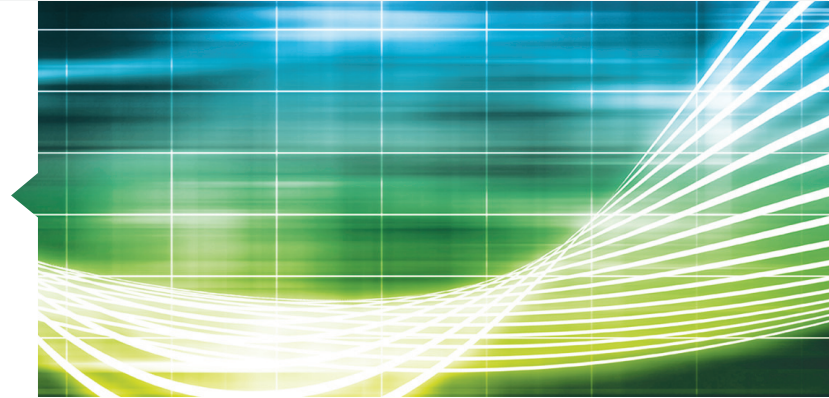


Electronic Medical Records (EMR) *Data & Analytics*



Quintiles' EMR Database & Analytics Expertise Combine for Powerful, Real-World Insights

Advances in health information technology and the emergence of patient-centered outcomes research have made electronic medical records a preferred source for retrospective database analysis. In contrast to administrative claims data, EMRs generally provide a high-definition view of provider-patient interactions in the real-world setting, leveraging the granular detail available from the patient's medical record.

Take advantage of Quintiles EMR data to derive powerful, real-world insights rapidly and cost-effectively. The EMR data can be used to address a wide variety of needs in the areas of pharmacoepidemiology, health economics & outcomes research, and marketing analytics & informatics. In addition, we have the ability to link the EMR data to other retrospective sources, or use the EMR data as a foundation for retrospective-to-prospective hybrid studies.

Use of the EMR database can be licensed—in its entirety or for specific research needs—for in-house use by companies who have the requisite analytic and programming expertise. Better yet, you can engage Quintiles' team of database researchers who have a depth of expertise through their use of the data every day.

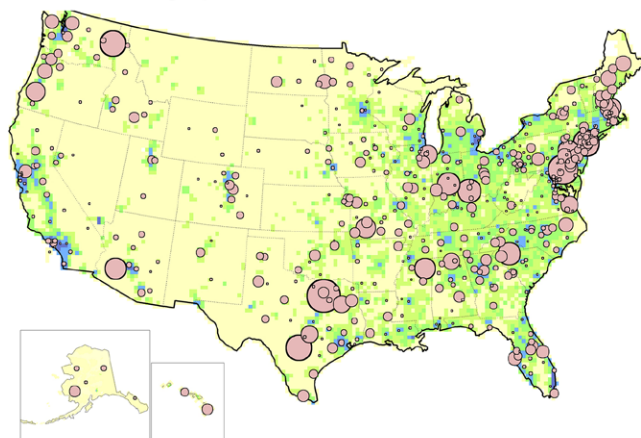
Quintiles allows you to customize your EMR data insights

- Patient profiling analyses to understand clinical characteristics—age, sex, BMI, vital signs, lab values, symptoms, disease history, among other factors—of patients who use your product versus competitors
- Prescribing pattern analyses to understand variations in product positioning (first-line use, second-line use, etc.) according to geographic setting (3-digit zipcode)
- Quarterly data refreshes to understand trends in diagnosis and treatment over time
- Protocol feasibility assessments to understand the effects of patient inclusion/exclusion criteria and optimization for clinical trial design

Quintiles EMR database characteristics

- > 600+ member institutions with more than 33,000 providers
- > Cover 33M+ patients (228M+ encounters and 1B+ documents)
- > Located across the country—spanning 49 states and Washington, DC

Geographic Location of EMR Patients



Turn data into insights

In addition to the data reports available for licensing, we offer a multi-disciplinary team of scientists who can transform the data into clinical insights, with expertise in:

- > Outcomes Research
- > Health Economics
- > Safety Surveillance
- > Biostatistics
- > Epidemiology
- > Health Services Research
- > Medical Informatics
- > Clinical Pharmacy
- > Clinical Trial Design

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EMR data elements

Problems/ Diagnoses	<ul style="list-style-type: none">• Current, personal history, family history (ICD-9 codes)• Assessments: change in status
Medications & Prescriptions, including OTCs	<ul style="list-style-type: none">• Medications documented (dose, quantity)• Prescriptions written (frequency, refills)
Observations	Vital signs & measures (blood pressure, weight, BMI) and extensive lab and test values (e.g., HbA1c, lipid panel, serum creatinine)
Chief Complaint/ Reason for Visit	Reason for office visit, symptoms

Use-case Examples for Data

- **EMR:** Description and analysis of clinical indicators and treatment options of atrial fibrillation based on a virtual registry of patients; Comparative effectiveness of loose and fixed dose antihypertensive medications; Clinical and treatment description of CKD patients stratified by stage
- **EMR + Linked Claims:** Comparison of clinical outcomes and healthcare resource utilization and treatment cost among obese patients
- **EMR + Chart Review:** Identification of patients utilizing a therapy for men's health and undiagnosed patients whose labs indicated candidates for that treatment
- **EMR + Prospective Physician and Patient Data Collection:** Identification of cohorts of T2DM patients to follow treatment patterns prospectively using EMR data extraction, site questionnaires and PRO data

Learn more

Interested in learning how our EMR database and analytic expertise can provide greater insight into your key clinical and research questions? Contact our team of scientists and analysts today to discuss your next project.