

Leverage detailed healthcare data

Health Facts

What factors drive clinical decisions? Who, where and when are medications used in the healthcare setting? How effective is one treatment compared to another?

For pharmaceutical and biotechnology companies and clinical researchers, these are critical questions that can be answered by Cerner *Health Facts*[®], a comprehensive source of de-identified, real-world data that is collected as a by-product of patient care. Cerner aggregates the data provided by participating facilities and uses stringent quality assurance processes to ensure the ongoing integrity of the information. Our experienced biostatisticians and researchers bring their deep understanding of the data to every analysis project.

Cerner *Health Facts* is a HIPAA-compliant database collected from participating clinical facilities. The solution gives pharmaceutical and biotechnology companies the ability to track a drug's usage across diagnoses and major procedures, as well as by geographic region and hospital type. Additionally, these companies can determine how and when clinicians use a drug or device and gain valuable insights into clinical decision making.

Health Facts is the industry's only data source that uses a comprehensive clinical record with pharmacy, laboratory, admission and billing data from all patient care locations that is time-stamped and sequenced. With *Health Facts*, you gain deep insight into real-world practice patterns, clinical decision making, usage and care strategy. This translates to clinical accuracy and increased confidence in the conclusions drawn from the *Health Facts* data.

By analyzing specific healthcare encounters, you can assess:

- Pharmacy order information, including drug National Drug Code numbers and formulary or dispensing details
- Laboratory orders and results, including microbiology culture and sensitivities
- Organizational, gender and age-specific reference ranges with results to facilitate



Key Benefits

- “Real-world” observational data outside the context of a clinical trial
- Time-stamped laboratory values that give rich details into comorbid conditions, organ dysfunction and adverse clinical events and provide the ability to make appropriate adjustments in multivariate analyses
- Microbiology data that provide deep insight into infectious disease and antibiotic resistance

the study of medications, associated complications or side effects in different patient populations

- Date and time stamps on lab and pharmacy data elements that reveal cause-and-effect associations and dose-response effects after administration of a drug

Health Facts can answer specific questions about practice patterns, treatments, and outcomes such as:

- Do laboratory test results indicate evidence of adverse drug reactions?
- How quickly after chemotherapy does thrombocytopenia occur?

Solution at a Glance

The Cerner *Health Facts* database helps researchers better understand the real-world use, impact and comparative effectiveness of different treatments.

Health Facts research database

- More than 1.3 billion laboratory results
- More than 84 million acute admissions, emergency and ambulatory visits
- More than nine years of detailed pharmacy, laboratory, billing and registration data
- More than 151 million orders for nearly 4,500 drugs by name and brand

- What are the demographic and clinical characteristics associated with a given drug treatment?
- What concomitant drugs did the patient receive?
- What drugs comprised the empiric regimen and what subsequent changes were made to that regimen?
- What are the actual doses or treatment regimens for specific patient populations or age groups?
- How are dosing and treatment regimens changing over time?
- Were certain dosing patterns linked to different outcomes?
- Do practice patterns differ by physician specialty or hospital type (size, teaching status, urban/rural)?
- Did the clinicians adhere to recommended treatment guidelines?
- Does the timing of this medication affect outcomes?
- What was the length of stay and what are billed charges?
- What was the in-hospital mortality for a given condition and what factors were associated with death?

Innovation and leadership

Cerner is the nation's leading supplier of healthcare information technology. Around the world, health organizations ranging from single doctor practices to entire countries turn to Cerner for our powerful, intuitive solutions that optimize clinical and financial outcomes. We offer clients a dedicated focus on healthcare, an end-to-end solution and service portfolio, and proven market leadership.

Cerner's exclusive focus on healthcare spans more than a quarter century. Through consistent leadership of our three founders, we have pursued a single vision: apply electronic health records to create healthy communities.

Cerner is transforming healthcare by eliminating error, variance and waste for healthcare providers and consumers around the world. Cerner solutions optimize processes for healthcare organizations ranging in size from single-doctor practices, to health systems, to entire countries, for the pharmaceutical and medical device industries, and for the healthcare commerce system. These solutions are licensed by more than 8,000 facilities around the world.

For more information, call 866.221.8877, option 1 or visit www.cerner.com/lifesciences.

