



# Atlas

## AI-assisted data abstraction for clinical registries

Registry participation is essential for quality initiatives and patient care, but often involves time-consuming, manual labor and redirects resources away from patient care. Carta Healthcare uses a combination of **technology, people, and process** to reduce the burden of data abstraction — efficiently and quickly getting the data out of your electronic medical records and into clinical registries.



## Technology

Using artificial intelligence (AI), our Atlas software abstracts data from medical records to automatically populate clinical registry fields.

### Atlas goes beyond registries:

- Accesses data from multiple electronic health record (EHR) systems using FHIR, data warehouses, and any other data source
- Extracts data from structured fields (e.g., ICD-10 codes, standardized demographic data)
- Uses natural language processing (NLP) to “read” through unstructured data such as clinical notes, lab reports, imaging results, and more
- Standardizes all data into a single usable FHIR-based format for use across multiple systems and reporting tools
- Transforms clinical notes into an easy-to-search format

### Atlas assists with registry completion and submission:

- Considers information from all data sources to provide high-quality recommendations and data context for registry fields

- Provides a system for validation/confirmation based on the confidence in the data sources
- Presents the recommendations within our “glass box” that allows data to be traced back to its source and viewed in context of the other data around it
- Incorporates machine learning to improve subsequent form completions
- Organizes unstructured data into patient timelines
- Submits to third-party registries using XML or JSON (with certification, if required)
- Includes a progress bar and time tracker
- Provides a ‘google search’ of the patient’s notes, enabling search of medical concepts
- Provides a comprehensive timeline of the care the patient received

### Going beyond registries:

- Includes connectors to Tableau, PowerBI, and other commonly used business analytics tools



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## People

Our team of experienced data abstractors takes care of case backlogs, multiple registries, data entry for fields that aren't auto-populated, training, and submission, so you can do more with your FTEs and budget and shift the focus of your teams back to patient care.

## Process

Atlas also includes built-in processes that simplify the workflows for your teams and the Carta abstractors.

### 01. Capabilities to select and filter patients

- Assign submissions to an abstractor
- Remove a case if it isn't relevant
- Upload manually if the automatic data population fails

### 02. Inclusion of a workflow table to track submissions

- Visualize the queue of 'Ready-for-Submission' cases
- Prepare harvest files and submit cases

### 03. Provision of an auditing tooling to review data quality

- View submission pipeline and history in app with ability to flag cases for review
- Support to calculate the difference in submissions and the frequency of incorrect fields for your nurses and Atlas

Looking for a solution to automate and simplify clinical tasks, freeing up your clinicians to focus on patient care?

**Begin your journey with Carta Healthcare today.**

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