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Recommendation Service for City of Kobe Using Disease Risk Forecasting AI

Japan System Techniques Co., Ltd. (JAST) has developed a disease risk forecasting AI that uses the company's REZULT medical big data platform and has started providing this technology to the City of Kobe in order to send messages to residents that recommend receiving an examination at a healthcare facility. 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.

April 16, 2024
Japan System Techniques Co., Ltd.

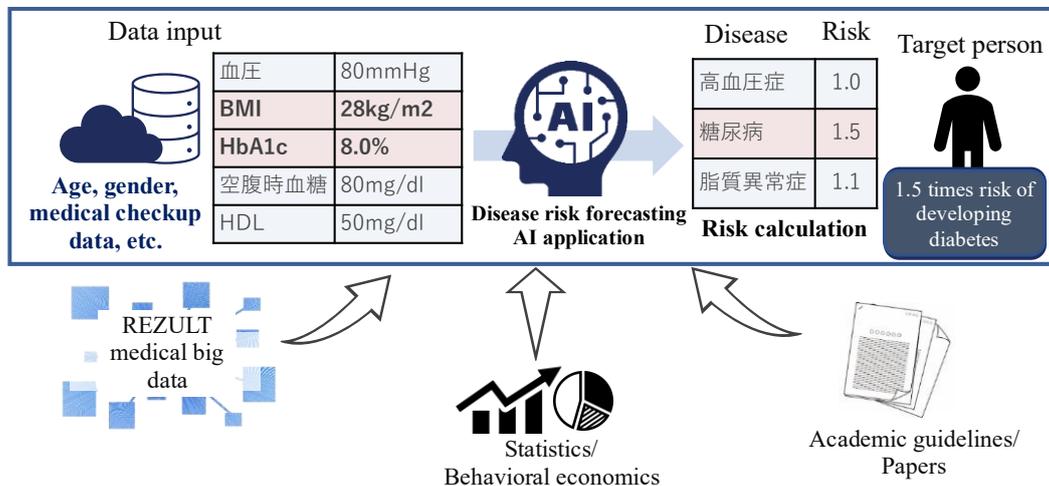
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■ Disease Risk Forecasting AI

JAST has used its REZULT medical big data platform consisting mainly of health insurance invoice data to develop technology for a machine learning model that forecasts the risk of lifestyle diseases occurring five years after a regular medical examination. The practical use of this technology has now started. This development project included the oversight and assistance of Dr. Takahiro Hoshino who is a professor of the Department of Economics at Keio University and leader of the Business and Economic Information Fusion Analysis Team at the RIKEN Center for Advanced Intelligence Project.

JAST’s disease forecasting technology uses a much more accurate model than the conventional risk assessment model by incorporating height, weight, age and other characteristics of individuals. This technology makes it possible to calculate numerical values for the risk of a specific person developing a disease. Providing this information is expected to make people more aware of the importance of healthy life styles and alter behavior by encouraging people to undergo medical checkups, including examinations for a specific problem. The JAST disease risk forecasting AI is currently able to determine forecasts for 10 diseases, mainly lifestyle diseases.



Structure of the disease risk forecasting AI model

■ Notification Service for Residents of Kobe

JAST has been providing a healthy life style support service, which includes assistance for preparing national health insurance data health plans, to the City of Kobe since 2013. In 2022, the City of Kobe started a project for sending residents recommendations to visit healthcare facilities for examinations that can prevent lifestyle diseases from becoming serious. JAST has provided support for this project concerning the selection of people to receive recommendations, the composition of recommendations to undergo an examination and measuring the effectiveness of these recommendations.

The results of a medical examination are combined with other data about the individual in order to determine the risk of developing a lifestyle disease. As a result, people can receive messages with information specific to their own characteristics. Including information in messages about the individual’s current health further raises awareness of the importance of measures

to stay healthy and the need to undergo a medical examination.

For the provision of this service to the City of Kobe, JAST is using the city’s health insurance invoice data and data from medical examinations for relearning activities.

「自覚症状が無いから大丈夫!」と油断は禁物です!

今後の健康な人生のために、
特定健診の受診と適切な医療機関の受診、
健康的な生活習慣を心掛け、
生活習慣病の重症化を未然に防ぎましょう。

医療機関の検索はこちら
「兵庫県医療機関情報システム」から検索できます。

URL
<https://web.qq.pref.hyogo.lg.jp/hyogo/ap/qq/men/pwtpmenuit01.aspx>

※この通知と行き違いで既に受診済みの場合は何卒ご容赦ください。

神戸市国保年金医療課
〒650-8570 神戸市中央区加納町6丁目5番1号

この通知についてのお問い合わせ(カスタマーサポートセンター)
土・日・祝・年末年始(12/29~1/5)を除く
9:00~17:00
開設期間:令和6年3月29日まで

あなたへのメッセージ

特定健診の結果で**腎臓の障害が疑われる方へ**この通知を送付しています。
放置により悪化する可能性がありますので、
医療機関へ受診し(有料)、治療の必要性を
判断してもらいましょう。

※受診の際は、健康保険証・特定健診結果(お持ちの場合)をご持参ください。

慢性腎臓病(CKD)は新しい国民病とされています。

20歳以上の成人の**8人に1人**が慢性腎臓病(CKD)です。

慢性腎臓病とは、**自覚症状がないまま腎臓の機能が低下する病気**です。

平成23年度厚生労働省 CKDの早期発見・予防・治療標準化・進展防止のに関する研究班による調査

あなたの腎臓を守るためには、早めの受診が大切です。

あなたの特定健診結果 受診日 2023/04/01

測定項目	あなたの値	受診目安値	要注意項目	
高血圧	収縮期血圧	142	140mmHg以上	☹️
	拡張期血圧	83	90mmHg以上	
糖尿病	HbA1c	6.4	6.5%以上	
腎臓の機能	eGFR	57.2	60ml/分/1.73ml未満	☹️
	尿蛋白	(-)	±以上	

※この通知は、特定健診の結果、受診目安値以上の項目があり、一定期間医療機関を受診していない方を対象に送付しております。

あなたの腎臓病の発症リスク

健診結果に異常がない人と比較して

5.6倍 となっています。

※CKDは悪化すると腎不全や透析に至るリスクがあります。

ご自身のために、大切な人のために、**からだの状態を見直しませんか?** 詳細は次ページへ

Medical examination recommendation messages include a variety of personalized information

■ **Upcoming Activities**

JAST is continuing to use numerous measures to further increase the use of this AI forecasting model as well as to raise its accuracy by using a broader range of learning data and accumulating more data about changes in the behavior of people who receive messages. In addition, JAST is studying ways to make output reflect the needs of the market even more closely and creating more products and services in order to help people covered by health insurance remain in good health.

* 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**

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