

**News Release Dated November 14, 2023**

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### **Start of Joint Research to Estimate the Economic Benefits of New Drugs**

Japan System Techniques Co., Ltd. (JAST) and Yasushi Hara, an Associate Professor at Kobe University, have started a joint research program using JAST's medical big data for the purpose of estimating the economic benefits of new drugs. The details are as per attached.

The earnings forecast announced on May 12, 2023 incorporates the effect of this matter on the results of operations for the fiscal year ending March 2024. An announcement will be made promptly if there is any additional information that should be disclosed.

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Japan System Techniques Co., Ltd.  
Kobe University

## Start of Joint Research to Estimate the Economic Benefits of New Drugs

Japan System Techniques Co., Ltd. (Head office: Osaka, Representative: Takeaki Hirabayashi, President and CEO; JAST) and Yasushi Hara, an Associate Professor at Kobe University, have started a joint research program using JAST's medical big data for the purpose of estimating the economic benefits of new drugs.

### ■ The Joint Research Program

The joint research program involves the analysis of data in order to determine how drugs with an even higher efficacy and mobile medical devices can improve the quality of life of patients. Combining health check-up data and health insurance invoice data\* makes it possible to observe the effects on individual patients of new medical innovations. In addition, patent data and other information is utilized in order to measure the benefits of intellectual property.

### ■ Expected Benefits of the Joint Research Program

The use of invoice data and health check-up data for individual patients makes it possible to obtain the benefits of revolutionary pharmaceutical and other medical innovations at the micro level. Many types of drugs are now used in addition to the conventional small-molecule drugs, such as antibody drugs and regenerative medicine. This program has the goal of using evidence to monitor these changes in drugs and playing a role in discussions for deciding the types of systems should be established.

(Yasushi Hara, Associate Professor, Graduate School of Business Administration, Kobe University)

### ■ 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 (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 invoice data**

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.

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Contact for more information (redirected to an external website): <https://www.jastlab.jast.jp/contact/>

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

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