Invest in the future of US health statistics: The case for funding NCHS at $210 million in FY23

NCHS’ Two Overarching Drivers for Innovation and Investment

1. Data-user demand for
   a. More real-time data to inform core indicators of health and health care*
   b. More granular data on key population subgroups including those defined by age, gender, sexual and gender identity, race and ethnicity, socioeconomic status and geographic area.
   c. Data on health and health care equity*
   d. Expanded information on social determinants of health and health care,* including economic stability, healthcare quality/access, education, social and community context, and physical environment.
   e. Expanded information on selected topics of interest (e.g., maternal and infant health).

*Supports Biden administration priority on COVID-19 pandemic or equity.

2. NCHS challenges/threats
   a. Existing programs becoming outdated in terms of topics covered, methodology, and technology resulting from a 14% loss of purchasing power since FY10. This has reduced the scope of the data collections and made significant methodological and technology improvements impossible.
   b. Declining response rates require additional investment in data collection methods and new technologies that not only improve response but also allow for the determination and correction of non-response bias. Investments are needed to support research in a variety of areas to improve data quality, granularity and timeliness.

THE CHALLENGE: NCHS must fulfill demand for new data products and data that are more real-time, higher frequency, and more granular while maintaining its current data products.

All the NCHS statistical systems need to be significantly changed over the next three to four years. The challenge is that their statistical systems are needed in the field while these wholesale changes take place. The data from the current systems are for now the gold standard for measuring health status, changes in health outcomes for the most vulnerable and emerging health issues for the nation. Funds are needed to test and innovate, while NCHS continues to provide these needed data now. Without these funds to innovate in a significant way, all that can be done is innovate around the edges to try to maintain quality.
The Friends of NCHS recommend $210 million in FY23. The $35 million increase over the FY21 level could be used in the following ways:

1. **EHRs**: Data collections based on existing electronic Health Records (EHRs) provides a significant resource to better understand care provided by the US healthcare system at the national, state and local level but investments are needed to harness this resource so that it can provide close to real time interpretability - a base investment of $23 million is recommended (EHR purchasing, staffing, research, cloud migration).

2. **Data linkage**: The usefulness of data obtained through surveys and from administrative systems is exponentially increased when these sources are linked *especially when examining the impact of social determinants of health*. However, the interpretability of the linked data is directly related to the linkage methods used and the evaluation methods applied - a base investment of $3 million is recommended (research, staffing, privacy protection).

3. **Expanded data collections and real time surveys**: More granular data are needed to address health equity issues which requires that data collection be based on large enough samples to produce stable subgroup estimates. In addition, the collection of high-quality data has traditionally taken time but for some uses time is not an option. Methods exist to obtain data more quickly, but these have documented quality limitations. An innovative approach is to expand the traditional, high quality data collection and real time surveys and to marry the two sources to create a means to monitor key indicators on critical subgroups in close to real time - a base investment of $5 million is requested (research, message testing, staffing, implementation).

4. **New data sources and data science techniques**: Because of expanding data requirements and limitations of existing systems including declining response rates, expanding current data collections alone is not enough. Availability of private sector data sources has tremendous potential, but significant research based on developing data science techniques and advances in modeling is needed to ensure resulting statistics are accurate and representative- a base investment of $2 million is requested (research, staffing).

5. **Beyond vital statistics**: While vital statistics provide the backbone of any public health data systems, the scope of the information collected is limited. Building on the core vital statistics system to increase the scope of the information provided and linking the information with related information from the health care system and from population surveys will address the data gap. Maternal and infant health are examples of areas where expansion could be implemented - a base investment of $2 million is recommended (research, staffing, implementation).

### How the 5 components of the $35 million recommendations meet NCHS needs and challenges

| Electronic health records | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Data linkage | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Expanded data collection & real-time surveys | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Beyond vital statistics | ✔ | ✔ | ✔ | ✔ |
| Data sources & data science | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |