs assessments, planning and service delivery.

What it offers you, the health care professional

As an interactive PDF, the CHARGED³ GeoEScan© allows you to geographically explore health characteristics and resources for SC children ages 0-5. It gives you critical information that supports planning, resource allocation, partnership development, and other decision-making processes through interactive map layers and tabled data. See the other side for a partial list of the specific data elements.

Why it matters

In SC, there are about 280,000 children ages 0-5. One quarter live below the poverty level and two thirds live in Primary Care Health Professional Shortage Areas. We all know that children's needs exist across multiple dimensions including access to care, continuity of care, family support resources, and program availability. **This tool integrates the data you need to look at these issues from a new perspective.**

TRY IT

This free GeoEScan© is now available online!

schealthviz.sc.edu/CHARGED3

THE CHARGED³ PROJECT IS FUNDED BY THE DUKE ENDOWMENT.

Use the GeoEScan© to

- identify areas of high socioeconomic disadvantage;
- examine geographic patterns of disease burden;
- evaluate availability and access to local health care facilities;
- identify potential health and service gaps; and
- target interventions in high-need areas at multiple levels of geography.

THE AVAILABLE DATA

Birth Outcomes and Mortality

Ratio of Children to Child-Serving Primary Care Providers

Food Deserts by Census Tract

Primary Care Health Professional Shortage Areas (HPSAs)

Maternal, Infant, and Early Childhood Home Visiting Locations

Early Childhood Programs and Agencies

Location of Pediatric Psychiatrists

% of the SC Population With Public Insurance, by Zip Code Tabulation Area (ZCTA)

SC Population Counts of Children Ages 0-4 With a Disability

SC Population Counts for Those Having an Adverse Childhood Experience

Census data related to socioeconomic status and locations of facilities and providers

+
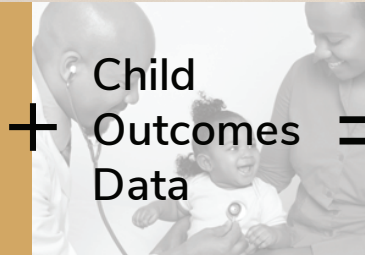
Child Outcomes Data

=

A strong contextual framework to explore child outcomes and determinants of well-being status

The tool equips you to geospatially see community-level patterns that can help identify and address resources, gaps, and needs.

schealthviz.sc.edu/CHARGED3

Institute for Families in Society
Improving Policy. Advancing Practice.
Strengthening Communities and Family Well-Being.

James B Duke
THE DUKE ENDOWMENT