

# Utilize AI to prepare government and care plan Commence consideration for efficiency improvement of nursing care and reduction of burden

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"Ishihara economic revitalization minister"

The government announced on Wednesday that it will begin consideration to utilize AI (artificial intelligence) in the process of developing a care plan. The aim is to increase the number of more effective services from the viewpoint of independence support, and to link efficiency to work and reduce the burden. Although there are many subjects such as establishment of a mechanism to gather necessary data, it includes the possibility of developing into common sense of the industry and the innovation that transforms the way of working professionals, and it seems that attendees' attention will be gathered.

"Health care and long-term care enrich the lives of consumers," the association was established as a playmaker of the future growth strategy "future investment conference". At a meeting to intensively discuss medical care and nursing care, the government first showed the idea of setting AI as an issue. Nobuaki Ishihara who attended the meeting said, "The possibility that medical care and nursing care will be reformed as technology progresses is becoming visible, it is important to open a new way of thinking." Some private enterprises have already started to seek combinations of care management and AI. The government has pointed out "building the utilization base of data" to realize the concept. In order to make AI to create an optimum plan for each condition, we will work on resolving the hurdle such as how to collect highly accurate information that can be used as evidence. We will put on measures to advance digitization and standardization of records. She also clarifies the intention of using AI in the field of medical treatment and plans to discuss similar themes. We will also summarize the results in January next year and reflect on the subsequent policies. In addition to this, we also reviewed the management standards and rewards of facilities and establishments from the viewpoint of encouraging the spread of watching devices using sensors and the latest robots as a point of nursing care. A voice calling for taking drastic reforms taking into consideration serious shortage of manpower has appeared and it is likely to affect the discussion over the revision in 2018.

# Reflect the Prime Minister to care reward the use of AI and robots is expressed personnel standards review also instructed the reification

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"Future Investment Conference 10th (Image Source: Prime Minister's Office HP)"

Prime Minister Shinzo Abe expressed his intention to aim for the construction of a new medical care and nursing care system in anticipation of 2025 at the "Future Investment Conference" on 10th. Explain the concept of shifting to a system that emphasizes viewpoints such as maintenance of health, prevention of severity, support for independence, and full utilization of state-of-the-art technologies such as artificial intelligence (AI), robot, watching

sensor and ICT. In order to speed up the reform, he declined to review the staffing standards of facilities and offices and rework of compensation.

### Future investment conference

while creating an efficient system to meet the needs to increase, there is speculation that you also want to achieve suppression of the social security costs continue to bulge. Prime Minister Shinzo Abe responded, "I will cause a paradigm shift, clarify the target date and decide the execution plan by back counting from there." "It will be there soon in 2025. We will make full use of the new system by 2020 so as to make it in time," and asked related ministers to materialize.

Yasuhisa Shiozaki, Minister of Health, Labor and Welfare presents a process chart for the immediate action on this day. He revealed his intention to include policies in line with the instructions of Prime Minister Shinzo Abe for simultaneous revision of medical fee and nursing care fee for 2018. Detailed discussion will be advanced at each council. In the future, we will hurry to develop useful databases that form the foundation of innovation and demonstrate the merits of utilizing high-tech equipment. In the early 2020s, it will be deployed to realize medical treatment and care by AI, rationalization of care, highly-accurate remote support, scientifically proven care, and burden on staff.

Experts who attended the meeting proposed measures to be implemented by nursing care remuneration revision. In addition to incorporating mechanisms that encourage the introduction of

robots and the like, we have also structured and standardized the contents of highly effective care from the viewpoint of independence support, and also decided to lower the fee of businesses who do not do it. Regarding medical fee compensation, setting evaluation of telemedicine equally to face to face, to encourage optimization of medical treatment by AI, etc. are mentioned.

Ishihara Nobuaki Minister of Economic Affairs, who met after the meeting, emphasized, "We will resolve issues such as the declining birthrate, aging society and population decline that our country has, through social innovation implementation." "I would like to further deepen the discussion in the field of medical care and nursing care." The government is planning to emphasize coordination with ruling parties and officials in the future.

# AI used for medical care and nursing care Morogashi started full-scale examination Big data storage

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"Experts' meeting on the 12th"

In order to use to enable artificial intelligence (AI) in the field of medical and nursing care, what I wonder strategy is needed? On Monday, the Ministry of Health, Labor and Welfare launched a new expert opinion meeting and began full-scale study.

Establish practical areas that can be utilized, and devise measures to disseminate them to the site while ensuring safety. It is aimed to provide more reasonable and high quality services and to reduce the burden on staff by improving work efficiency. We will also aim to develop an

environment that anyone can easily access accurate information updated to the latest contents. We will summarize the report around this spring. I would like to move on to reflect on the growth strategy of the government and move on to the process of embodying the concept.

Shiozaki Akira, Minister of Labor, attending the conference expressed his view that "AI will bring about major reforms in medical care and nursing care, creating new value that has never existed before." "We will formulate a clear vision in our ministry and make sure that citizens and patients can enjoy the merit tightly, we must also reform the system and amend the law if necessary."

### **Also, watch over and care plan creation AI**

The range in which the utilization of AI is assumed is wide. By capturing and analyzing enormous amounts of information, it seems possible to make optimal approaches according to individual characteristics, detect diseases before onset, develop new treatments, drug discovery, early public health measures, etc. It seems that the influence on the medical economy seems to be extremely large. In the field of nursing care, there is a high possibility that it can be used to improve professional support and productivity. In addition to making it possible to drastically reduce the time spent on document creation, handover and watching, it is expected that more effective care plans can be increased from the viewpoint of independence support.

The Ministry of Health, Labor and Welfare will also focus on accumulating and managing big data that will become a nutrient source for AI. On 12th "Data Health Reform Promotion Headquarters" was also held. We confirmed the policy to collect and organize various information on medical care, nursing care and health across the barriers of the existing system and

to establish a platform that functions together. In 2020 he says he wants to reach full-scale operation. Yasushi Shiroasaki said at a meeting, "Fortunately there is insurance in Japan, basic data has been preserved so far, there is a possibility that if you can make good use of it there is a possibility to lead the world."

## NIKKEI Newspaper article.

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## Automatic creation of AI optimal plan for Saint Care, nursing care

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Caregiver giant St. Care Holding will introduce Artificial Intelligence (AI) at the nursing care site. Developed a system that can automatically create a nursing care service plan that matches the condition and symptoms of a care recipient, together with a US venture company with technology. We will make quality plans possible in half the past. We will raise productivity and alleviate serious human labor shortage and prepare a system to propose the optimum plan for the care recipient.

In the long-term care insurance system, care managers are preparing nursing care service plan (care plan) according to the situation of the care recipients. After examining the symptoms and the situation of family members living together, we combine visiting nursing care and day service so that they fit within the specified usage limit.

It is common that care managers are responsible for about 30 to 40 people alone. It may be equivalent to about 40% of the time, only about 20% of the working hours, just by creating a care plan. In addition, there was also a problem that care managers made variations in plan quality.

St. Care uses the AI of the Silicon Valley, Activity Recognition Inc. In addition to summarizing the physical condition of over 1,000 people who received nursing care services in the past to about 400 items, let AI learn data including the plan actually created. In addition, while deciding which priority service should be given by the care recipient, we will create the optimum plan.

Individual differences of care managers are reduced, and it is said that the planning time can be halved. It is an idea that will lead to an improvement in the quality of service, such as increasing the number of interviews with the

elderly in vacant time. From January next year, we started empirical research at several local governments including the metropolitan area, and examined the quality of the plan that AI created. We aim to commercialize within several years.

Labor-intensive and physical fitness is sometimes required, and nursing care workplaces are chronically short of human resources. According to the Ministry of Health, Labor and Welfare's "general employment introduction situation", the effective job offering ratio of nursing care service positions (including part) is 3.14 times as August. It is much greater than the overall average (1.22 times).

For this reason, business operators are using IT (information technology) to promote work efficiency and the like. Orix living (Tokyo · harbor) installed a sensor in the nursing home for seniors and introduced a system to send a warning to the tablet distributed to the staff when the occupant got up. In December, Medical Care Service (Saitama City) also installs a sensor that can confirm whether the occupant is asleep at the group home.