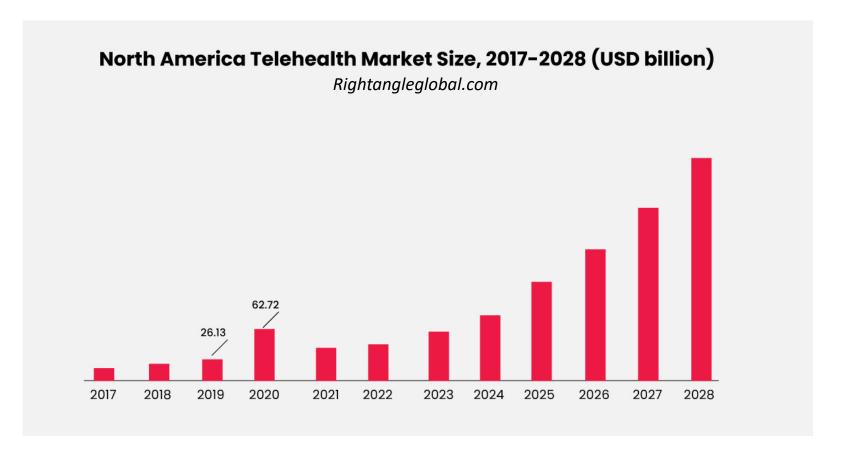
National Telehealth Data Warehouse

Background – Overview of Telehealth



Background - Need RWD and RWE for Telehealth

- Using Real-World Data (RWD) to facilitate telehealth-associated research and Real-World Evidence (RWE)
- FDA Definition
 - "Real-world data are data relating to patient health status and/or the delivery of health care routinely collected from a variety of sources."
 - Examples of RWD: data derived from electronic health records, medical claims data, data from product or disease registries, and data gathered from other sources

https://www.fda.gov/science-research/science-and-research-special-topics/real-world-evidence

Background



- Challenges of Telehealth Data Management
 - Data source and integration
 - Data standardization
 - Data integrity: accuracy, completeness, consistency, and validity
 - Access, Privacy, and Security

National Telehealth Data Warehouse

- Serve as a central repository for standardized telehealth services data from diverse sources.
- Objectives:
 - Provide telehealth data standards through the National Telehealth Data Dictionary
 - Facilitate telehealth research and strengthen interoperability across telehealth programs
 - Support evidence-based decision-making in telehealth policy and practice

National Telehealth Data Warehouse will include...

- Data since 2017
- Telehealth encounters and their associated
 - Medical data
 - Medication data
 - Billing data
- No patient health information



BENEFITS

GET DETAILED INFORMATION

The Warehouse will include information from around the United States and include data on patient diagnoses, procedures, medications, medical history, and others

ACCESS PROVIDER AND PAYER DATA

The Warehouse will include data on primary and specialty provider and payers of all types

HIPAA COMPLIANT

The data collected for and stored in the Warehouse is fully complaint with HIPAA privacy and security laws



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The National Telehealth Data Warehouse from the University of Mississippi Medical Center (UMMC) is a groundbreaking resource that provides researchers with unparalleled data on telehealth usage and trends. With its detailed information on reimbursement, policy, and quality metrics, the Warehouse is essential for anyone interested in telehealth research and innovation



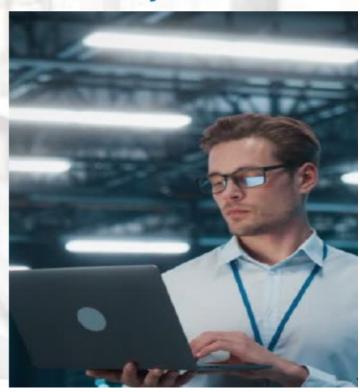
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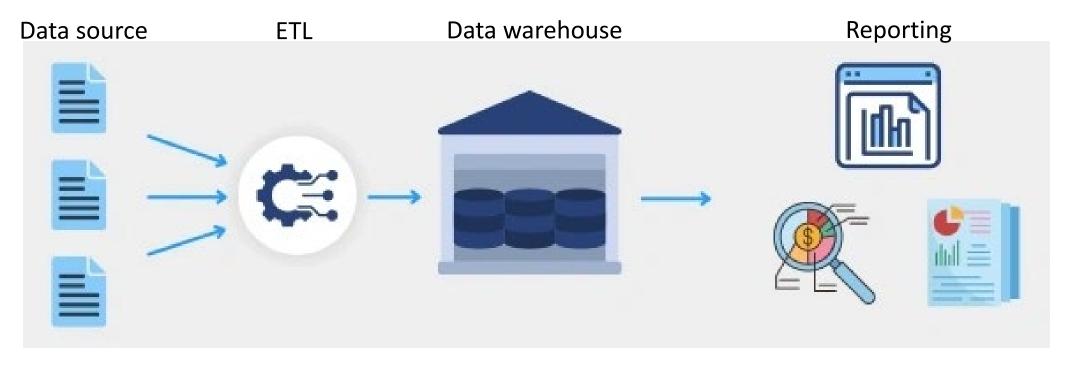


A NATIONAL TELEHEALTH DATA WAREHOUSE

The most comprehensive resource for telehealth data anywhere



Data Warehouse Diagram



• Source: https://www.integrate.io/blog/what-is-a-data-warehouse/

Ongoing Efforts: Data Source

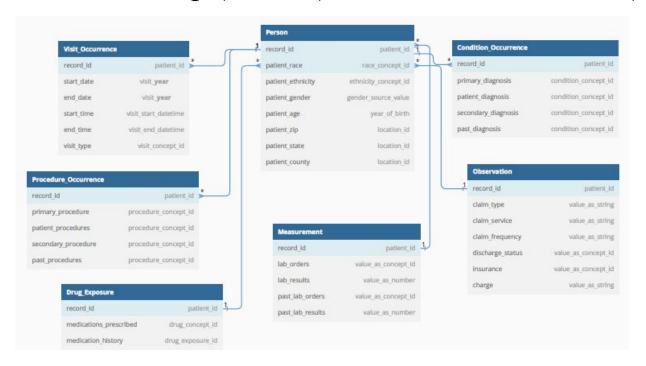


- Data Use Agreement (DUA) draft is completed and will be finalized for distribution to data contributors
- **Data contributors** are beginning to marshal resources to prepare the data file

Ongoing Efforts: ETL (extract, transform, and load)



• **Data schema** and **data table** are finalized: Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM)



Ongoing efforts: Data Warehouse



- Azure warehouse is in the process of being constructed
- Preparing data from 2017.



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Primary Goal of 2024

• To have the National Telehealth Data Warehouse live and function.

Future work

- Data governance and sharing
- A front-end website describing the warehouse and producing dashboards/visualization
- Use cases



The Telehealth Centers of Excellence(COEs) develop resources for telehealth organizations, researchers, providers, and staff based on their experience, research, and innovation.

TelehealthCOE.org

Telehealth Centers of Excellence



