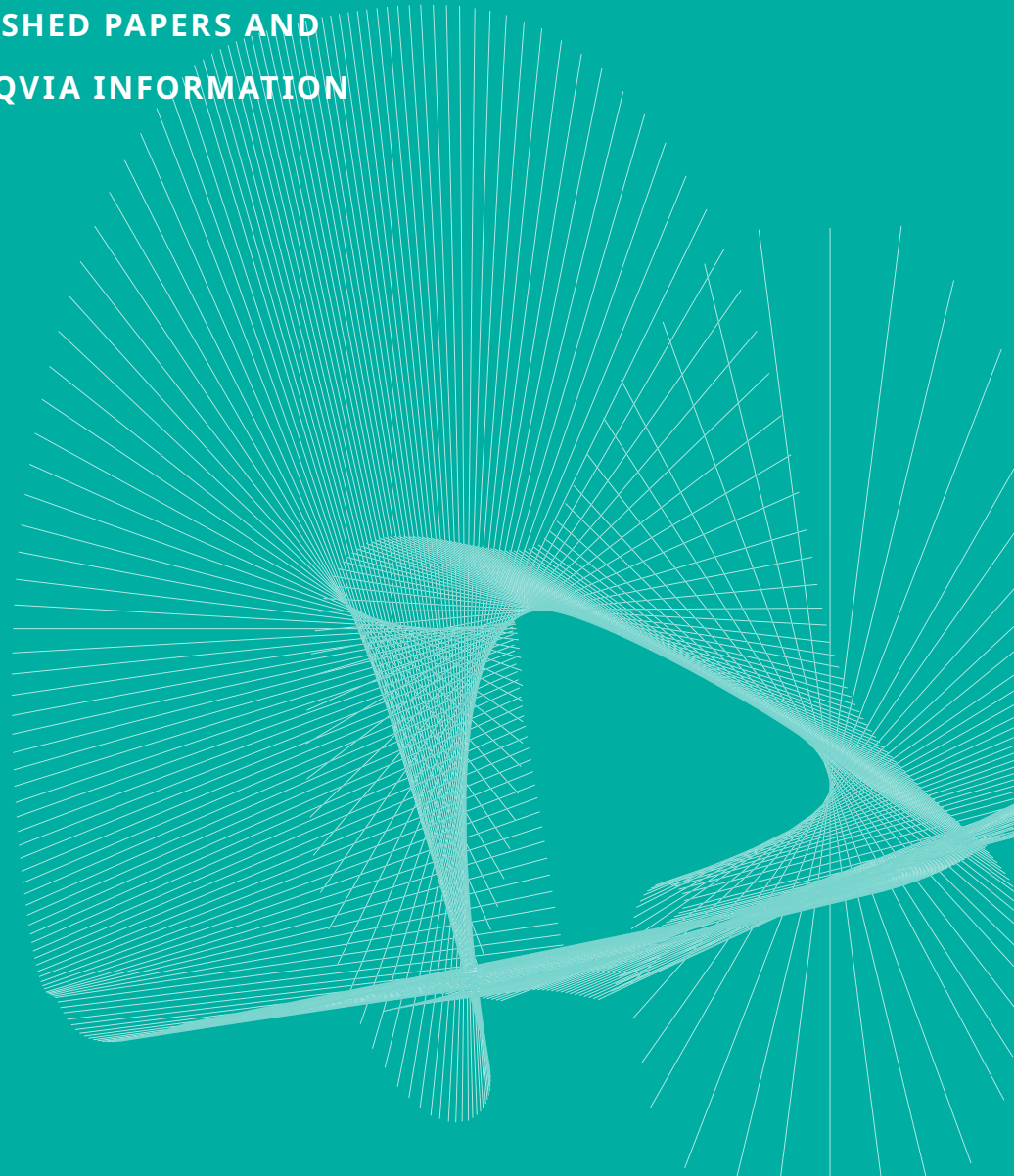




Advancing Evidence-Based Academic Research

BIBLIOGRAPHY OF PUBLISHED PAPERS AND
PRESENTATIONS USING IQVIA INFORMATION



JULY
2024

Introduction



IQVIA information and data sources are used extensively by researchers around the world to advance the understanding of disease patterns, healthcare costs, policy levers, and real-world clinical evidence, illustrating the value of Human Data Science — an emerging discipline that combines insights from human science, data science and human health.

The use of evidence-based information in collaboration with academic researchers and others is vital for IQVIA's strategic efforts as a leading global information and technology services partner to advance the knowledge of health, healthcare utilization, and health policies. This activity generates a significant number of peer-reviewed publications and conference presentations, covering a broad range of health care topics.

The range of information accessed and used for research purposes is extensive, and the total volume of peer-reviewed publications utilizing IQVIA data and information is rising. This bibliography provides a summary of 240 research publications in 2023 and 136 research publications in 2024 as of June 30.

The research utilizes summarized global and national prescription drug volume and sales information, data from provider-level prescription information, non-identified longitudinal patient data, provider profiles and organizational relationships, and commercial insurance medical and pharmacy claims information.

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The content of this bibliography is organized in reverse chronological order by publication date and segmented into five themes:

- Analyzing the impact of COVID-19 on the use of medicines, patient care and health systems
- Understanding disease and treatment patterns
- Providing context for healthcare costs
- Assessing policy levers for health interventions
- Advancing real-world patient-level clinical evidence

Collectively, this research represents a substantial advancement in understanding the real-world operation of our health system — including continued evidence of the longer-term impact of the COVID-19 pandemic on patients and care. The studies utilizing real-world evidence represent the largest category of research publications.

This bibliography has been produced as a public service without industry or government funding.

Find Out More

If you wish to receive future reports from the IQVIA Institute for Human Data Science and hear about events and other activities, join our mailing list via the subscribe button at www.iqviainstitute.org. If you have questions, contact us at info@iqviainstitute.org

MURRAY AITKEN

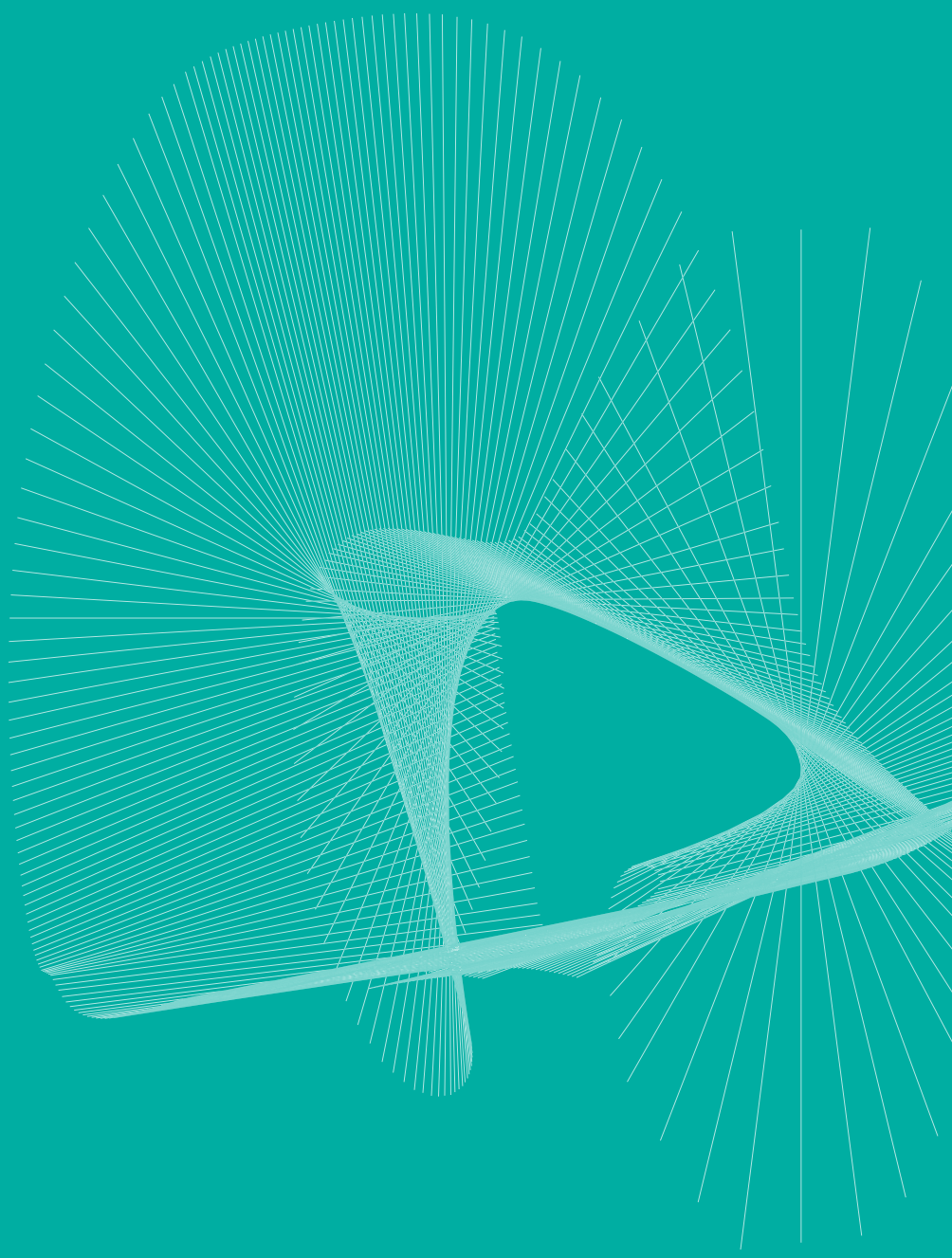
Executive Director

IQVIA Institute for Human Data Science

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Analyzing the impact of COVID-19 on the use of medicine, patient care and health systems

The global COVID-19 pandemic created both immediate and long-term consequences for people and health systems around the world, leading to changes in the use of medicines and patient care. Timely and reliable evidence-based research is critically needed to fully understand the impact of a global health crisis and inform necessary policies and actions to prevent and mitigate new pandemics. These publications represent wide-ranging impacts of research across multiple domains, including the use of medicines, delays in therapy and access to patient care, direct and indirect medical costs, health policy interventions, and epidemiology. Several studies also address issues around stockpiling and supply constraints under the burden of the pandemic. Much of this research was undertaken with accelerated review due to the rapidly evolving nature of COVID-19 while adhering to the rigor and standards required for academic credibility.

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Understanding disease and treatment patterns

With the introduction of a growing number of new therapeutic treatment options for patients, new approaches to diagnostics and adoption of biomarkers, the complexity of clinical and economic decision-making has increased for all stakeholders in the healthcare eco-system. Consequently, a deeper understanding of disease and treatment patterns has become vitally important to enable clinicians to contribute to better management of patients and disease. Simultaneously, economic and administrative decision-makers are looking for ways to ensure affordability and sustainability of healthcare systems. This recent research covers many vital health issues, including the use of antibiotics, trends in opioid prescription and use, and treatment patterns in oncology and cardiovascular medicine, among others. Evidence-based research is required for all treatment areas based on real-world data using non-identified granular data to elicit new and useful insights for clinicians, payers, leaders of health systems, policymakers, and patient organizations.

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— Providing context for healthcare costs

Understanding multi-dimensional health economic dynamics, the complex drivers of healthcare resource utilization and the financial burden – and savings – for patients and health systems is critically important to ensure the sustainability of health systems and affordability for patients. Evidence-based research is required to assess the variability across patient populations, healthcare settings, and countries combining rigorous economic, clinical, and analytical knowledge and skills applied to real-world cost and utilization data. These research efforts contribute to advancing the understanding of healthcare costs by providing context and clarity to these complex issues. Much of the focus of the following publications is on healthcare utilization, pharmaceutical costs, the financial burden to patients, and the extent to which these are drivers of overall healthcare expenditure. In addition, several publications provide context and perspectives regarding the opportunities for accelerating the use of novel cost-effective therapies, generics, and biosimilars to offset healthcare costs.

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— Assessing policy levers for health interventions

Applying evidence-based assessments to policy levers brings knowledge and insights that help shape policy modifications and strengthen future policy decision-making. The policy goals of legislators and regulators at the federal and state-level and their approach to implementation vary widely. Similarly, there are significant variations in the measures of intended – and unintended – consequences. These variations provide a rich source of evidence for understanding the impact and learning of diverse strategies and interventions across different jurisdictions. Among the recent research undertaken in this area are studies of policies related to prescription opioid use, environmental risks associated with active pharmaceutical ingredients, trends in out-of-pocket drug costs, the use of generics and biosimilars, and the adoption of health information technologies. This collective body of research, if fully embraced and learnings applied, can contribute to improved policy development across a broad range of health areas.

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— Advancing real-world patient-level clinical evidence

The use of real-world evidence is growing significantly in health research as a means to better understand the variability in clinical care and the use of alternative treatment pathways. This is also reflected in the rising volume of research publications utilizing real-world evidence in this bibliography. Understanding the drivers of this variability and how it affects patient sub-populations is critical to advancing care and patient safety. The growing availability of real-world patient-level data enables this research to advance and bring greater clarity to defining optimal care. It can also improve the foundation for predictive medicine and the application of artificial intelligence and machine learning. Researchers have been advancing their understanding across many disease areas and treatment settings, using a variety of electronic health records, insurance claims, and other data sources. This collection of research also reinforces the diversity of clinical care issues that require new understanding and can benefit from patient-level clinical evidence.

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About the Institute

The IQVIA Institute for Human Data Science contributes to the advancement of human health globally through timely research, insightful analysis and scientific expertise applied to granular non-identified patient-level data.

Fulfilling an essential need within healthcare, the Institute delivers objective, relevant insights and research that accelerate understanding and innovation critical to sound decision making and improved human outcomes. With access to IQVIA's institutional knowledge, advanced analytics, technology, and unparalleled data, the Institute works in tandem with a broad set of healthcare stakeholders to drive a research agenda focused on Human Data Science, including government agencies, academic institutions, the life sciences industry, and payers.

Research Agenda

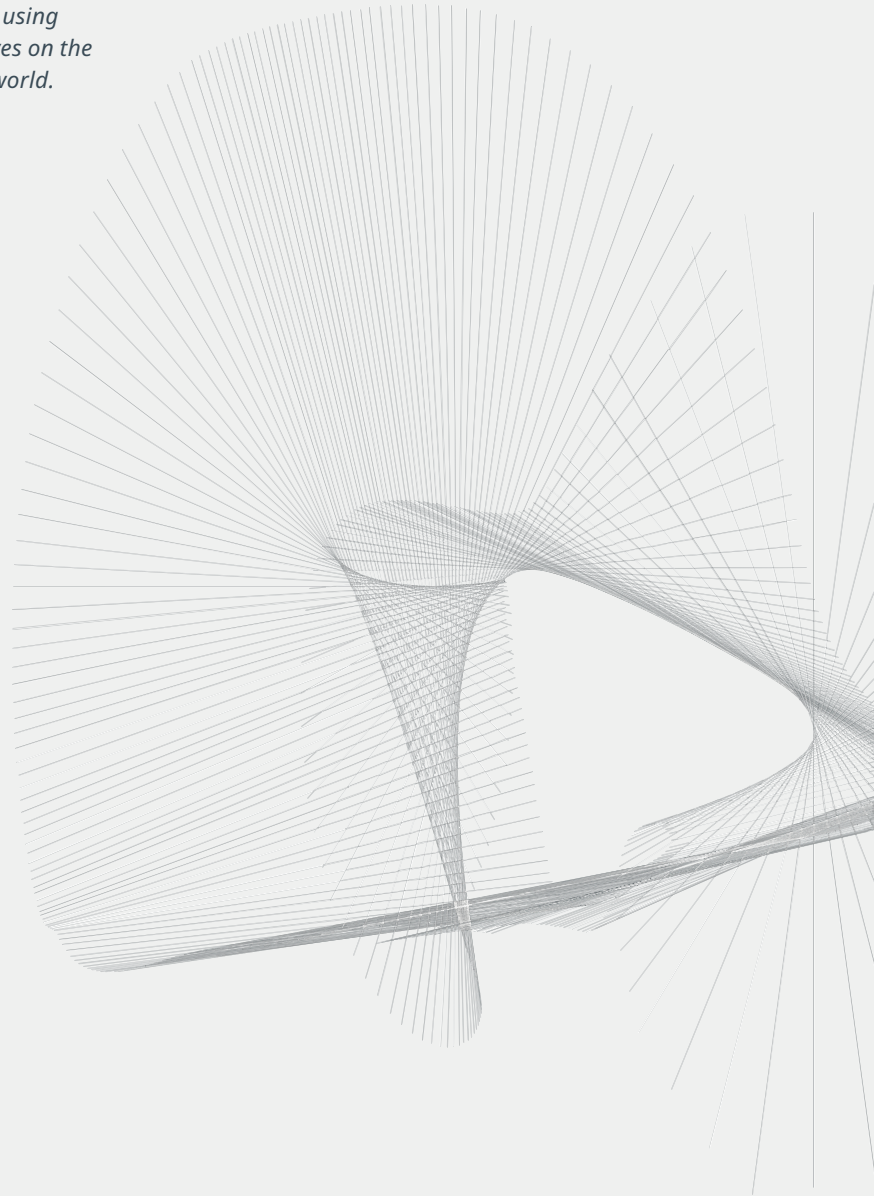
- The research agenda for the Institute centers on five areas considered vital to contributing to the advancement of human health globally:
- Improving decision-making across health systems through the effective use of advanced analytics and methodologies applied to timely, relevant data.
- Addressing opportunities to improve clinical development productivity focused on innovative treatments that advance healthcare globally.
- Optimizing the performance of health systems by focusing on patient centricity, precision medicine and better understanding disease causes, treatment consequences and measures to improve quality and cost of healthcare delivered to patients.
- Understanding the future role for biopharmaceuticals in human health, market dynamics, and implications for manufacturers, public and private payers, providers, patients, pharmacists, and distributors.
- Researching the role of technology in health system products, processes and delivery systems and the business and policy systems that drive innovation.

Guiding Principles

- The Institute operates from a set of guiding principles:
- Healthcare solutions of the future require fact based scientific evidence, expert analysis of information, technology, ingenuity, and a focus on individuals.
- Rigorous analysis must be applied to vast amounts of timely, high quality and relevant data to provide value and move healthcare forward.
- Collaboration across all stakeholders in the public and private sectors is critical to advancing healthcare solutions.
- Insights gained from information and analysis should be made widely available to healthcare stakeholders.
- Protecting individual privacy is essential, so research will be based on the use of non-identified patient information and provider information will be aggregated.
- Information will be used responsibly to advance research, inform discourse, achieve better healthcare, and improve the health of all people.



The IQVIA Institute for Human Data Science is committed to using human data science to provide timely, fact-based perspectives on the dynamics of health systems and human health around the world. The cover artwork is a visual representation of this mission.



CONTACT US

100 IMS Drive
Parsippany, NJ 07054
United States
info@iqviainstitute.org
iqviainstitute.org