Current Trends in Health Insurance Systems:
OECD Countries vs. Japan

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Abstract

Over the past few decades, the longest extension in life expectancy in the world has been observed in Japan. However, the sophistication of medical care and the expansion of the aging society, leads to continuous increase in health-care costs. Medical expenses as a part of gross domestic product (GDP) in Japan are exceeding the current Organization for Economic Co-operation and Development (OECD) average, challenging the universally, equally provided low cost health care existing in the past. A universal health insurance system is becoming a common system currently in developed countries, currently a similar system is being introduced in the United States. Medical care in Japan is under a social insurance system, but the injection of public funds for medical costs becomes very expensive for the Japanese society. In spite of some urgently decided measures to cover the high cost of advanced medical treatment, declining birthrate and aging population and the tendency to reduce hospital and outpatients’ visits numbers and shorten hospital stays, medical expenses of Japan continue to be increasing.

key words: medical insurance, health-care system, universal health insurance, Organization for Economic Co-operation and Development countries

Introduction

For the last four decades, Japan has had the highest life expectancy at birth. The reduction of infant and maternal mortality, beginning in the 1950s, had strong effect on life expectancy. Recognizing this demographic effect, beginning in 1961, under the Japanese legislation a universal health insurance coverage was established. From the 1960s until now (after achievement of the universal coverage), reductions in mortality rates were noted for adults and elderly people, mainly with cerebrovascular and ischemic heart diseases as a result of easy access to health care by patients. This allowed widespread use of antihypertensive drugs, which contributed to reduction in stroke and cardiovascular mortality.1) The universal health insurance coverage is a system in which everyone in a society can access the health-care services they need without incurring any financial hardships.2) However, health expenditure as a share of the gross domestic product (GDP) is rapidly increasing in recent years (Fig. 1), and available data show that the improvement in healthy life expectancy decelerated since 1990s.3) The object of this article is to analyze the differences among the health-care systems of the first section of Organization for Economic Co-operation and Development (OECD) countries and to investigate the current status of health and health insurance in Japan and the world from OECD Health Statistics 2013 in its second section.

I. Comparison of health insurance among the leading OECD countries

There are three major types of social health-care systems: social insurance systems like Japan, France, and Germany, tax-based system like the United Kingdom and Sweden, and the United States—limited service to the elderly or disabled, called Medicare (Table 1). The universal health coverage has both advantages and disadvantages. The advantages in comparison with private insurance are that being based on solidarity, premiums are levied according to the ability to pay, and not on the risk of illness.4) Comparing to a tax-based system, the advantage is that the benefit package is defined as an entitlement and is financed by contributions that are earmarked for health care.5) Although individuals pay for their prescription medications, public health care is generally free
of charge in the United Kingdom. However, in Sweden, Germany, and France, individuals must make certain contributions toward both medical examinations and prescription medications. Furthermore, relevant laws and regulations in Germany and France provide for chronic illnesses, and the individual contributions towards expensive or prolonged treatments in these countries are considerably lower compared to Japan’s expensive health-care system. In this first section, we present some essential characteristics of the health-care system in each major OECD country.

**Japan:** A public, social insurance system, which provides universal health insurance coverage since 1961. Relatively early in the world, especially with an income per capita approximately half of that in the United Kingdom, all Japanese citizens are provided with care and treatment at any time and at the place of their choice, regardless of the type of facility: public or private, level of care and as in- or outpatients. The fundamental idea of this system is free access to high-quality health care. In Japan, health insurance is institutionalized in two major systems: the National Health Insurance, which generally covers self-employed people, students, farmers, and others, and Employees’ Health Insurance, which covers salaried workers and their dependants and is categorized into six types: Seamen’s insurance, government-managed insurance, union-managed insurance, mutual aid association for government employees, local government employees, and private school staff insurance. Additionally in 1973, a major revision of coverage in all plans took place, taking out co-payments once the monthly amount exceeded approximately 700 US dollars.

Currently the payment is 30% across the board for everybody, except for people aged 70 years and over with income below those of average workers, who pay 20% and children younger than 6 years, who pay 20%.8)

Japan’s cost containment can primarily be attributed to its payment system: supply-side cost control is provided by the nationally uniform fee schedule for reimbursement, which is revised at both global and item-by-item level.7,9) The fee schedule controls the money flowing from all insurance plans to almost all

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Fig. 1  Health expenditure as a share of gross domestic product in 2011 or nearest year. Graph showing Japanese health expenditure over the average of OECD countries. (1) Total expenditure only, (2) Data refers to 2010, and (3) Data refers to 2008. Source: OECD Health Statistics 2013. OECD: Organization for Economic Co-operation and Development.
### Table 1 Overview of the health insurance systems of major OECD countries 11)

| Type of system | Japan (2012) | Germany (2011) | France (2011) | Sweden (2010) | The United Kingdom (2011) | The United States (2011) |
|----------------|--------------|----------------|--------------|--------------|------------------------|--------------------------|
| **Social insurance system**<br>* Universal health insurance<br>* Occupational insurance and regional insurance | Social insurance system<br>* Around 85% of citizens enrolled<br>* Employees enroll in public health insurance by workplace or by region. Not compulsory for employees over a certain income, self-employed people, civil servants, etc.<br>* People for whom it is not compulsory are obliged to subscribe to private health insurance (general compulsory enrollment), in effect universal health insurance | Social insurance system<br>* Universal health insurance (99% of citizens enrolled)<br>* Enrolled by employee system by workplace or non-employee system (self-employed), etc.<br>(People for whom it is not compulsory subscribe to a universal health system benefit plan.) | Public health and medical services through the tax system<br>* For all residents<br>* Landstinger (regional governments) are the providing entities (cash benefits are implemented nationally) | State-owned National Health Service (NHS) through the tax system<br>* For all residents | Social insurance system (Medicare/Medicaid)<br>* Medicare targets those over 65 and persons with disabilities; Medicaid targets low-income earners who meet certain criteria<br>* Does not constitute universal health insurance [16.3% (2010) of the population not covered by any health insurance at all], large role played by the private sector |
| **Individual contribution** | 30%<br>Pre-compulsory education: 20%<br>70–74 years: 20% (30% for those on par with active income earners)<br>75 years or older: 10% (30% for those on par with active income earners) | - **Outpatient**: €10 examination fees per quarter for the same illness (free of charge for people with referrals)<br>  - Inpatient: €10 per day (up to 28 days per year)<br>  - Medication: 10% fixed rate (maximum expenses €10, minimum €5) | - Outpatient: 30%<br>  - Inpatient: 20%<br>  - Medication: 35% (0% for anti-cancer agents and other expensive medications with no alternatives; 70% for stomach medicines; 85% for less-useful medications; 100% for vitamins and tonics)<br>  - Reimbursement system requiring full payment up front (however, in-kind benefits are paid for hospitalization, etc.)<br>  * Supplementary medical costs insurance has been developed to cover individual contributions.<br>(Mutual aid association format; 80% of citizens enrolled.)<br>  * In addition to the above fixed rates, there is an outpatient contribution (€1 per day, maximum €50 per calendar year) and an inpatient fixed contribution (€18 per day, €13.5 for psychiatry) | Inpatient: Set independently by each landstinger at about 80 kr as the daily maximum.<br>  * In many landstinger, free of charge to those aged 18–20 years<br>  **Outpatient**: Set independently by each landstinger<br>  Individual contribution for primary care can be 100–200 kr per time<br>  (By law, the maximum individual patient contribution nationwide is 900 kr per year; landstinger can set a lower amount than this.)<br>  - In many landstinger, free of charge for persons below 20 years of age.<br>  - Inpatient: (Part A) Medicare (compulsory enrollment)<br>  60 days from admission: individual contribution up to $1156<br>  61–90 days: $289/day<br>  91–150 days: $578/day<br>  151+ days: full amount<br>  - Outpatient: (Part B)<br>  (optional enrollment)<br>  $155 per year + 20% of medical expenses<br>  - Medication: (Part D)<br>  (optional enrollment)<br>  Up to $310: full amount self-paid<br>  $310–2,830: 25%<br>  No individual contribution principle<br>  * Outpatient prescription medication has a fixed amount per prescription; three types of fixed-amount contributions for dental treatment. Further exemptions for elderly, low income earners, pregnant women, etc. | No individual contribution principle<br>  * Outpatient prescription medication has a fixed amount per prescription; three types of fixed-amount contributions for dental treatment. Further exemptions for elderly, low income earners, pregnant women, etc. |  |
| Funding Premiums | 10% of remuneration (half paid by the employer) | 15.5% of remuneration Individual: 8.2% Employer: 7.3% * Common to all insured persons * Self-employed persons: individual pays the full amount | 13.85% of total wages Individual: 0.75% Employer: 13.1% * Employee health insurance system enrolled in by private merchants (general system) | 13.85% of total wages Individual: 0.75% Employer: 13.1% * Employee health insurance system enrolled in by private merchants (general system) | Nil | Nil |
|----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Japan (2012)  | Germany (2011) | France (2011) | Sweden (2010) | The United Kingdom (2011) | The United States (2011) |
| State contribution | 16.4% of benefit expenses, etc. | * Japan Health Insurance Association | By law, set at €4 billion in 2009 and to increase by €1.5 billion each year until it reaches a total of €14 billion. Under secondary economic measures, set in January 2009, associated with the economic and financial crisis, €3.2 billion (€6.3 billion based on a full fiscal year) was injected, as the premium rate was set to be reduced by 0.6% in July 2009. Accordingly, the maximum of €14 billion is expected to be reached in 2012. | Traditionally, state liability was limited to making up deficits; however, the state contribution increased in 1991. Appropriated from general public contributions (purposed tax) to fund medical care, pensions, etc. (Tax rate: 7.5% of wage income, including 5.29% medical portion) * Employee insurance system funding breakdown (2008) - Premiums: about 56% - General public contributions: about 37% - Other purposed tax (tobacco, alcohol, etc.): about 5% | No such principle. * Covered by landstinger by taxes. tax revenues (residents’ income tax, etc.) and individual patient contribution amounts. * Small general allocation taxes and subsidies are available from the national government. | Financed by taxes. tax revenues (residents’ income tax, etc.) and individual patient contribution amounts. * Small general allocation taxes and subsidies are available from the national government. |
| Inpatient (Part A) | 2.9% of salary (half paid by the employer) | * Self-employed persons: individual pays the full amount | $2830–4550: full amount self-paid | More than 20% of NHS costs are appropriated from national insurance premiums for cash benefits, such as retirement pensions, etc. | Around $115.40 per month (individual pays the full amount) |
| Outpatient (Part B) | Around $115.40 per month (individual pays the full amount) | Healthcare and long-term care costs are not covered by social security tax. | Around $40.72 per month (individual pays the full amount) | | Around 75% of costs |
| Medication (Part D) | Average premium | Around $40.72 per month (individual pays the full amount) | | | Around 75% of costs |
providers. Thus, although Japan has multiple payers (about 3,500 insurers), it has only one payment system that is applied across the board. This structure improves equity, since the benefit package is essentially the same for all social health insurance plans, and increases efficiency, since administrative costs are reduced. This also means that a revision of payment can be easy when the Cabinet decides on a global revision rate of all services and drug prices, based on the prime minister’s evaluation of the nation’s political and economic situation. During this process, the Ministry of Finance demands a rate decrease, the provider groups lobby for a rate increase, and the Ministry of Health, Labor, and Welfare plays a key part by providing technical expertise, especially regarding surgical fees of cardiovascular and neurological surgery. This revision is made every 2 years.7 The price of drugs, devices, and services is revised on an item-by-item basis so that their net effect becomes equal to the global rate. The intended effect of making each revision depends on the volume of claims, which is estimated from the national claims data survey. These item-by-item decisions are officially made by the Central Social Insurance Medical Council. The Japanese claim review process of the health insurance system has been reported in detail by Ito.9 The providers send a claim to the insurers and get a reimbursement from the insurer. Recently, claim review process in the health insurance in Japan changed to online application. The peer-review board members check items of more than 20,000 items, set for each disease entity and the validity of the treatment is determined. The rejection of payment totals only 0.5% after the introduction of payment in combination of fee-for-service and a per-diem inclusive rate, as set by the Diagnosis Procedure Combination (DPC).

**Germany:** The German health-care system is a benefit-in-kind system provided through social insurance. Individual contributions constitute €10 per quarter for an outpatient visit, with a maximum of 28 visits per year. Individuals pay 10% of the cost of prescription medications, but they are free of charge for persons up to 18 years of age. Overall, the maximum annual amount of medical expense borne by the patient is 2% of the family annual income. This is limited to 1% for the disabled and patients with severe chronic illnesses. Pregnancy- and childbirth-related costs are publicly funded with no individual contributions.

**France:** Medical services in France are provided through a workplace social security developed from a mutual aid system. The system functions through a compensation payment method, in which patients pay the full amount for outpatient examinations and prescription medication; then they receive a reimbursement from the medical insurer, while inpatient services are paid by insurer as benefits in kind. Since individual outpatient contributions are relatively high and only 60–70% of the payments are reimbursed, 80% of the citizens are enrolled in a supplementary medical costs insurance system to cover their individual out-of-pocket medical spending. Besides these fixed-amount patient contributions, outpatients also make contributions (€1 per day, maximum of €50 per calendar year) and inpatient contributions (€18 per day).

**Sweden:** The Swedish health-care system operates as a public service funded by the landsting (county council) responsible for each county, through taxes, with set individual contributions. Individual outpatient contributions vary between landstings from 100 to 200 Swedish Kronas (kr) per examination, with a limit of 900 kr per year for expensive medical treatments. The central government decides on matters relating to individual contributions and expensive medical treatments for inpatients.

**The United Kingdom:** The British health-care system is based on the National Health Service (NHS) and covers all residents. Although inpatient care and outpatient examinations are free of charge under the NHS, persons aged between 16 years and 60 years pay a certain fixed amount toward prescription medication.

**The United States:** The public health insurance systems are Medicare, which covers the elderly and the disabled, and Medicaid, which offers public assistance to low-income earners. Health insurance for the working population is primarily provided through private medical insurance. In the United States, 36% of the medical expenses are paid by private medical insurers, 19% by Medicare, 17% by Medicaid, and 16% by individual patients.10 As medical expenses are high because health-care providers are private, the majority of insured obtain their policies on the private market in the United States. However, the number of those who do not have medical insurance through their workplace has been high particularly among the low-income earners, because premiums are paid in full by the insured. In that way the number of uninsured reached close to 50 million—one in sixth of the population). Therefore by subsidizing low-income earners, the Patient Protection and Affordable Care Act (“Obamacare”) requiring enrollment in medical insurance for the public, has been promoted from 2014. By this reform, the government expects to increase to more than 90% the insurance rate in the United States.
II. Status of Japan among OECD countries: from OECD health statistics

Access to health care: The OECD health care 2009 report mentioned the existence of four barriers to access health care. Such potential barriers include: (1) financial barriers (not being able to afford the costs of care), (2) geographic barriers (not having enough health-care providers in a particular geographic area or inconvenient very long travelling distance to providers), including racial, (3) cultural and information barriers (including language problems), and (4) barriers in terms of timely access (excessive waiting time to see providers).11) Japan has none of these four barriers, so patients can access health care easier compared with other OECD countries.

Medical insurance coverage: Recently, most of the OECD countries have achieved universal or nearly universal health coverage for a core set of services, which usually include consultations with doctors and specialists, examinations, and surgical procedures. The percentage of population coverage reaches 100% for 22 of 31 OECD countries (Fig. 2). The percentages of public coverage for the core set of services are different, so in some countries, primary private health coverage is necessary. The percentages of private health insurance of total health expenditure are 35.1% in United States, 12.7% in France, 12.6% in Germany, 3.3% in United Kingdom, and only 0.3% in Japan.12)

Average length of stay in hospitals: The average length of stay in hospitals is a good indicator of medical efficiency because shorter stays tend to be more service intensive and more costly. The average stay in OECD countries was about 8 days, and here Japan differs with the longest, more than double of the average hospital stay of OECD countries (Table 2). In the recent years, hospital stay in Japan is getting shorter, promoted by the Ministry of Health, Labor, and Welfare.

Consultations with doctors: In many European countries, patients are required or given incentives to consult a general practitioner (GP) for any new condition and only then be referred to a specialist if necessary. However, Japan has no established GP system and in reality patients approach any specialist directly. This is considered an advantage of the Japanese free access policy, but that correlates with the highest number of specialist consultations in the OECD countries. The average number of specialist consultations per person in OECD countries was between 6 and 7 per person per year, but in Japan, this number was above 13 (Table 2). This becomes a disadvantage of the free access policy, as a direct result of everyone’s access to any specialist in Japan, Japanese social aging and result of fee-for-service system of reimbursement.

Out-of-pocket medical expenditure: The measurement of out-of-pocket medical spending should be considered as a share of total household consumption. In the average of 34 OECD countries it was 2.9% and for Japan it was 2.2% (Table 2). The percentage was relatively low in the OECD countries and similar to Germany and France.13) Moreover, the share of out-of-pocket as a share of total health expenditure is less than 15%, which means in Japan burden on patients is not so high.

Self-reported health and disability at age 65: In 12 of the 34 OECD countries, more than half of the population aged 65 years and over rate their health as “good.” New Zealand, Canada, and the United States have the highest percentage of older people assessing their health to be good, and that is above 70%. However, in Japan, less than 20%

Fig. 2 Health insurance coverage for a core set of services. In 22 of the OECD countries health insurance coverage reached 100% in 2011. Source: OECD Health Statistics 2013. OECD: Organization for Economic Co-operation and Development.
Table 2  Health-care use, expenditure, and resources in Japan compared with major OECD countries

|                            | Japan       | Germany    | France      | Sweden      | The United Kingdom | The United States | OECD average |
|---------------------------|-------------|------------|-------------|-------------|--------------------|-------------------|--------------|
| Medical insurance coverage| Public 100% | Public 88.9% | Public 99.9% | Public 100% | Public 100%        | Public 31.8%     | NA           |
| Average length of stay in hospital | 17.9        | 9.3        | 9.2         | 5.5         | 7.3                | 6.1               | 6.0          |
| Consultation with doctors/year | 13.1        | 9.7        | 6.8         | 3.0         | 5.0                | 4.1               | 6.7          |
| Out-of-pocket medical expenditure/household consumption | 2.2%        | 1.8%       | 1.5%        | 3.3%        | 1.5%               | 2.9%              | 2.9%         |
| Self-reported health and disability at age 65 | 18.4%       | 38.7%      | 37.3%       | 63.2%       | 59.5%              | 75.2%             | 42.2%        |
| Pharmaceutical expenditure/GDP | 1.9%        | 1.6%       | 1.8%        | 1.1%        | NA                 | 2.1%              | 1.5%         |
| Generic market share | 9%          | 35%        | 12%         | NA          | 28%                | NA                | 19%          |

Source: OECD Health Statistics 2013. GDP: gross domestic product, OECD: Organization for Economic Co-operation and Development, NA: not applicable.

of the population aged 65 and over report being in good health (Table 2).

Medical technologies: With the development of new medical technologies, the cost of the optimal disease management increases and that becomes one of the reasons of increasing health spending. In the last two or three decades, most OECD countries rapidly developed the availability of computed tomography (CT) scanners and magnetic resonance imaging (MRI) units. Japan has the highest number of MRI (46.9 units per million population) and CT scanners (101.3 units per million population) followed by the United States for MRI units and Australia for CT scanners. The average of MRI units in OECD countries was 13.3 units and that of CT scanners was 23.6 units. These data give us one of the reasons of high quality health care in Japan (Table 3).

Discussion

In the 1970s and 1980s, after the inception of universal coverage, the expansion of the Japanese economy was able to keep pace with the increasing financial burden. In 2000, World Health Organization (WHO) made a world health report 2000—health systems: improving performance (WHO Health Report 2000). In this report, WHO confidently concluded that in terms of quality care, Japan is the world leader and ranked number one among the 191 countries with respect to Overall Health System Attainment. Furthermore, Japan also ranked ninth among the 191 countries according to Health System Performance.\(^{14}\)

According to the OECD Health Statistics 2013, Japanese health expenditure as a share of GDP in 2010 is 9.6%. This is the first year for Japan to exceed the OECD average as a share of GDP (9.3%) spent on health and that was a warning sign (Fig. 1). Meanwhile was believed that health expenditure was lower than other OECD countries. Unfortunately, total health spending in Japan has increased rapidly by approximately 5% per year in recent years. Main
reason is the rapid aging of the population combined with the diminishing number of income-generating population. On average across OECD countries, the share of the population aged over 65 years has increased from less than 9% in 1960 to 15% in 2010 and is expected to nearly double in the next four decades to reach 27% in 2050. In about two-thirds of the OECD countries, at least one-quarter of the population will be over 65 years of age by 2050. This proportion is expected to be especially large in Japan, Korea, and Spain where nearly 40% of the population will be aged over 65 years by 2050. Furthermore in Japan, the proportion of people aged 65 years and over in the population will increase from 22% in 2008 to 30% in 2020, therefore, their share of health expenditure is projected to increase from 52% to 66%.15) The population aged over 80 years presage for Japan will be over 15% in 2050. This data indicate an accelerating pace of Japanese health expenditure increase in near future.

Japan should implement some countermeasures to these tendencies urgently. The most serious factor that should be tackled is low total fertility rate. Because of the trend toward delaying marriage, the rate decreased to 1.26 in 2005 and recovered to 1.43 in 2013. However this rate is still lower than France, United Kingdom, Switzerland, and the United States of America. These countries are able to keep the rate around 2.0. Japanese government and Ministry of Health, Labor, and Welfare should implement appropriate measures to improve this factor.

In Japan, the number of doctor consultations has the highest incidence in the OECD countries and is about the double of the average rate across the board for advanced hospital treatment, for example University hospitals. Most of the acute care in hospitals is now paid for by a combination of fee-for-service and a per-diem inclusive rate set by the DPC, which was introduced in 2003.16) The main reason is that Japan has only fee-for-service system of reimbursement for outpatients on the background of not having GP system. For patients under acute care, mortality ratios were significantly lower in hospitals with a high number of full-time-equivalent physicians and pharmacists, particularly if they had a greater number of subspecialty departments, intensive care beds, general anesthesia procedures, and a greater ratio of inpatient to outpatient service volume.17) This is the reason why the Japanese population tends to visit large hospitals. However advanced treatment hospitals have to decrease their outpatient numbers to concentrate on the implementation of highly-advanced medical technologies.

The share of out-of-pocket to total health expenditure is less than 15% in Japan and its share of total household consumption is 2.2%, which is lower than the average for the 34 OECD countries. If the out-of-pocket payment is very low, the number of medical doctor consultations excessively increases and conversely, if this payment is too high, patients in need refrain from hospital visits and disease progression may impact health status of population and increase expenses. Here establishing the proper balance is the most important.

The aging of the population has indicated large increase in health-care costs in recent years. On the other hand, the sophistication of medical care also has significant impact on the increase of health-care costs. Recently in order to suppress the medical expenses, as a part of the Choosing Wisely initiative, the American Association of Neurological Surgeons (AANS) and Congress of Neurological Surgeons (CNS) have released a list of five things physicians and patients should question for procedures in neurosurgery that are commonly ordered, but not always necessary, as below:18)

1. Don’t administer steroids after severe traumatic brain injury.
2. Don’t perform imaging (plain radiography, MRI, CT, or other advanced imaging) of the spine in patients with nonspecific acute low back pain and without red flags.
3. Don’t routinely obtain CT scans of children with mild head injuries.
4. Don’t routinely screen for brain aneurysms in asymptomatic patients without a family or personal history of brain aneurysms, subarachnoid hemorrhage (SAH), or genetic disorders that may predispose to aneurysm formation.
5. Don’t routinely use seizure prophylaxis in patients following ischemic stroke.

Japanese neurosurgeons should keep in mind these five recommendations from AANS and CNS to reduce unnecessary testing and maintain the Universal Health Coverage System. However, Japanese patients who suffered from headache or mild head injury expect CT scanner or MRI when they visit a clinic, and as Japan has the highest number of CT scanners and MRIs in the world, these examinations can be performed the same day. Considering Choosing Wisely, in Japan awareness of both doctor and patient is necessary.

Pharmaceutical expenditure in Japan is also higher than that in Germany, Sweden, and France. That means generic drug market share is smaller than in other countries (only 9% in Japan for 2011). It is certainly necessary to promote the use of generic drugs in Japan.

The Japanese government is trying the remodeling of social security and taxation. From April 2014,
government raised the value added tax from 5% to 8%, and will attempt to raise it to 10% from October 2015. That will help to improve the public expenditure from general tax revenues (around 40% of National Health Insurance expenditure) of the Japanese health-care system and will enhance social security, contributing to improving the existing low rate of self-reported in good health.

Conclusion

Japan for the first time in the world introduced a national health insurance that provided equal medical care with appropriate standards. However, the increase in health-care costs due to aging is one of the most important changes for society in Japan. Medical care in Japan is a social insurance system, but the injection of public funds to the medical costs is very expensive already and will be more in the future, exerting big pressure on the finances of the country. The familiar with the system medical institutions should understand the role of medical fees and correctly balance between the National Health Insurance expenditure from general tax revenues (around 40% (Japanese)), and the increase in health-care costs due to aging. The familiar with the system medical institutions should recommend that government raise the value added tax from 5% to 8% and attempt to raise it to 10% from October 2015. That will help to improve the public expenditure from general tax revenues (around 40% of National Health Insurance expenditure) of the Japanese health-care system and will enhance social security, contributing to improving the existing low rate of self-reported in good health.

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Conflicts of Interest Disclosure

The authors declare that they have no conflicts of interest.

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