Health Care Database Comparisons by State

Matt McNeill, BS

Research Associate, Delaware Academy of Medicine / Delaware Public Health Association

The Delaware Health Force (DHF) database created by the Delaware Academy of Medicine / Delaware Public Health Association (Academy/DPHA) includes a list of every licensed healthcare provider actively practicing in Delaware, as well as those who have ever practiced in the state, regardless of whether they now practice somewhere else, are retired, have had their license suspended or revoked, or are deceased. The list of provider names used to create the database was populated from DELPROS, the Delaware Division of Professional Regulations online public database.

Whenever possible, the DHF database lists the following information by provider NPI number:

- License Number(s),
- License Type(s),
- License Status,
- Practitioner Specialty
- Practice Location,
- Medical School and/or Residency Location (when applicable),
- Graduation Year and Years of Practice,
- Medicare/Medicaid Acceptance,
- Practice Proprietorship, and
- Contact Information.

This data will then be integrated with health outcomes, demographics, and other data to allow for real-time and predictive data modeling to inform decision and policy.

Below is a list of similar local and national databases, with bullet point information about the information available and comparisons to the DHCW database.

Connecticut

Connecticut Healthcare Workforce Scan

http://www.healthreform.ct.gov/ohri/lib/ohri/sim/work_force/ct_healthcare_workforce_scan.pdf

- Detailed description of how healthcare workforce data was collected and analyzed
- Limited types of practitioners – Similar to Maryland, not as in depth as Delpros
  - Significant portions of the data are estimates based on national data
  - Data sources contradict one another
  - Double counted physicians who practiced in multiple locations

Maryland

Maryland Medical Programs

https://encrypt.emdhealthchoice.org/searchable/main.action

- Requires search to find providers – all searches include hospitals/locations unless a provider's name is searched, or if the "only PCP" option is selected, however this limits the search options and doesn't include other HCP's.

- Provider search engine for patients

- Greater focus on access to care for individuals and less focus on compiling provider info

[Maryland] Medical Care Database

https://mhcc.maryland.gov/mhcc/pages/apcd/apcd_data_release/apcd_data_release_mcdb.aspx

- Stringent process for accessing data- not much information could be obtained

- Cost prohibitive for small organizations that could benefit from this data

   $4,000/year for nonprofits + $1,000/year for re-use rights

- Based on claims data

Maryland Healthcare Workforce Study Phase II

https://mhcc.maryland.gov/mhcc/pages/apc/apc_workforce/documents/MD_Health_Workforce_Study_Phase_2_Report_pdf.pdf

- Detailed description of how healthcare workforce data was collected and analyzed

- Limited types of practitioners – Physicians (Family Medicine, Geriatrics, Internal Medicine, Pediatrics), Psychiatrists, Psychologists, Counselors, Social Workers, Physician Assistants, Pharmacists, Nurses, Dentists

   Record detail is not equivalent to Delpros

- Detailed population level data / assessment of healthcare workforce shortages by county

New Jersey

New Jersey Healthcare Profile

https://www.njdoctorlist.com/

- Only includes physicians

- Provider search engine for patients

- No broad search for county/zip available to create lists of doctors for data collection

- No data files

New Jersey Hospital Association

https://www.njha.com/membership/list-of-nj-providers/hospitals/

- Full roster of hospitals, medical centers, and rehab facilities, and their locations/phone numbers

- Provider search engine for patients

- Links to individual websites for each facility

- No data files

New York

New York State Health Care Reform Act

https://www.health.ny.gov/regulations/hcra/provider/provhosp.htm

- Full roster of General Hospitals
- Population health data files but no provider data files

The New York State Health Care Provider Database: A Framework for Action

https://www.nyspma.org/aws/NYSPMA/asset_manager/get_file/103473

- Nearly identical in concept to the DHF, completed in 2014
- Created a database of all licensed physicians in the state and included location/specialty/age/etc.
    - Helped predict future shortages from aging practitioner populations
    - Helped increase access to care through state sponsored programs in healthcare shortage areas
    - Created links to community organizations serving the same patient populations
- Used data collection during licensure, and many other sources to compile data
- Fully Detailed blueprint of how to build a healthcare database

Pennsylvania

Pennsylvania Department of Human Services [Physician] Provider Directory

https://provider.directory.dpw.state.pa.us/ProviderSearch.aspx

- Provider search engine for patients
- Only includes physicians – searchable by specialty

Pennsylvania Department of Human Services – Human Services Provider Directory

https://www.humanservices.state.pa.us/HUMAN_SERVICE_PROVIDER_DIRECTORY/

- Provider search engine for patients
    - Includes lists of organizations/services for various social service providers
    - Not searchable by individual providers, does not include medical care

Pennsylvania Licensing System Verification Service

https://www.pals.pa.gov/#/page/search

- Provider search engine for licenses
    - Does not include practice location street address, only city/state/ZIP
    - Includes out-of-state practice locations
    - Does not include practitioner specialties

Pulse of Pennsylvania's Workforce

https://www.health.pa.gov/topics/Health-Planning/Pages/Reports.aspx

- Individualized data reports on various categories of healthcare provision

    - Limited selection of healthcare provider categories

- Data is old (2011-2015 data from 2012-2018 reports)

- Reports are not generated annually

    - The 2018 Report only reported 2015 Dentist/Dental Hygienist data

    - The 2017 Report only reported 2014 Physician/Physician Assistant data

- No new data since 2015

- No new reports since 2018

Virginia

Virginia Healthcare Workforce Data Center

https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/ProfessionReports/MedicineReports/

- Profession specific workforce data reports

- Uses self-report survey data to compile information for each report

- High response rate on survey when administered during license registration

- Data include ethnicity, age, location/population served, Virginia residency, specialties, and current work status (license status), as well as income/debt figures

- Includes many of the same categories as DELPROS

Virginia Board of Medicine Practitioner Information

http://www.vahealthprovider.com/search.asp http://www.vahealthprovider.com/

- Provider search engine for licenses/information

- Required information includes location/phone, education, number of years in active practice, board certifications, hospital affiliations, academic appointments, publications, Medicaid info, actions, felony convictions, paid claims in last 10 years

- Information that is not required includes insurance plans, honors/awards, Medicare acceptance, and continuing education credits

- Information is limited to physicians (MD, DO) and Doctors of Podiatric Medicine (DPM)

West Virginia

West Virginia Health Data Portal

http://portals.ncahd.org/wvhdp/

- Map overlay tool with aggregate totals for county/zip of various types of healthcare practitioners

    - Includes food resources like farmers markets, food deserts, fast food

    - Includes healthcare locations, workforce trends, patient demographic information

- Each map layer has several different stratifications to pick from

National

National Practitioner Database

https://www.npdb.hrsa.gov/analysistool/

- Contains unnamed data on each of the states licensed healthcare providers

- Inaccurate information for Delaware

    - NPDB total = 2,652 // DHF total = 50,422

- Does contain the same categories as the DHF database

    - Only gives raw number of each type of provider

    - Counts are inaccurate

    - Does not specify specific license types (i.e. Family Nurse Practitioner, Paramedic, etc.)

    - Categories are not matchable with Delpros

CarePrecise

https://www.careprecise.com/state/delaware_healthcare_providers.htm

- Contains named data on 6.7m providers across the country

    - Includes named data on over 20,000 providers in DE (6,000 less than HCW)

    - Includes NPI number, practice location, specialty information, Medicare acceptance, and wealth level of population in area served

- Does not include Medical school/residency information, or years of practice/graduation year

- Only includes those actively practicing in Delaware

- Updated monthly (subscription service costs approximately $900/year for national data)

Centers for Medicare & Medicaid

https://data.cms.gov/provider-data/search?theme=Doctors%20and%20clinicians

- Data file with over 1 million records (only 2,400 from Delaware – very limited)

- Includes NPI number, practice location, specialty information, medical school and year of graduation, some phone numbers

United States Health Workforce State Profiles

https://bhw.hrsa.gov/data-research/review-health-workforce-research/state-profiles

- Individual PDF files for each state, with total number of each type of provider and per capita

- Includes most of the same categories as Delpros

- Data is inaccurate

    - Delaware is missing several categories

    - Data was not updated from 2011-2015