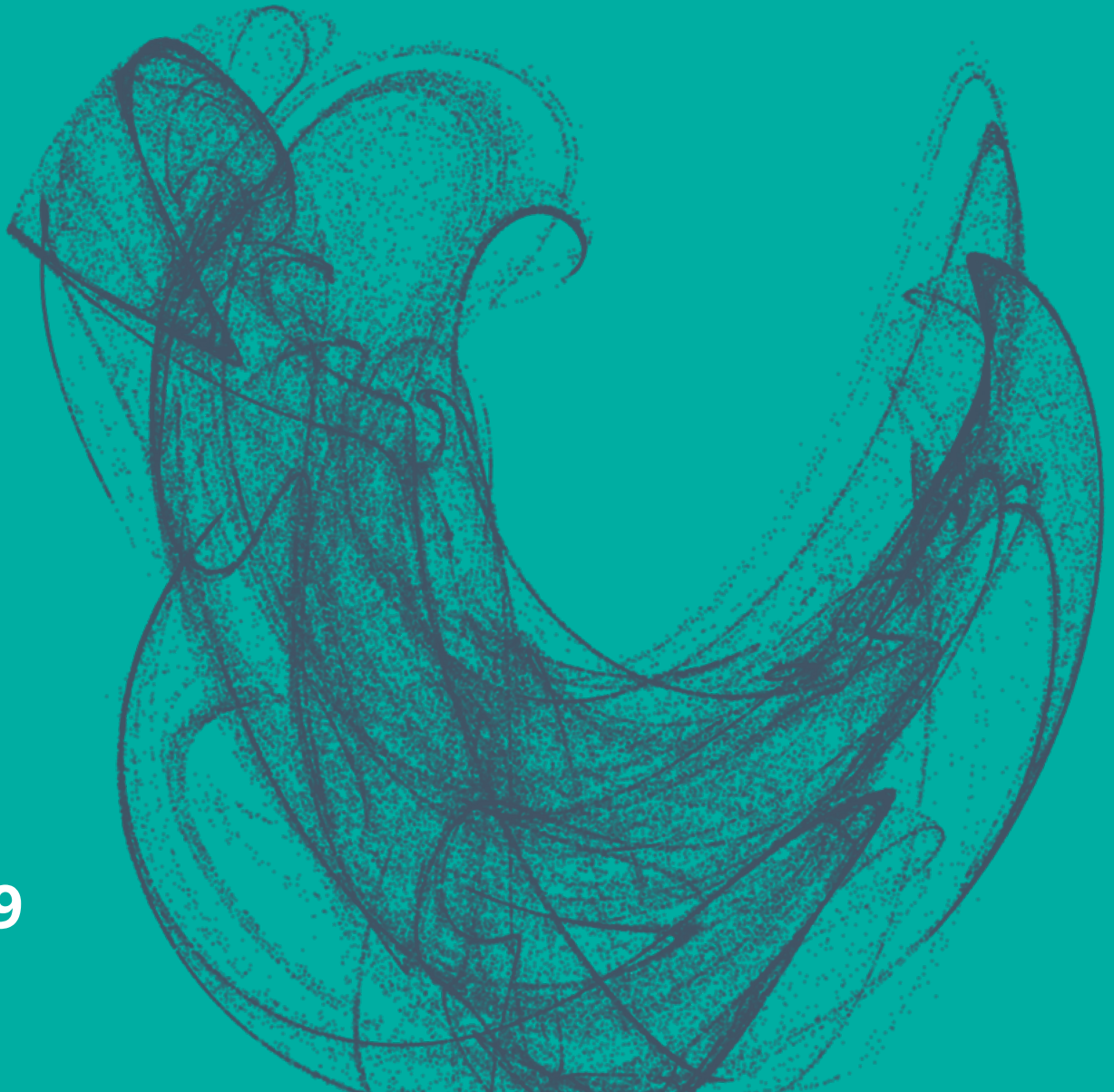


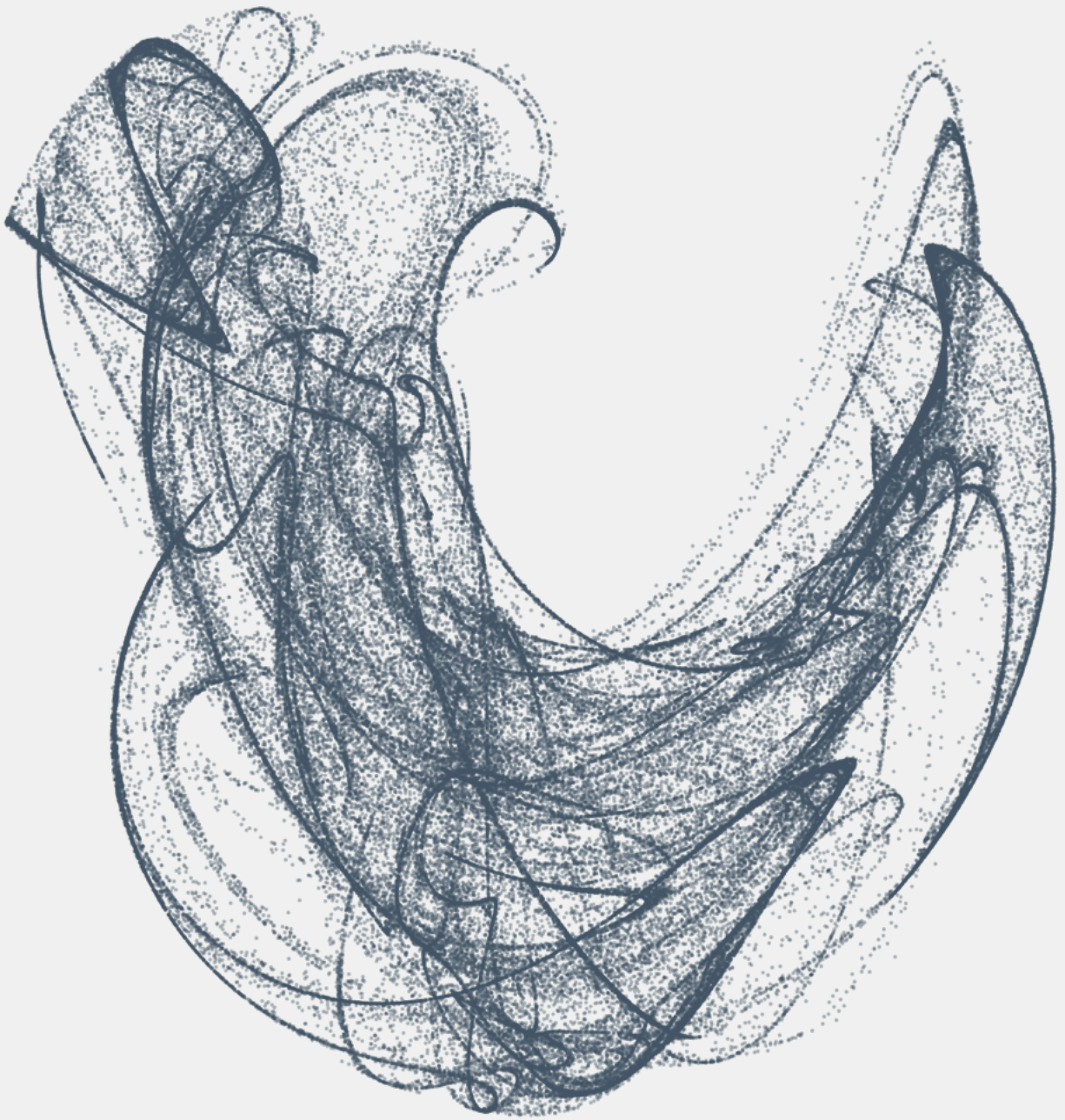


Advancing Academic Research

BIBLIOGRAPHY OF PUBLISHED PAPERS AND
PRESENTATIONS USING IQVIA INFORMATION



OCTOBER
2019



Introduction



IQVIA information is used extensively by researchers around the world to advance the understanding of Human Data Science—a better way to advance human health and make better more insightful decisions with data. As a leading global information and technology services partner, we collaborate with academics and others whose research can be significantly advanced through access to IQVIA proprietary information.

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

Data privacy is a priority at IQVIA. The company uses a wide variety of privacy-enhancing technologies and safeguards to protect individual privacy while generating and analyzing information on a scale that supports healthcare stakeholders and researchers alike.

This IQVIA bibliography provides a summary of research published from January 2018 through June 2019 that was undertaken by U.S.-based researchers who utilized IQVIA data assets.

It is organized in reverse chronological order by publication date and segmented into four themes:

- Understanding disease and treatment patterns
- Providing content for healthcare costs
- Assessing policy levers
- Advancing real world patient-level clinical evidence.

Collectively, this research represents a substantial advancement in understanding the Real World operation of our health system and is invaluable to multiple stakeholders. 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 or join our mailing list, visit iqviainstitute.org

MURRAY AITKEN

Executive Director

IQVIA Institute for Human Data Science

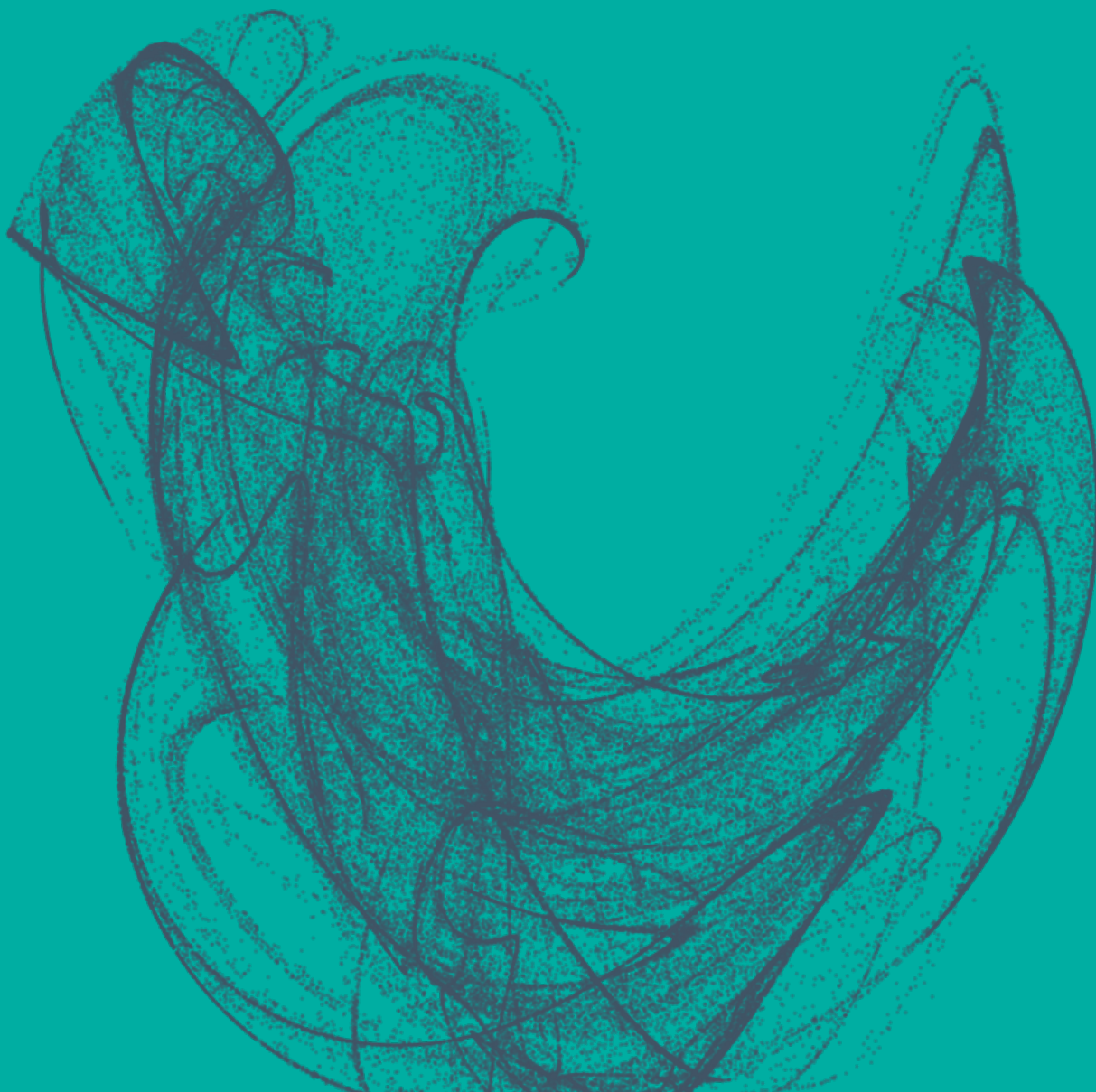
To learn more specifics about IQVIA's data privacy policies

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Understanding disease and treatment patterns

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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 5 areas considered vital to contributing to the advancement of human health globally:

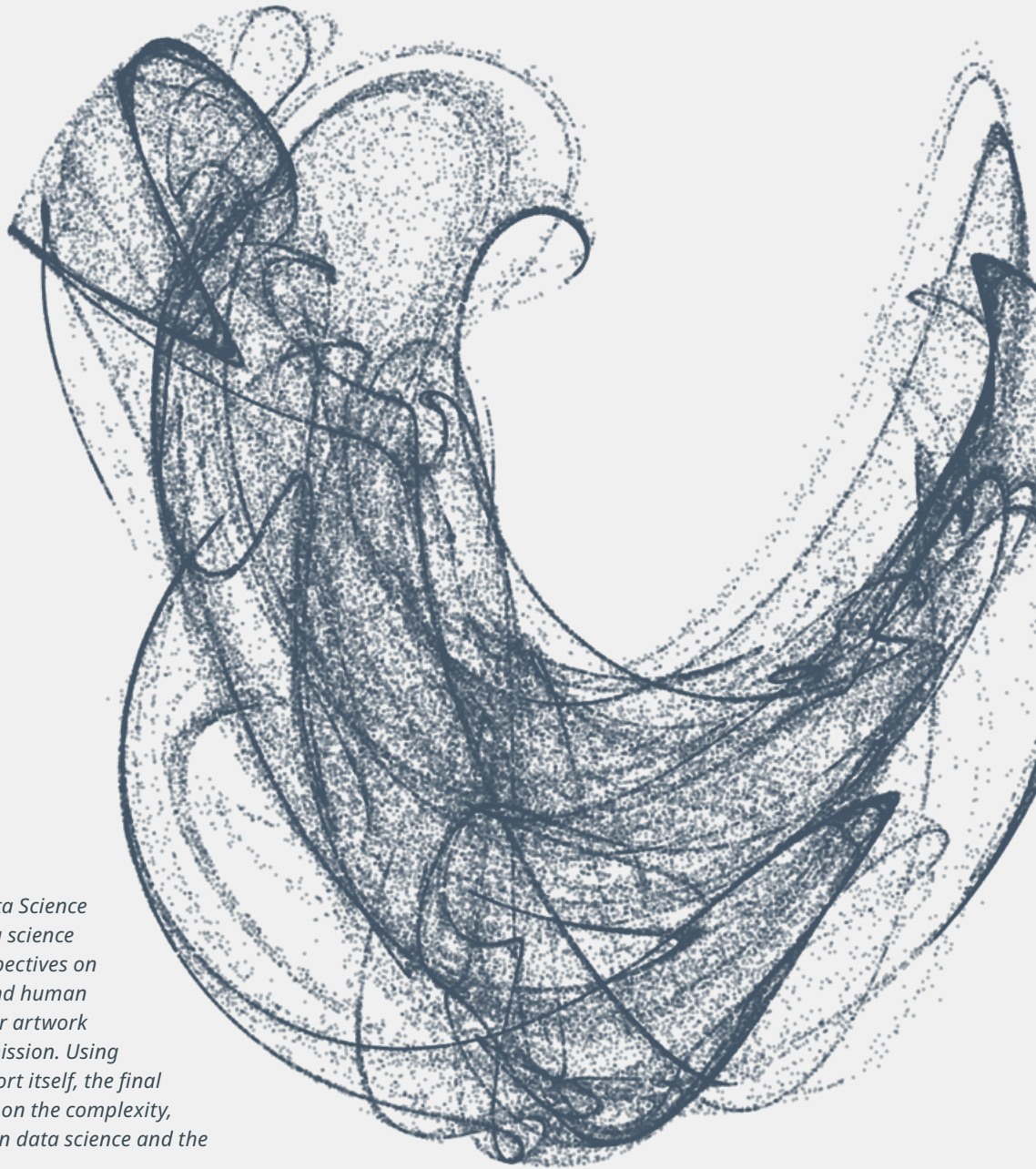
- Improving decision-making across health systems through the effective use of advanced analytics and methodologies applied to timely, relevant data.
- Addressing opportunities to improve clinical development productivity focused on innovative treatments that advance healthcare globally.
- Optimizing 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. Using algorithms and data from the report itself, the final image presents a new perspective on the complexity, beauty and mathematics of human data science and the insights within the pages.

Artwork on the covers was generated using data sets from IQVIA MIDAS™ that show sales data for the ten developed markets and six pharmerging countries that collectively form most of the global market by revenue.



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