Business Enabled Acquisition and Technology

Clinical & Health Informatics

What are Informatics?

Healthcare providers rely on high-quality, up-to-date data when assessing their patients. With the ever-increasing availability of digital patient information from electronic health records (EHRs), medical images, and other sources, more data is available to clinicians than ever before. Yet, all this valuable information is useless if it can't be understood and communicated. *Clinical informatics* is the application of information technology within healthcare settings. *Health Informatics* is the development of methods and technology for the collection, storage, processing, and communication of health data, information, knowledge, and wisdom. *Informaticists* evaluate the efficacy and operation of clinical information systems, how the information is used, and how to best improve the quality of care. With over a decade of experience delivering informatics solutions to our DoD and Federal clients, BEAT has the expertise to provide informatics that not only improve the health status of every patient but the overall quality of healthcare delivery. Let BEAT's team of experts transform even the biggest challenge into a quantifiable success. **See below for an Informatics Comparison Chart.**

HEALTH INFORMATICS

PEOPLE
Clinicians with health IT capability researchers and scientists

FOCUS
General healthcare services

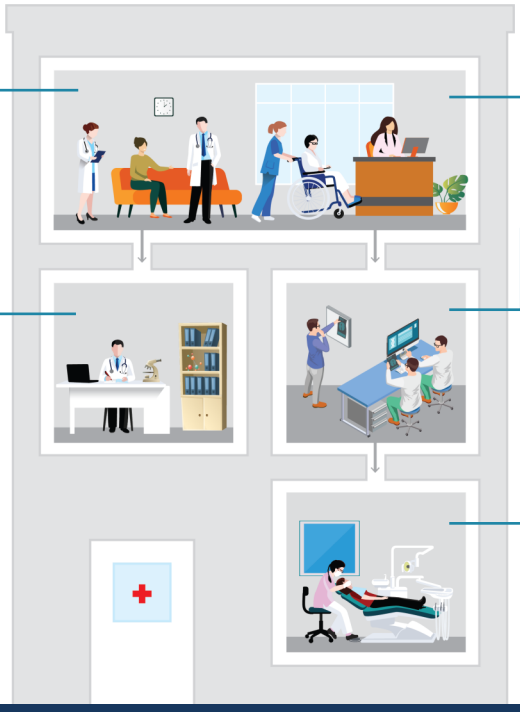
TECHNOLOGY
Health information technology systems

PHARMACY INFORMATICS

PEOPLE
Clinicians, Pharmacists Pharmacy Informaticists

FOCUS
Biomedicine and clinical insights

TECHNOLOGY
Biotechnology, AI, cloud computing



OCCUPATION and ENVIRONMENTAL HEALTH

PEOPLE
Clinicians with health IT capability

FOCUS
Clinical practices and patient care plans

CLINICAL INFORMATICS

PEOPLE
Clinicians, Support Staff, Clinical Informaticists

FOCUS
Clinical practices and patient care plans

NURSING INFORMATICS

PEOPLE
Bedside nurses involved in hospitals IT Plans

FOCUS
Bedside nursing and healthcare information system evaluation

TECHNOLOGY
EHRs

BEAT Expertise

- Knowledge
- Approach
- Experience
- Leadership

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DHA's Virtual Health Program

BEAT supports the Military Health System Virtual Health Program (MHS VHP) Program Management Office, the Pacific Asynchronous Telehealth System (PATH) /Health Experts onLine Portal (HELP) system, the Video Visits (V2) program at Naval Hospital Jacksonville, the DHA Virtual Medical Center Europe, the DHA Enterprise Video Network Center, and the Naval Medical Center San Diego Tele-Critical Care Unit. Areas of expertise include all aspects of virtual health IT delivery, Health Surveillance/Health Registries, Preventative Medicine, Occupational and Environmental Health, Cybersecurity for Bio-Medical Devices, Natural Language Processing (Medical Lexicons), Robotic Process Automation, "Sunsetting" and Decommissioning Systems.

DHA's Pharmacy Data Warehouse

BEAT supported the Enterprise Intelligence and Data Services (EIDS) Program Management Office through the development and execution of population studies, prevention, managed care, medical readiness issues, health promotion, and clinical preventive services. Additionally, our efforts included executing cohort studies; providing analytics for healthcare-related projects and tasks; monitoring pharmacy drug usage and expense trends to achieve quality, cost-effective pharmaceutical care; assisting with knowledge management; and creating predictive models.

Madigan Army Medical Center (MAMC)
Cerner Military Health System GENESIS Training

BEAT provided full spectrum training for the Cerner Millennium MHS GENESIS electronic health record system and Henry Schein Dentrix applications as well as a Nurse Informaticist in support of MAMC medical readiness at Joint Base Lewis McChord in Tacoma, Washington, and its satellite clinics. Our team conducted virtual, classroom, and individual training programs as well as exercises and validation of exams; provided remedial assistance to students; acted as a resource and problem solver during application roll-out; monitored and reported the effectiveness of training; and performed workflow analysis and documentation for new applications.

Madigan Army Medical Center Natural Language Processing (NLP)

BEAT delivers services in support of NLP and its sub-discipline of Information Extraction within clinical records to process large quantities of unstructured (human authored) text and return structured information about its meaning. The goal of this project is the development of an algorithm used to determine the length of time needed for a soldier to be on a medical profile. Allowing a standardized algorithm to generate a profile increases efficiency for providers and gives commanders a predictable timeframe on which to expect their soldiers to return to duty.

CMMI DEV/3