Transform health care in your state: Improve care delivery and contain costs with deeper population insights

The Issue
CMS and US Census data forecasts that there will be 300 million insured by 2024, which will result in an explosion of health and nonhealth data from service providers and enrollees. EMC estimates that health care data is growing 48 percent annually and will reach 2,314 exabytes by 2020.

To manage this data, health information exchanges, all-payer claims databases and insurance exchanges have been created. But most organizations still can’t use them to look at the entire health care ecosystem and the relationships between health and nonhealth data.

To address this, the federal government has supported state health innovation models, CMS demonstration waivers for Medicaid (CMS 1115) and modernized MMIS systems built with the Medicaid Information Technology Architecture. These initiatives enable states to use federal support as they move toward better data analysis and blend health and nonhealth services data. But they also pose massive technology challenges for state governments responsible for driving reform, establishing more effective and lower cost care, and reforming service and payment models. How can they manage and govern this data and enable analytics that can be quickly and effectively used across the population health continuum?

Our Approach
SAS® helps states unify and understand their data so they can increase transparency and improve population health through better access to care, quality of care and cost control. Now you can:

- **Holistically understand population health.** SAS integrates, cleanses, links and enhances data within and across agencies. Analytics, reporting and data visualization software lets you understand population health and the complex interdependencies between health and nonhealth data.

- **Answer complex questions.** By creating linkages and enhancements to health and nonhealth data, and visualizing results, SAS provides fast, accurate answers to complex questions.

- **Enhance the overall health of the population.** SAS Analytics generates insights needed to make reforms work; establish higher quality, effective, lower cost care; and reform service, payment and delivery methods across the population health continuum.

- **Drive strategic, data-driven public health initiatives.** Use SAS to look at the entire continuum of care across all public services. Drive initiatives that go beyond health care, such as state health innovation modeling and planning, Medicaid and welfare integrated service analysis, child well-being monitoring and biosurveillance.

*Business Impact*

“Now providers can begin to see patterns on what treatments are helping consumers function most effectively.”
Chief of Research and Evaluation at a County Department of Behavioral Health

*Challenges*

- **Managing massive growth in health care enrollment and costs.** CMS and US Census data forecasts that by 2024, the US insured population will exceed 300 million and total health care expenditures will exceed $5.4 trillion.

- **Balancing health outcomes and costs.** States need to strategically manage the health and outcomes of populations while being fiscally responsible.

- **Understanding patients and populations more fully and deeply.** As data volumes explode, states struggle to aggregate, link and analyze health and nonhealth data to provide better public services.

- **Creating a holistic citizen service plan.** States need a plan that directly affects not just health, but nearly all of the public services that a citizen utilizes.

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The SAS® Difference:
A 360-degree view of the population
SAS goes beyond traditional solutions by providing:

• **Tools to integrate disparate health and social services data** - such as health care, criminal justice, food stamp and housing data - for a holistic, 360-degree view of the population.

• **Fully functioning standard models and definitions** that keep costs affordable and can be customized to meet specific needs.

• **Reporting and analytics built into SAS Visual Analytics software,** enabling users to copy and customize standard views, analytics and reports, and generate ad hoc queries.

• **Intuitive tools to spot trends and model scenarios** without the need for analytics expertise.

• **The ability to report on and analyze entire data sets** on the fly. Develop hierarchy drill downs, create combinations of fields, publish reports with one click, and more.

• **Prebuilt data and analytics models** that create linkages and enhancements to health and nonhealth data so results can be visualized in a meaningful way.

Case Study:
A county department of behavioral health

Situation
A county department of behavioral health needed to find ways to treat behavioral health issues in an efficient and cost-effective manner.

Solution
SAS designed an enterprisewide, electronic health record and a data warehouse. It integrates data from a dozen different systems and is compatible with systems used by the county’s medical community. The solution is part of a comprehensive statistical and analytical package encompassing training, coordination, consulting, and product and knowledge transfer.

Results
- The department has a holistic, integrated view of consumers that allows the county to analyze needs, design effective programs and predict – and plan for – current and future needs.
- Staff have a data-driven decision support system to support, not replace, professional judgment.
- Performance-based outcome measures help providers understand how and where to improve.

What if you could …

**Gain a complete view of your population?**
What if you had a 360-degree view of your population and understood not only their health, but also how other factors and social determinants affect their future health?

**Get fast answers to complex questions?**
What if you could consolidate, cleanse and visually explore massive volumes of health and nonhealth data from any system - in any format - quickly and efficiently?

**Integrate cross-agency data?**
What if you could deploy a population health solution in one agency - and gradually integrate it with statewide data to support broader public health and service initiatives?

You can. SAS gives you THE POWER TO KNOW®.

SAS Facts
- For more than 30 years, SAS has provided advanced analytics support for both public/private health care initiatives across the globe.
- SAS clients include nearly every state department of health, CDC, FDA, CMS, NIH, ONC, health insurance payers, pharmaceutical companies, health care providers and more.
- Today, SAS has customers at more than 75,000 sites worldwide.

Learn more at: sas.com/en_us/industry/government.html#health-care