

KOREA HYPERTENSION FACT SHEET 2022

The Korean Society of Hypertension



Methods

Korea National Health and Nutrition Examination Survey

Subjects	Adults aged 20 years or older / 1998 to 2020	
Definition of Hypertension	① Systolic blood pressure (SBP) \geq 140 mmHg, or ② Diastolic blood pressure (DBP) \geq 90 mmHg, or ③ Taking antihypertensive medication	
Hypertension Management	Awareness rate	Proportion of people with physician diagnosis of hypertension among those with hypertension
	Treatment rate	Proportion of people taking antihypertensive medication for \geq 20 days/month among those with hypertension
	Control rate (among prevalent)	Proportion of people with SBP $<$ 140 mmHg and DBP $<$ 90 mmHg among those with hypertension
	Control rate (among treated)	Proportion of people with SBP $<$ 140 mmHg and DBP $<$ 90 mmHg among those taking antihypertensive medication

Korea National Health Insurance Big Data

Subjects	Adults aged 20 years or older / 2002 to 2020	
Healthcare Utilization	Diagnosis	\geq 1 health insurance claim for hypertension diagnosis (ICD-10: I10) each year
	Treatment	\geq 1 health insurance claim for hypertension diagnosis and antihypertensive prescription each year
	Adherence	Antihypertensive prescription \geq 290 days (80%) each year
Antihypertensive Treatment	Regimen	The combination of antihypertensive classes in a prescription; if the regimen is switched, one with the longest duration is selected for a given year
	Antihypertensive class	Diuretics (DU; thiazide and related diuretics, loop diuretics), Beta-blockers (BB), Calcium channel blockers (CCB), Angiotensin converting enzyme inhibitors (ACEi), Angiotensin receptor blockers (ARB), Potassium-sparing diuretics (PSD), Others (ETC; alpha-blockers, vasodilators, etc.)

Contents



Trends of Average Blood Pressure and Hypertension Prevalence

- 8 Trends of Average Blood Pressure
- 9 Trends of Average Blood Pressure by Age
- 10 Trends of Hypertension Prevalence
- 12 Trends of Hypertension Prevalence by Sex and Age
- 13 Trends of Number of People with Hypertension

Trends of Hypertension Management

- 16 Trends of Awareness Rate by Sex and Age
- 17 Trends of Treatment Rate by Sex and Age
- 18 Trends of Control Rate by Sex and Age

Healthcare Utilization for Hypertension

- 22 Trends of Healthcare Utilization for Hypertension
- 23 Trends of Co-Treatment for Dyslipidemia and Diabetes
- 24 Trends of Antihypertensive Medication Use
- 26 Composition of Antihypertensive Treatment
- 28 Antihypertensive Medication Use by Sex and Age

Hypertension in the Elderly

- 31 Trends of Number of People with Hypertension by Management Status
- 32 Trends of Awareness Rate in the Elderly
- 33 Trends of Treatment Rate in the Elderly
- 34 Trends of Adherence Rate in the Elderly
- 35 Trends of Combination Therapy Rate in the Elderly
- 36 Trends of Average Blood Pressure in the Elderly

Summary of Hypertension Statistics (Age 20+)

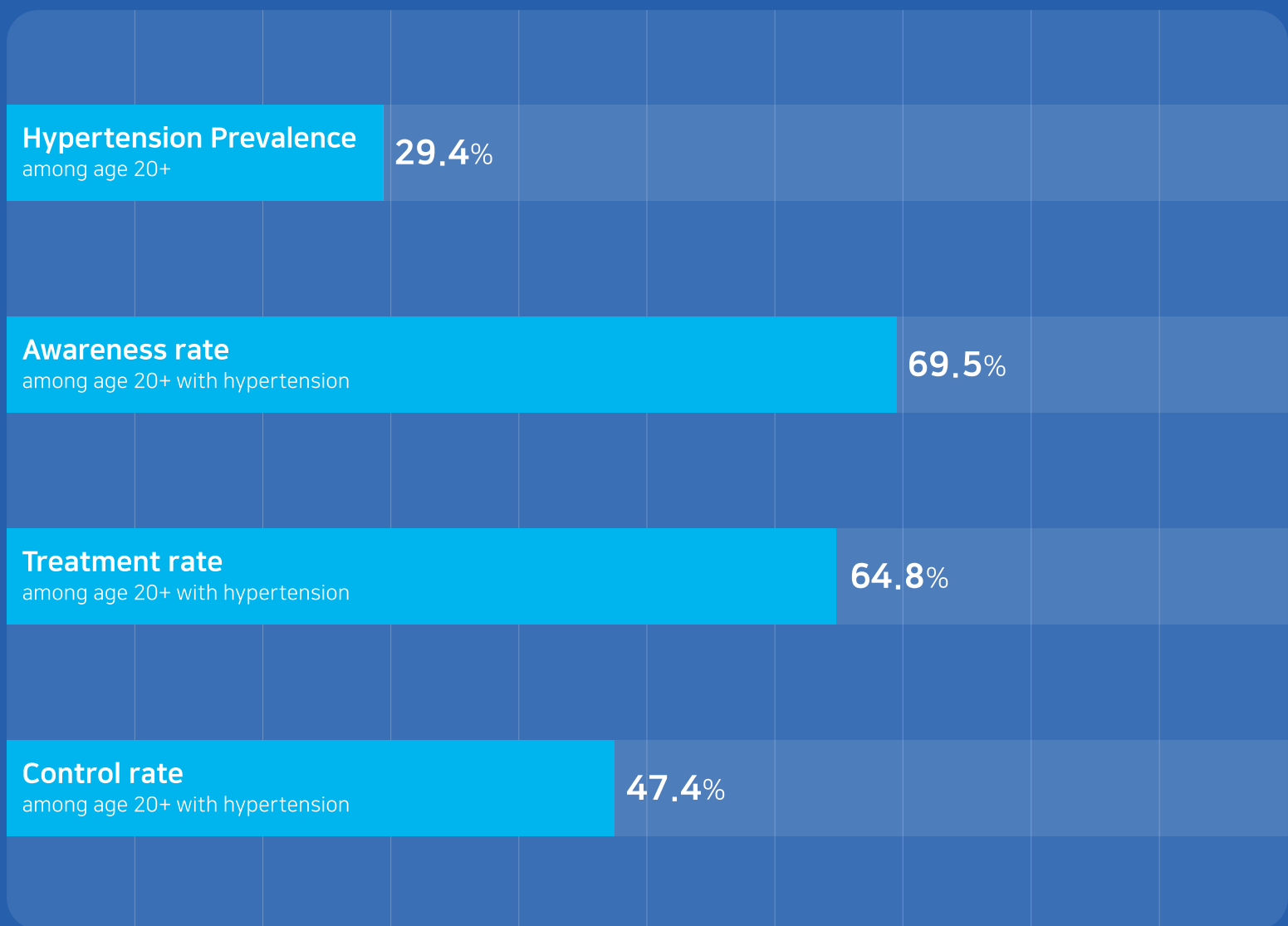
12.6 million
have hypertension

10.5 million
are diagnosed

9.9 million
are treated

7.4 million
are adherent
to treatment

Data Source: Korea National Health and Nutrition Examination Survey 2020, Korea National Health Insurance Big Data 2020



Data Source: Korea National Health and Nutrition Examination Survey 2020

KOREA HYPERTENSION FACT SHEET 2022

Trends of Average Blood Pressure and Hypertension Prevalence

Trends of Average Blood Pressure

Trends of Average Blood Pressure by Age

Trends of Hypertension Prevalence

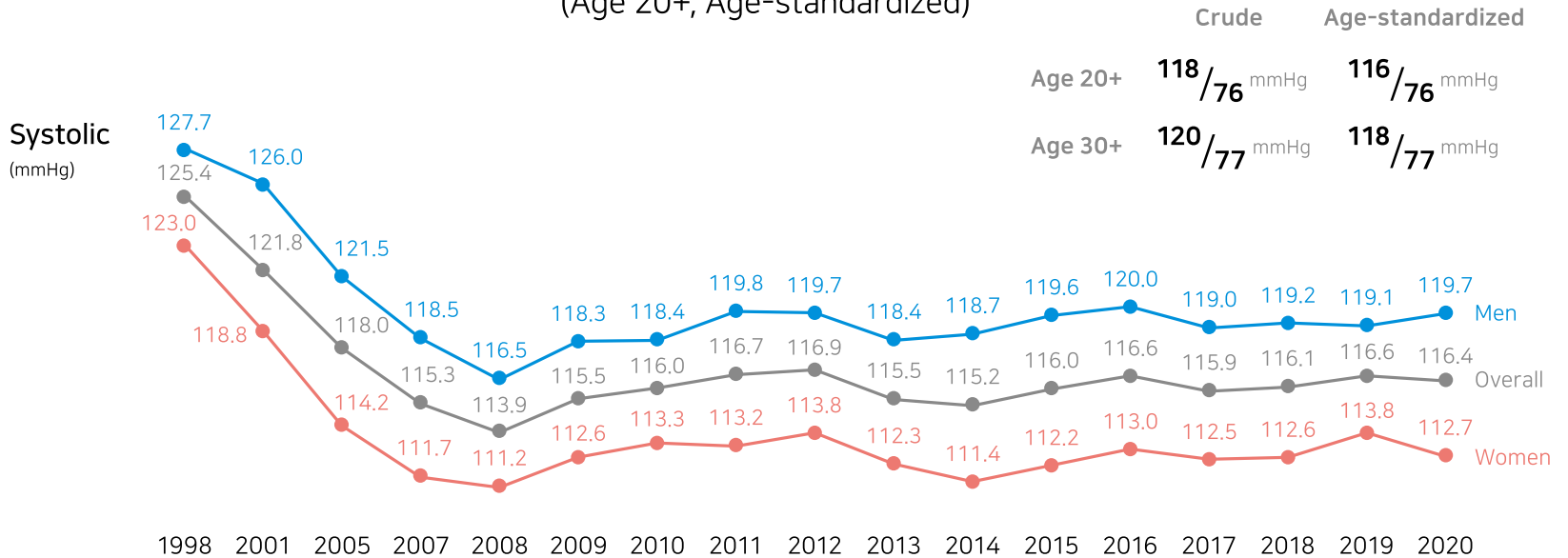
Trends of Hypertension Prevalence by Sex and Age

Trends of Number of People with Hypertension

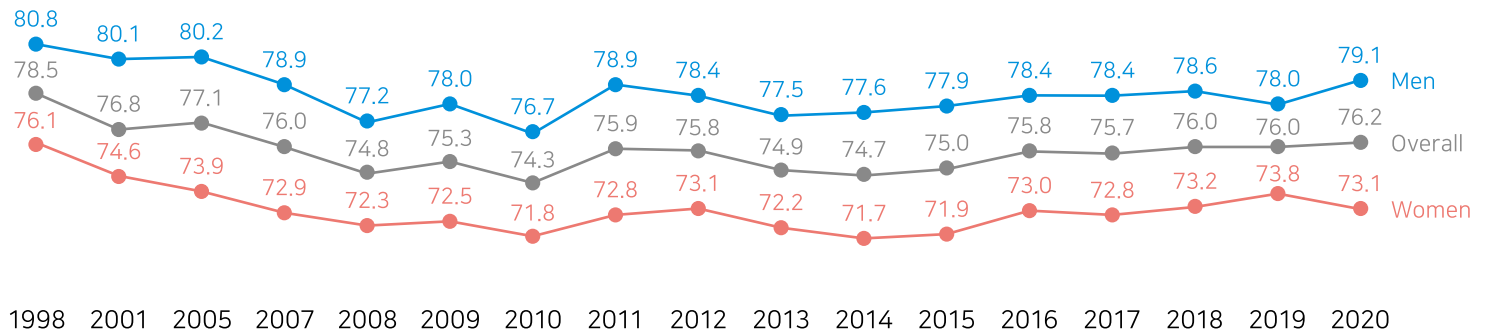


Trends of Average Blood Pressure

(Age 20+, Age-standardized)

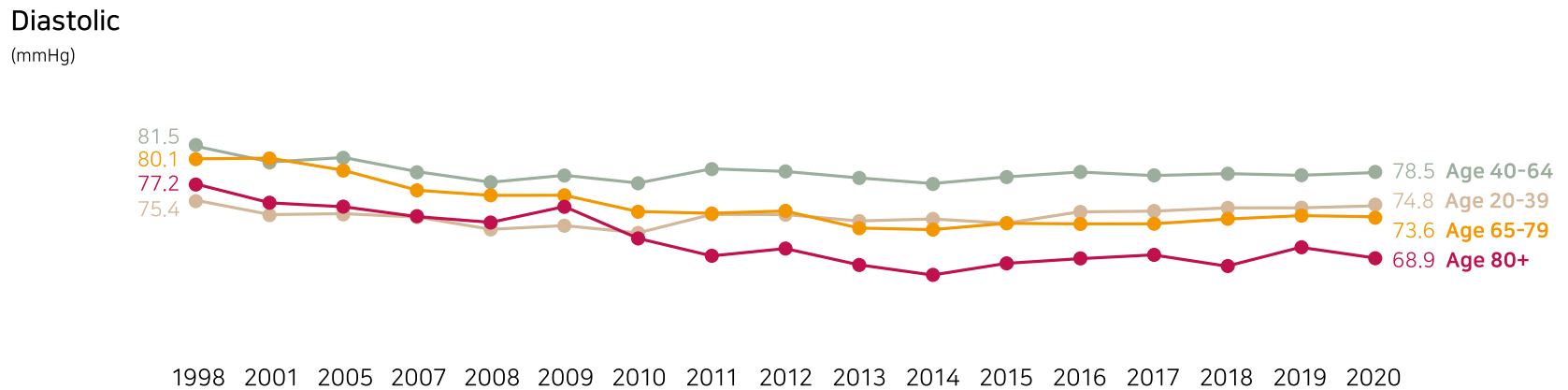
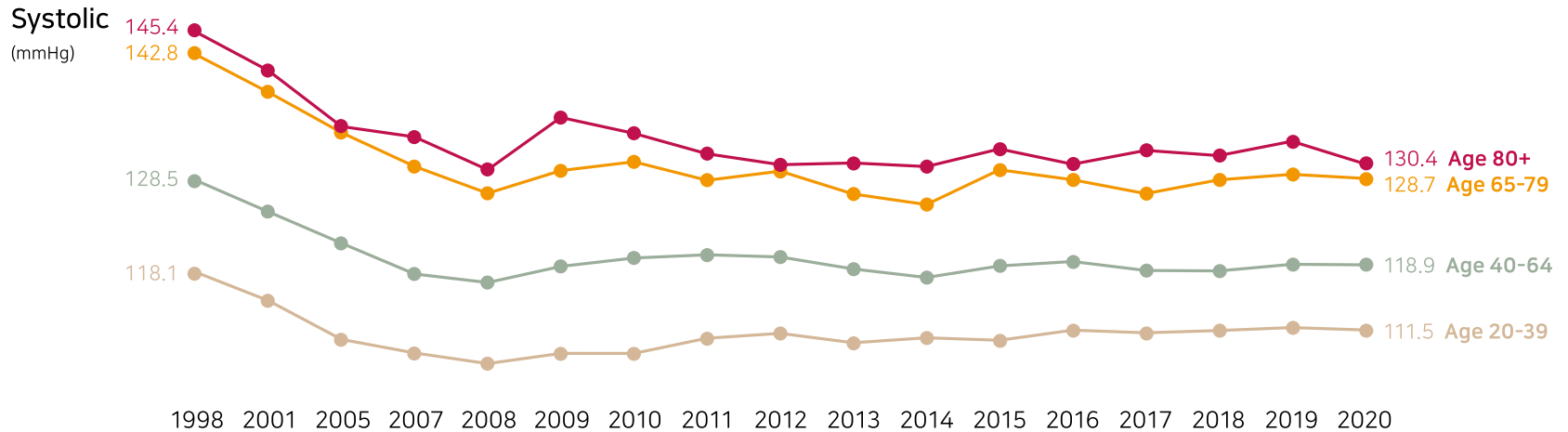


Diastolic (mmHg)



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020
(Directly age-standardized to the 2005 projected population)

Trends of Average Blood Pressure by Age

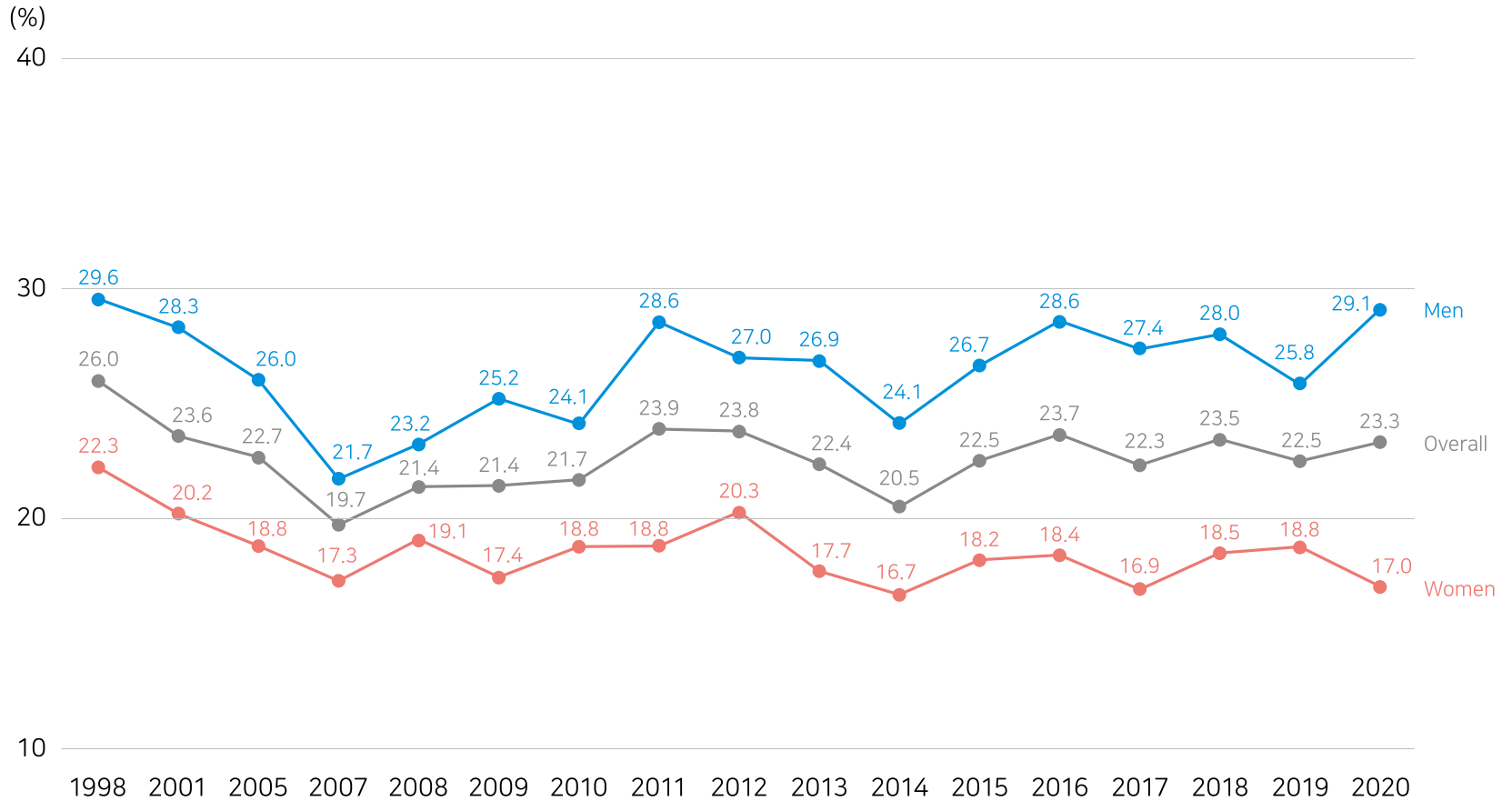


Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Hypertension Prevalence

(Age 20+, Age-standardized)

Crude Age 20+ **29 %**
 Age-standardized **23 %**

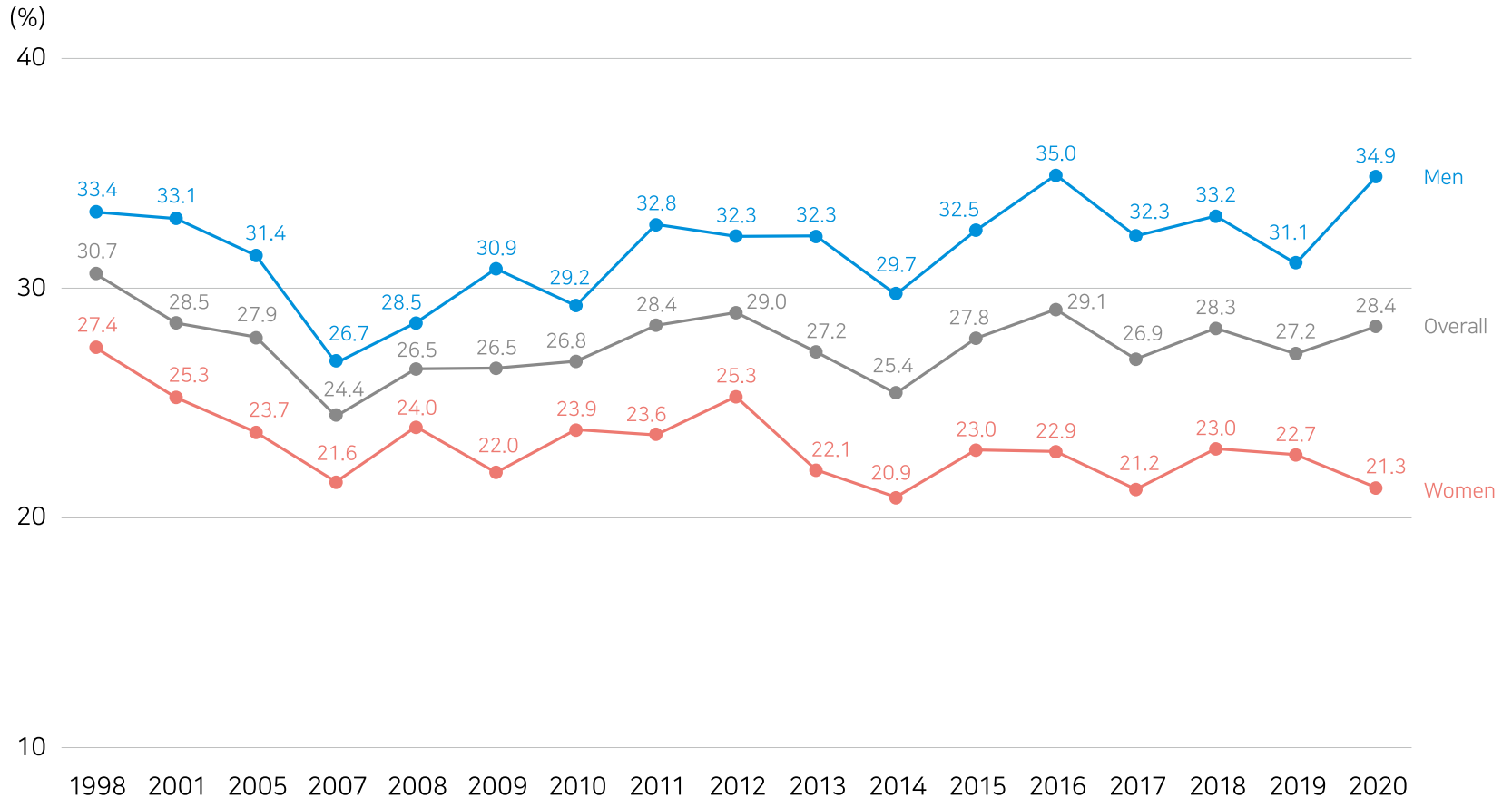


Data Source: Korea National Health and Nutrition Examination Survey 1998-2020
 (Directly age-standardized to the 2005 projected population)

Trends of Hypertension Prevalence

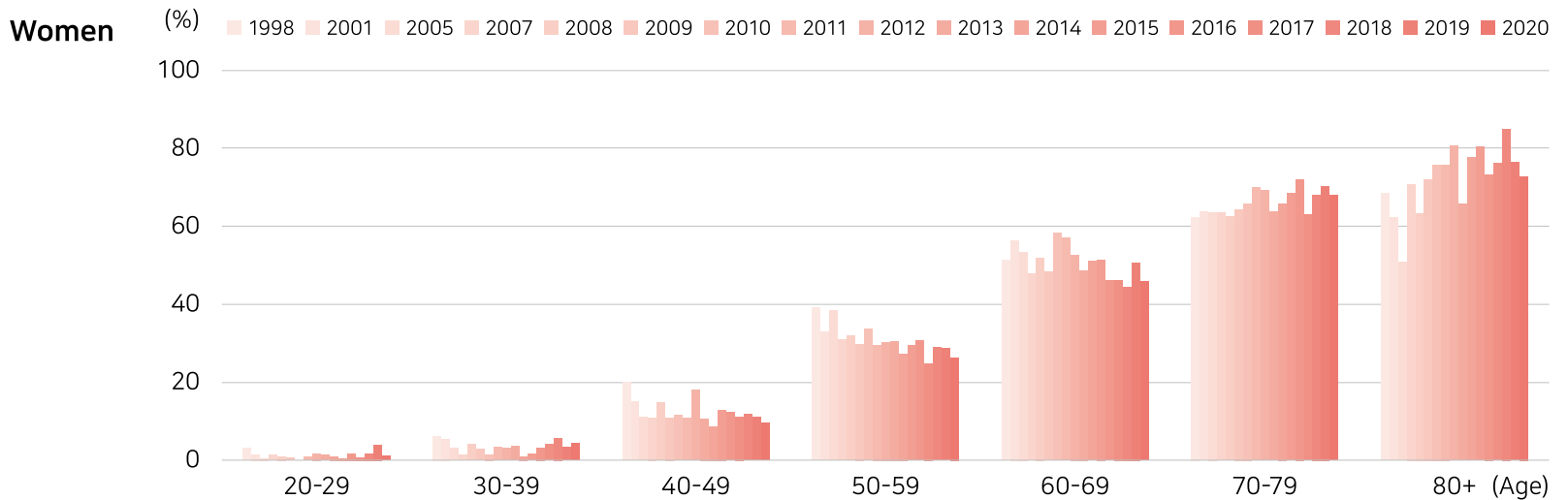
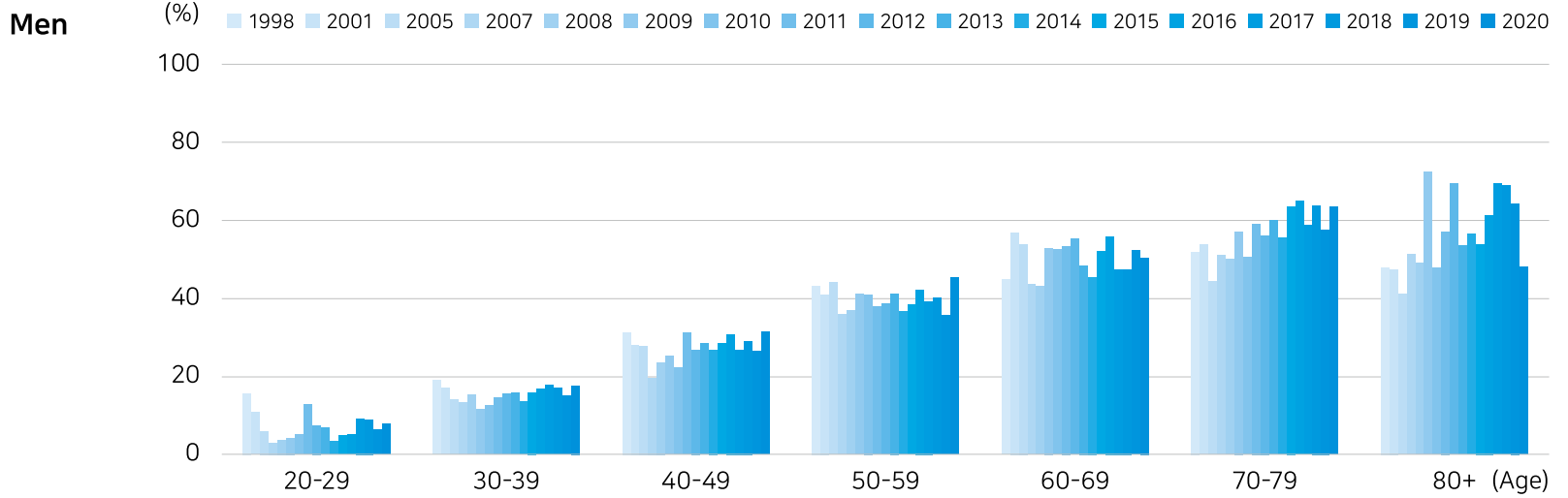
(Age 30+, Age-standardized)

Crude Age 30+ **34%** Age-standardized **28%**



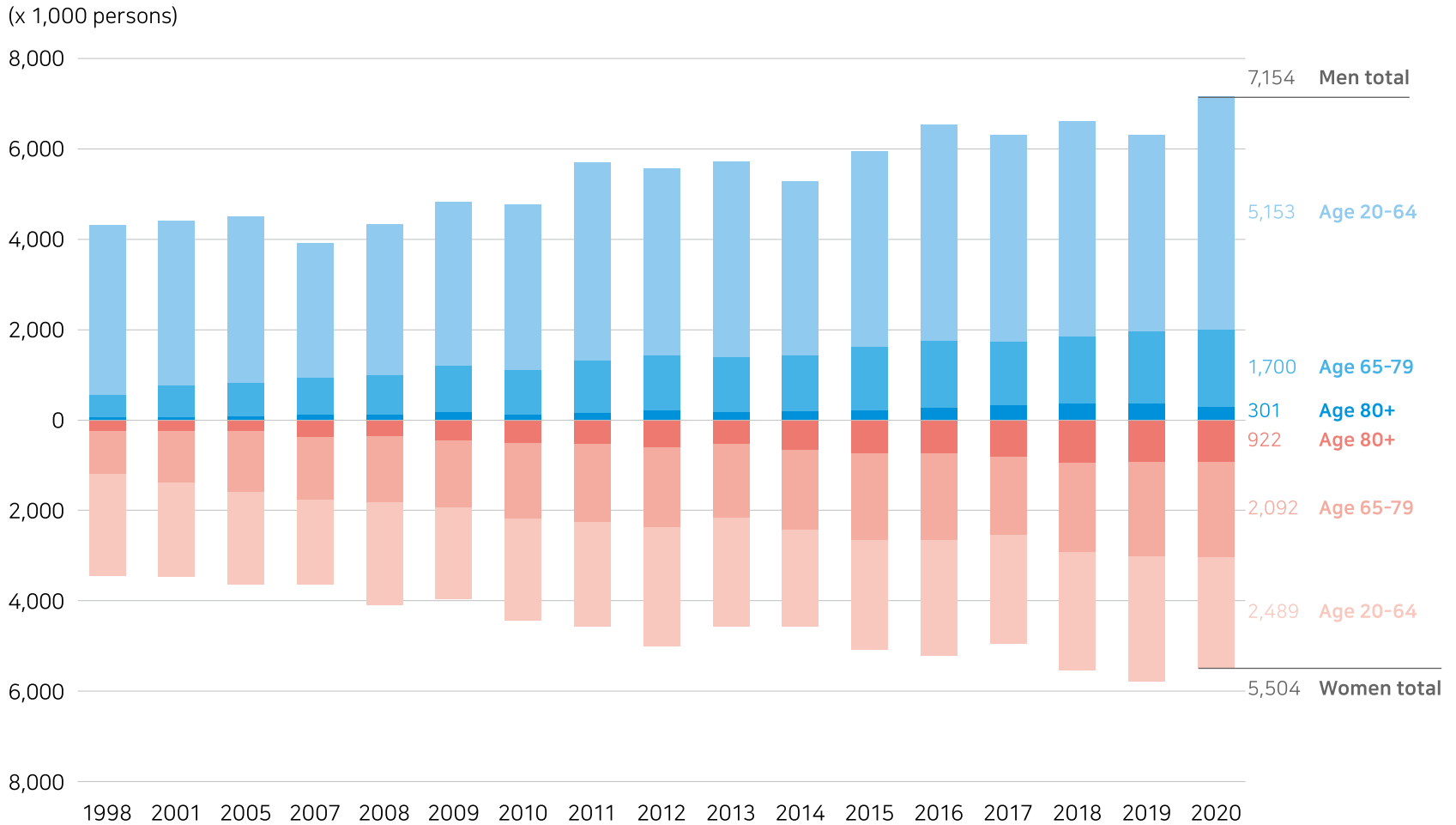
Data Source: Korea National Health and Nutrition Examination Survey 1998-2020
(Directly age-standardized to the 2005 projected population)

Trends of Hypertension Prevalence by Sex and Age



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Number of People with Hypertension



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

KOREA HYPERTENSION FACT SHEET 2022

Trends of Hypertension Management

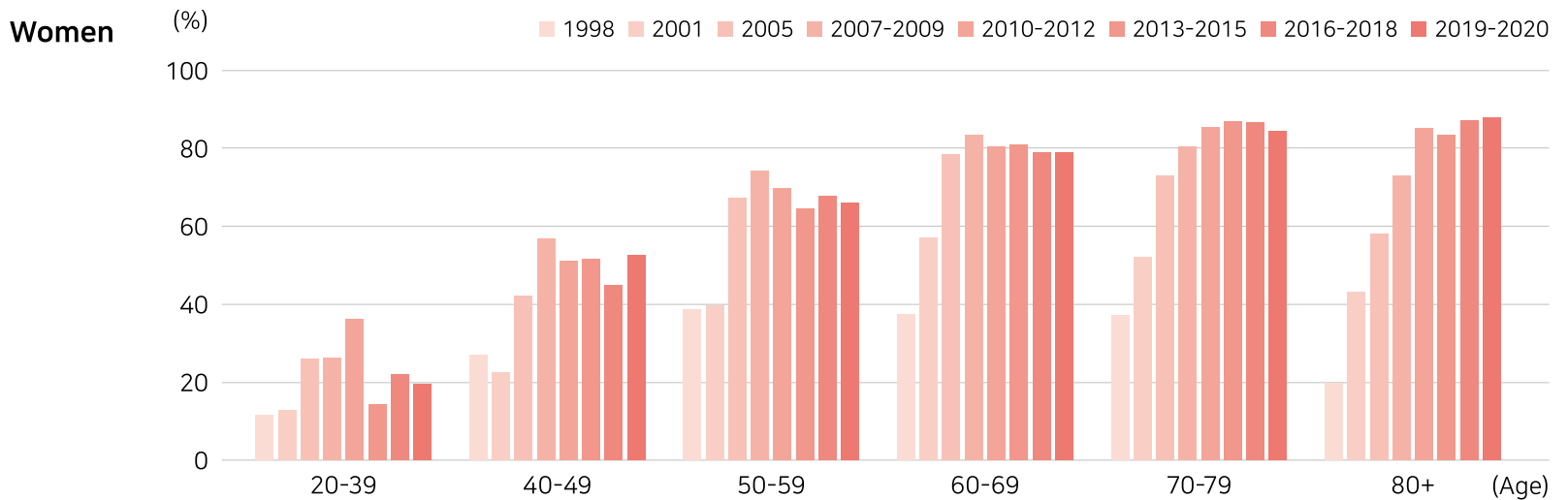
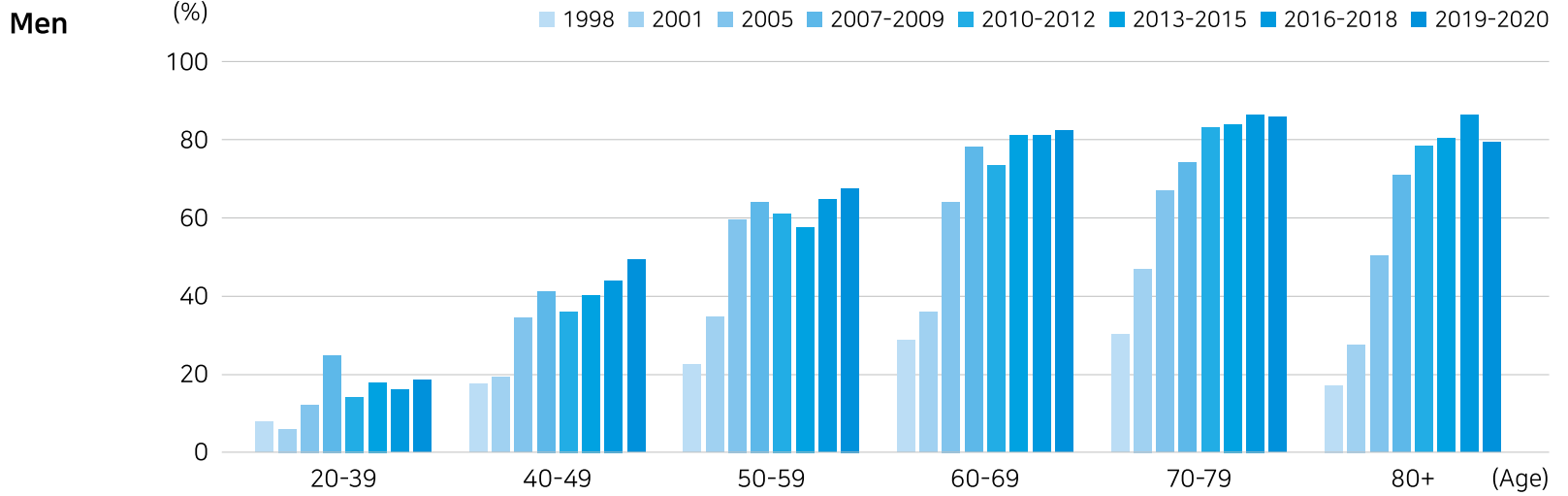
Trends of Awareness Rate by Sex and Age

Trends of Treatment Rate by Sex and Age

Trends of Control Rate by Sex and Age

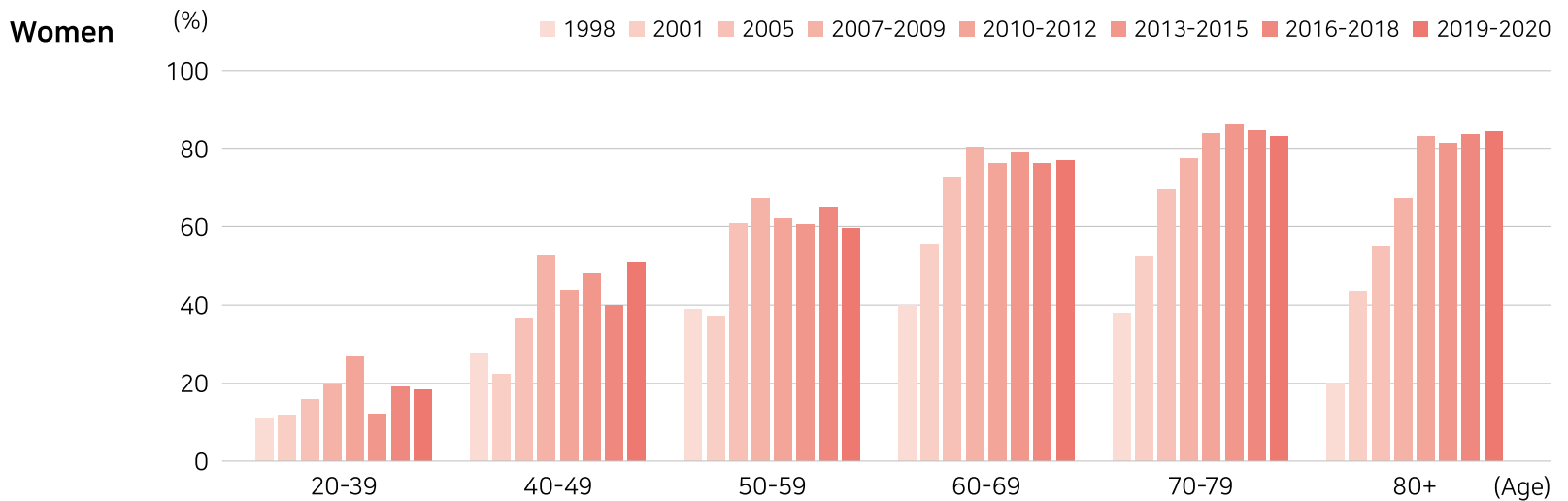
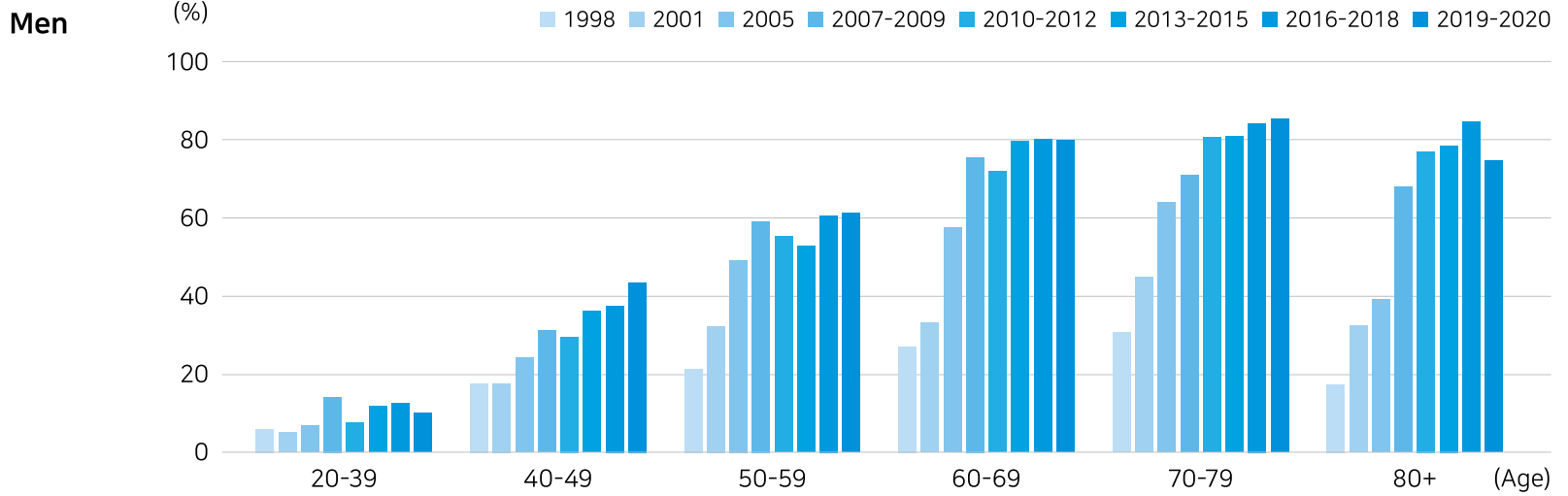


Trends of Awareness Rate by Sex and Age



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

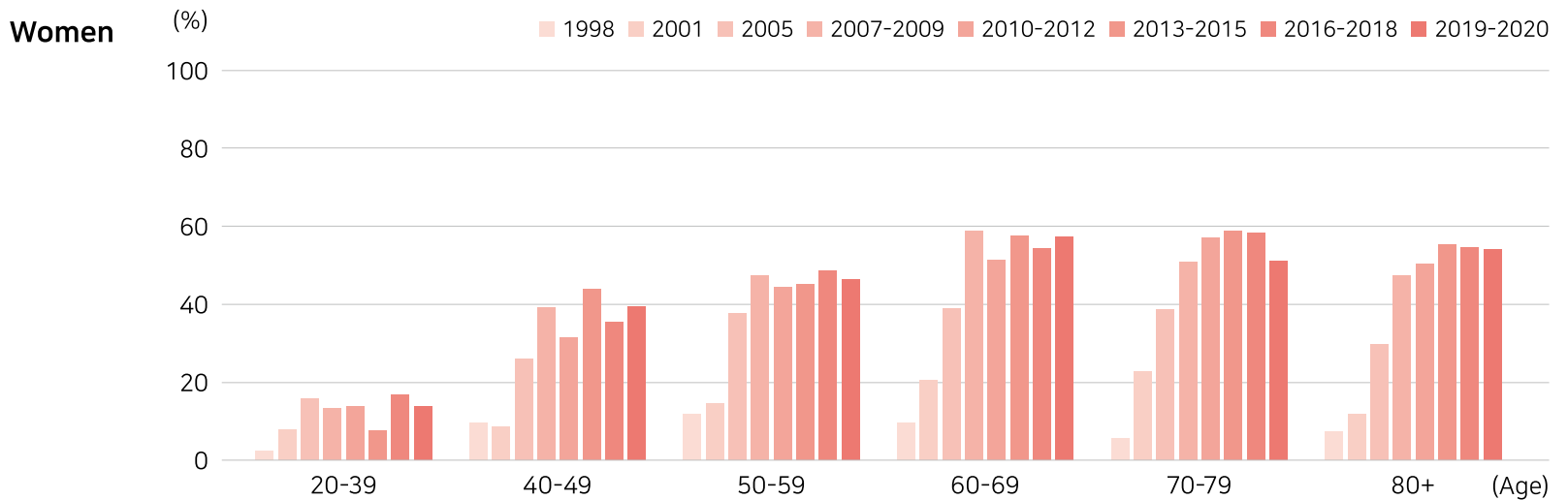
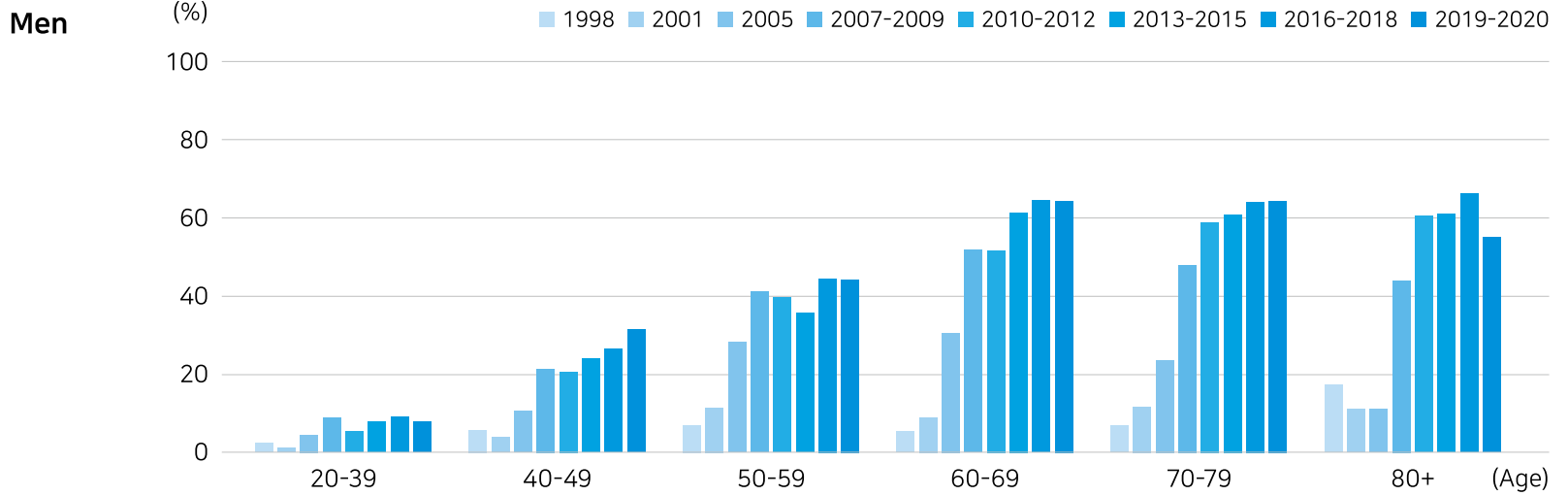
Trends of Treatment Rate by Sex and Age



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Control Rate by Sex and Age

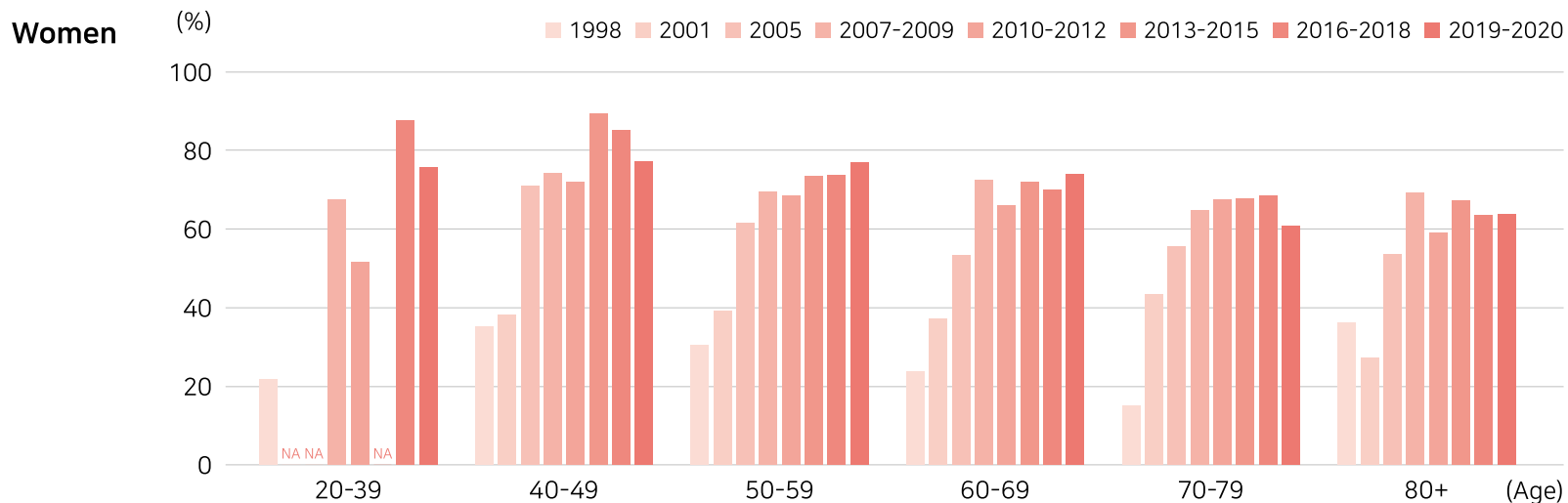
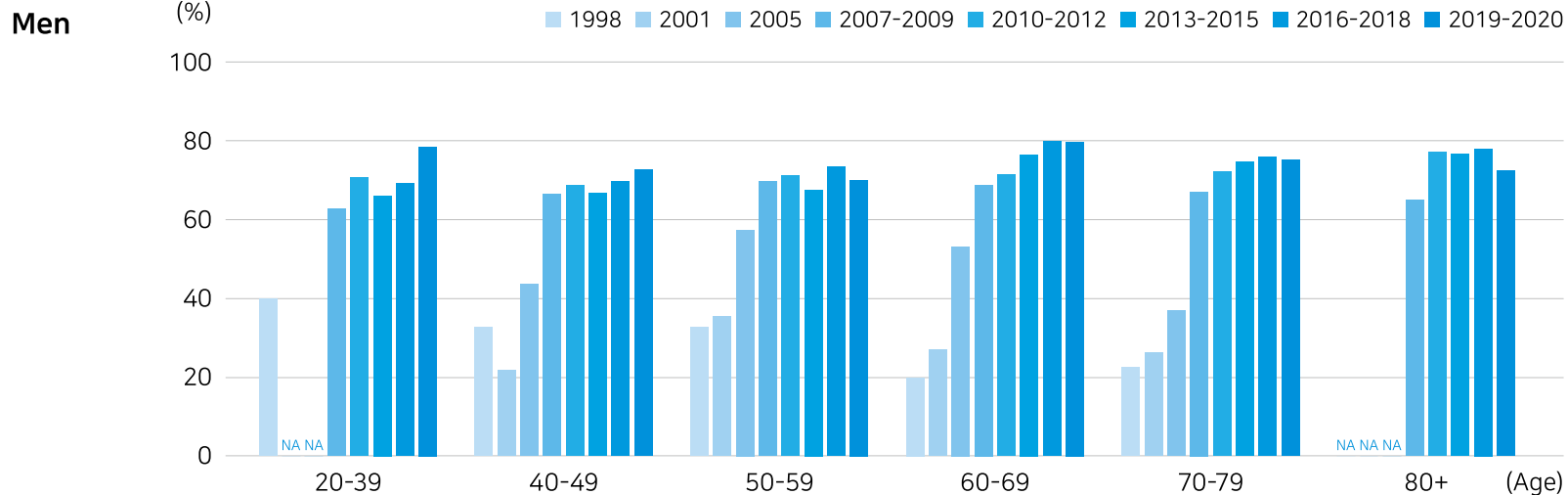
(Among prevalent)



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Control Rate by Sex and Age

(Among treated)



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

NA = Denominator less than 10

KOREA HYPERTENSION FACT SHEET 2022

Healthcare Utilization for Hypertension

Trends of Healthcare Utilization for Hypertension

Trends of Co-Treatment for Dyslipidemia and Diabetes

Trends of Antihypertensive Medication Use

Composition of Antihypertensive Treatment

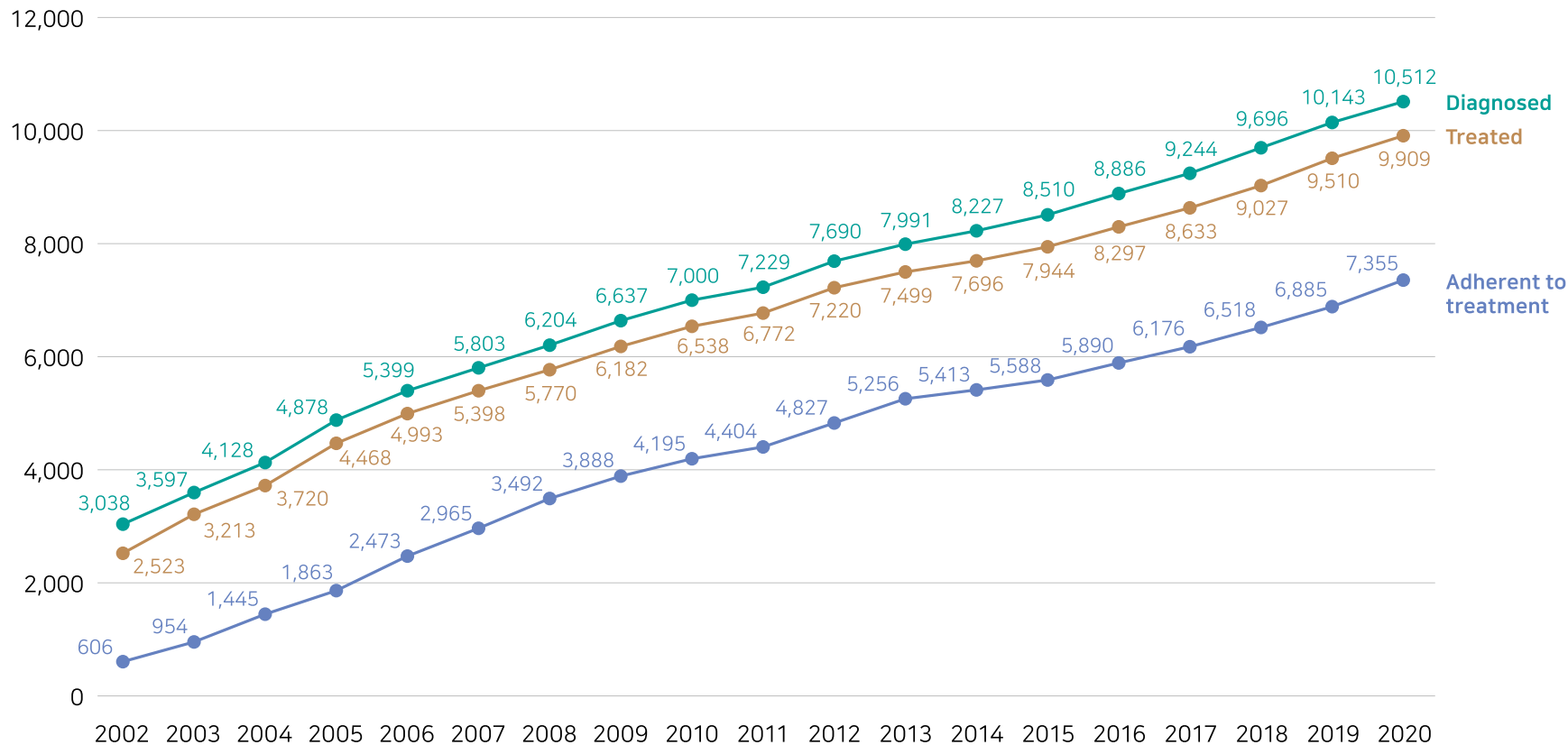
Antihypertensive Medication Use by Sex and Age



Trends of Healthcare Utilization for Hypertension

(Age 20+)

(x 1,000 persons)

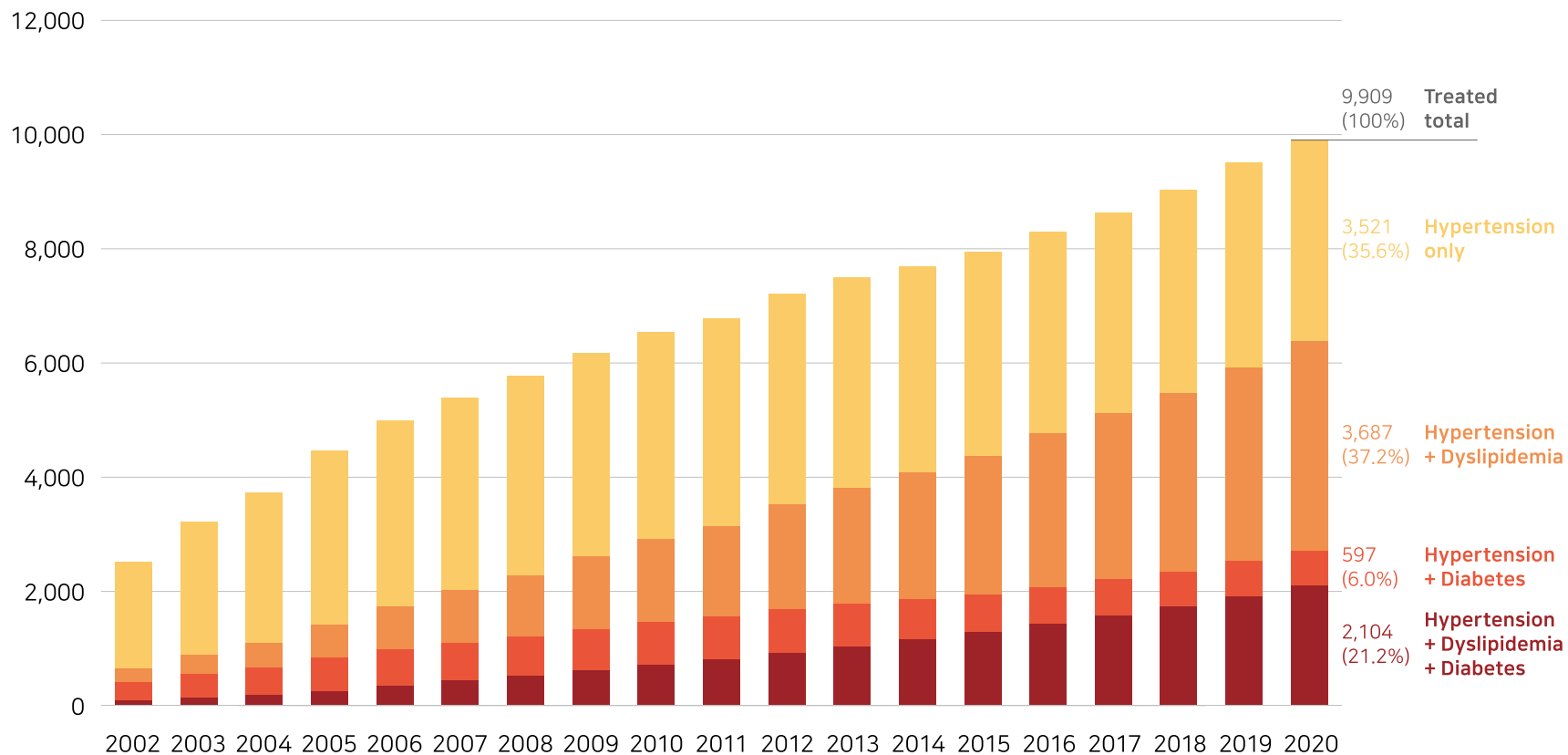


Data Source: Korea National Health Insurance Big Data 2002-2020

Trends of Co-Treatment for Dyslipidemia and Diabetes

(Age 20+)

(x 1,000 persons)

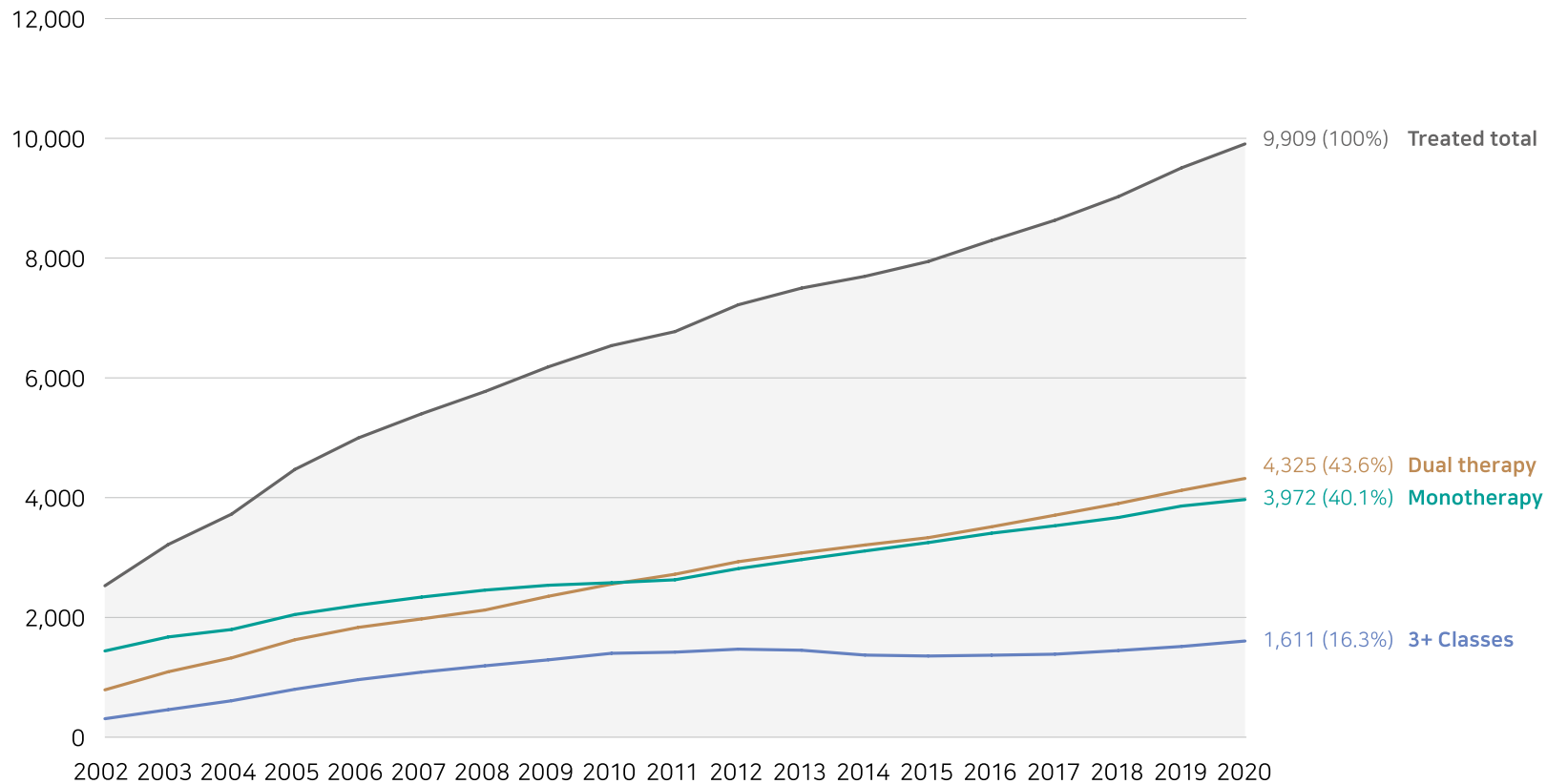


Data Source: Korea National Health Insurance Big Data 2002-2020

Trends of Antihypertensive Medication Use

(Age 20+)

(x 1,000 persons)

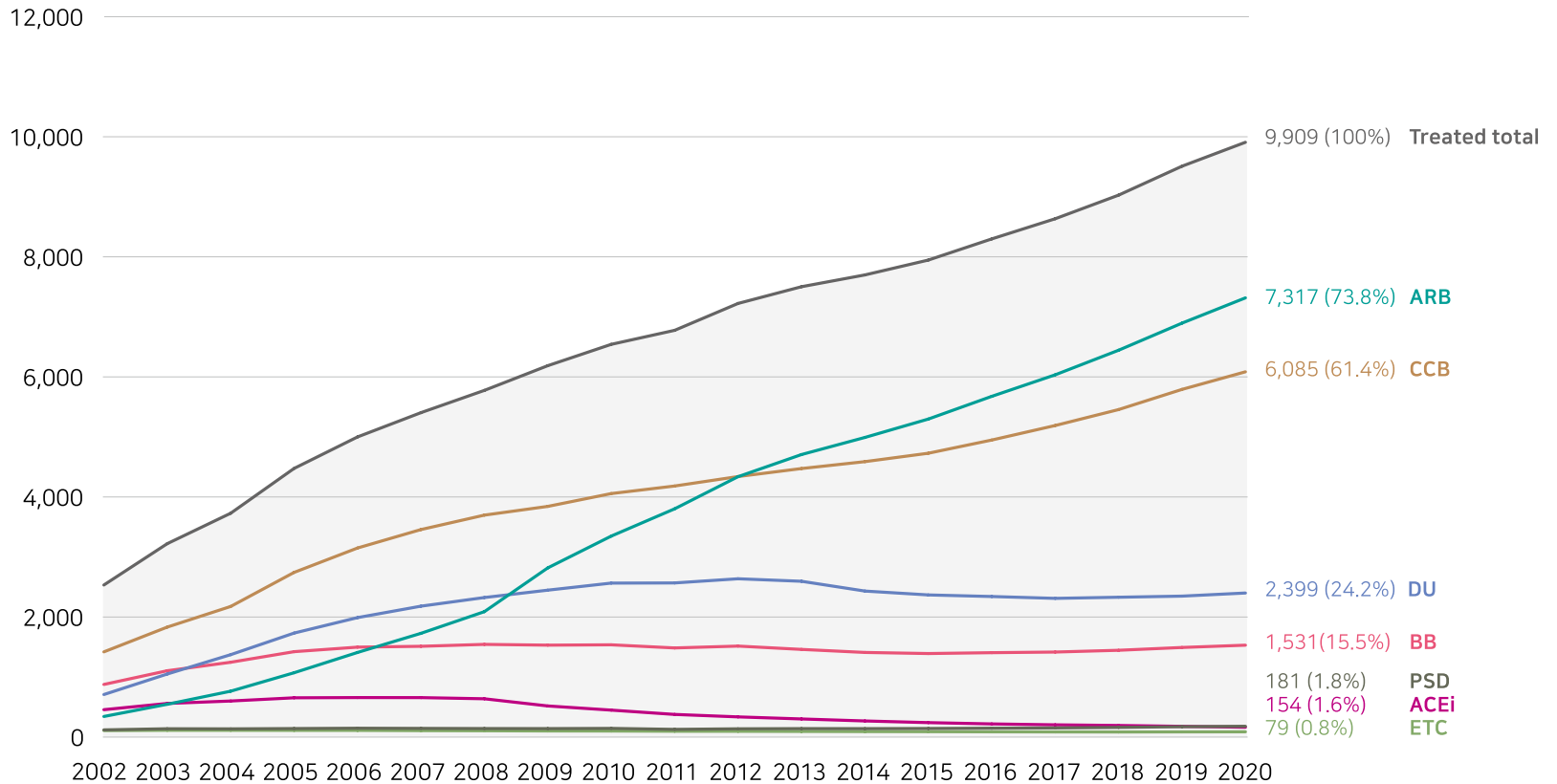


Data Source: Korea National Health Insurance Big Data 2002-2020

Trends of Antihypertensive Medication Use

(Age 20+)

(x 1,000 persons)

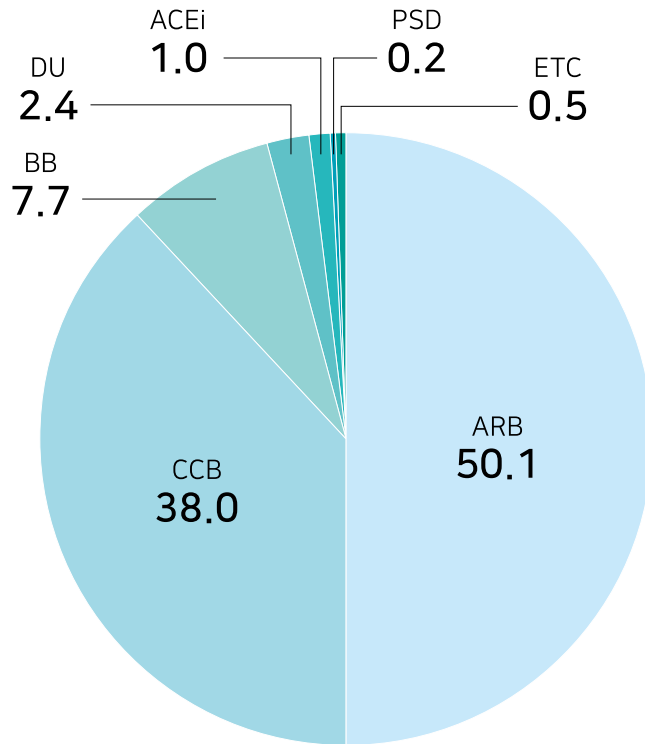


Data Source: Korea National Health Insurance Big Data 2002-2020

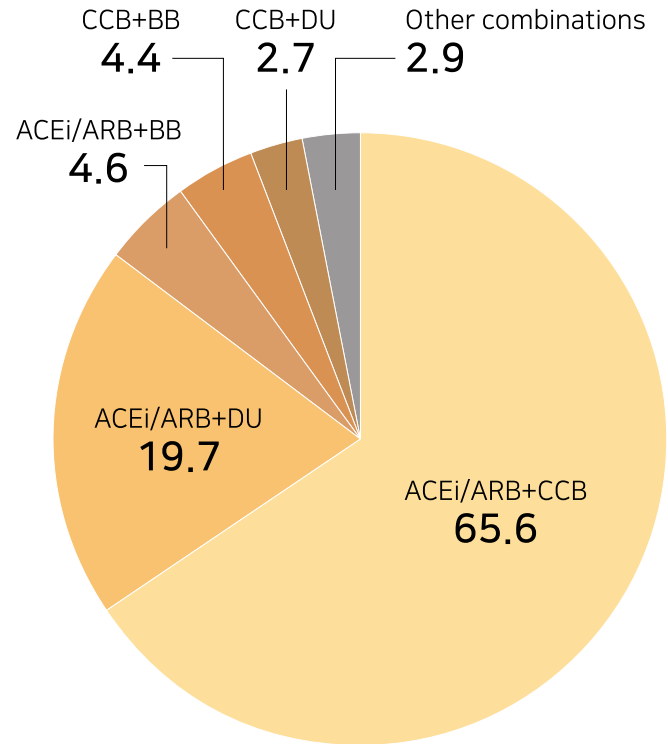
Composition of Antihypertensive Treatment

(Age 20+)

Monotherapy
Among 4.0 million, %



Dual therapy
Among 4.3 million, %



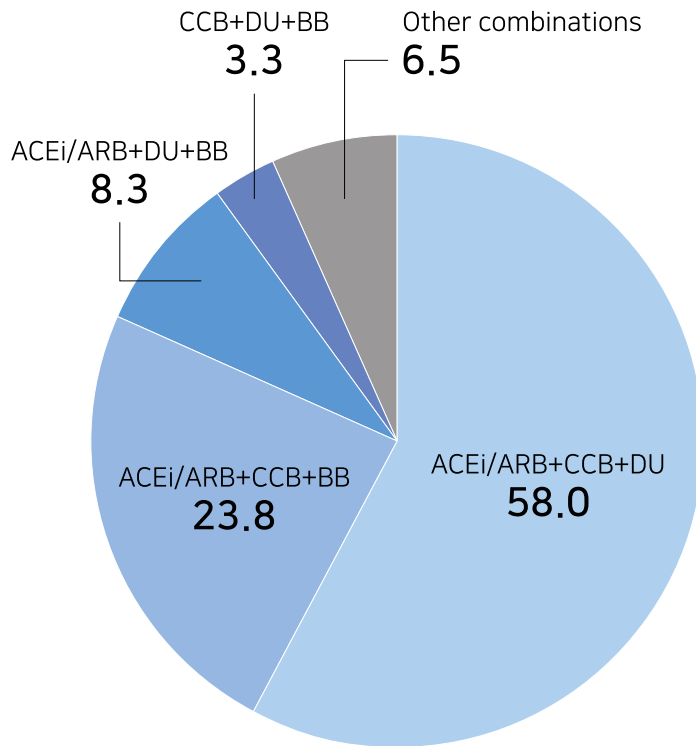
Data Source: Korea National Health Insurance Big Data 2020

Composition of Antihypertensive Treatment

(Age 20+)

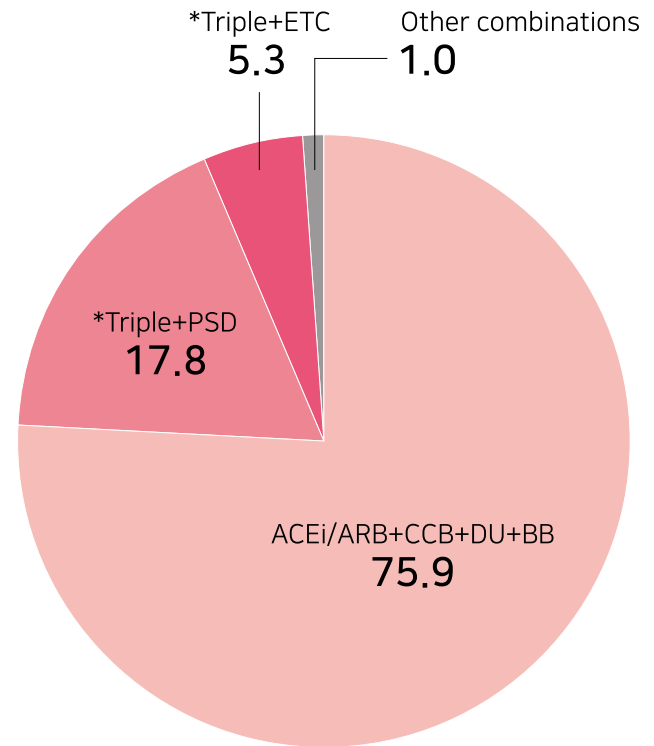
Triple therapy

Among 1.3 million, %



Quadruple therapy

Among 0.3 million, %



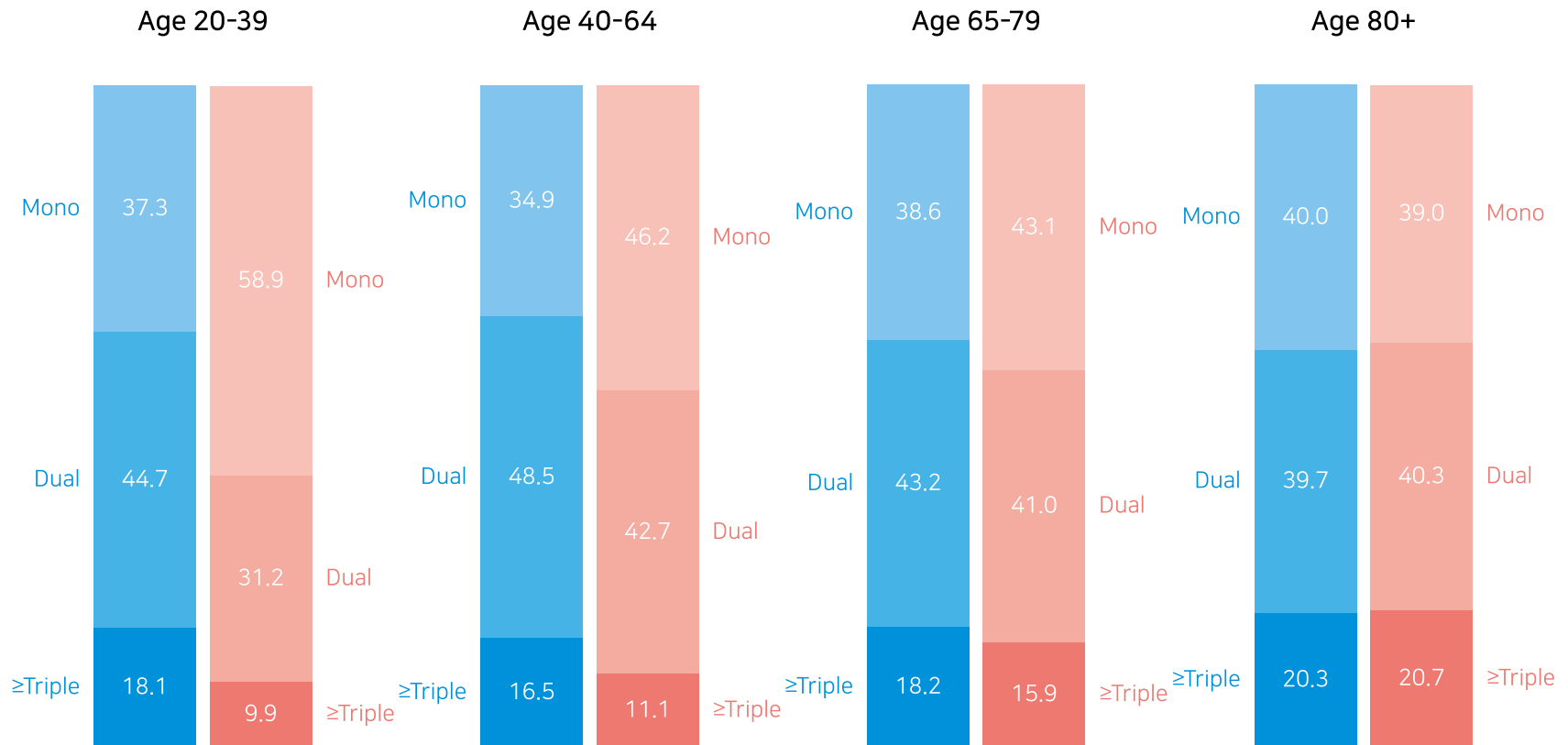
Data Source: Korea National Health Insurance Big Data 2020

*Triple = Three of the ACEi/ARB, CCB, DU, or BB

Antihypertensive Medication Use by Sex and Age

(Among treated, %)

■ Men ■ Women

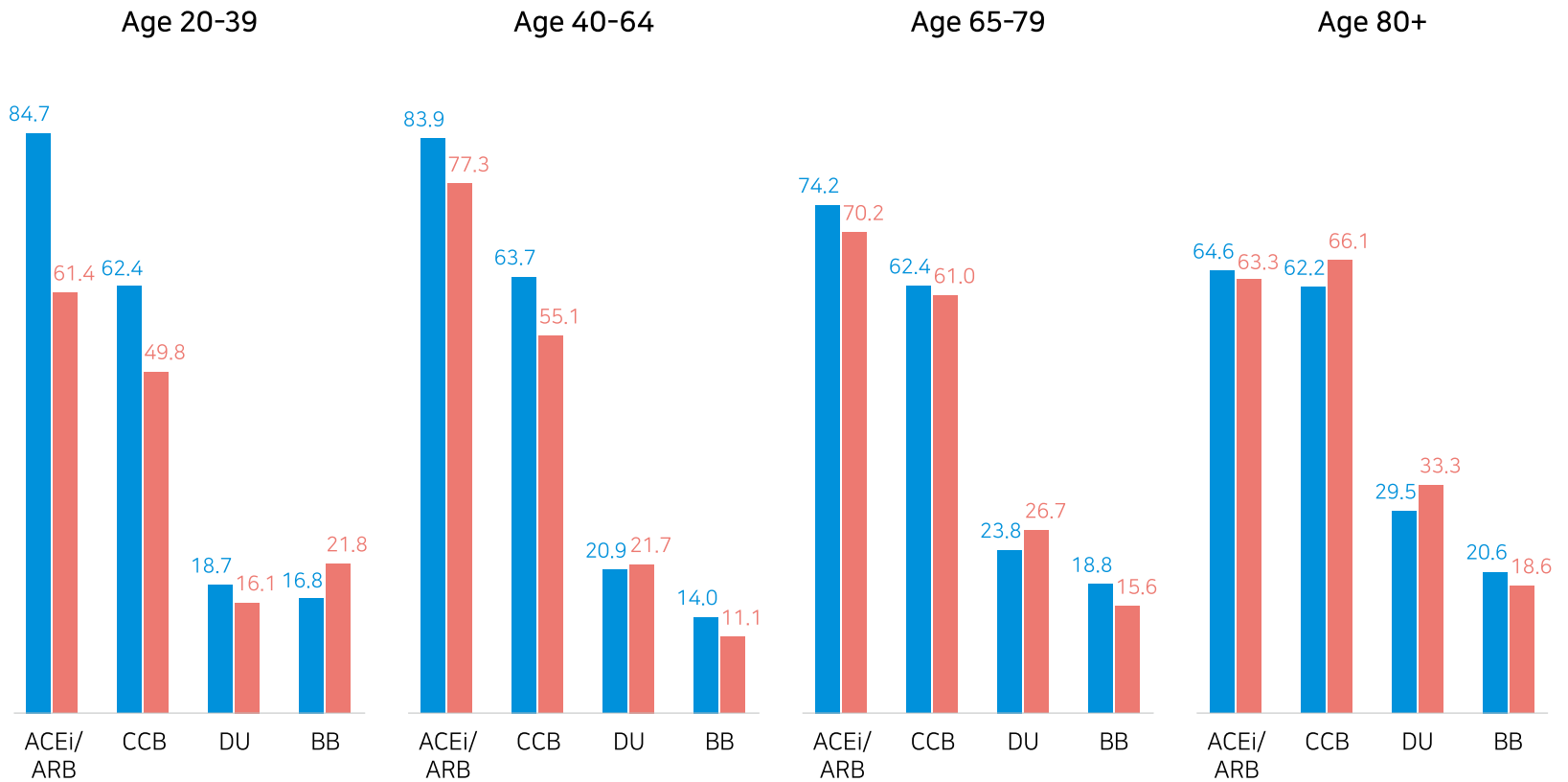


Data Source: Korea National Health Insurance Big Data 2020

Antihypertensive Medication Use by Sex and Age

(Among treated, %)

■ Men ■ Women



Data Source: Korea National Health Insurance Big Data 2020

Hypertension in the Elderly

Trends of Number of People with Hypertension by Management Status

Trends of Awareness Rate in the Elderly

Trends of Treatment Rate in the Elderly

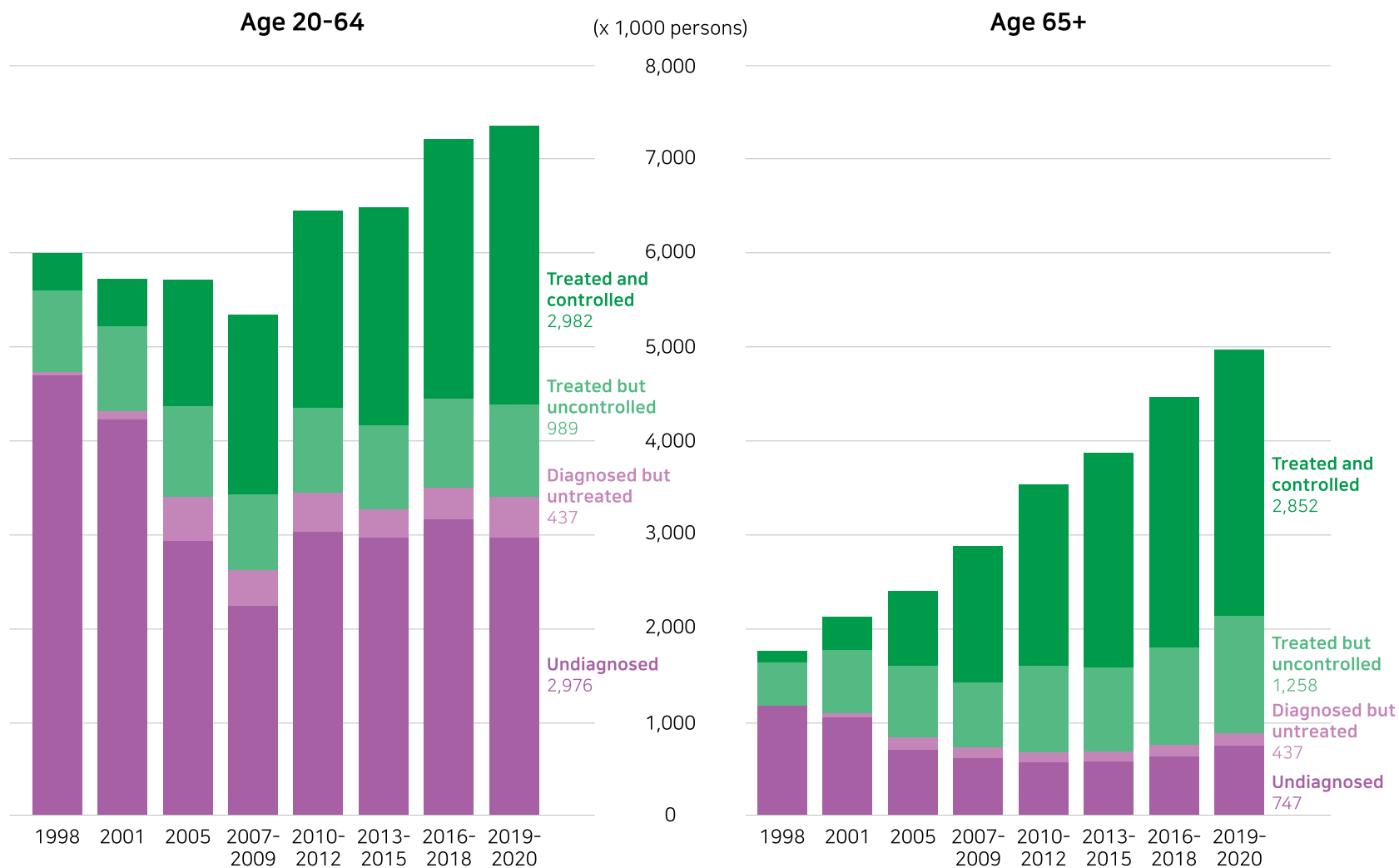
Trends of Adherence Rate in the Elderly

Trends of Combination Therapy Rate in the Elderly

Trends of Average Blood Pressure in the Elderly

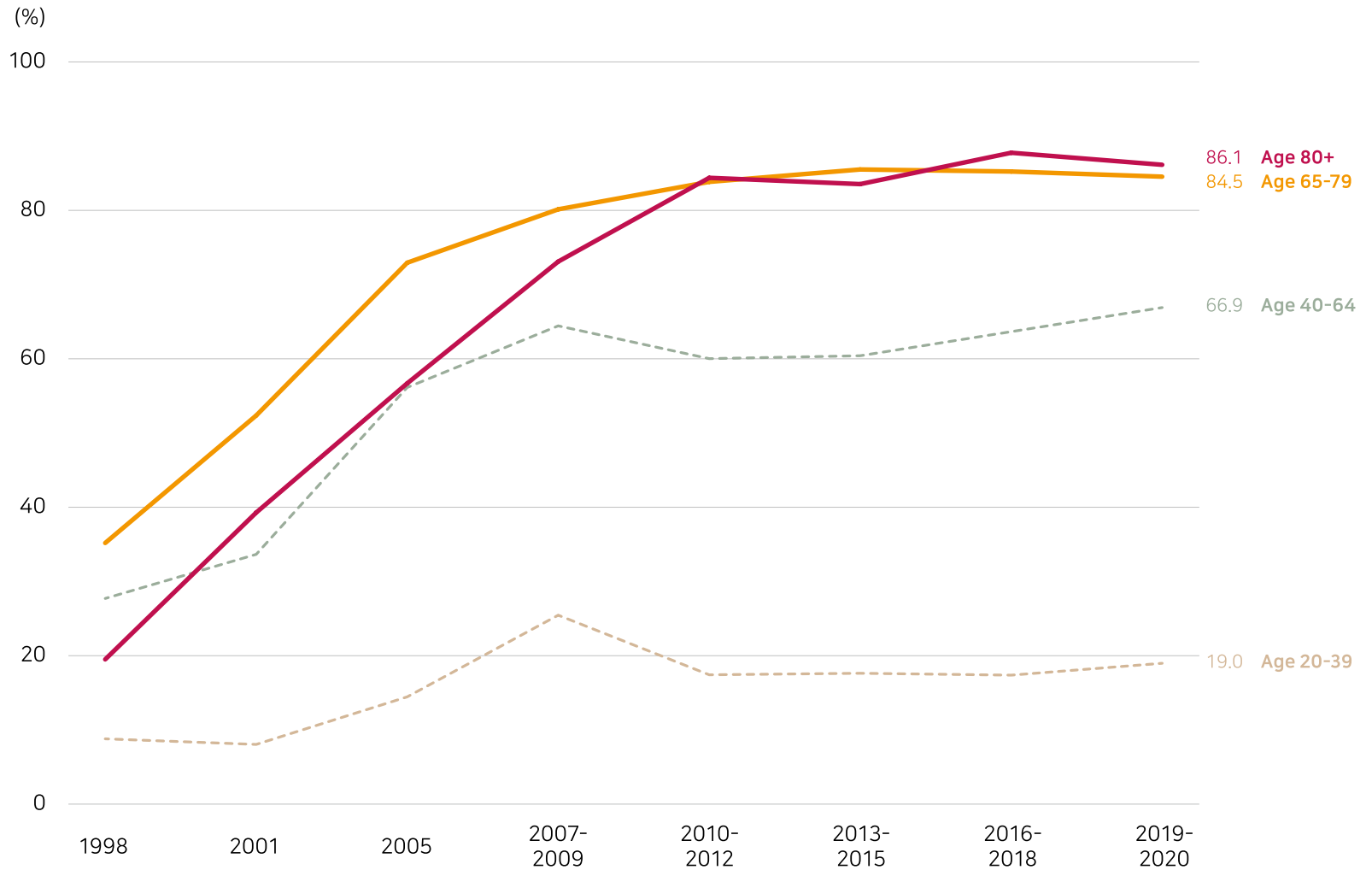


Trends of Number of People with Hypertension by Management Status



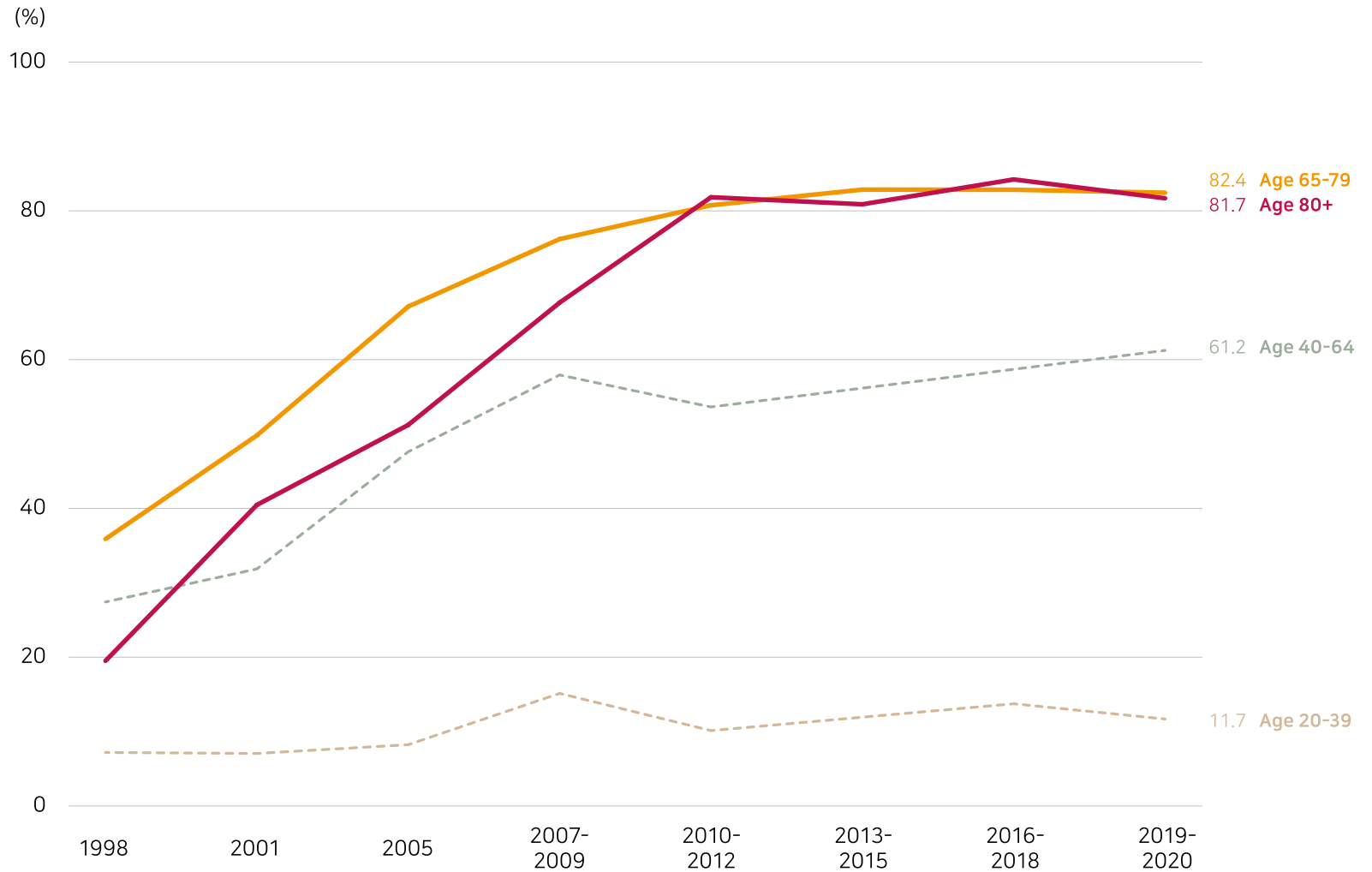
Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Awareness Rate in the Elderly



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

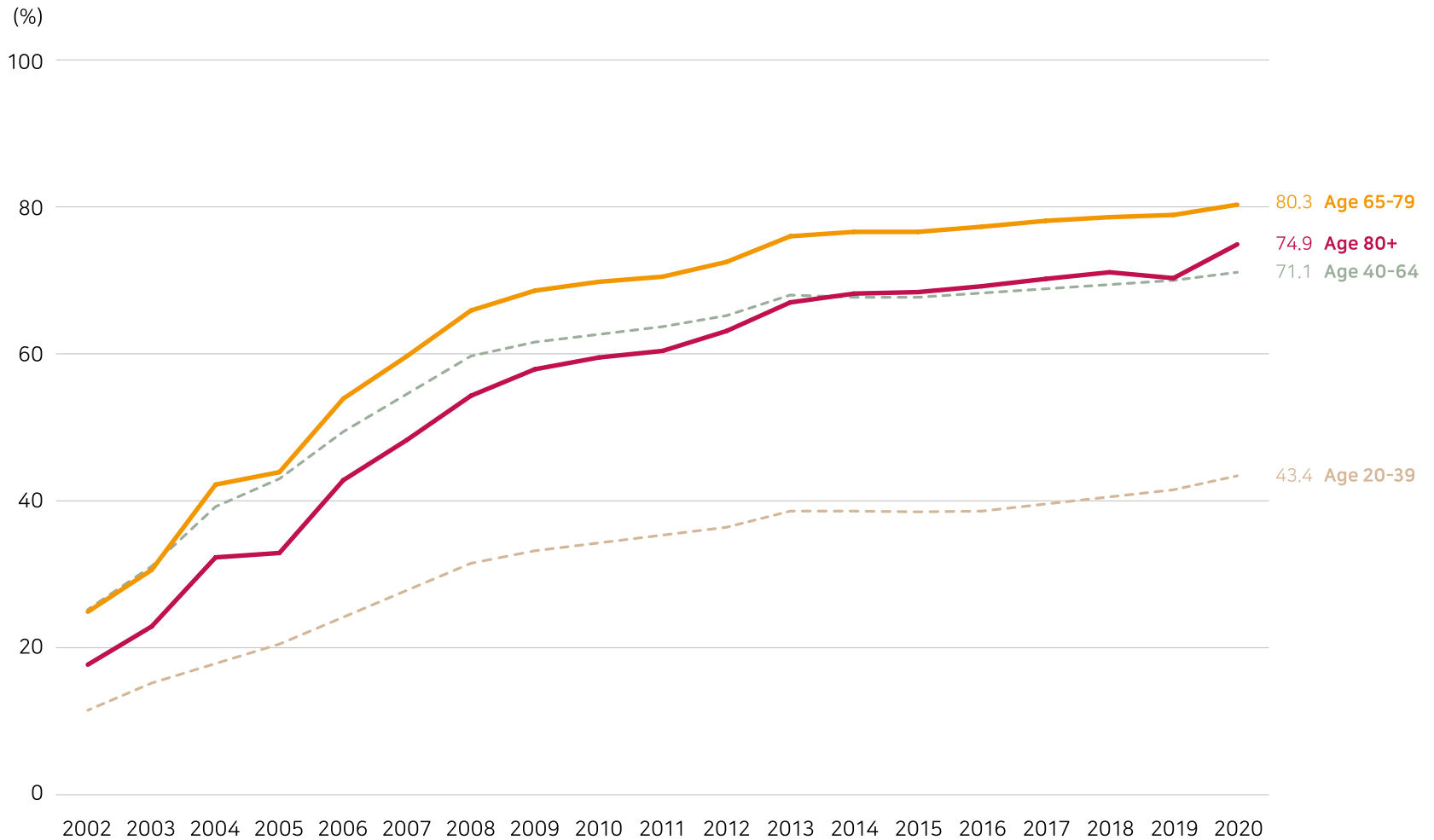
Trends of Treatment Rate in the Elderly



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

Trends of Adherence Rate in the Elderly

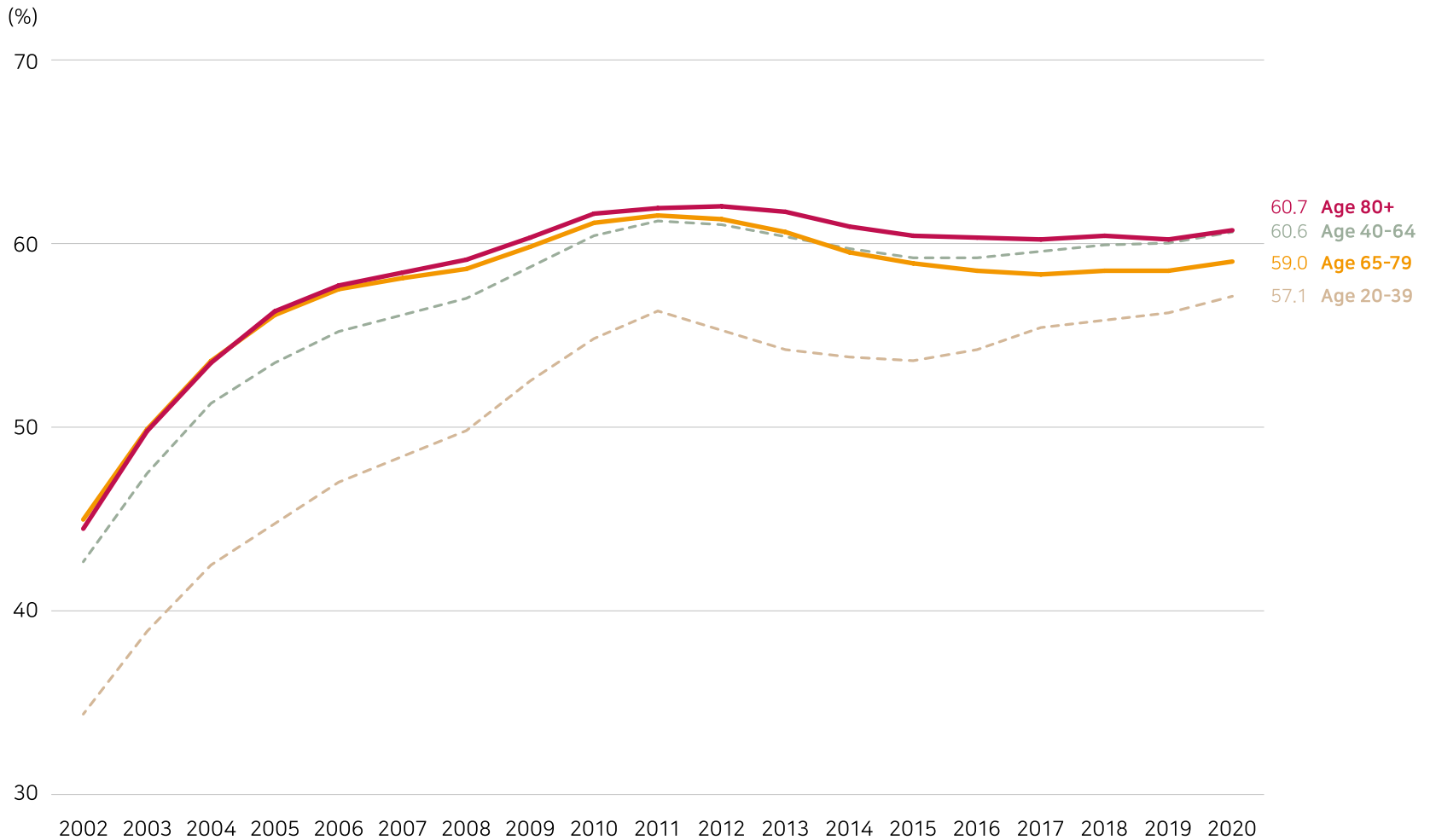
(Among treated)



Data Source: Korea National Health Insurance Big Data 2002-2020

Trends of Combination Therapy Rate in the Elderly

(Among treated)

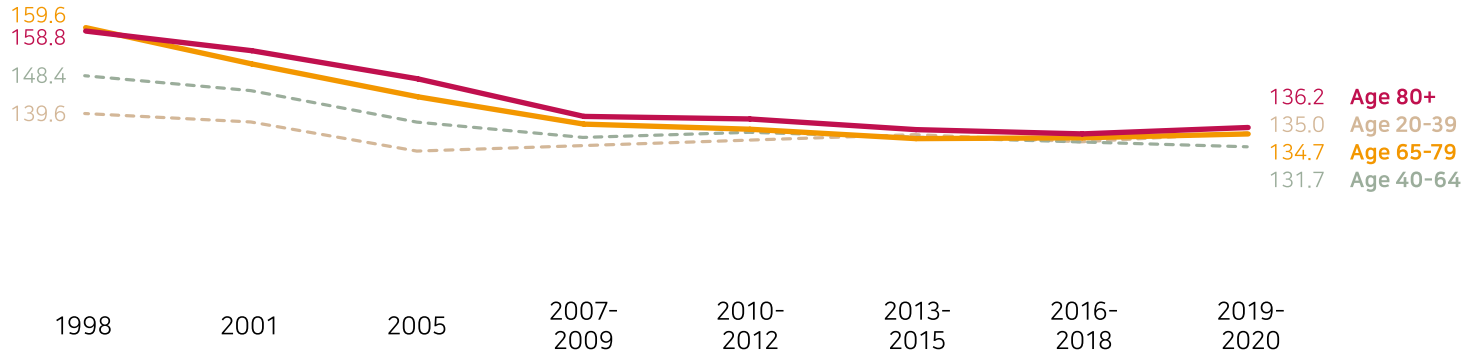


Data Source: Korea National Health Insurance Big Data 2002-2020

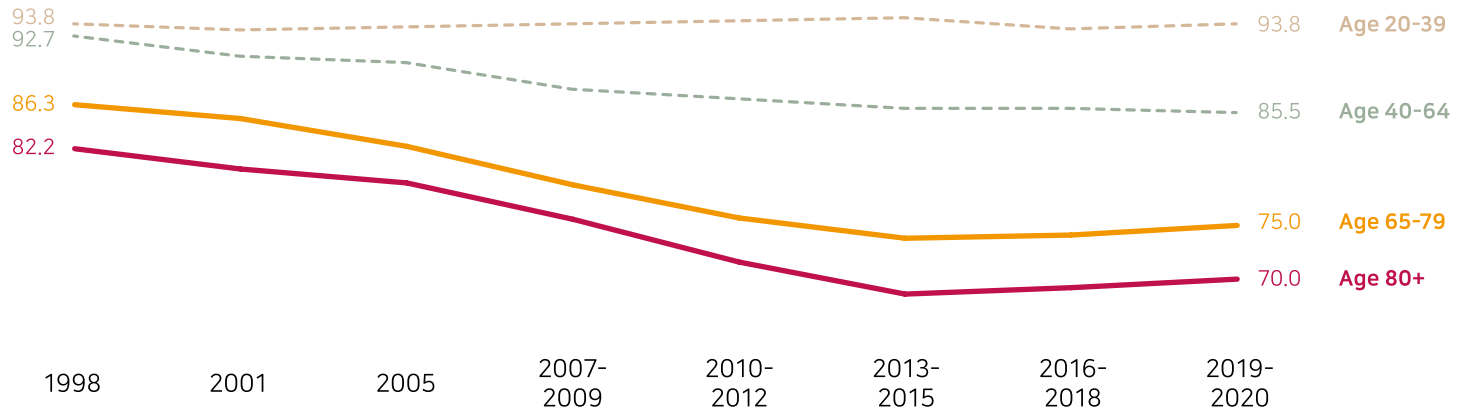
Trends of Average Blood Pressure in the Elderly

(Among prevalent)

Systolic
(mmHg)



Diastolic
(mmHg)

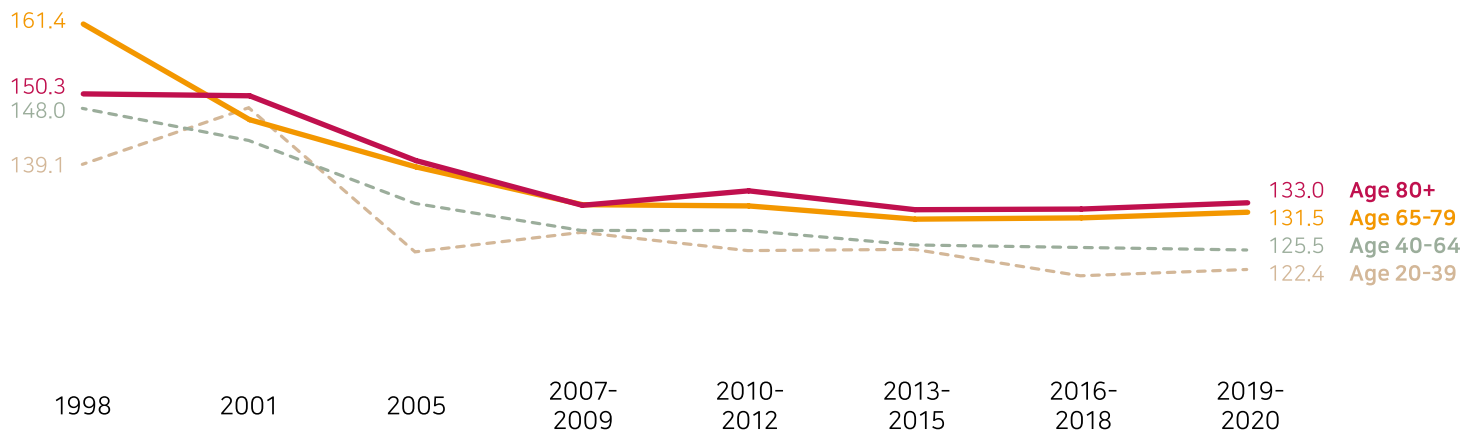


Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

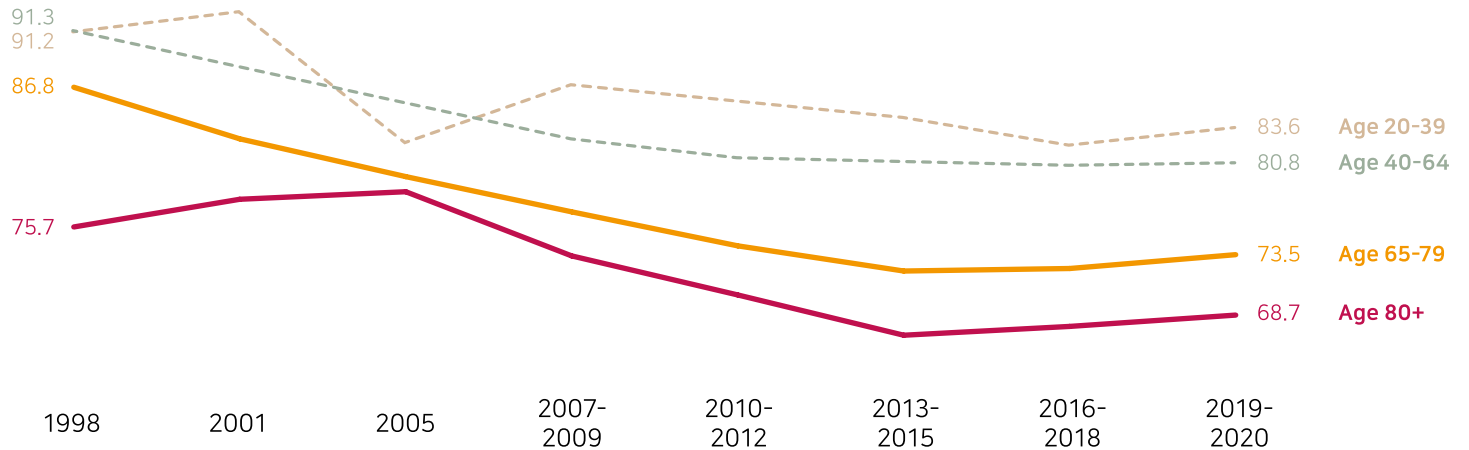
Trends of Average Blood Pressure in the Elderly

(Among treated)

Systolic
(mmHg)



Diastolic
(mmHg)



Data Source: Korea National Health and Nutrition Examination Survey 1998-2020

KOREA HYPERTENSION FACT SHEET 2022



This fact sheet will be published in Clinical Hypertension, the official journal of the Korean Society of Hypertension
The Korean Society of Hypertension (KSH) - Hypertension Epidemiology Research Working Group.
Korea Hypertension Fact Sheet 2022. Clinical Hypertension 2022 (in press).

www.koreanhypertension.org