



# Data Privacy: A Model for the Future

*IQVIA Supports Model Legislation that Protects Patients and the Clinical Research Ecosystem*

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# IQVIA by the Numbers

**4,600+**  
Advanced analytics/  
data scientists/statisticians

**1,900+**  
Epidemiologists/RWI experts

**1,650+**  
Medical doctors

**8,200+**  
Software development/support




**1.2B+**  
Non-identified patient records

**85%**  
Global pharma sales tracked

**56+**  
Petabytes of unique data

**300+**  
Analytic libraries



<b>79,000+</b> Employees
 <b>10,000+</b> Customers
 <b>100+</b> Countries
<b>60+</b>  Years of Global Experience



**100+**  
Countries

**50K+**  
Pharmacy and wholesaler partners

**5M+**  
Clinical trial investigators

**100M+**  
Patient network for trial recruitment

**2,000+**  
Hospital partners

**100B+**  
Records searched in real-time

**150+**  
Patent-pending methodologies

**30+**  
Predictive disease detection solutions

# IQVIA CORE™

## Dynamic integration

A unique combination of connected capabilities that enables you to adapt to evolving needs and drive healthcare forward.

## Deep insights

Get actionable insights from vast amounts of data. Find answers to difficult questions, and make decisions with confidence.



## Accelerated innovations

Generate solutions and innovations faster. Develop and implement the breakthroughs that matter most to patients.

## Powerful capabilities

Find new and better ways to deliver solutions. From efficiency to leading edge, be at the forefront of problem solving for human health.

## Unleash the power of the IQVIA CORE



Domain expertise



Unparalleled data



Transformative technology



Advanced analytics

**>10 Countries**

Epi Simulation Models to Predict Future COVID19 active cases

**NFL & NBA Integrated Monitoring System**  
COVID-19 monitoring & contact tracing

**>360**

Global COVID-19 Clinical Programs in flight

**23**

COVID-19 Vaccine Trials

**>30K participants**

COVID Active Research Experience (CARE) Project at [helpstopcovid19.com](http://helpstopcovid19.com)

Back to Work COVID-19 Contact Tracking and Tracing

Prediction Modeling of Index Cases State/County

Thought Leadership/Monitoring the Impact of COVID-19 on the Pharmaceutical Market

**>5K COVID-19 Trial Matching Tool & NYBC Convalescent Plasma Donation Matching**

Forecasting models to assess COVID-19 impact on volume of patient visits to doctor's offices

# IQVIA's Real-World Data (RWD)

## Overview

**IQVIA's Real-World Data (RWD):** provide access to administrative health and sales data with very large sample sizes to facilitate agile analytics and ***answer time-sensitive questions posed by decision makers.***

- 1. IQVIA's Prescription Drug & Medical Device Data:** contain pharmaceutical dispensing, medical device, and sales data that provide up-to-date information at the national level.
  - › Through various data modules, dispensing and utilization reports are available at the regional, provider specialty group, and patient-level demographics.
- 2. IQVIA's Healthcare utilization data:** consist of claims data and electronic health records that provide a wealth of information that can be used for surveillance, signal detection and forecasting.
  - › **Claims Data:** contain patient level diagnoses, procedures performed, tests ordered, and drugs prescribed during office-based visits to healthcare professionals, ambulatory encounters, general healthcare sites and hospitals.
  - › **Electronic Health Records (EHR):** capture key clinical variables such as laboratory test values, height, weight, blood pressure, prescriptions, diagnoses, procedures, and therapeutic outcomes.

# Sample IQVIA Data Sets

*Overview and Value for Public Health*

# National Prescription Audit (NPA)

## Overview

<b>What</b>	Industry standard and IQVIA's total solution for tracking and projecting volumes for all prescription (Rx) products, classes, and manufacturers
<b>Purpose</b>	Measures demand for prescription and often used to investigate prescription drug utilization, prescription size and average consumption
<b>Source(s)</b>	Adjudicated claims collected directly from retail, mail, and long-term care outlets
<b>Coverage</b>	Capture <b>93%</b> of all outpatient retail Rx representing <b>170</b> unique specialties
<b>Projections</b>	Applied to make data representative of the universe of prescription demand at the national and regional level (NPA-Regional)
<b>Frequency of updates</b>	Weekly and monthly

# National Sales Perspectives (NSP)

## Overview

<b>What</b>	Industry standard source for measuring pharmaceutical spending in the US
<b>Purpose</b>	Measure the US pharmaceutical drug supply volume in dollars and unit sales for products purchased by retail and non-retail providers
<b>Source(s)</b>	Direct and indirect sales of pharmaceutical products to healthcare outlets
<b>Coverage</b>	Capture more than <b>89%</b> of the market in the US
<b>Projections</b>	Applied to make the data reflective of the total estimated sales within the US
<b>Frequency of updates</b>	Weekly and monthly

# IQVIA's Prescription Data Saved Lives After Hurricane Maria

*ASPR & CDC showed the impact of the hurricane on Puerto Rico's drug supply using IQVIA data*



IQVIA pulled these data within 45 minutes!

- **Situation:** On September 20th, 2017, Hurricane Maria hit Puerto Rico as a powerful Category 4 hurricane  
  
IQVIA was contacted on September 25, 2017, by ASPR and CDC for information regarding prescription medication usage on Puerto Rico to assist in planning the relief efforts
- **IQVIA's Solution:** IQVIA provided a data extract of sales and retail pharmacy dispensing for June, July, and August 2017 in order to show the top 200 prescription drugs with the highest utilization and most impacted by the disruption after the hurricane



# CDC Pandemic Influenza Response

## *IQVIA data for near-real time surveillance*

- During the 2009-2010 pandemic influenza outbreak, CDC engaged IQVIA to provide timely data for surveillance and response purposes
- IQVIA provided medical and pharmacy claims data supporting weekly monitoring of the outbreak that contributed to timely (short data lag), robust coverage, local-level specificity and consistent completeness

### Medical claims (Dx)

- **Patient ID**, age, gender, ZIP3
- **Provider ID**, specialty, ZIP
- **ICD-9 diagnosis**
- CPT procedure
- HCPCS product
- **Date** of service
- **Location of care**
- Reported cost of service
- Payer name and type
- Claim receipt date

### Pharmacy claims (Rx)

- **Patient ID**, age, gender, ZIP3
- **Prescriber ID**, specialty, ZIP
- **Pharmacy ZIP**
- National **Drug Code** (drug, strength, manufacturer)
- **Date** Dispensed
- Quantity
- Days Supply
- Method of payment
- New or Refill
- Claim receipt date

# ASPE COVID-19 Pandemic Response

*IQVIA data supporting statistical analyses for ongoing pandemic response*

**Situation:** During the 2020 COVID-19 pandemic, ASPE engaged IQVIA to provide data through an analytical platform to enable analyses around the impact of COVID

**IQVIA's Solution:** IQVIA provided medical and pharmacy claims data in a tool that enabled users to conduct robust statistical analyses without the need for programming resulting in faster more streamlined findings

## **Publications Include:**

- Ali MM, Schreier A, West KD, Plourde E. Mental Health Conditions Among Children and Adolescents With a COVID-19 Diagnosis [published online ahead of print, 2022 Jun 2].
- Ali MM. Mental Health Consequences of COVID-19: The Role of Social Determinants of Health (Issue Brief). Washington, DC: Office of the Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services. April 9, 2021.

## **Value to Public Health**

- Access to large-scale RWD with a short data lag to answer more complex health related questions associated with readiness.
- Data queries can be customized and analyzed leveraged IQVIA's state of the Art E360 analytical platform.

# Protecting Data and Protecting Patients

*Model for Workable Legislation*

# Virginia Consumer Data Protection Act (VCDPA)

- ✓ On March 2, 2021, Virginia Gov. Ralph Northam (D) signed the Virginia Consumer Data Protection Act (VCDPA) into law, making Virginia the second state after California to officially enact comprehensive consumer privacy legislation.
- ✓ The VCDPA will go into effect Jan. 1, 2023.
- ✓ The VCDPA clearly defines whose personal data is covered, describing consumers as Virginia residents “acting only in an individual or household context.”
- ✓ It further clarifies that consumers are not those acting in a “commercial or employment context.” Unlike California, where the B2B and employee exclusions have been the subject of several statutory amendments, Virginia has chosen not to leave those potential compliance hurdles up in the air.
- ✓ Additionally, businesses must satisfy one of the aforementioned thresholds to fall within the statute’s scope, and unlike California, the VCDPA makes no mention of a threshold based solely on annual gross revenue. Entities are not left to question whether the processing of data from a dozen or so consumers will subject them to the law.
- ✓ Virginia’s law has no significant recordkeeping requirements, aside from documenting data protection assessments. If a business already has in place a GDPR- or CCPA-compliant process for receiving and responding to data subject or consumer access requests, that process should be sufficient to handle requests from Virginia residents.

# What Does VCDPA Protect?

The VCDPA also provides consumers with certain rights related to their personal data. Under the Act, these rights include:

- ✓ The right to know, access and confirm personal data.
- ✓ The right to delete personal data.
- ✓ The right to correct inaccuracies in personal data.
- ✓ The right to data portability (i.e., easy, portable access to all pieces of personal data held by a company).
- ✓ The right to opt out of the processing of personal data for targeted advertising purposes.
- ✓ The right to opt out of the sale of personal data.
- ✓ The right to opt out of profiling based upon personal data.
- ✓ The right to not be discriminated against for exercising any of the foregoing rights.

Consumers have an extensive set of privacy rights that are not found in other states (other than California).

# Why is Virginia's Law Good for Health Data?

- ✓ The Virginia law has carve-outs for protected health information under the Health Insurance Portability and Accountability Act (HIPAA).
- ✓ Those falling outside the scope of the law also include state agencies, nonprofit organizations, colleges and universities (think academic research).
- ✓ It is helpful for small health care businesses by including a '30-day cure period', which allows companies that receive letters alleging noncompliance to communicate with the attorney general's office and remedy any potential violations before fines are imposed.
- ✓ Identifiable private information for the protection of human subjects under 45 C.F.R. Part 46 (or that is otherwise information collected as part of clinical research pursuant to the good clinical practice guidelines) is carved out.
- ✓ Information that is de-identified in accordance with the requirements for de-identification pursuant to HIPAA is also given an exception for the purposes of research.

Questions?

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