

Community Medicine for Older Adults and Wellness in Japan

日本における高齢者医療とウェルネス

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Elderly in Japan

- In 2017: Male 81.1y.o., Female 87.3y.o.
- The era of 'One supports one elderly' is coming.

In 2060, Japanese life expectancy

Male: 84.2

Female: 90.9

In 2060, people age higher than 65 y.o. in total population in Japan.

39.9%!

(From Ministry of Health, Labour and Welfare, Japan)

Guinness World

Record Male, oldest

Mr. Jiroh-emon Kimura 1897~2013, 116y.o.



貝原益軒が84歳に著した 「養生訓」

未病システム学会ホームページより

Longevity



Jeanne Louise Calment 1875~1997, 122y.o.



Kin-san, Gin-san (107y.o.) (108y.o.)

長寿の祝い歳

70歳:古希

77歳:喜寿

80歳:傘寿

88歳: 米寿

90歳:卒寿

99歳:白寿

108歳:茶寿

111歳:皇寿

120歳:大還暦



「Respect for the Aged Day」(15th Sep.) 発祥の地(兵庫県多可町(旧野間谷村))

→お年寄りの敬意を表すとともに、知識や人生経験を 伝授してもらう場を設定



より豊かな高齢期を、

より多くの方々が実感できるために。

慶應義塾大学では新館区・港区にお住まいの85歳以上の方、約500名を対象に 平成20年1月から訪問面接調査および健康調査を実施します。対象となる方には 調査のご案内を観光させていただきます。 ぜひ、ご協力下さい。

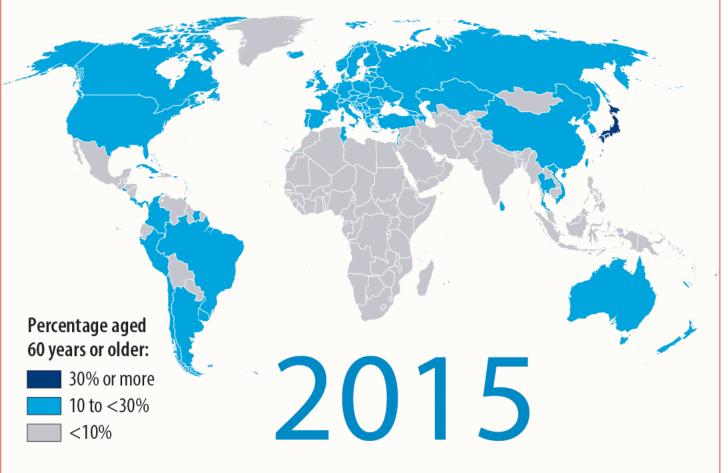
慶應義塾大学異分野連携研究

お問合せ先: 慶應義塾大学医学部 老年内科 担当 新井・高山 〒160-8582 東京都新宿区信濃町35 電話&FAX 03-5269-2468



Centenarian Research

Populations are getting older



World report on ageing and health. WHO 2015



Japan is a front runner of super-aged society

Percentage aged ≥ 60 years

2015 **Japan** (34%) 2020, 2025 some of European countries 2030 Korea, Cuba 2035 Thailand, Canada 2040 China, Taiwan most of European countries

Japan at 2050

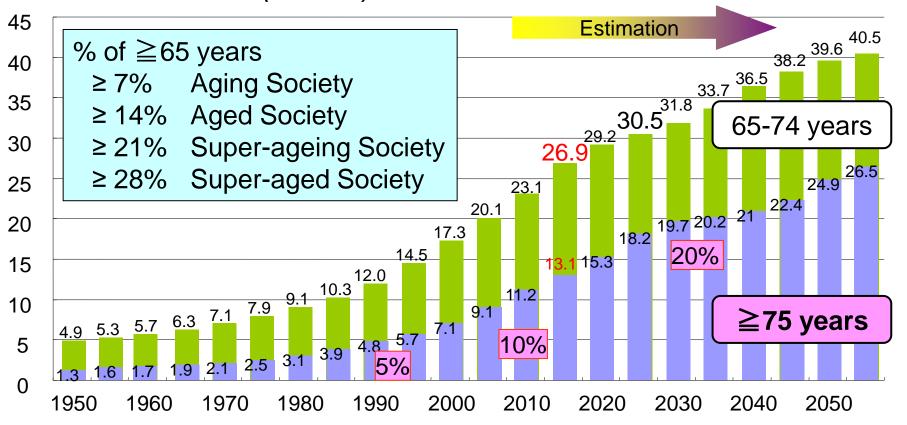
≥ 60 years: 45%, ≥ 75 years: 25%

Super-Aged Society in Japan

Rapid Increase of Elderly Population

Japan is faced with Japan's 2025 Burden

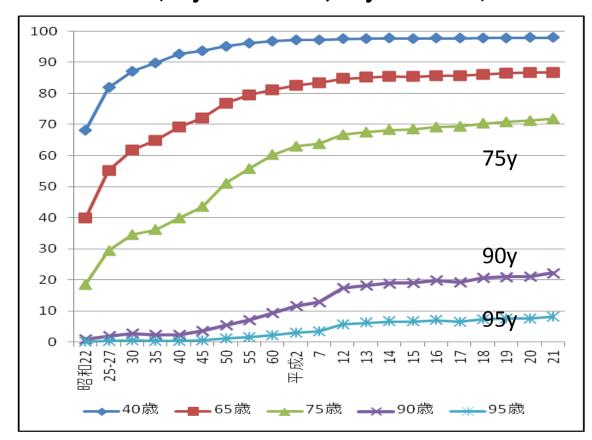
Baby boomer generation becomes over 75 years old at 2025. Estimated number of very elderly population (≥75 years old) is about 20 million (18.2%) at 2025.



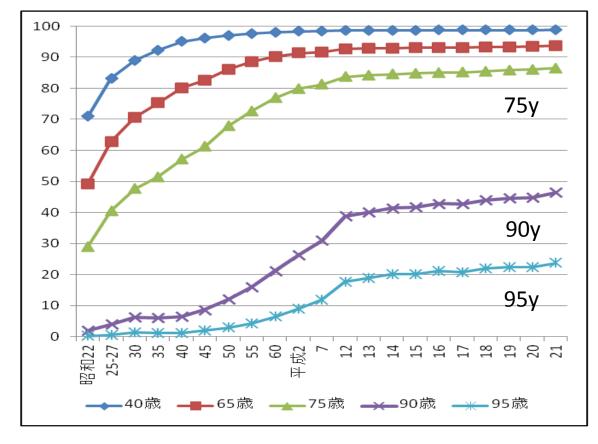
Oldest-old is most increasing in Japan

- One of Fifth of Men and half of Women was surviving at age 90 -

Male (90y.o. 22.2%, 95y.o. 8.2%)

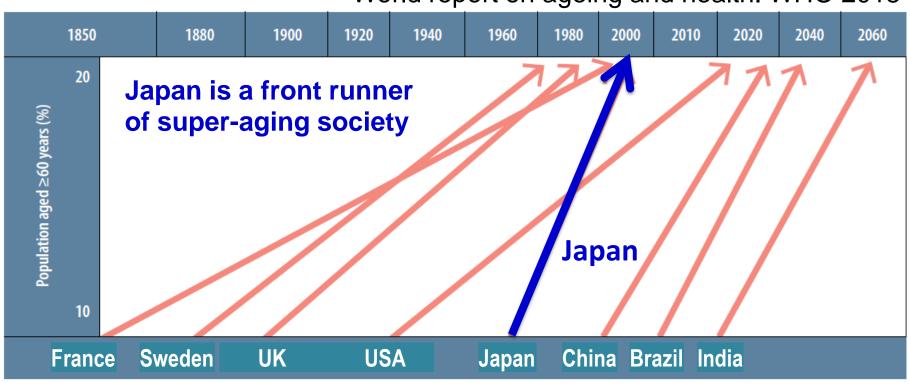


Female (90y.o. 46.4%, 95y.o. 23.7%)



Period required or expected for the percentage of the population aged 60 years and older to rise from 10% to 20%

World report on ageing and health. WHO 2015

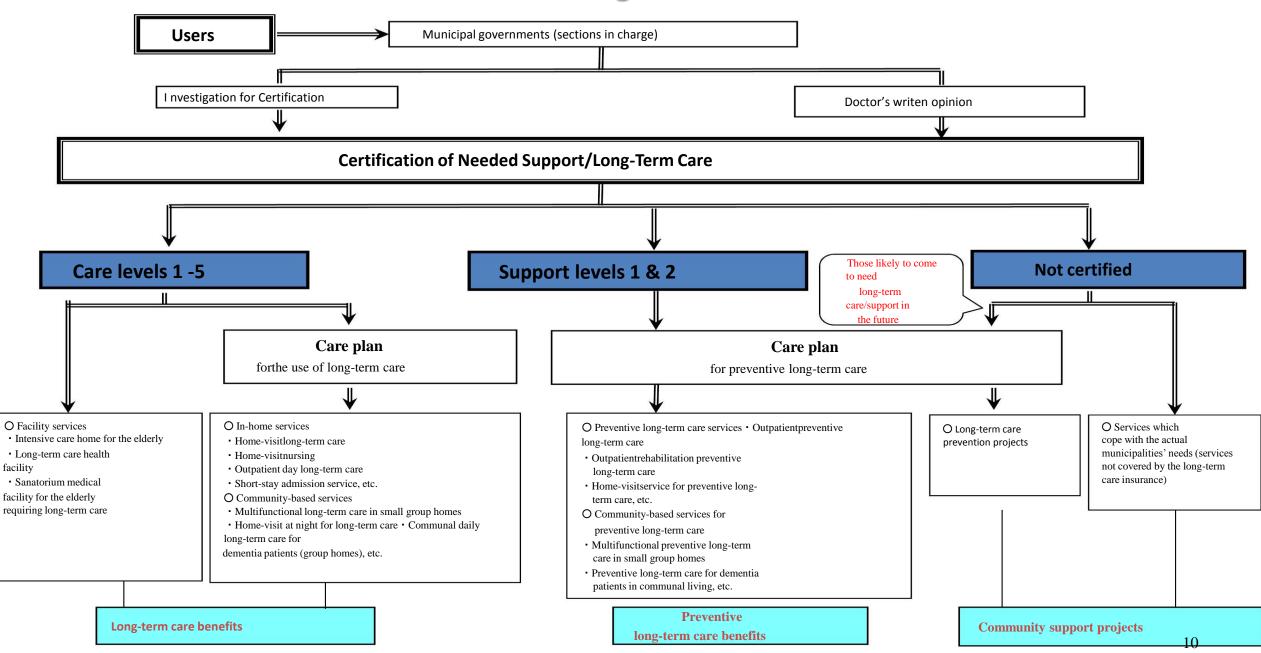


Y	Year at aging/aged society				Years required	
	7%	14%	20%	7% → 14%	14%→20%	
Japan	1970	1994	2006	24 years	12 years	
Thailand	2005	2025	2034?	20 years	9 years?	

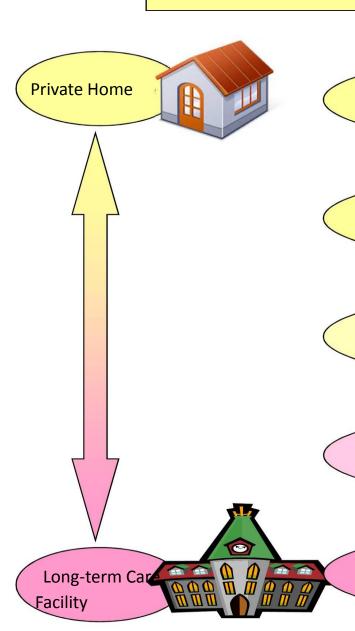
History of Japan's social insurance for elderly

Years	Rate of older persons		Main policy
1960's starting elderly welfare policy	5. 7% (1960)	1961 1963	Medical insurance for all of nations Elderly welfare law ◇Government approved nursing home ◇Home care giver (home helper) law
1970's increasing insurance cost for older peoples	7. 1% (1970)	1973	Free medical fee for old patients (<u>></u> 65 y.o.)
1980's problems in elderly care	9. 1% (1980)	1982 1989	Medical insurance for older person Partly payment of medical issue by themselves Gold plan for older persons
1990's gold plan	12.0% (1990)	1994	New gold plan ♦ To establish Home care plan Cure → Care
long term care (LTC)	1 4. 5% (1995)	1997	Long term care law
2000's starting LTC	17. 3% (2000)	2000	Starting LTC (Long term care insurance)
2010's	25.1% (2013.10)	2014	Integrated care systems for community dwelling peoples

Procedure for Use of Long-term Care Services



Varieties of Long-term Care Insurance Services

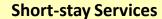


Home-visit Services

Home-visit Care, Home-visit Nursing, Home-Visit Bathing Long-Term Care, In-Home Long-Term Care Support, etc.



Outpatient Day Long-Term Care, Outpatient Rehabilitation, etc.



Short-Term Admission for Daily Life Long-Term Care, etc.

Residential Services

Daily Life Long-Term Care Admitted to a Specified Facility and Peoplewith Dementia etc.

In-facility Services

Facility Covered by PublicAid Providing Long-Term Care to the Elderly, Long-Term Care Health

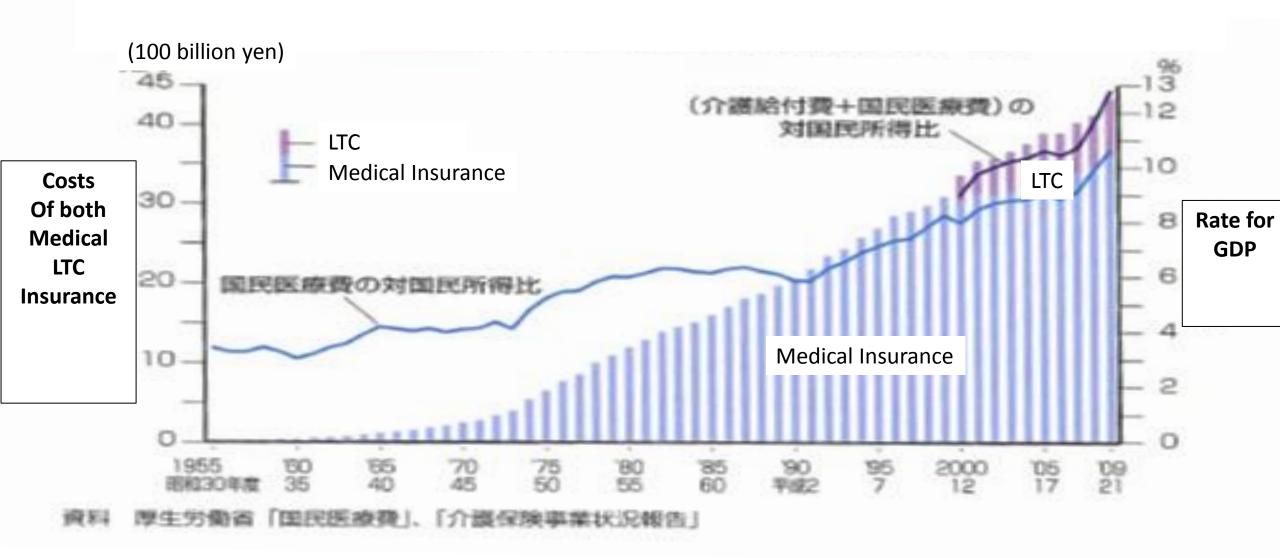
Facility, etc.



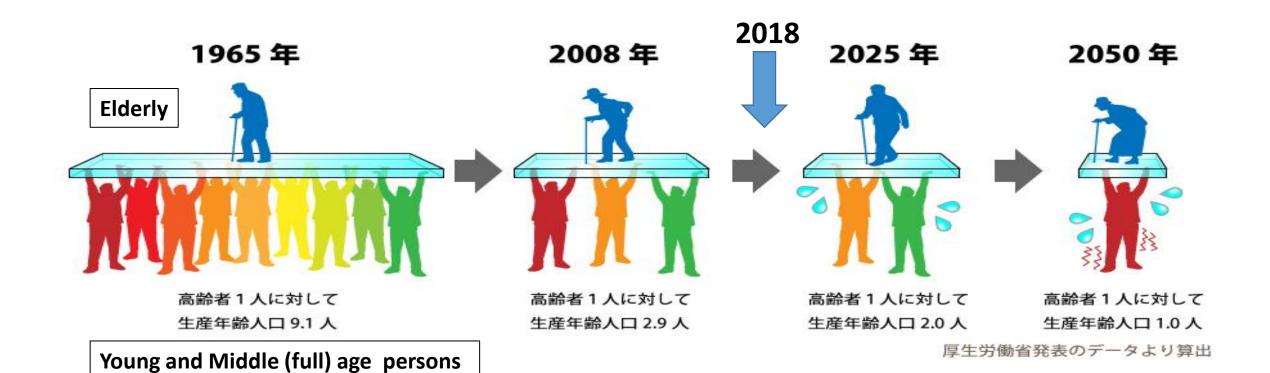




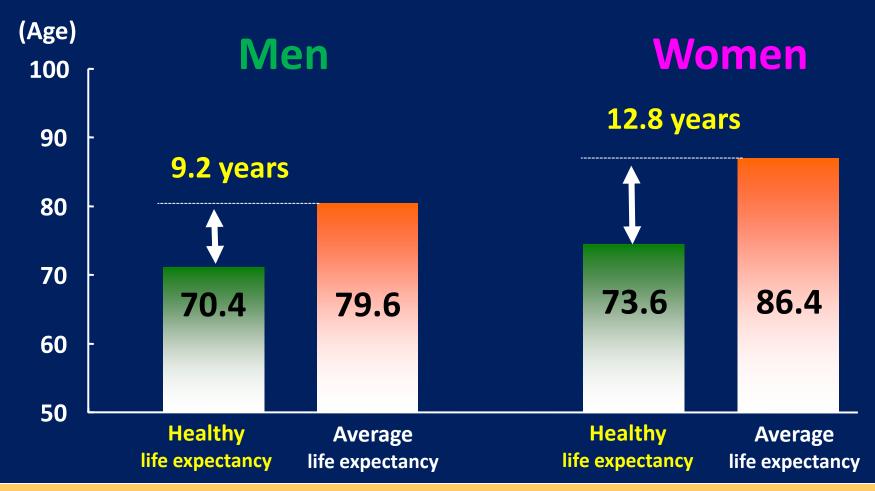
Increasing costs for medical and LTC insurance in Japan



2025's burden



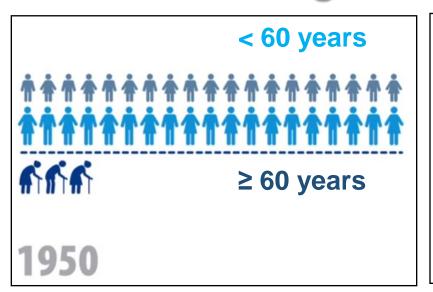
Healthy Life is important!

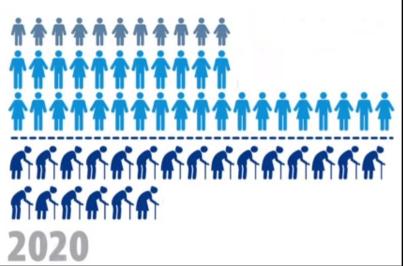


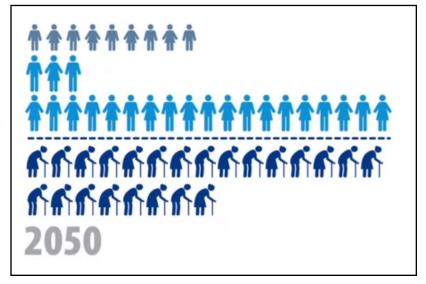
The extension of healthy life expectancy is desired → Clarify the factors that contribute to a healthy life expectancy

Average life expectancy (2010): "2010 Abridged Life Table" Ministry of Health, Labor and Welfare, Healthy life expectancy (2010): "Study on the Future Prospects of Healthy Life Expectancy and the Cost-Effectiveness of Measures against Lifestyle-related Diseases", Ministry of Health, Labor and Welfare – Health Labor Sciences Research Grant.

The declining birthrate and an aging population in Japan



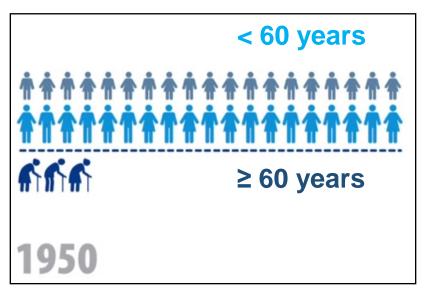


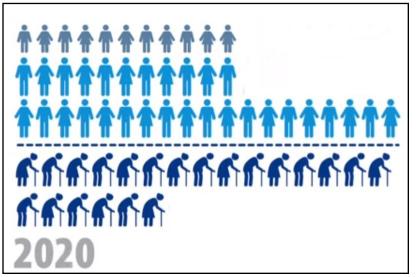


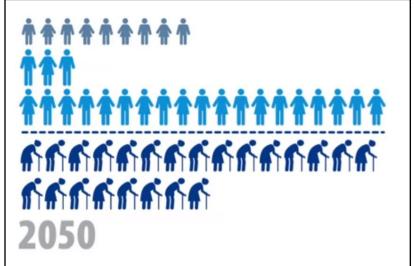
Rapid increase in the elderly population and continued low birthrate cause changes in demographic structure and shrinkage of the working population.

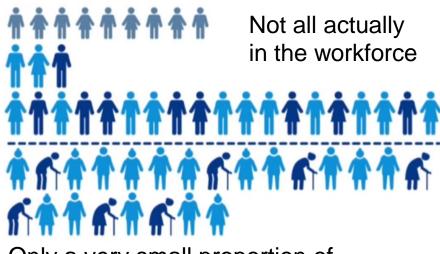
Who will support the elderly population economically, physically and socially in the future?

The life course is a continuing









Only a very small proportion of older people who actually require care and support

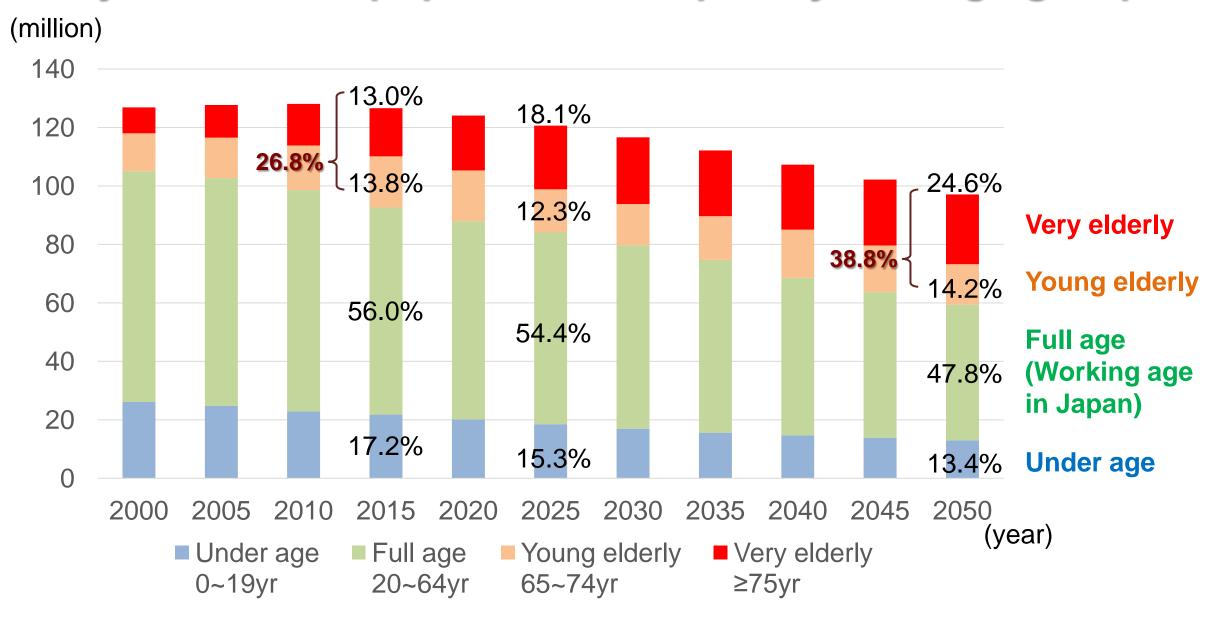
remove artificial difference



a continuum that where there are some people of all ages may be very robust and healthy and others who might require some care or support

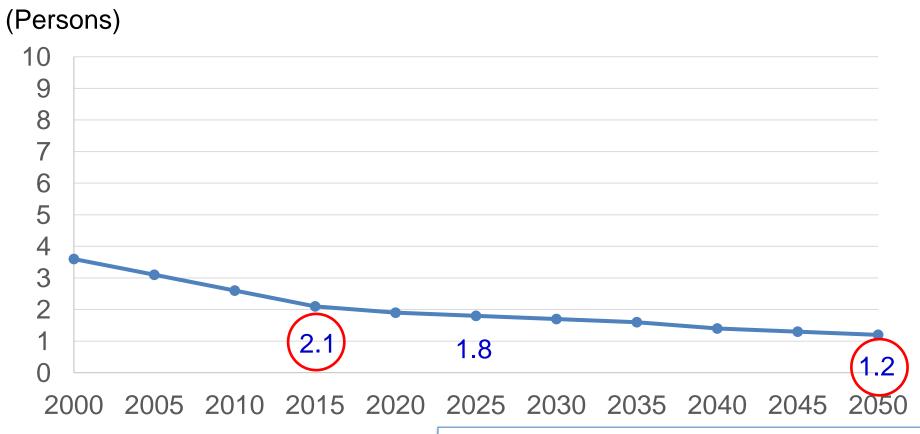
WHO: World Report on Ageing and Health - Presentation by Dr. John Beard - OCT 2015 https://www.youtube.com/watch?v=OlfcKV-BT08&feature=youtu.be

Projected future population in Japan by four age groups



Copyright, IPSS (National Institute of Population and Social Security Research)

How many full-age persons are required for support one elderly?



→Full age/Elderly

Data from National Institute of Population and Social Security Research)

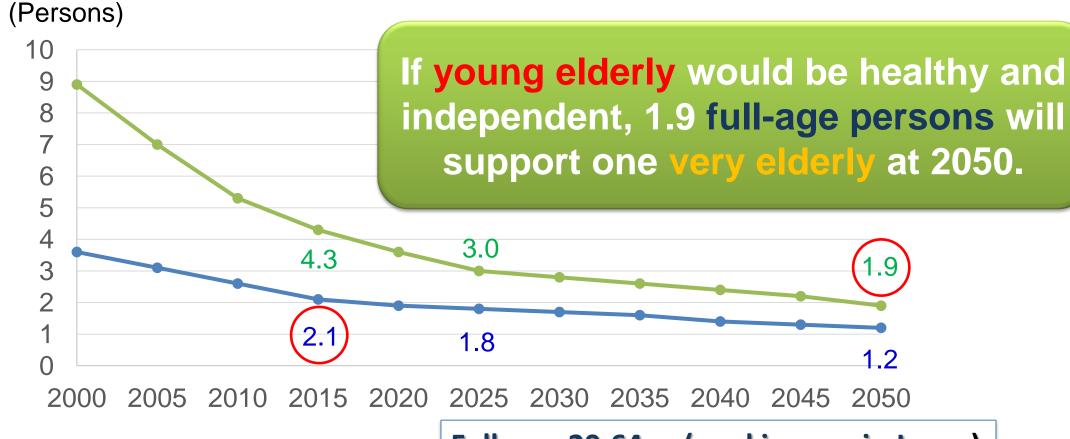
Full age: 20-64 yr (working age in Japan)

Elderly: ≥65 yr

Young elderly: 65-74 yr

Very elderly: ≥75 yr

How many full-age persons are required for support one elderly or one very elderly?



- →Full age/Elderly
- Full age/Very elderly

Data from National Institute of Population and Social Security Research)

Full age: 20-64 yr (working age in Japan)

Elderly: ≥65 yr

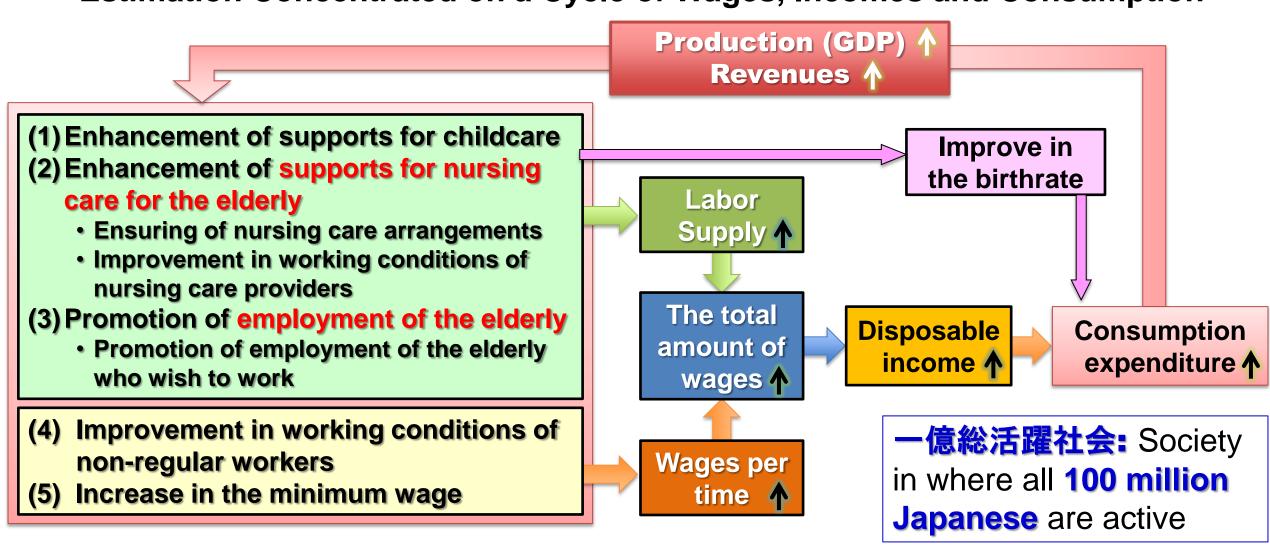
Young elderly: 65-74 yr

Very elderly: ≥75 yr

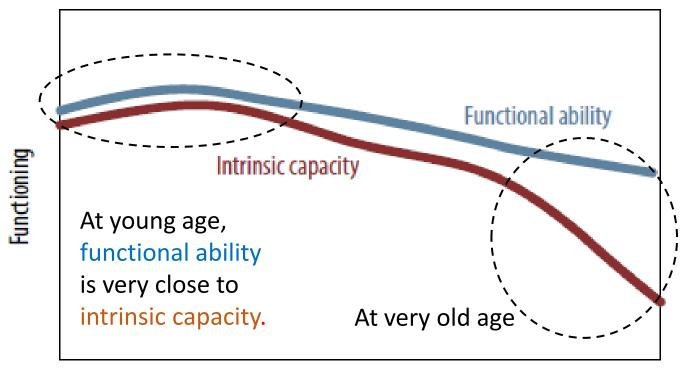
一億総活躍: The Japan's Plan for Dynamic Engagement of All Citizens

A Mechanism of a Virtuous Cycle of Growth and Distribution toward a Society in Which All Citizens are Dynamically Engaged

Estimation Concentrated on a Cycle of Wages, Incomes and Consumption –



Healthy Ageing: functional ability and intrinsic capacity



Biological ageing

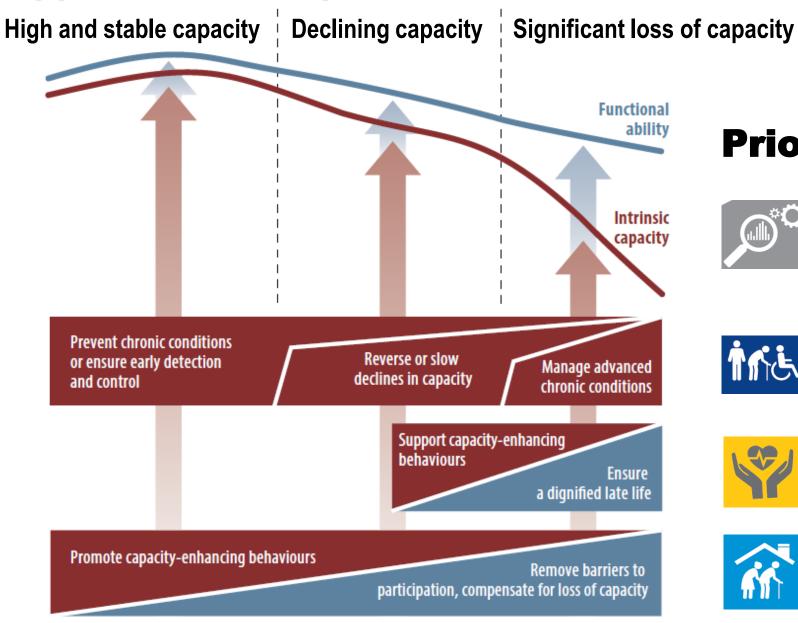
Functional ability, is defined as the health-related attributes that enable people to be and to do what they have reason to value.

Intrinsic capacity, which refers to the composite of all the physical and mental capacities that an individual can draw on at any point in time.

Healthy Ageing as the process of developing and maintaining the functional ability that enables wellbeing in older age.

WHO, The World report on ageing and health. 2015

A public-health framework for *Healthy Ageing*: opportunities for public-health action across the life course



Priority areas for action



Improving measurement, monitoring and understanding

WHO, The World report on

ageing and health. 2015



Aligning health-services to the older populations they now serve



Developing systems of long-term care





Investing in *Healthy Ageing* means creating a future that gives older people the freedom to live lives that previous generations could never have imagined.

WHO, The World report on ageing and health. 2015



"Healthy Aging" would be certainly important for the rapid aging society such as Japan.

Elderly health promotion by Japan's MHLW

Prolonging of Healthy life expectancy

http://www.mhlw.go.jp/stf/seisakunitsuite/

QOL of individual 1

Social environmental 1

OPrevention for disability

OSocial participation

OKeeping physical, mental, social function

OPrevention for geriatric syndrome such as dementia, depression, frailty, mulnutrition

C C

ONutrition

OPhysical function

OSocial participation

Making up good social capitals in every community

<Individual>

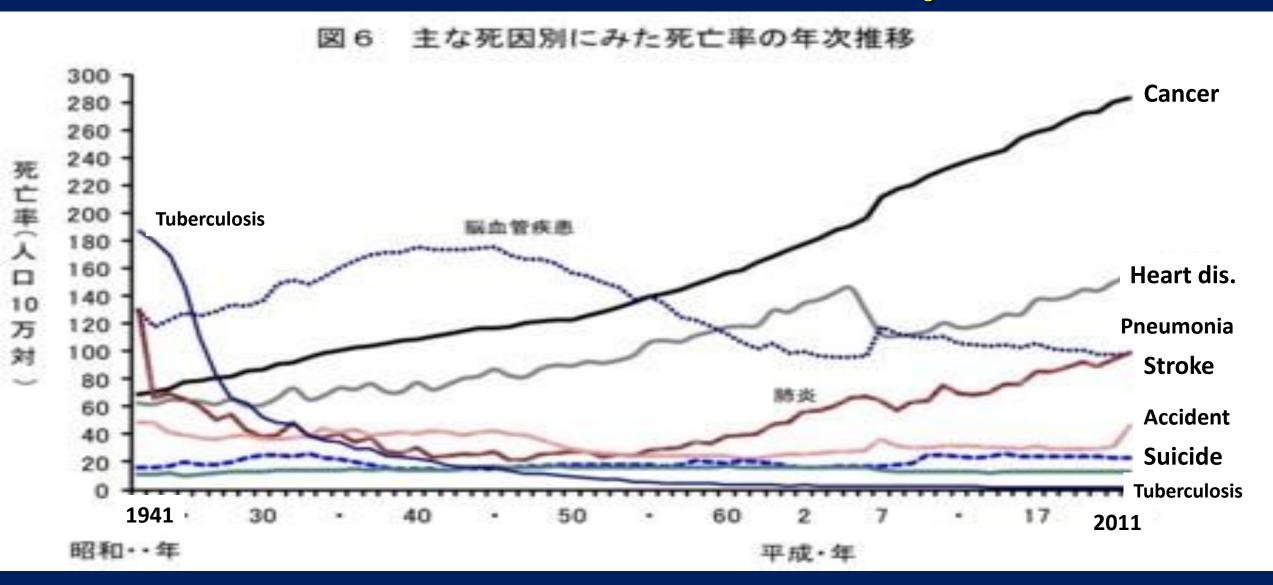
<Social environment>

3 Pillars for Healthy Longevity

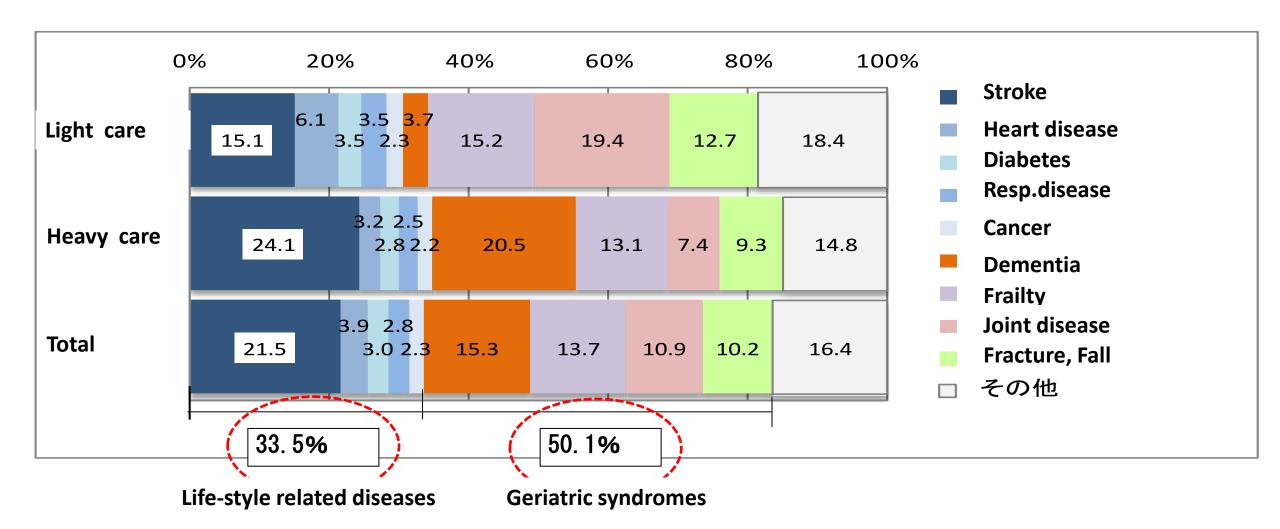


Management of Life style related diseases

Current cause of death in Japan

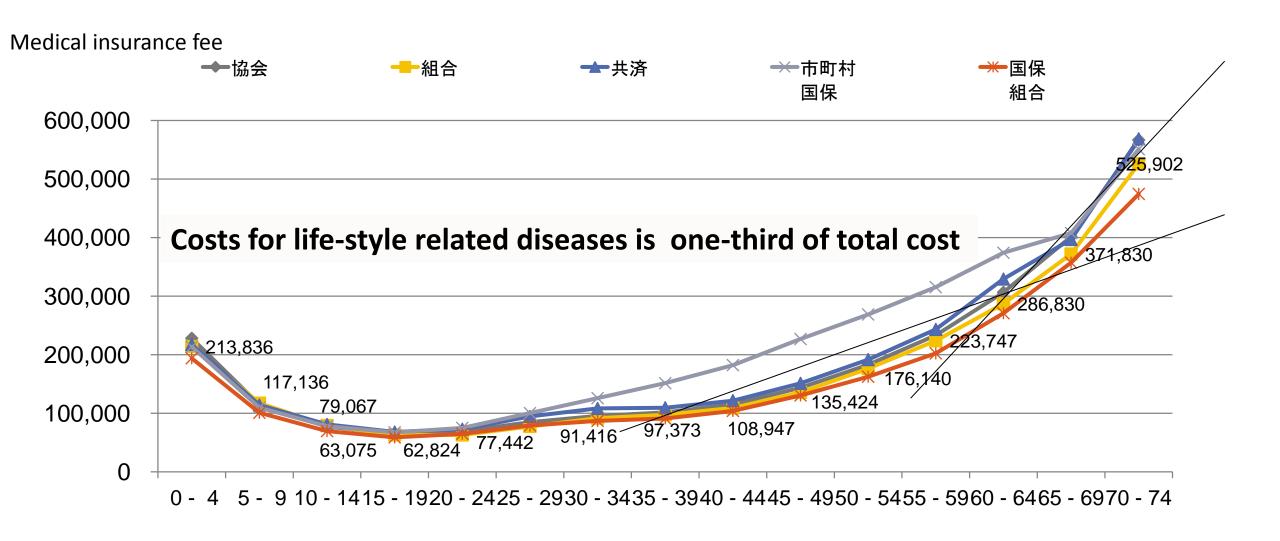


Causes of diseases and geriatric syndromes for long term care

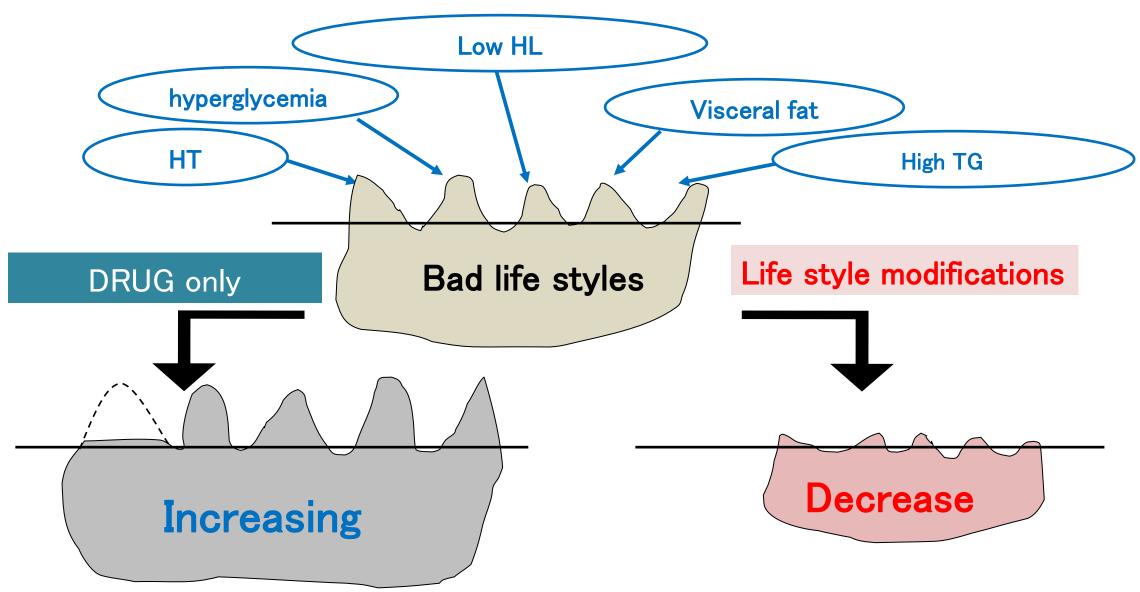


To prolong the healthy life expectancy, prevention and cure for cancer and CVD and Prevention and care for geriatric syndromes are important!

Medical insurance fee was start increasing age at 40 years!

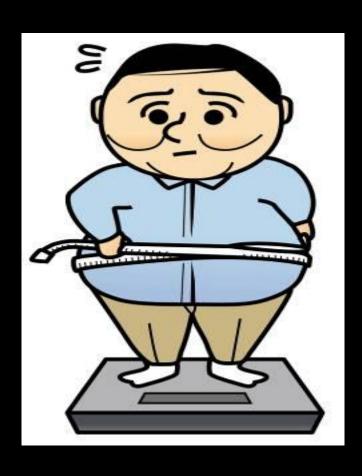


Life style modification is very important



標準的な健診・保健指導プログラム(改訂版)及び健康づくりのための身体活動基準2013に基づく保健事業の研修手法 と評価に関する研究(代表津下一代)資料より

Metabolic Syndrome Diagnosis Criteria



Abdominal obesity (waist circumference)

Men ≧ 85cm

Women ≧ 90cm

Two of the criteria below

Hypertriglyceridemia ≥ 150mg/dL and/or Hypo-HDL cholesterolemia <40mg/dL

> Systolic BP ≥ 130mmHg and/or Diastolic BP ≥ 85mmHg

Fasting Blood Glucose ≥ 110mg/dL

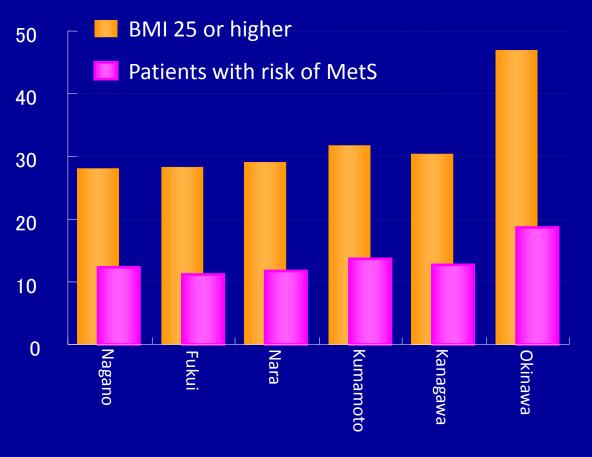
Significant reduction in average life expectancy of men in Okinawa due to "Okinawa Crisis" obesity and increased metabolic syndrome

26th Okinawa

Average life expectancy rankings by prefecture <Men>

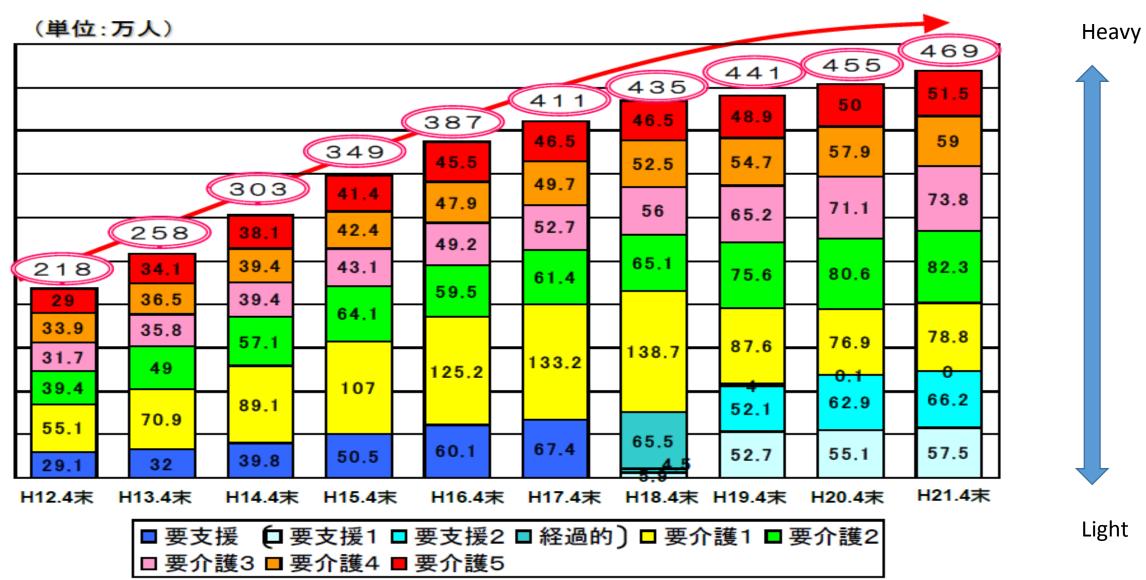


Risk of metabolic syndrome in patients attending preventive check-ups for lifestyle related diseases in FY2004 < Men >



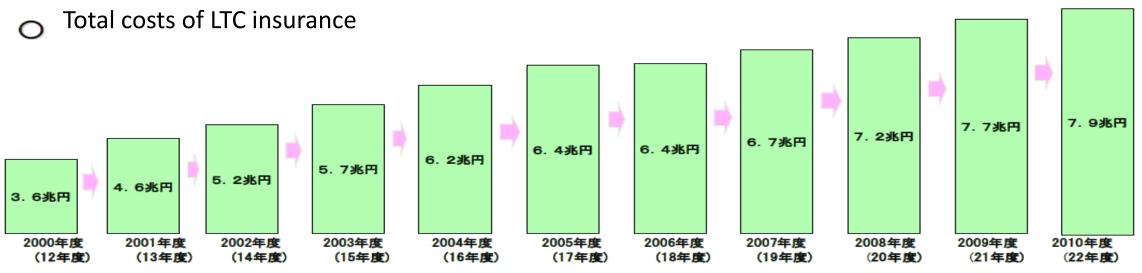
^{*}For women, Okinawa was ranked 1st from 1985 to 2000

Increasing numbers receiving LTCI



厚生労働省資料 http://www.mhlw.go.jp/shingi/2010/05/dl/s0531-13d_03.pdf

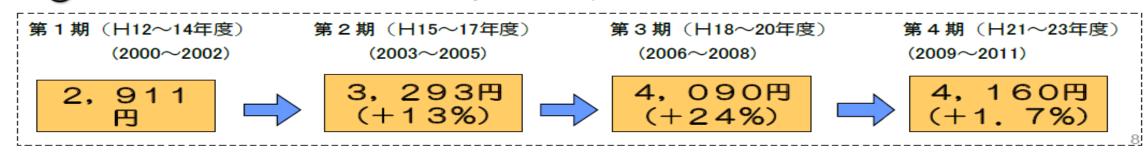
Increasing the cost for LTCI



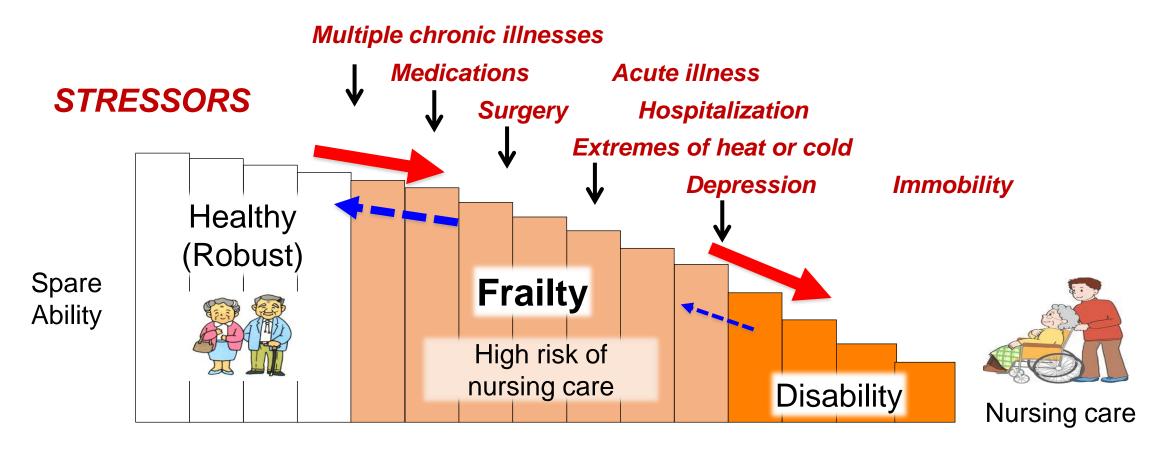
(注) 2000~2007年度は実績、2008年度は補正後予算、2009年度(介護報酬改定+3.0%),2010年度は当初予算。

※介護保険に係る事務コストや人件費などは含まない(地方交付税により措置されている)。

Fee/ a month for each residence age over 65 y.o.



Concept of frailty and the reason of focusing on frailty



Frail older adults are at high risk of adverse clinical outcomes: falls, fractures, hospitalization, worsened outcomes from chemotherapy or surgery, hemodialysis, disability and dependency, and mortality.

Geriatrics Evaluation & Management Tools, AMERICAN GERIATRICS SOCIETY

Criteria of Frailty

Fried LP, et al. *J Gerontol Med Sci.* 2001;56A:M146–M156.

Frailty is defined by ≥3 of 5 criteria below.

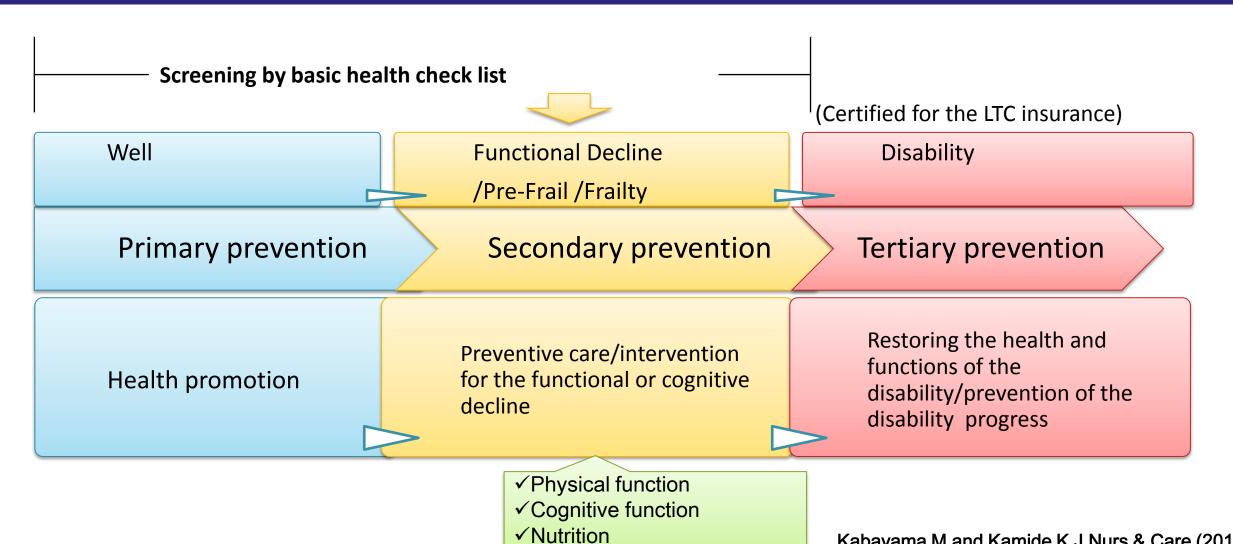
- 1. Unintentional Weight Loss
- 2. Feeling of Exhaustion
- 3. Low Physical Activity
- 4. Slowed Walking Speed
- 5. Muscle Weakness

(No evaluation about cognitive function)









Kabayama M and Kamide K J Nurs & Care (2014)





The basic health checklist (for ≥65 years)

(developed by the Japanese Ministry of Health, Labour and Welfare)

No.						
1	Do you go out by bus or train by yourself?					
2	Do you go shopping to buy daily necessities by yourself?					
3	Do you manage your own deposits and savings at the bank?					
4	Do you sometimes visit your friends?					
5	Do you turn to your family or friends for advice?					
No.	physical strength(No.6-10)					
6	Do you normally climb stairs without using handrail or wall for support?					
7	Do you normally stand up from a chair without any aids?					
8	Do you normally walk continuously for 15 minutes?					
9	Have you experienced a fall in the past year?					
10	Do you have a fear of falling while walking?					

No.	Nutritious status (No.11-12)									
11	Have you lost 2kg or more in the past 6 months?									
12	Height: cm Weight: kg BMI									
No.	Oral functions (No.13-15)									
13	Do you have any difficulties eating tough foods compared to 6 months ago?									
14	Have you choked on your tea or soup recently?									
15	Do you often experience having a dry mouth?									
No.	Houseboundness (No.16)									
16	Do you go out at least once a week?									
17	Do you go out less frequently compared to last year?									
No.	Cognitive function (No.18-20)									
18	Do your family or your friends point out your memory loss?									
19	Do you make a call by looking up phone numbers?									
20	Do you find yourself not knowing today's date?									

Factors contributing to Functional Decline among Community-Dwelling Older Adults



Mai Kabayama, Hiroshi Mikami, Kei Kamide

Arch Geriat Gerontol 2016





Objective

To clarify the factors associated with functional decline (frailty) among community-dwelling older people in an urban city in Japan.



Method

Design

A cross-sectional, population-based mail survey

Study period

2012.Aug-2013.Dec

Participants

People who meet the following criteria

- 1) Living in the survey city (registered to the H-city residential registration)
- 2) Nondisabled and nondemented older adults (*i.e*; not certified for the long term care insurance)
- 3) older than 65years

Survey area

Hirakata-City:

A mid-sized urban city in western Japan

Commuter-town

Population: 410,000

Proportion of older people (≥65 years): 23.2%

(2013)







Measurement

- ✓ Demographic information
 - -Age, Sex
 - -Present illness and illness type (yes/no)
- ✓ Sociodemographic information
 - -Family structure; living alone or not
 - -Duration of residence in the H-City
 - -Community participation (yes/no)
- ✓ Basic health checklist (called "Kihon Check List")
 - -screening index for functional decline or frailty of older people



Result Questionnaire returned ratio

- Mails sent out : n=56,608
- Responded mails: n=41,796 (73.8%)
- Valid answers : n=41,115

Result

SAKA UNIVERSITY
Live Locally, Grow Globally

Figure 1.

Proportion of the people with FD by age group

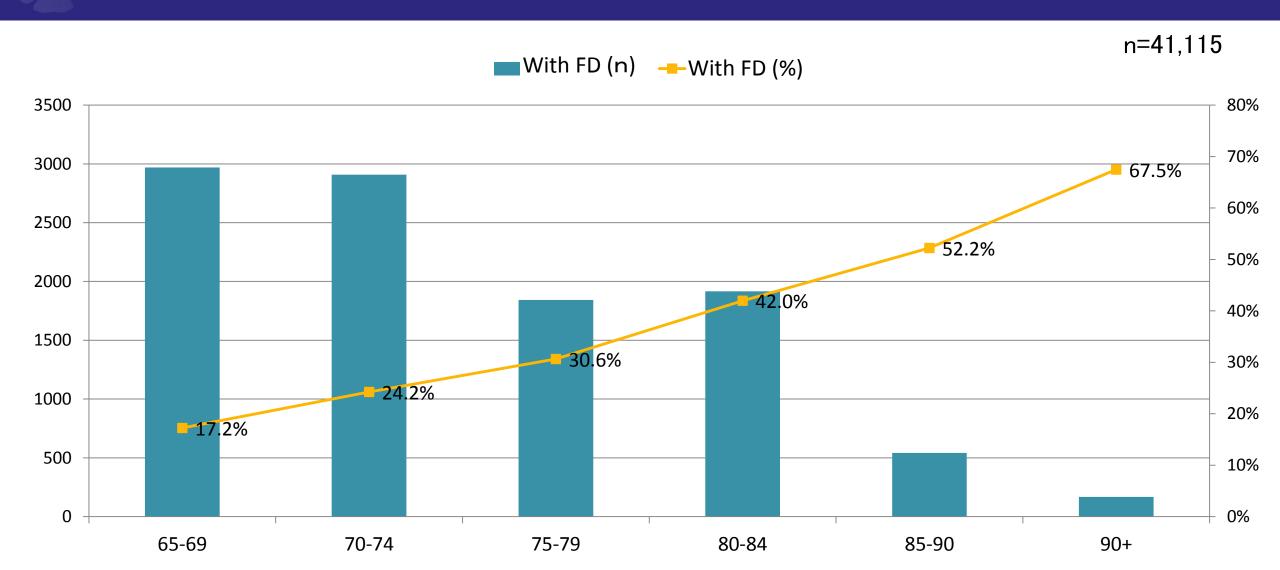
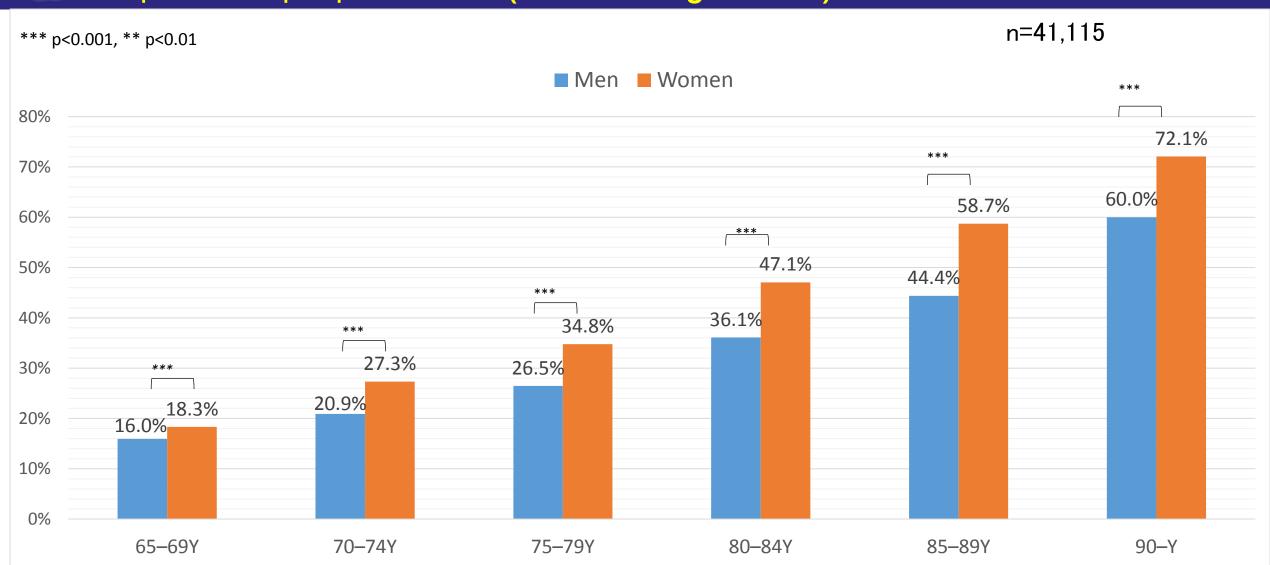






Figure 2.

Proportion of people with FD (based on age & sex)

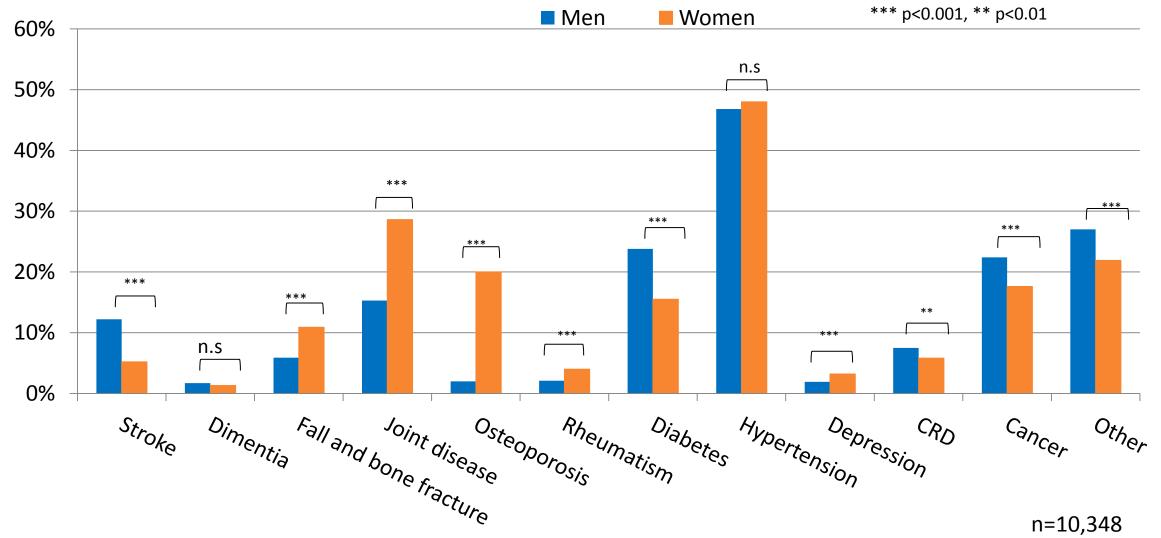






Result: People with FD (n=10,348)

Proportion of Participants with Present Illness (Men / Women)



Result

Table 3 The logistic regression coefficients predicting ED

	Tables. The logistic regression coefficients predicting FD						
FI	P. Eupstional Dealine	Dyalua					
	The FD was associated with sex, age, illness, and social factors.						
For effective preventive intervention, the strategy should be differentiated acc							
	to the participant's characteristics such as sex, present illness, and social fac						
٧							

Men

Men

Men

Men

Women

Women

Women

Women

Living alone

(not=0, yes=1)

(not=0, yes=1)

(not=0, yes=1)

Employment

Years of residence in the H- city

(<20 years = 0, >20 years = 1)

Community participation

1.35 (1.19-1.52)

1.07 (0.99-1.17)

0.88 (0.79-0.98)

0.87 (0.79-0.96)

0.53 (0.49-0.57)

0.56 (0.52-0.60)

0.66 (0.60-0.72)

0.77 (0.70-0.86)

<.001

.105

.021

.005

<.001

<.001

<.001

<.001

Long-term Longitudinal Epidemiological (SONIC) Study (Osaka University)

Prospective follow-up of each age group every three years

→ A cohort study of the elderly

Clarification of factors contributing to healthy life expectancy

Graduate School of Human Sciences
Clinical Thanatology and Geriatric
Behavioral Science
(Psychology Team)

Department of Geriatric Medicine

Medical aspects

- Physical measurements, muscle mass
- History of medical treatment
- BP, metabolism, degree of atherosclerosis, internal organ function, nutritional status
- Genetic factors

Study subjects
Persons in their 70s, 80s, 90s and over 100
years of age

Tokyo SONIC Study

- Tokyo Metropolitan Institute of Gerontology
- Keio University Department of Geriatric Medicine

Graduate School of Medicine
Health Sciences

Perspectives of medical professionals working in nursing and care, etc.

Graduate School of Dentistry
Stomatognathic function restoration
(Masticatory prosthetics team)

Psychological/living environment aspects

- Family structure
- Nursing care status
- Comprehensive functional assessment
- Cognitive function, depression score
- Educational history, personality



Dental/oral hygiene aspects

- •Status of teeth (No. of teeth, decay, repair status, occlusal status, etc.)
- Periodontal disease (periodontal pocket measurement, periodontal disease pathogens)
- Stomatognathic function, saliva secretion function
- Assessment of nutritional intake status

Methods

Participants

- •We analyzed subjects who participated in the survey called SONIC study, for both baseline and follow up study 3 years later.
- ■Community-dwelling older people in age 70±1 years, 80±1 and 90±1 were randomly recruited from general population through the local residential registries from four areas in Japan.



Septi

<u>Septuagenarians, Octogenarians, Nonagenarians Investigation with Centenarians Study</u>

Longitudinal study to clarify the factors of healthy longevity



■ Narrow range age design;

70±1 years, 80±1 and 90±1

- Follow-up the each cohort **every 3 years**
- Four areas: East *vs* West; Rural *vs* City









Research design

Year Age G	2010	11	12	13	14	15	16	17	18	19	20	
Age range	1	2	3	4	5	6	7	8	9	10	11	12
70 (69-71)	W1:70 N=1000 /4267			W2:73 FOLOW=63 NEW=230			W3:76			W4:79 W1:70		
80 (79-81)		W1:80 N=973 /5378			W2:83			W3:86 W1:80			W4:89 W2:83	
90 (89-91)			W1:90 N=272 MAIL=196 /3387	3		W2:93 W1:90			W3:96 W2:93 W1:90			W4:99 W3:96 W2:93 W1:90
100 100+		W1	W1	W1	W1	W1	W1	W1	W1	W1	W1	W1

Introduce findings from 1st wave data

Participants in 2011 survey

Area		Age	Education (year)	Participants (man)	%	Total recruited (man)
Urban						
	Itami	70.0	12.5	250(124)	25	1000(471)
	Itabashi	70.3	12.4	239(94)	22	1075(510)
Country						
	Asago	70.2	11.7	241(114)	21	1155(547)
	Nishitama	70.0	11.7	268(145)	25	1077(543)
Total				1000(477)	23	4267(2071)

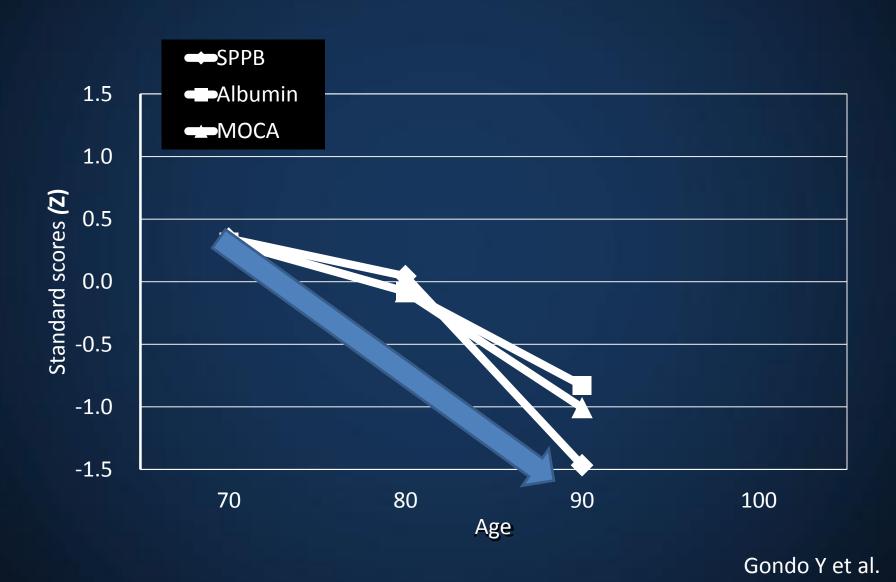
Findings from 1 wave data Only psycho –social domain data

- Describe age related change
 - Functional variables
 - SPPB(Short Physical Performance Battery)
 - Serum albumin level
 - MOCA(Montreal Cognitive Assessment)
 - Psychological well-being variables
 - Emotional well-being, life satisfaction, WHO-5
- Identify longevity factors
 - Influence of education and occupational experience on cognitive function ← surrogate marker for longevity

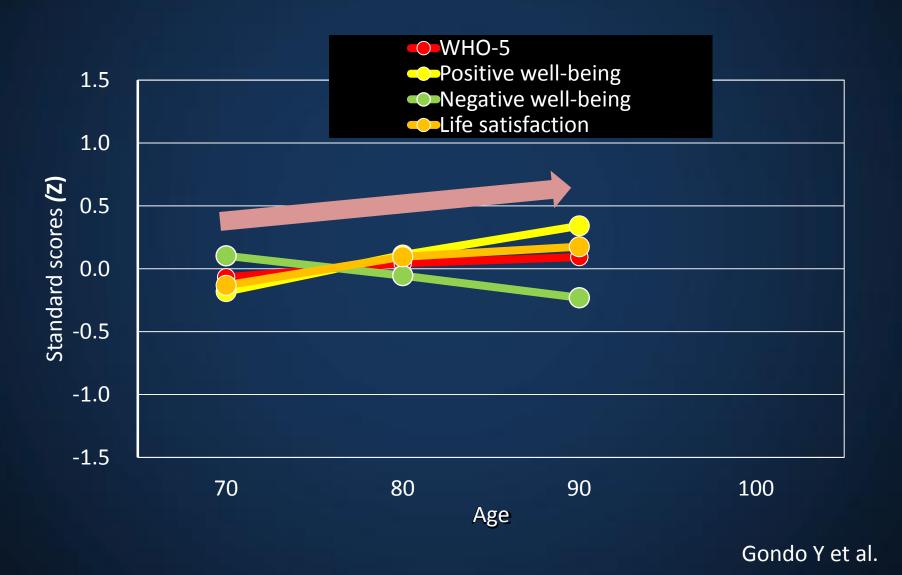
Variables used

- Functional measures
 - SPPB(Short Physical Performance Battery)
 - Serum albumin level
 - MOCA(Montreal Cognitive Assessment)
- Psychological well-being measures
 - Emotional well-being, life satisfaction, WHO-5

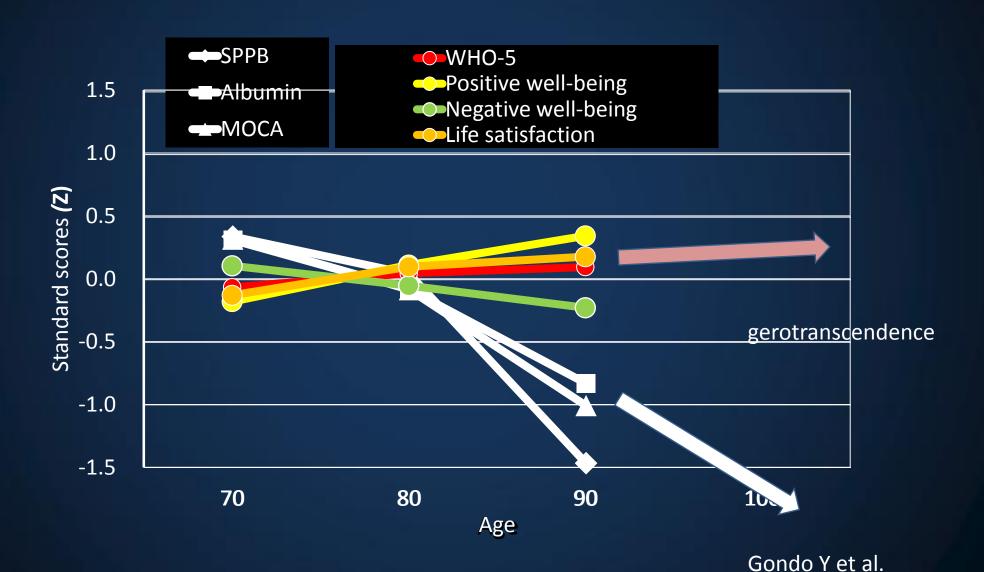
Age related difference in functional variables



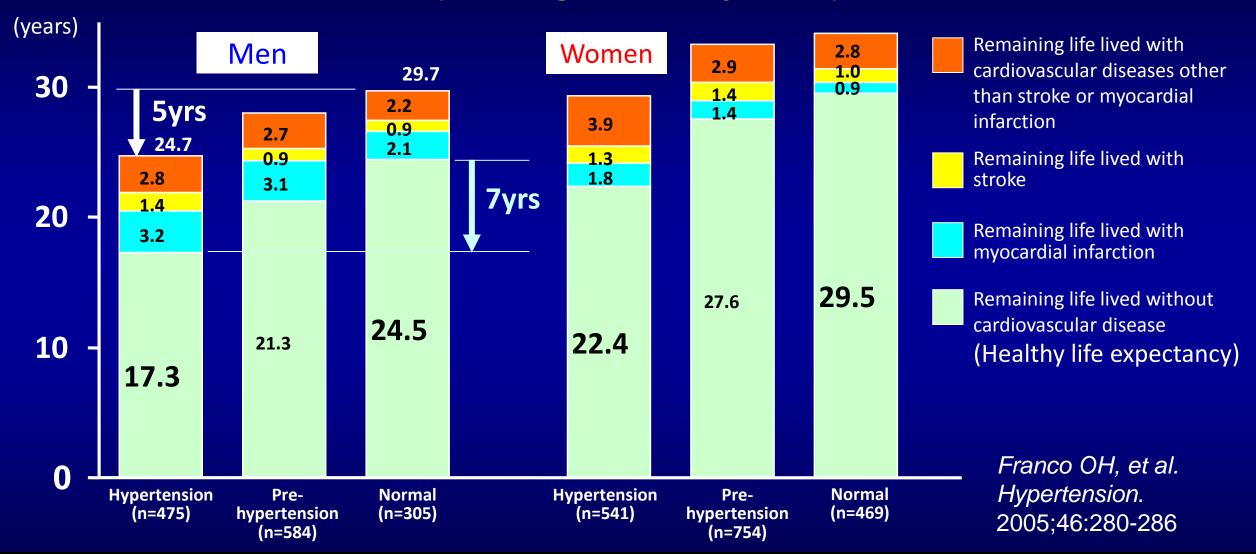
Age related difference in psychological well-being variables



Age related difference in variables



Status of BP during 50s and subsequent Life Prognosis (Framingham Study, 2005)

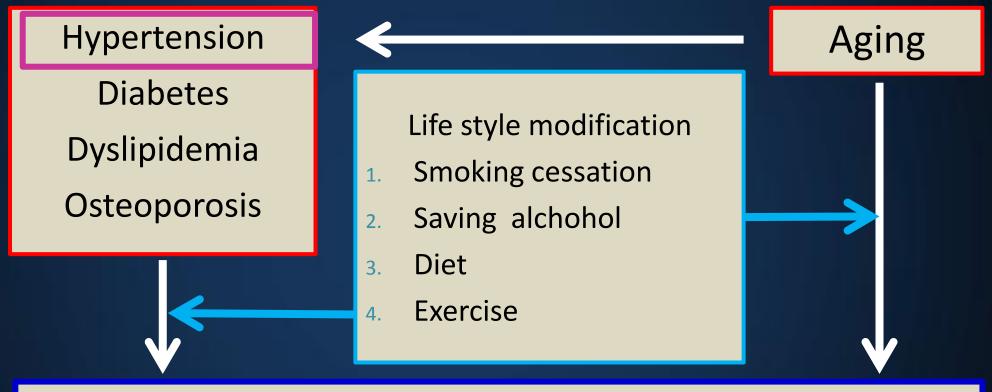


Number of years a person aged 50 can expect to live in health without onset of cerebro-cardiovascular disease (healthy life expectancy).

With hypertension, life expectancy is five years shorter, ill-health life expectancy is about two years longer and healthy life expectancy is about seven years shorter for both men and women.

Lifestyle-related Disease and Aging, and Conditions that Impede Vital Functions

Life style related diseases



Aging related diseases

- Arteriosclerotic disease,
 stroke, myocardial infarction
- Heart failure

- ◆ Bone fracture
- ◆Sarcopenia
- Dementia



SBP is influenced on cognitive function (MOCA-J) at age 70!

	70 years N=1000				80 years N=973					
		BP uncc	BP uncontrolled		BP controlled		BP unco	ontrolled	BP controlled	
		Model 1	Model 2	Model 1	Model 2		Model 1	Model 2	Model 1	Model 2
SBP	-0.08*	-0.10 §	-0.10*	-0.05	-0.04	-0.03	-0.05	-0.05	0.04	0.06
Diabetes mellitus	-0.05	0.00	-0.02	-0.11*	-0.10*	-0.04	-0.04	-0.04	-0.04	-0.04
Dyslipidemia	0.04	0.01	0.01	0.07	0.08	0.03	0.02	0.03	0.04	-0.07
ВМІ	-0.08*	-0.14†	-0.14†	-0.02	-0.03	0.01	0.01	0.01	-0.01	0.00
Smoking	-0.07*	-0.07	-0.06	-0.06	-0.05	-0.02	0.01	0.01	-0.08	-0.09
Alcohol excessive intake	0.01	0.02	0.02	-0.01	-0.01	0.01	0.05	0.05	-0.04	-0.05
Serum albumin	-0.05	-0.06	-	-0.04	-	0.09*	0.05	-	0.15†	-
Frequency of going outdoors	0.17‡	0.17†	0.17†	0.17†	0.16†	0.10†	0.14†	0.14†	0.03	0.03
Sex	0.09*	0.12*	0.12*	0.05	0.04	-0.02	0.01	0.01	-0.07	-0.06

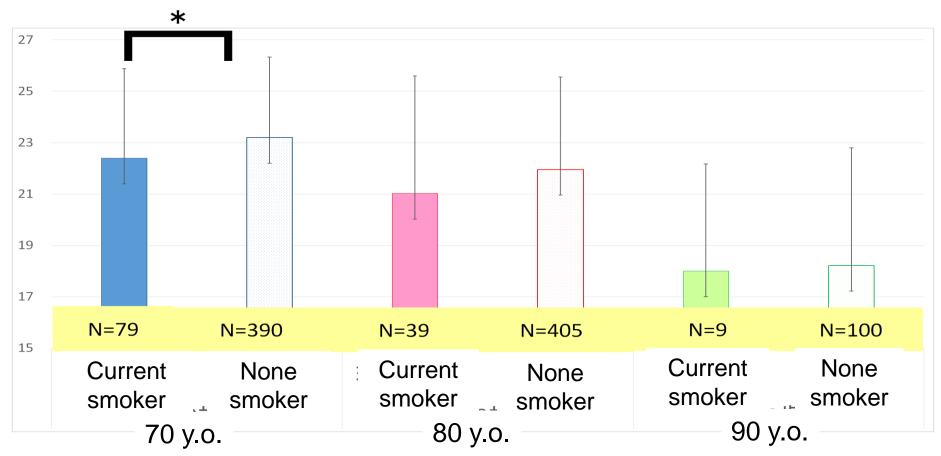
Ryuno H, Kamide K, et al. Hypertens Res 2016

Control of hypertension could prevent future dementia!



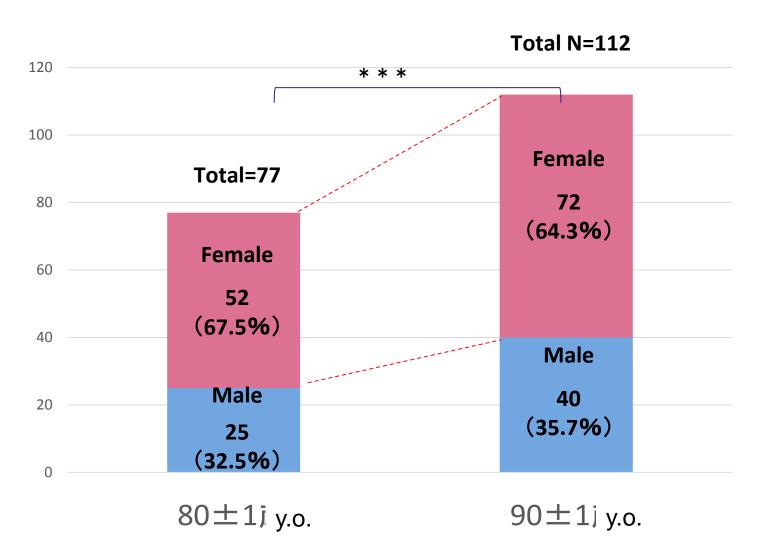
Smoking influences on cognitive decline







Approved LTC in community-dwelling population





Approved LTC in community-dwelling population 80 y.o.

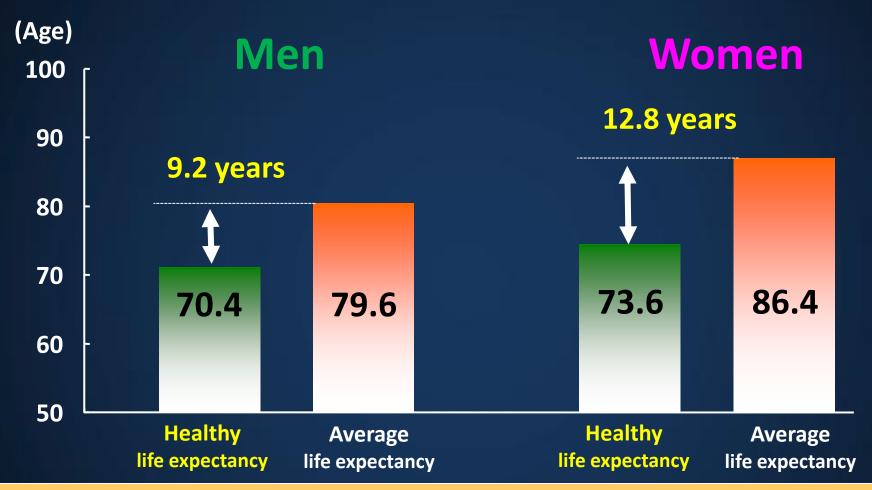
Male	O.R.	95%C.I.	Р
Stroke (n=42)	6.15	2.19 ~ 17.24	< 0.01
Heart disease (n=96)	3.75	1.47 ~ 9.56	< 0.01
HT (n=252)	1.16	0.45~3.02	0.76
DM (n=58)	0.32	0.04~2.70	0.29
HL(n=134)	1.06	0.39~2.88	0.92
Joint disease (n=115)	1.01	0.36~2.84	0.98
Cancer (n=85)	1.92	0.68~5.45	0.22
Mets (n=138)	0.61	0.18~2.11	0.43



Approved LTC in community-dwelling population 80 y.o.

Female	O.R.	95%C.I.	р
Stroke(n=25)	5.97	2.03 ~ 16.42	< 0.01
Heart disease (n=85)	1.89	0.97~4.08	0.08
HT (n=277)	1.34	0.67~2.45	0.38
DM (n=49)	1.67	0.63~4.12	0.28
HL (n=207)	0.62	0.31~1.20	0.16
Joint disease (n=196)	2.90	1.57 ~ 5.62	< 0.01
Cancer(n=59)	1.73	0.76~4.39	0.22
Mets (n=126)	2.15	1.15 ~ 4.37	0.02

Healthy Life Expectancy of the Japanese



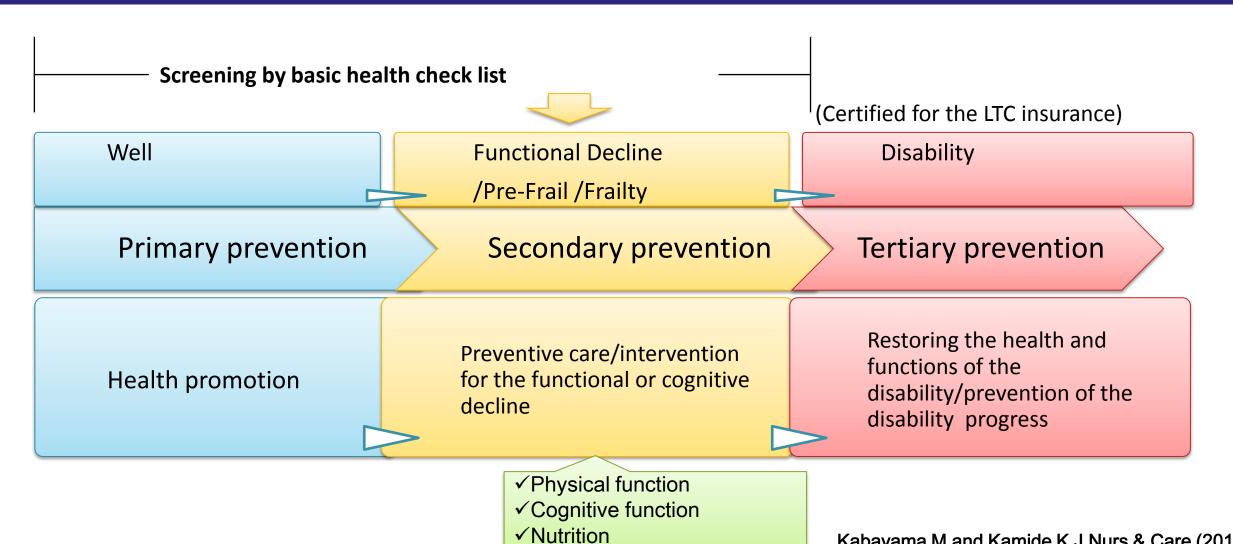
The extension of healthy life expectancy is desired → Clarify the factors that contribute to a healthy life expectancy

Average life expectancy (2010): "2010 Abridged Life Table" Ministry of Health, Labor and Welfare, Healthy life expectancy (2010): "Study on the Future Prospects of Healthy Life Expectancy and the Cost-Effectiveness of Measures against Lifestyle-related Diseases", Ministry of Health, Labor and Welfare – Health Labor Sciences Research Grant.



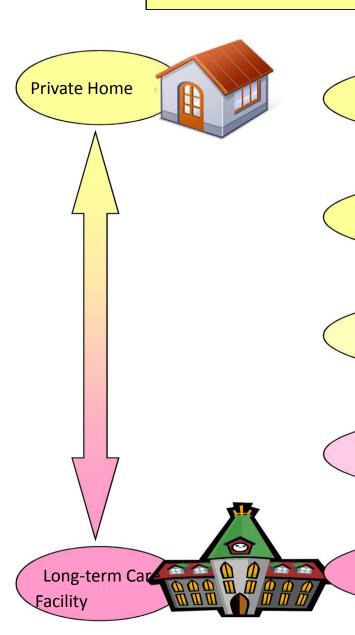






Kabayama M and Kamide K J Nurs & Care (2014)

Varieties of Long-term Care Insurance Services

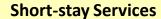


Home-visit Services

Home-visit Care, Home-visit Nursing, Home-Visit Bathing Long-Term Care, In-Home Long-Term Care Support, etc.



Outpatient Day Long-Term Care, Outpatient Rehabilitation, etc.



Short-Term Admission for Daily Life Long-Term Care, etc.

Residential Services

Daily Life Long-Term Care Admitted to a Specified Facility and Peoplewith Dementia etc.

In-facility Services

Facility Covered by PublicAid Providing Long-Term Care to the Elderly, Long-Term Care Health

Facility, etc.





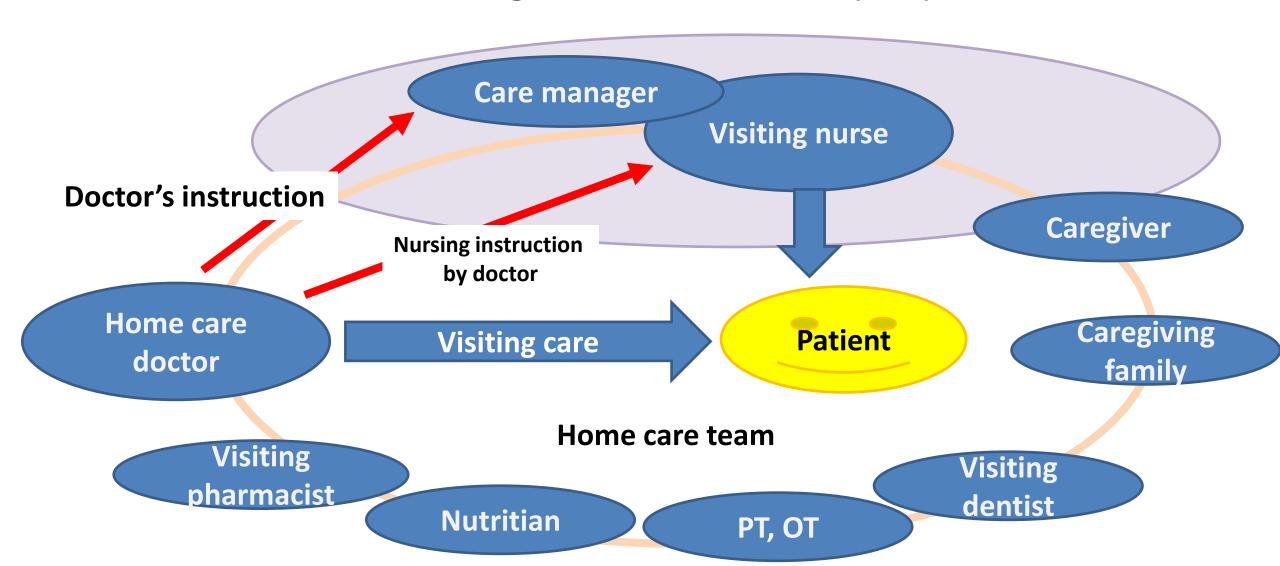


Aims of home care by medical stuffs

- Support patient's daily life
- Care for chronic diseases
- Maintain residual functions
- Mental care
- Secondary prevention for diseases and geriatric conditions
 - CVD, dehydration, fever, pneumonia, skin ulcer, malnutrition, bone fracture, and so on.
- Emergency treatments for acute diseases
- Connections to various services
- Enlightenment information to patients and caregiving family
- Caregiving family's health conditions
- Maintaining team collaborations for patients
- End of life care

Home care team

Under Long term care insurance (LTCI)



OHCARE study

[Osaka Home Care Resistry study]



Subjects

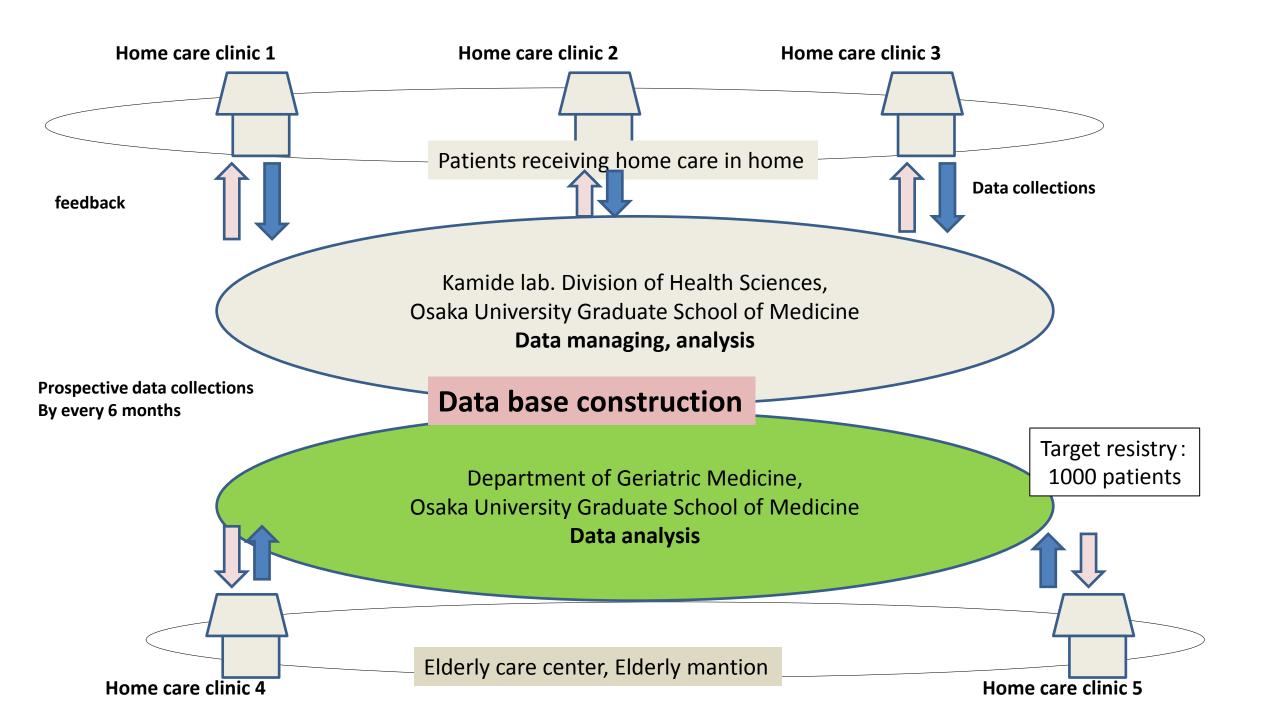
 Patients having home care by corporative home care clinics who get informed consents

Study periods

• Started on Jan. 2015 Follow-up data collections every 6 months

Coroporative clinics

8 clinic in Osaka area



OHCARE data base

≫3 domains

Gender, Age
Level of LTCI, ADL, IADL
Causal diseases, geriatric conditions
History

Cognitive functions, life style related diseases Blood pressure, boby temp., Labo. data

Housing types
Caregiving family information
Using services
Hospital care informations

Decision for End of life
Falling
Acute care etc.

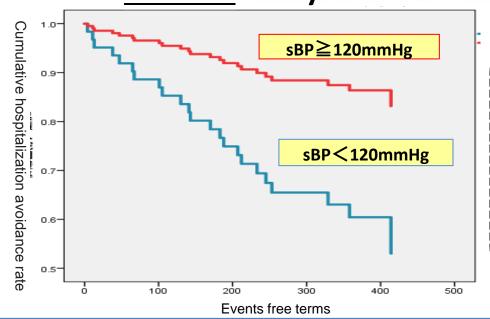
Research oriented information

Research targets in OHCARE study

Clarify factors associated with continuing home care

- 1) Fall, misaspitrion, dementia/cognitive decline, dehydration, malnutrition
- 2) Accelerating level of LTCI
- 3) Discontinuing home care
- 4) Good end of life care
- → These information will be useful to establish better home care systems and the community-based integrated care system

Results Analysis of Cox hazards regression models with hopitalization



HT patients

Even if the effects of sex and ADL was removed, the effect of "<sBP120mmHg" remains.

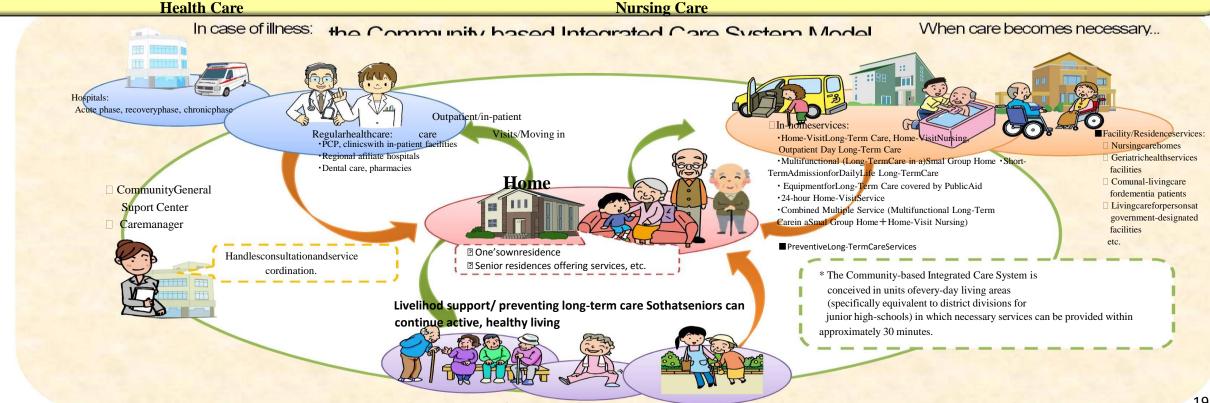
→ "sBP <120mmHg" can be a marker predicting the general condition leading to hospitalization.

Koujiya E, et al.

HT (N=106)	Non-adjusted HR(95%CI)	P	Adjusted HR(95%CI)	Р
sBP(sBP<120mmHg)	3.03(1.24-7.41)	0.02	3.44(1.38-8.60)	<0.01
Sex (Men)	1.26(0.52-3.03)	0.61	1.65(0.64-4.23)	0.30
Care need levels	1.11(0.86-1.44)	0.42	0.99(0.75-1.32)	0.97
Heart Failure	1.34(0.60-3.01)	0.48	1.31(0.52-3.32)	0.56
Bone and Joint disease	2.11(0.87-5.01)	0.10	2.89(1.20-6.96)	0.02
Respiratory disease	1.62(0.70-3.72)	0.26	1.43(0.52-3.98)	0.49
Bed Sores	1.04(0.36-3.00)	0.95	0.50(0.13-1.93)	0.31
Alb	0.61(0.26-1.45)	0.27	0.50(0.24-1.06)	0.07

Establishing 'the Community-based Integrated Care System'

- OBy 2025 when the baby boomers will become age 75 and above, a structure called 'the Community-based Integrated Care System' will be established that comprehensively ensures the provision of health care, nursing care, prevention, housing, and livelihood support. By this, the elderly could live the rest of their lives in their own ways in environments familiar to them, even if they become heavily in need for long-term care.
- OAs the number of elderly people with dementia is estimated to increase, establishment of the Community-based Integrated Care System is important to support community life of the elderly with dementia.
- OThe progression status varies place to place; large cities with stable total population and rapidly growing population of over 75, and towns and villages with decrease oftotal population but gradual increase of population over 75.
- OIt is necessary for municipalities as insurers of the Long-term Care Insurance System as well as prefectures to establish the Community-based Integrated Care System based on regional autonomy and independence. Incaseofillnes: the Community-based Integrated Care System Model Whencarebecomesnecesary...



Elderly health promotion by Japan's MHLW

Prolonging of Healthy life expectancy

http://www.mhlw.go.jp/stf/seisakunitsuite/

QOL of individual 1

Social environmental 1

OPrevention for disability

OSocial participation

OKeeping physical, mental, social function

OPrevention for geriatric syndrome such as dementia, depression, frailty, mulnutrition

C C

ONutrition

OPhysical function

OSocial participation

Making up good social capitals in every community

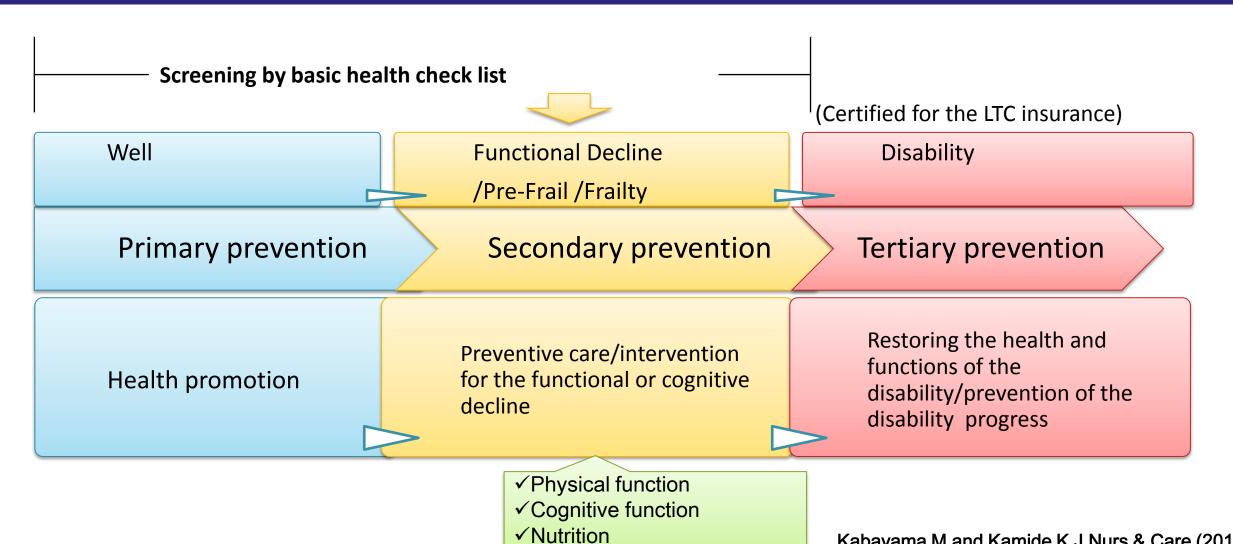
<Individual>

<Social environment>









Kabayama M and Kamide K J Nurs & Care (2014)

3 Pillars for Healthy Longevity



Management of Life style related diseases

Conclusion

Essential issues for Community Medicine for Older Adults and Wellness in Japan

- Preventive medicine for achieving healthy longevity
- Think aging process like geriatric syndromes
- Preventive care is important as well as disease prevention
- Care for not only for physical or medical conditions, but also mental or subjective well-being
- Research for clarifying factors associated with LTCI certification or geriatric syndromes would be essential
- Establishment of home medical care based on scientific evidences

