## **How MENDS Works**





Data contributor\* extracts electronic health record (EHR) data captured during healthcare encounters



Electronic medical record Support for Public health (ESP) software puts data in standardized tables and runs disease detection algorithms

1 Performed by data contributor



EHR data are updated monthly or quarterly by ESP for use by RiskScape or for weighting and modeling methods



ESP awaits custom queries, using Query Builder or SQL code, from PopMedNet™ authorized data user 3a 3b Performed by ESP, an open-source

software platform that organizes and maps EHR data

Data Contributor's Firewall

MENDS Data Products leverage data and analysis from RiskScape data visualizations, PopMedNet™ queries, and weighting and modeling methods.



Authorized data users create analyses with RiskScape or send custom queries through the PopMedNet™ portal



Performed by MENDS project

RiskScape is an interactive, web-based

Performed by data user

team partner

data visualization platform

with pre-programmed and

and distributes them to

data contributors. Data contributors must approve

The methods produce

and national estimates.

more reliable local, state,

custom analyses.

Weighting and modeling methods produce reliable local and national prevalence estimates

\* Data contributors include health information exchanges and other data aggregators that are stewards of data from their healthcare organization partners.

## **Potential Use Cases for MENDS Data Products**

To Improve the Health of the Population



**Monitor Trends** 



Inform Policy



Plan Programs

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**Evaluate Outcomes** 

 Track healthcare use (e.g., chronic disease screening), diagnoses, and disease comorbidities  Estimate major risk factors like uncontrolled hypertension and hidden conditions like undiagnosed hypertension  Estimate size of population affected by a policy and/or program and likely related impact  Identify high risk communities and subpopulations for intervention  Compare control and intervention ZIP codes

Weighting and Modeling statistical and geospatial methods provide in-depth analyses of the source data since these data are non-random and not

representative of the total populations.

PopMedNet™ accepts custom queries



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