Exploring Interactive Insights in the RCCS Cohort Data

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Meet the Team

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An Interactive Approach to Visualizing RCCS Cohort Data

• Typically, access to data in publications is constrained to static visualizations that convey the author’s interpretation of the data

• We explored a novel approach to visualizing published research data using interactive dashboards

• Interactive visualizations were developed from data contained in the RHSP Data Mart and enables users to explore insights of interest from previously published data

Visualization of HIV incidence in agrarian and trading communities

Grabowski, MK et al., NEJM, 2017
RHSP Data Mart Solution – Impact and Benefits

**RHSP Source Data**
- Partner
- Lab
- Flow
- Mobility
- Family
- Baseline
- Follow-Up

Repeated for 17+ RCCS Survey Rounds

**Data Integration**
- Merge
- Consolidate
- Validate
- Cleanse
- Exception Handling
- Change Tracking

Extract
Transform
Load

**Sample Queries**
- 34 Total sample Queries
- 91 ETL Scripts

**Data Repository**
- RHSP Data Mart
  - 20+ Tables
  - 65,762+ Subject Records
  - 16+ Rounds of Research Data
  - Track Changes Logs

**Data Dictionary**
- 750 Pages of survey questionnaires mapped to response values
- 9 Columns of Information

**Training**
- 10 Video Tutorials (~150 minutes total)
- 2 User Manuals
- 2 User Test Plans
- 1 Training Plan

**Analytics**
- Search Capability
- Reporting
- Analytics & Visualization
- Integration with statistical software
Visualization Benefits

- **Reinforce** previously published data through *interactive visuals*

- Allow researchers to filter and represent data in *dynamic and interactive* ways to *explore new hypotheses*

- **Enable access** to broader research community

- Securely expose only *aggregate distributions*
Dashboard Demo

RCCS Dashboard
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