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Company: Japan System Techniques Co., Ltd.
Representative: Takeaki Hirabayashi, President and CEO
Stock code: 4323, Tokyo Stock Exchange, Prime Market
Contact: Taku Hirabayashi, Director and Senior Officer
Tel: +81-6-4560-1000

Launch of Disease/Injury and Drug Use Statistics Dashboard Service Using Medical Big Data

Japan System Techniques Co., Ltd. (JAST) has developed a statistics dashboard service called Medicine Tiger concerning the use of drugs for diseases and injuries and started providing this service on April 9, 2024. The new service was developed with the cooperation of Ataru Igarashi, an associate professor at Yokohama City University. Medicine Tiger uses the REZULT medical big data platform that is based on the large volume of health insurance invoices* held by JAST. The details are as per attached.

This matter will have only a negligible effect on JAST's results of operations. An announcement will be made promptly if there is any additional information that should be disclosed.

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■ Background

JAST has been involved with a variety of joint research activities with universities and companies for the purpose of utilizing medical big data. As these activities took place, JAST discovered the enormous expense of surveys that are part of research programs in order to identify drug prescription patterns for specific diseases and injuries and to determine the scope of diseases and injuries for which specific drugs are prescribed. JAST realized that cutting the cost of surveys would lower the cost of research activities, facilitate the more efficient use of resources and raise the speed of R&D programs.

To accomplish this goal, JAST developed the Medicine Tiger dashboard, a service for the visualization of statistical data obtained from JAST's REZULT medical big data platform.

Medicine Tiger uses the Tableau business intelligence tool for data visualization. A patent for this new service is pending.

■ Medicine Tiger

By using health insurance invoice data, Medicine Tiger can calculate the rates at which drugs were prescribed for specific diseases or injuries as well as rates at which diseases or injuries are linked with specific prescription drugs. Medicine Tiger then generates a list of the top ten. Data can be categorized by dates, gender, age, type of prescription and region. This makes it possible to see with ease differences in prescription patterns when changing parameters. Data analysis concerning differences between prescription drugs received at hospitals and at pharmacies is possible too. In addition to performing these basic functions, Medicine Tiger can be customized to match the requirements of individual customers.

Service name: Medicine Tiger

Start of service: April 9, 2024



An example of a Medicine Tiger display

Use these URLs for more information about Medicine Tiger.

Medicine Tiger website: <https://www.jastlab.jast.jp/medicinetiger/>

Medicine Tiger commentary video: <https://youtu.be/MhAcqfqAPiI?si=QvPZuifGhO-CouD->

■ **Examples of How Customers Can Use Medicine Tiger**

This service can support research activities and is useful for a diverse array of activities in any business field. JAST assumes the followings cases for the use of this service.

Marketing: Drug prescription trends, market share surveys and other information for determining marketing strategies

Medical device development: Clinical trial feasibility studies, examinations to establish protocols for clinical trials

Pharmacists: Examinations to find alternate drugs to replace drugs that will no longer be available

Physicians: Provision of information about drugs that cannot be used together

■ **Introductory Sales Campaign**

For the launch of Medicine Tiger, a trial version is available to enable prospective customers to use the basic services at no cost. Use the following website to submit an application for a trial version.

Eligibility: Individuals employed by a company or other organization

Trial period: Two weeks

Application deadline: May 31, 2024

Applications: <https://www.jastlab.jast.jp/contact/>

■ **Upcoming Activities**

As Medicine Tiger is sold, JAST plans to make revisions as needed to meet customers' needs as well as customization requirements. Plans also include the addition of functions and optional services that match the requirements of specific users. Another goal is to use Medicine Tiger for the growth of JAST's medical big data business operations.

■ REZULT Medical Big Data Platform

Use this URL for more information about the REZULT medical big data platform.

https://www.jastlab.jast.jp/rezult_data/

■ Profile of Ataru Igarashi

Associate Professor, Department of Health Economics and Outcomes Research, Graduate School of Pharmaceutical Sciences, The University of Tokyo

Associate Professor, Department of Data Science, Association of Medical Science, Yokohama City University

Background:

2002: Graduated from Graduate School of Pharmaceutical Sciences, The University of Tokyo

2008: Postdoctoral Course, Graduate School of Pharmaceutical Sciences, The University of Tokyo

As a specialist in pharmacoeconomics, Mr. Igarashi has written guidelines for health care economics, created assessment indicators for comparisons of the cost of medical technologies and the associated benefits, including patient QOL, and established other data that helps healthcare professionals make a variety of decisions involving health care.

■ The Future Co-Creation Laboratory of JAST

The Future Co-Creation Laboratory of JAST is a medical big data business with the mission of using the digital transformation of health care backed by medical big data (health insurance invoice data, health check-up data and other data) to solve issues at healthcare facilities and insurance companies and organizations. This laboratory will continue to analyze information obtained from research activities in order to raise the value of JAST's data and create more ways to solve the issues of customers.

Operations of The Future Co-Creation Laboratory also contribute to accomplishing Sustainable Development Goals number three, good health and well-being, and nine, industry, innovation and infrastructure. These activities include the use of medical big data to enable people to stay healthy and the use of alliances with the academic sector for joint research and the development of products.



* Health insurance invoices

When an individual receives a medical treatment covered by insurance, the healthcare institution sends an invoice listing the procedures and amounts due to the insurance company or organization. For medical and dental care, an invoice listing the procedures and amounts due is sent. For pharmacies, an invoice listing the drugs supplied and amounts due is sent. For nurses visiting individuals at home, an invoice listing home nursing care services and amounts due is sent. One invoice for each patient and individual healthcare institution is prepared every month. Invoices contain information about the reasons that individuals received medical care, the cost of the care and other items. JAST converts this information into a database for subsequent utilization.

■ Inquiries

Japan System Techniques Co., Ltd.

The Future Co-Creation Laboratory

Contact: <https://www.jastlab.jast.jp/contact/>

Website of The Future Co-Creation Laboratory: <https://www.jastlab.jast.jp/>