

## RWD RADAR Generates Insights from a Hospital Network for Real-time, EHR Data

Clinerion's Patient Network Explorer offers real-world health data in real-time:

- Incidence timeline per EHR field code
- Gender and age distributions per EHR field code
- Immediate results based on real-time data
- Aggregated or geographically mapped



### Example Use Cases



**Predictive Modelling:** data scientists can use the time series information to predict

the number of new patients for a specific indication in the future. Those predictions could help in clinical trials to model incidence/prevalence of specific condition of interest for a site.



**Therapeutic Insights:** health researchers can insights into frequency and volume of use of

medications & procedures and changes therein over time. Also, they can monitor from which date on new medications/procedures get prescribed to patients – and if new prescriptions decrease the usage of other medications/procedures.



**Healthcare Market Insights:** create market segmentation reports, e.g. monitoring the frequency

and volume of prescriptions for medication across pharmaceutical companies.

### Use cases: example data and queries in context with Clinerion's Patient Network Explorer



**Compound-specific usage statistics**



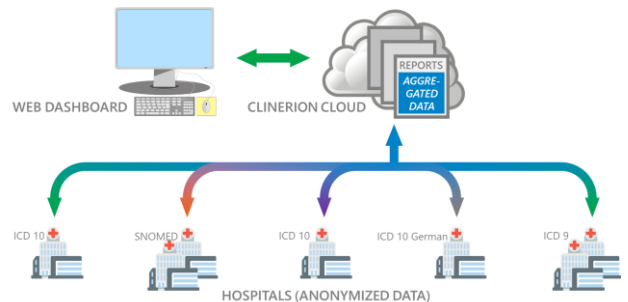
**Adverse Effects / Events Reporting**



**Demographic treatment algorithms**

### Highly Scalable Hybrid Cloud- and Federated-server Network

Each participating hospital operates a dedicated Clinerion server. The servers synchronize with their hospital's Health Information System (HIS), de-identifying the data by removing patient identity information, and indexing the data for faster search. Each server is then queried from Clinerion's cloud.



### Patient Privacy and Data Security



Patient privacy is secured by use of Clinerion's proprietary ANID technology, which only uses de-identified patient data unlinked from identifiers, and by ensuring identifiable patient data does not leave the

hospital. Data security is ensured by multiple firewalls, one-way data connections and user authentication.



Clinerion is fully compliant with data privacy regulations in the USA (HIPAA) and the European General Data Protection Regulation (GDPR) (EU 2016/679).

Any use of the system always depends on the express permission of participating hospitals and is done in accordance with relevant local / federal legislation.