



CHEER APPLIED

cheerapplied.org

Your National Resource Network in Otolaryngology

CHEER APPLIED represents the alliance of health care providers, health care investigators, patients, and sponsors of health initiatives. The alliance encourages innovation grounded in solid and competent data management, contemporary and relevant analytic methodologies, and collaborative insight for the interpretation of data extracted from complex arrays of administrative and clinical data.



CHEER Applied - DARTNet

CHEER Applied is launching a collaborative project with DARTNet Institute to develop capability to extract data elements from the clinical record for research and physician quality reporting. If you are using one of a number of common EHRs (see the CHEER Applied website), you could be eligible to receive full support for this powerful demonstration project. A limited number of sites will be selected for this trial.

DARTNet technology is HIPAA compliant and will ensure that the data extracted is analyzed and reported accurately to YOU. The aggregate data collected in this initiative will be used to refine the data extraction specifications and processes before being rolled out as a fee based service to other practices. Early adopter sites will be fully supported for a period of 3 years. Fees are expected to be very reasonable, based upon the complexity and frequency of the reporting each practice elects.

BENEFITS OF THE COLLABORATION:

1. Practices that participate in research initiatives within our DARTNet project may be qualified for fee waiver based upon Board review and approval
2. Nominal fees for data and descriptive statistics for site-based requests
3. Quality reports for site/physician use
4. Partnership opportunities with CHEER to develop compelling projects to submit for funding

Consolidated Database in Otolaryngology (CDO)

All too often, the data from published clinical research ends up buried in a research e-file along with thousands of other files. The older the data gets, the greater chance is that it will be forgotten all together.

The CDO solves this problem through collaborative consolidation of data by translating de-identified, published, clinical research data into the CDISC standardized variable format. This collective strength in research information empowers the future of meta-analyses and promotes evidence-based clinical decision-making.

CONTRIBUTORS TO THE CDO HAVE A NUMBER OF BENEFITS:

1. Easy access to your research data
2. Data extraction for meta-analyses
3. Data for use by your approved mentees
4. Increased citations of your work: data extracted for use must be cited where the investigator used your data from the CDO with a new publication
5. An appropriate solution to NIH data use and access requirements

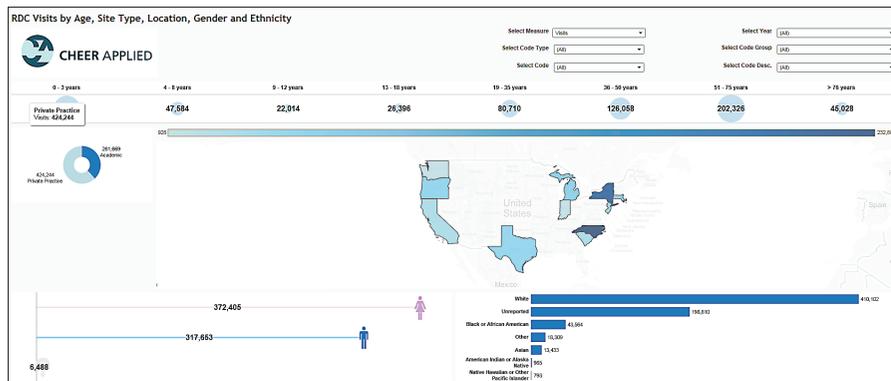
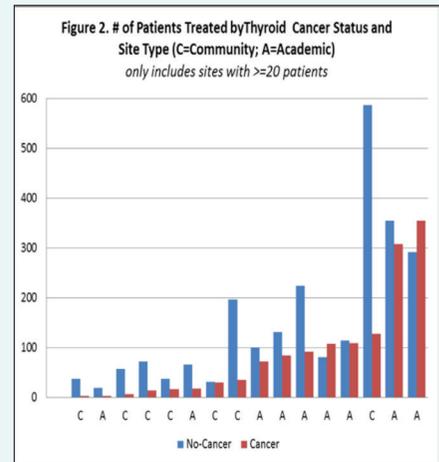
RDC Database v 1.0

The RDC Database is composed of administrative data from CHEER sites. It is the foundation for selecting sites to participate in studies or initiatives that fit a site's practice profile. Thought leadership and design of the RDC is guided by the AAO-HNSF Task Force for Practice-based Research. RDC 1 was CHEER's first data harvest and has been the basis for four publications and cited in numerous others. It is the largest database of otolaryngology data collected by and for otolaryngologists.

BENEFITS:

1. CHEER HealthCasting based upon social media trends of population health concerns will enable better management of your resources
2. Access valuable benchmarking data on procedure and diagnosis volumes
3. RDC participants are eligible for quality payments
4. Assess research capabilities based on real data instead of guessing volumes for clinical studies
5. Collaborate with CHEER to develop grant applications

- Data harvesting occurs every three years in all CHEER sites and participation is a requirement for all new CHEER Applied sites
- The burden of data collection is minimal, supported through a download of specified data from the sites administrative data
- CHEER will translate the data to a standard format
- Participation requires no additional data capture beyond a site's routine activities



**In all grant applications submitted to date utilizing the CHEER research infrastructure, CHEER was noted as an important STRENGTH and Innovation in reviews and summary statements.*

MarketScan® collaboration

MarketScan is a database owned by Truven Health Analytics, a tremendous resource supported by an equally tremendous team of programmers, coders, and statisticians at the Duke Clinical Research Institute. The AAO-HNSF licensed this database containing data on over 50 million US patients. CHEER provides the analytic and interpretive support for projects. (The MarketScan database is so large that it is housed on its own server at the DCRI and analyses completed before the team optimized the database took 72 hours using the fastest processors

commercially available! Analysis times have come down significantly as the datasets have been stratified and optimized.)

BENEFITS:

1. Develop expertise in management and interpretation of Big Data
2. Participate in database protocols testing evidence-based guidelines
3. Access the database through CHEER or the AAO-HNSF topic selection process
4. Partner with CHEER's programming and analytic team to write grants that allow you to explore and research your interests through MarketScan
5. Build your career in Big Data analytics

SynGlyphX

SynGlyphX is a new and dynamic way to analyze large or small datasets through visual representations. An analogy would be DNA analysis where multiple samples are analyzed for patterns across characteristics of many specimens. A visual array is created from which patterns emerge.

SynGlyphX can do the same analyses across many communities of patients, each with individual clinical characteristics. A 3-D graphical analysis allows weighing of variables anchored around a person-glyph. The pictograph can be rotated and stratified allowing 50-60 characteristics to be examined together or individually while spatial organization is displayed geographically. This technology has the potential to provide insights to risk adjustment and quality measurement.

