

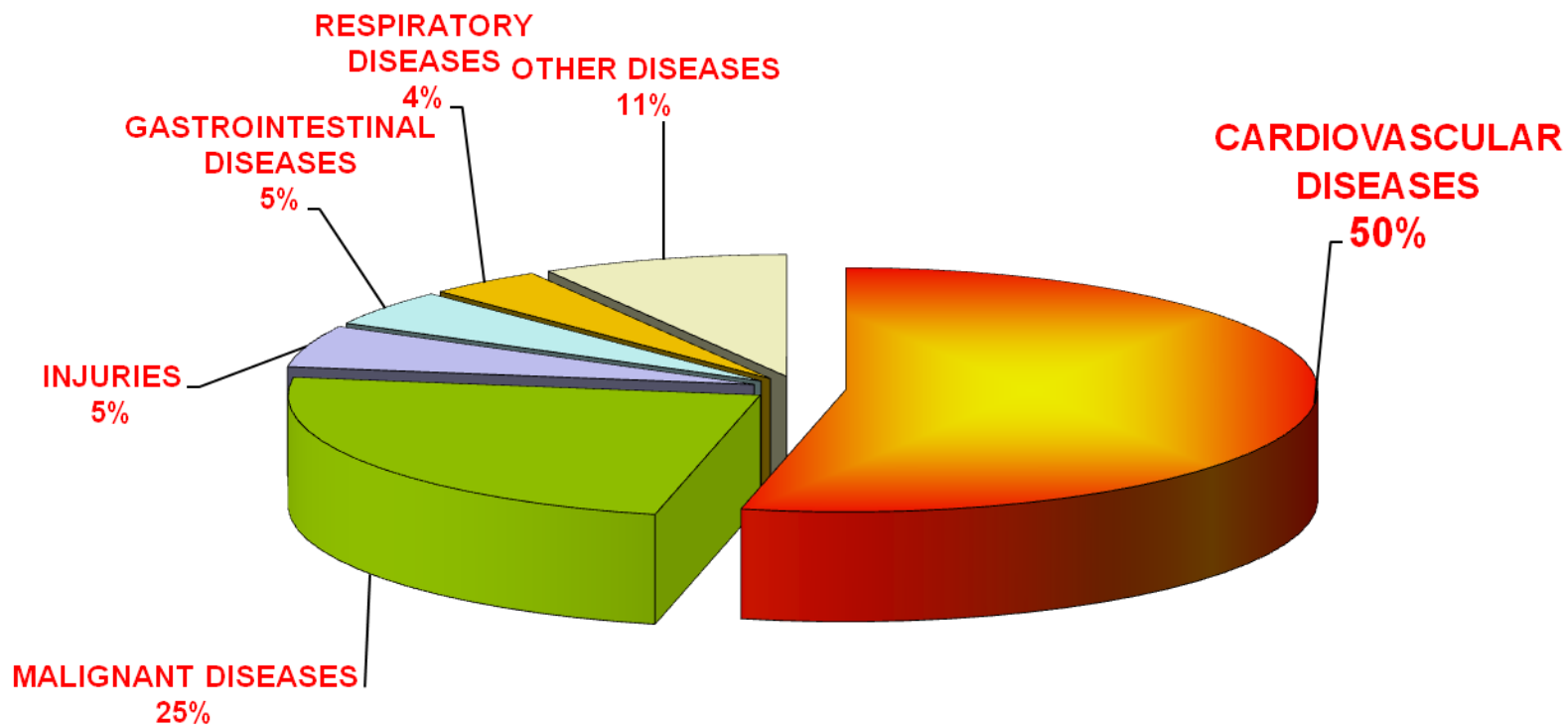


**PERCEPTION OF CVD RISK FACTORS
BY DIFFERENT STAKEHOLDERS -
DOCTORS, MEDICAL STUDENTS,
GENERAL PUBLIC, POLITICIANS,
JOURNALISTS**

**Professor Željko Reiner,
MD, PhD, FRCP(Lond), FESC, FACC**

**University Hospital Center Zagreb,
University of Zagreb, Zagreb School of
Medicine, Croatia**

CAUSES OF DEATH IN CROATIA IN 2008





PERCRO Study - PERCEPTION OF CARDIOVASCULAR RISK FACTORS IN CROATIA – GENERAL POPULATION

- A questionnaire with 25 multiple choice questions
- In 37 pharmacies covering the whole area of Croatia consecutively to all customers willing to answer
- 883 respondents (questionnaires finished)
- September 1 to November 30, 2007



PERCRO Study - PERCEPTION OF CARDIOVASCULAR RISK FACTORS IN CROATIA – PHYSICIANS

- In Croatia - 11 799 physicians (1753 GPs and 927 specialists in GP/family medicine, 987 general internists, 203 cardiologists)
- randomly recruited using national physicians registry and professional societies' directories
- 5 regions, all cardiologists, every third GP/FP, every fifth internist
- A questionnaire with 25 multiple choice questions
- 1382 physicians (930 GP/FP, 165 cardiologists, 213 internists) answered
- March 1 to June 30, 2008



PERCRO Study - PERCEPTION OF CARDIOVASCULAR RISK FACTORS IN CROATIA – MEDICAL STUDENTS

- A questionnaire with 25 multiple choice questions
- 443 medical students at the beginning of the study and at the end of the study
- On the enrolment day and graduation day September 2008
- School of Medicine, University of Zagreb



PERCRO Study - PERCEPTION OF CARDIOVASCULAR RISK FACTORS IN CROATIA – MEMBERS OF PARLIAMENT

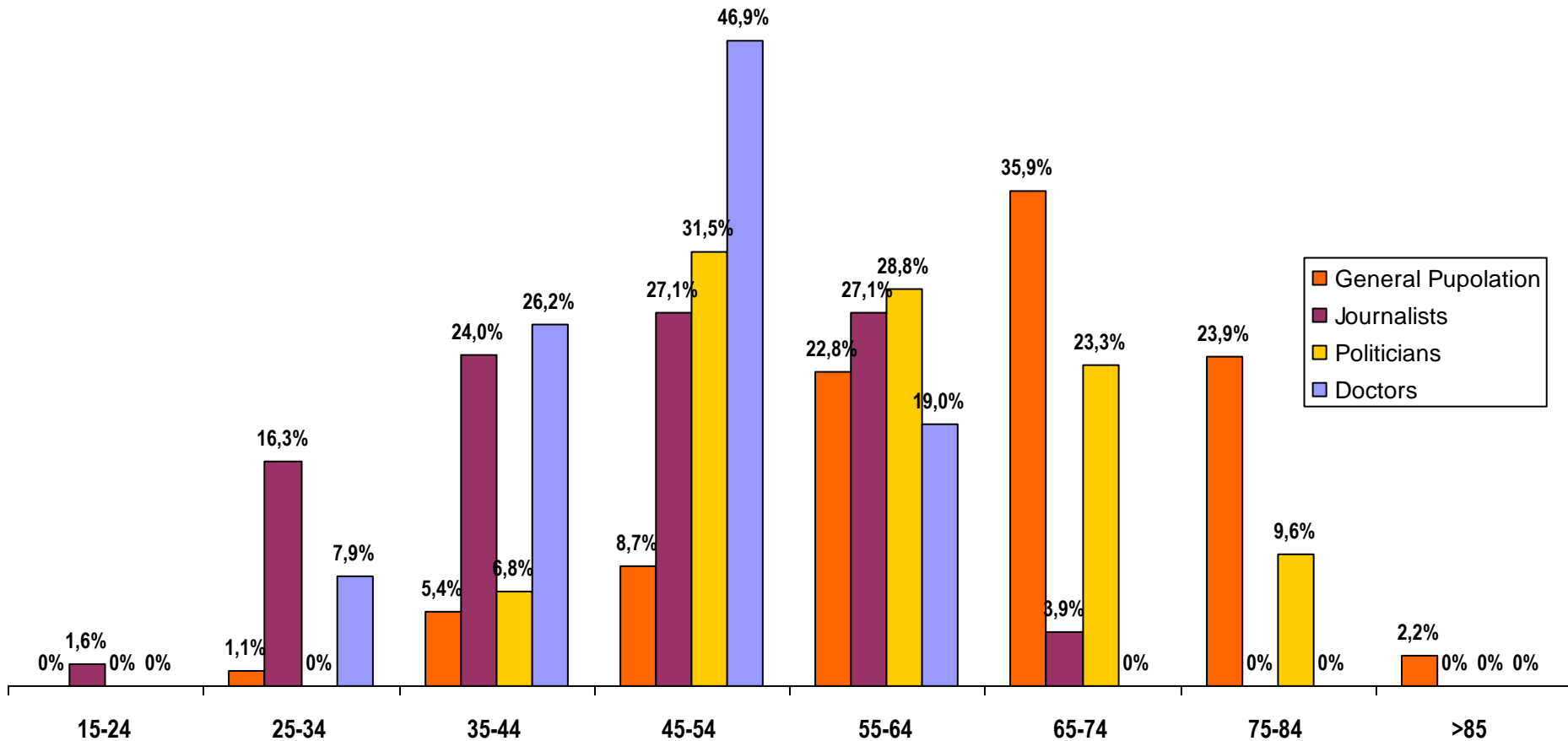
- 77 out of 141 members of the Croatian Parliament - Sabor
- One day during the Parliament session in the Houses of Parliament 2008
- A questionnaire with 25 multiple choice questions



PERCRO Study - PERCEPTION OF CARDIOVASCULAR RISK FACTORS IN CROATIA – JOURNALISTS

- A questionnaire with 25 multiple choice questions
- 129 journalists from daily press – newspaper, TV, radio
- In the Croatian Press Association House
- One day in 2008

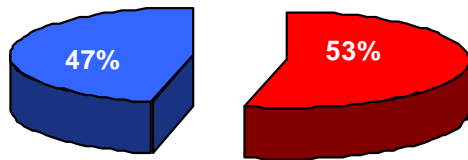
Age Groups Distribution (years)



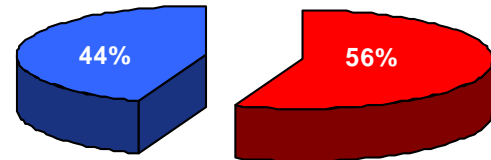
Medical Students all belong to the 15-24 age group

Groups by Gender

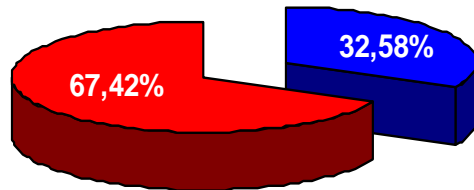
General Population



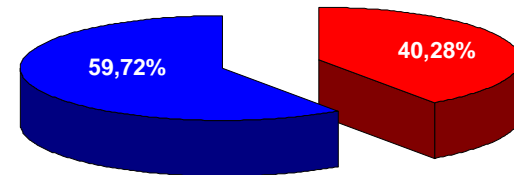
Journalists



Medical Students



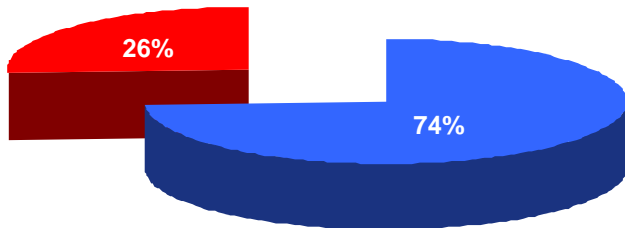
Politicians



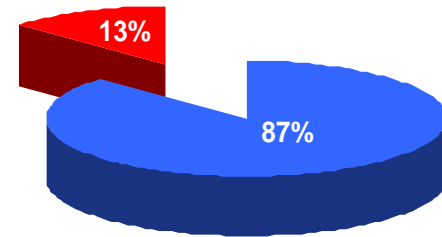
■ Male ■ Female

Knowledge of Blood Pressure

General Population



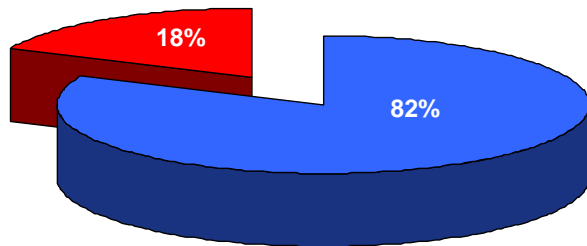
Journalists



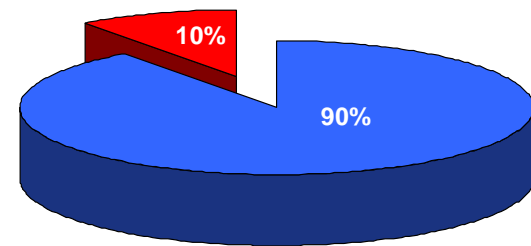
■ Know Their Blood Pressure

■ Don't know/No Answer

Medical Students

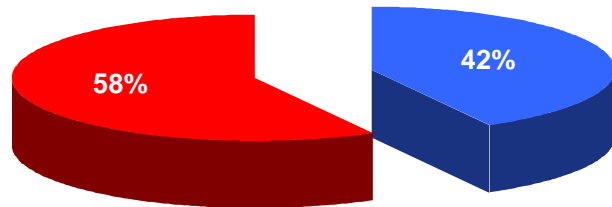


Politicians



Knowledge of Cholesterol Levels

General Population

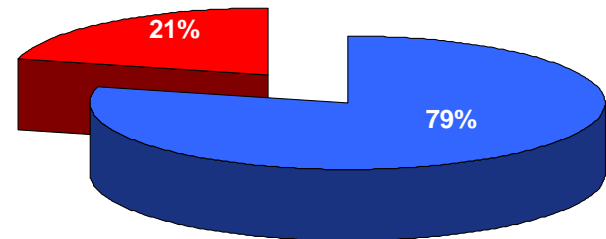


■ Know Their Level
■ Don't Know Level/No Answer

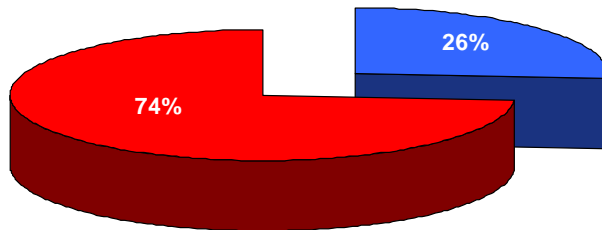
Journalists



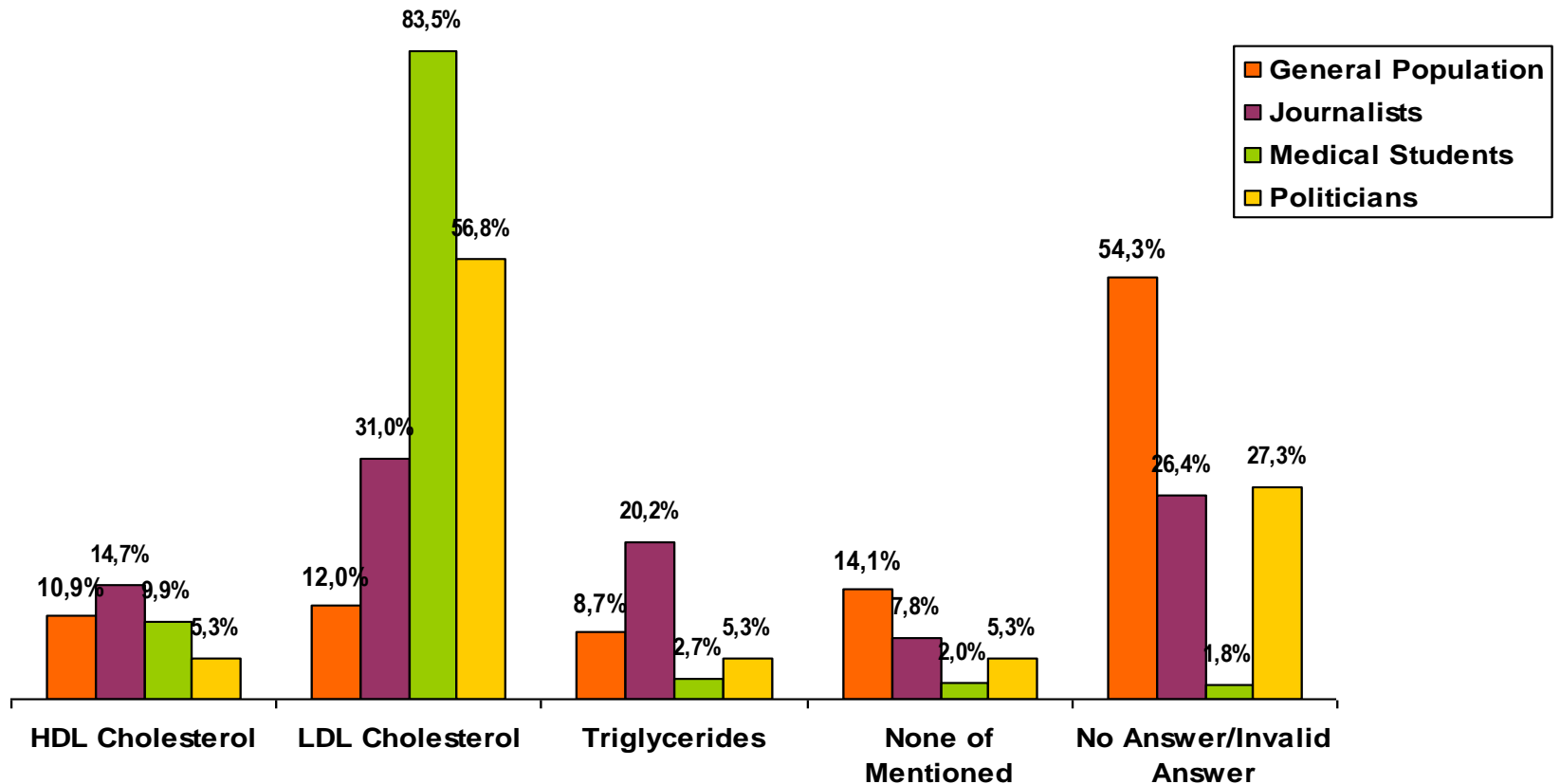
Politicians



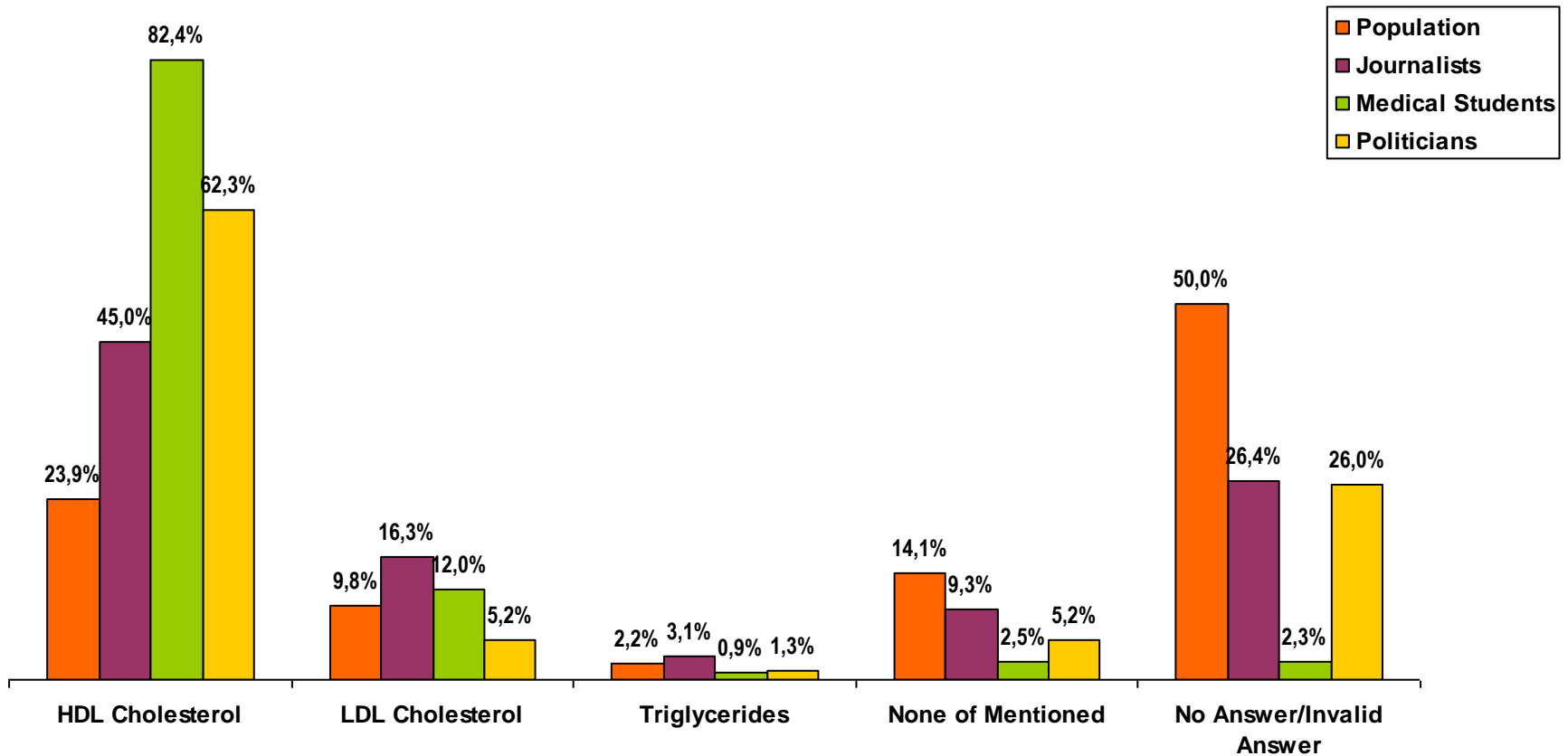
Medical Students



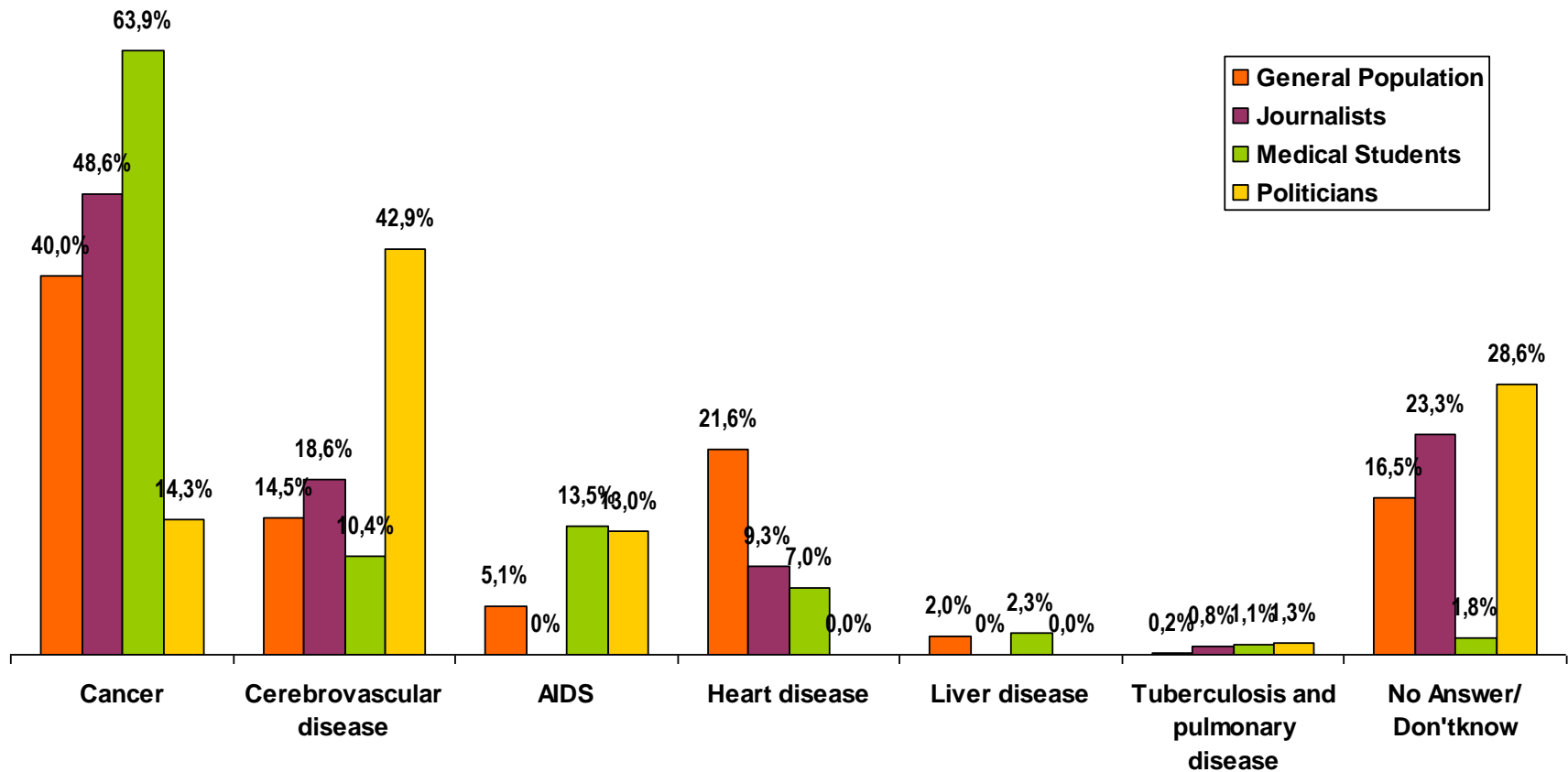
Awareness of “Bad” Cholesterol



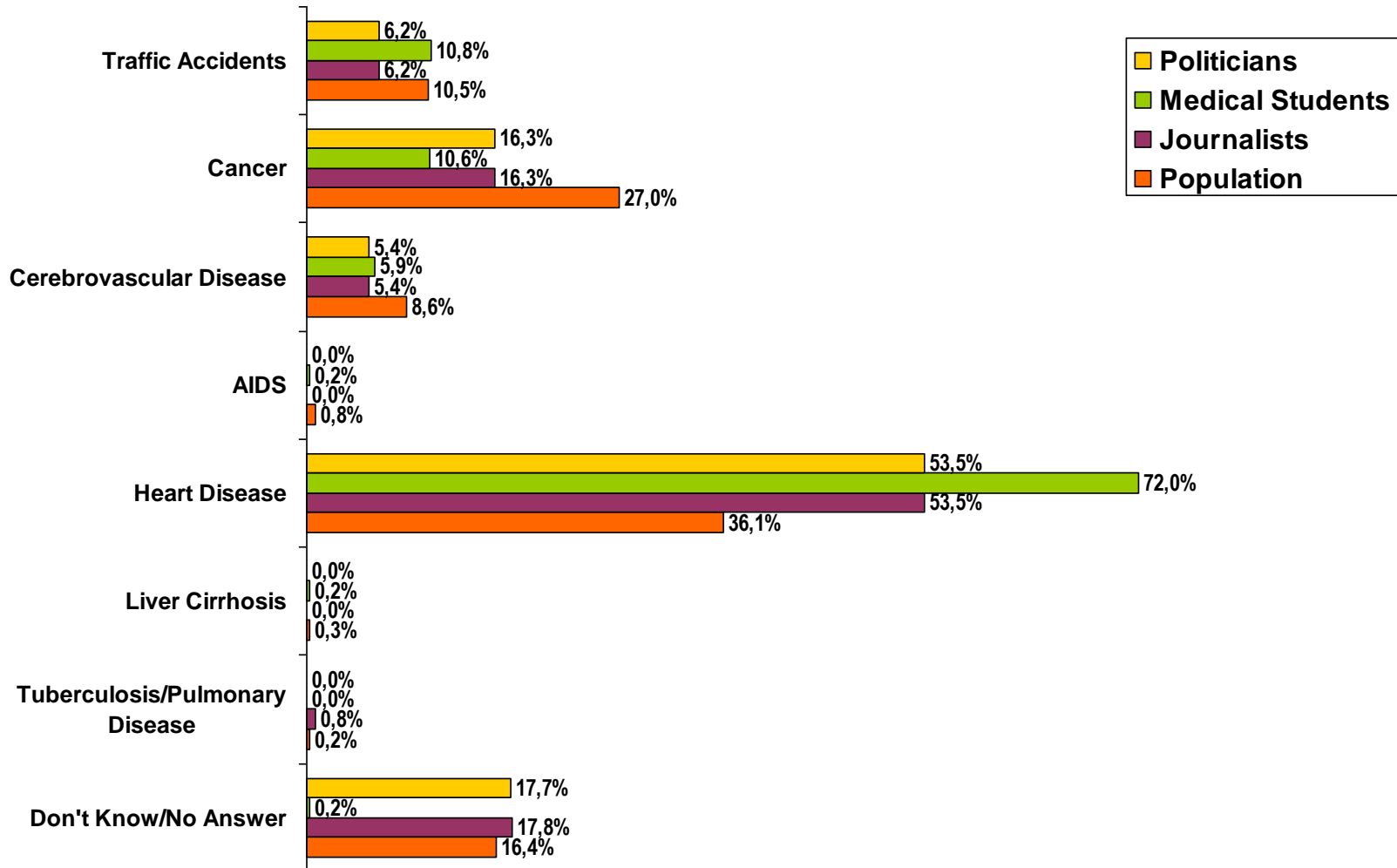
Awareness of “Good” Cholesterol



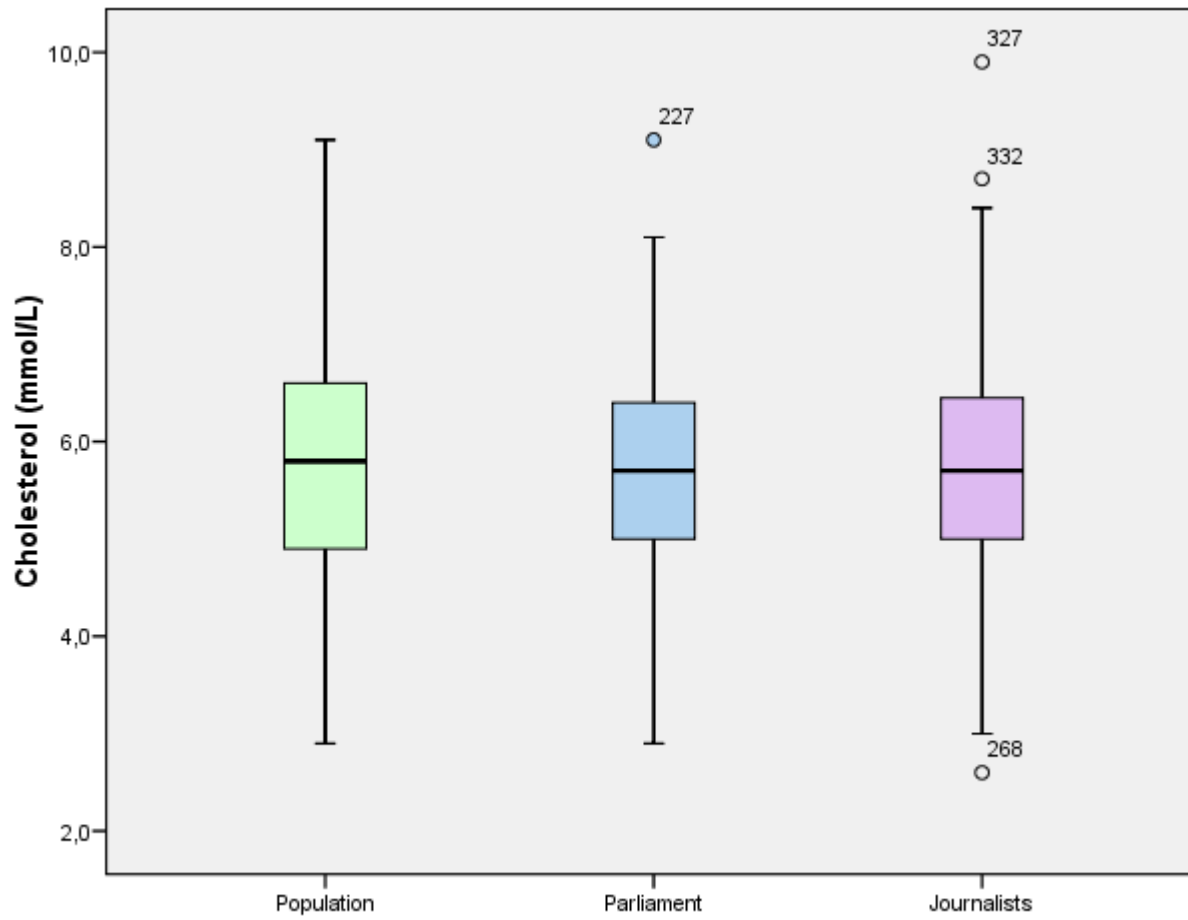
Fear of Listed Diseases



Awareness of the Leading Cause of Death

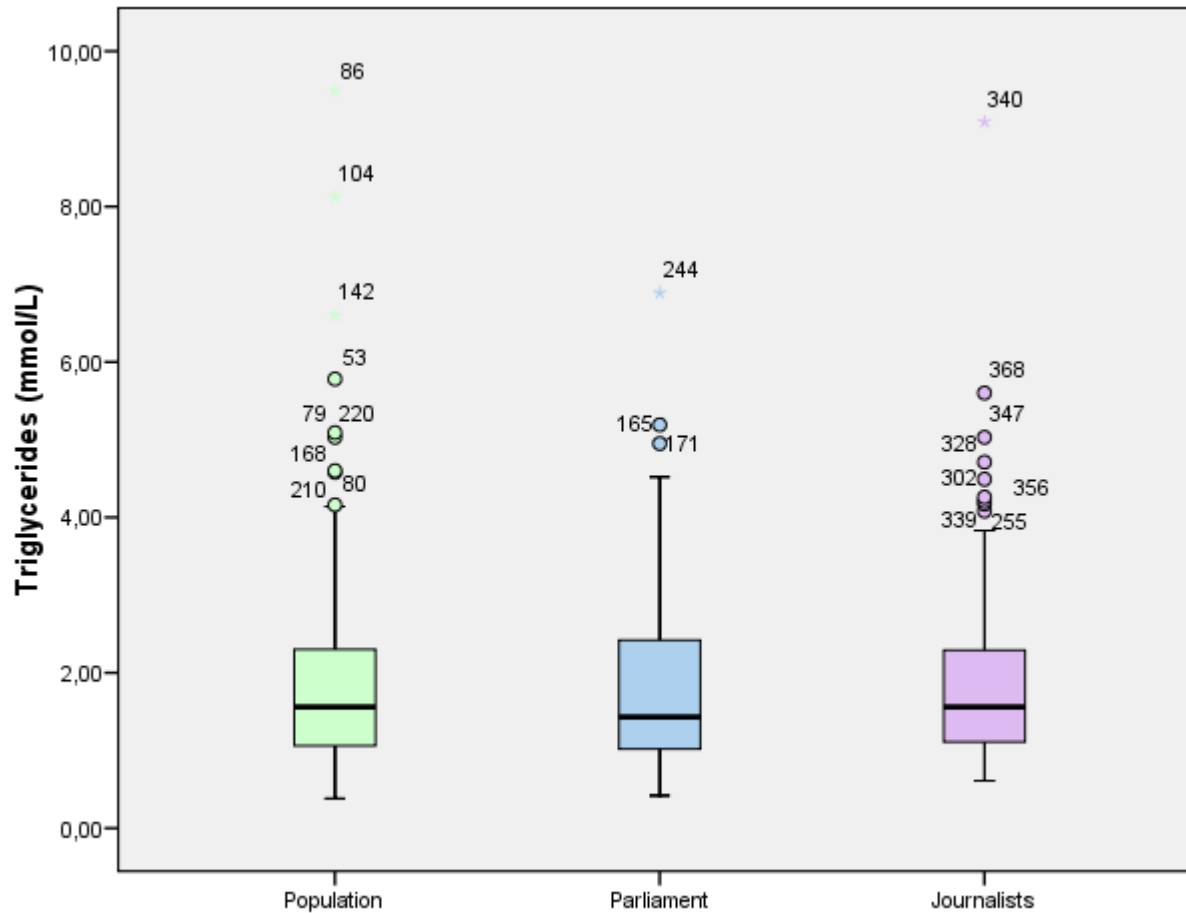


Total cholesterol



$p=0,764$

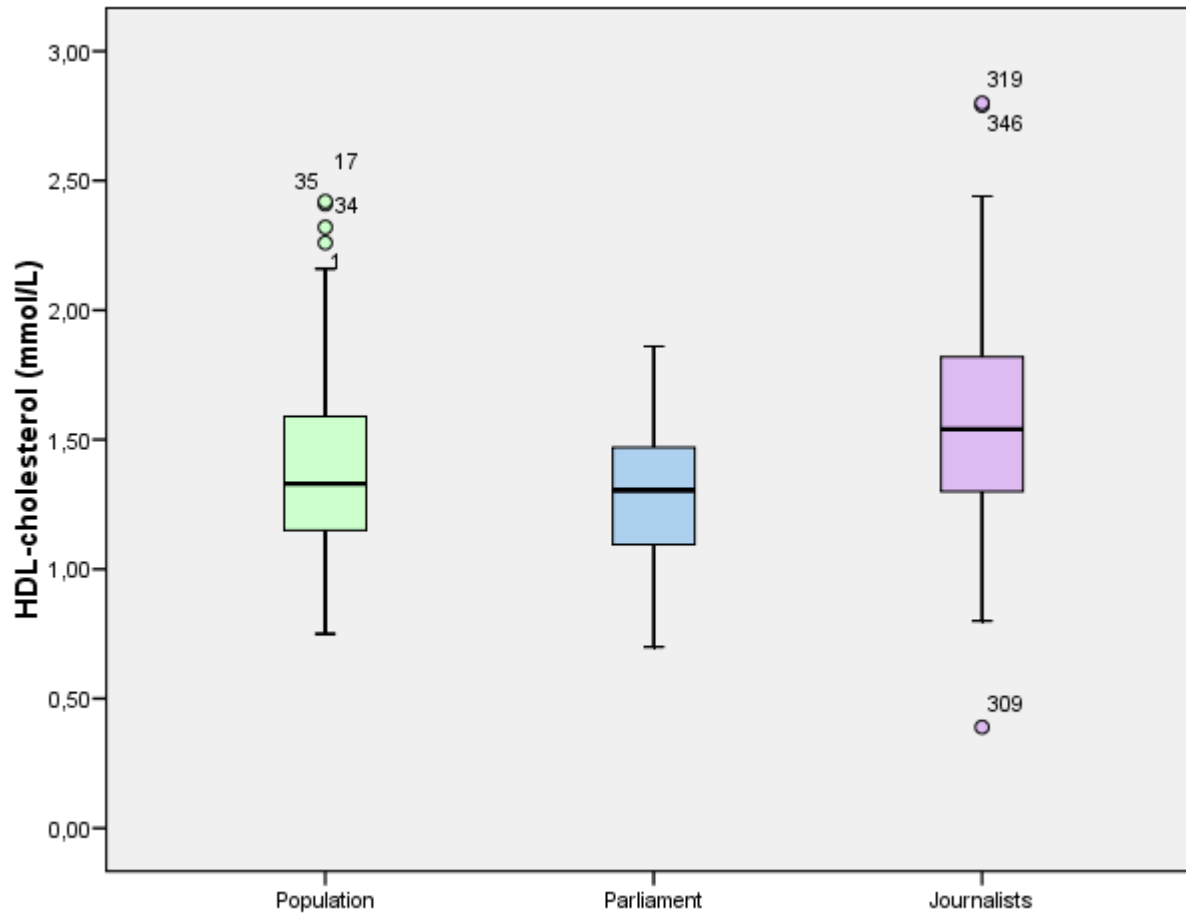
Triglycerides



$p=0,767$

Kruskal-Wallis test

HDL - cholesterol



Population : Parliament

$p=0,540$

Population : Journalists

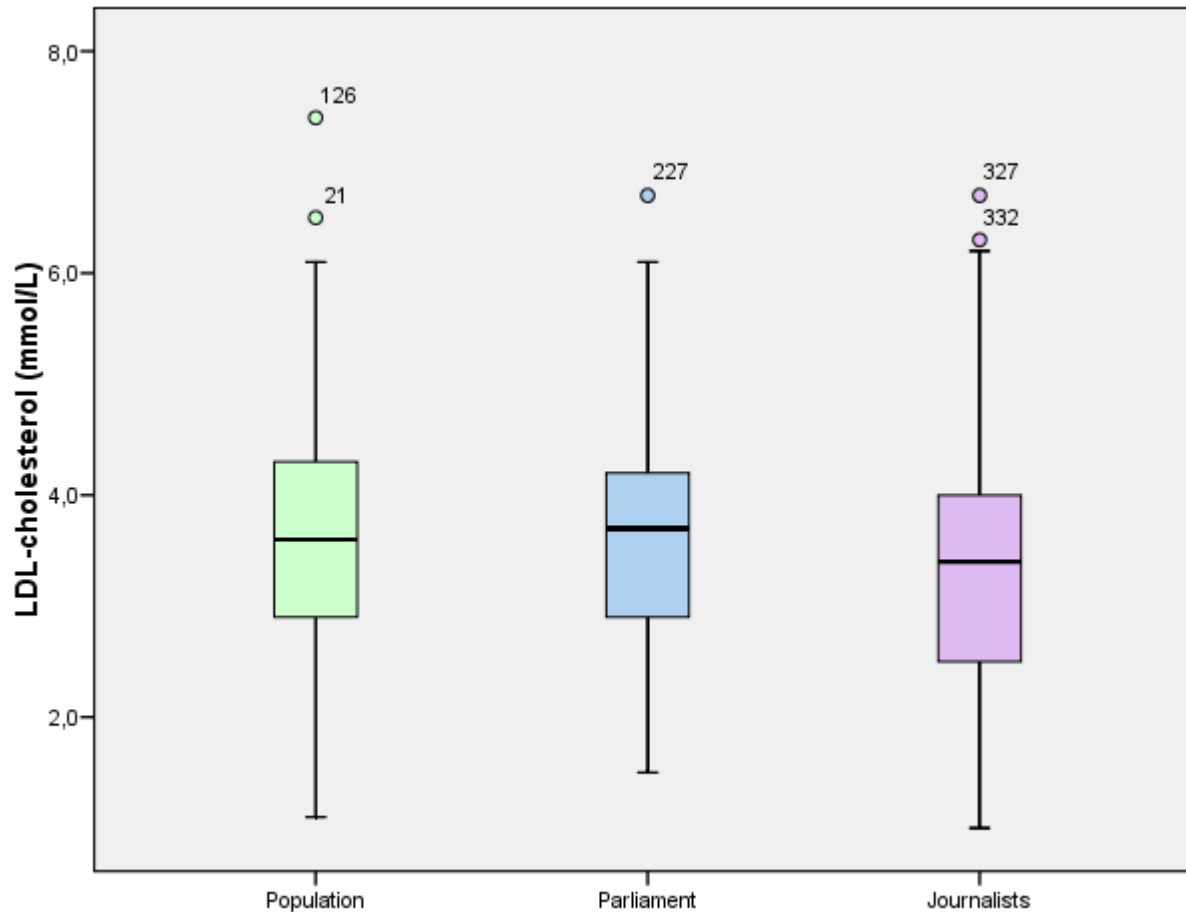
$p=0,003$

Journalists : Parliament

$p=0,003$

Mann-Whitney test with correction for multiple testing

LDL - cholesterol



Population : Parliament

$p=0,999$

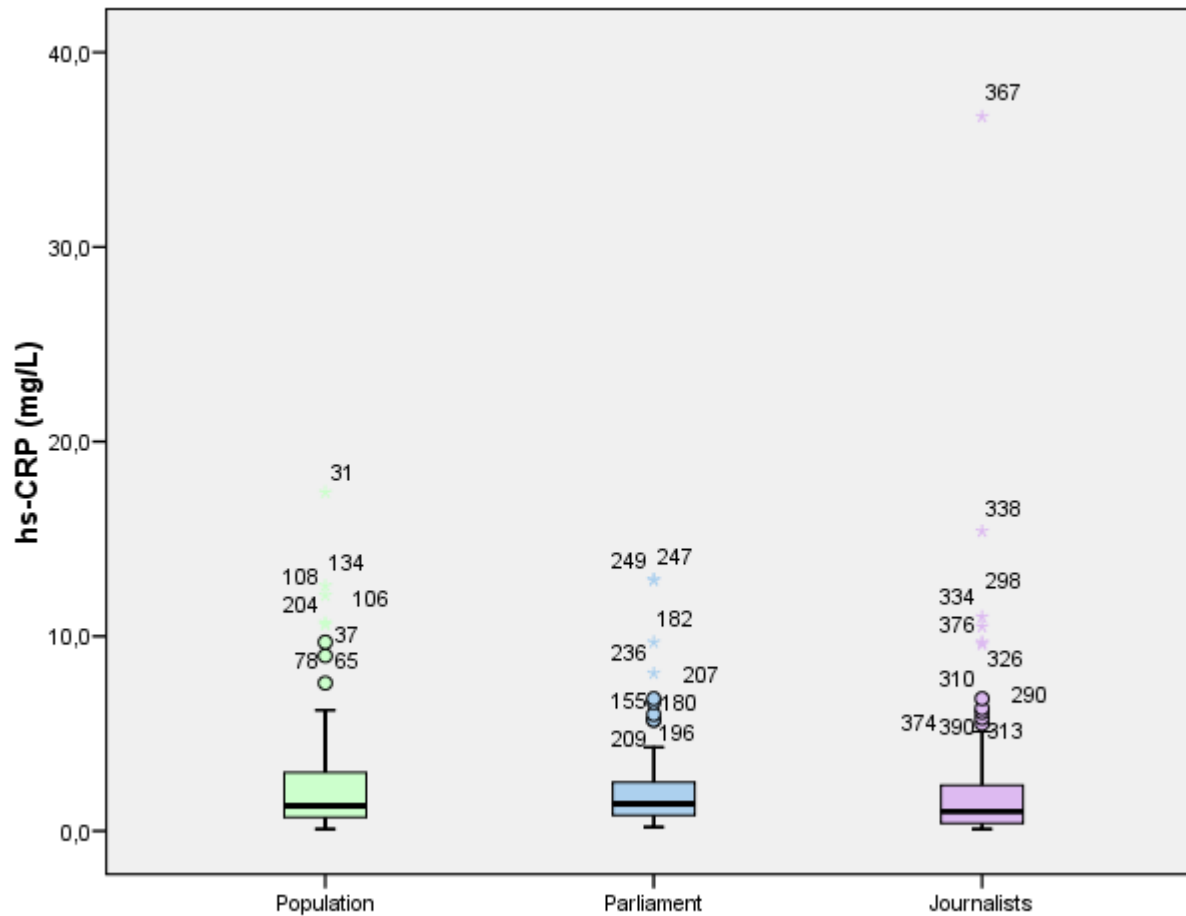
Population : Journalists

$p=0,027$

Journalists : Parliament

$p=0,045$

hs-CRP



Population : Parliament

p=0,999

Population : Journalists

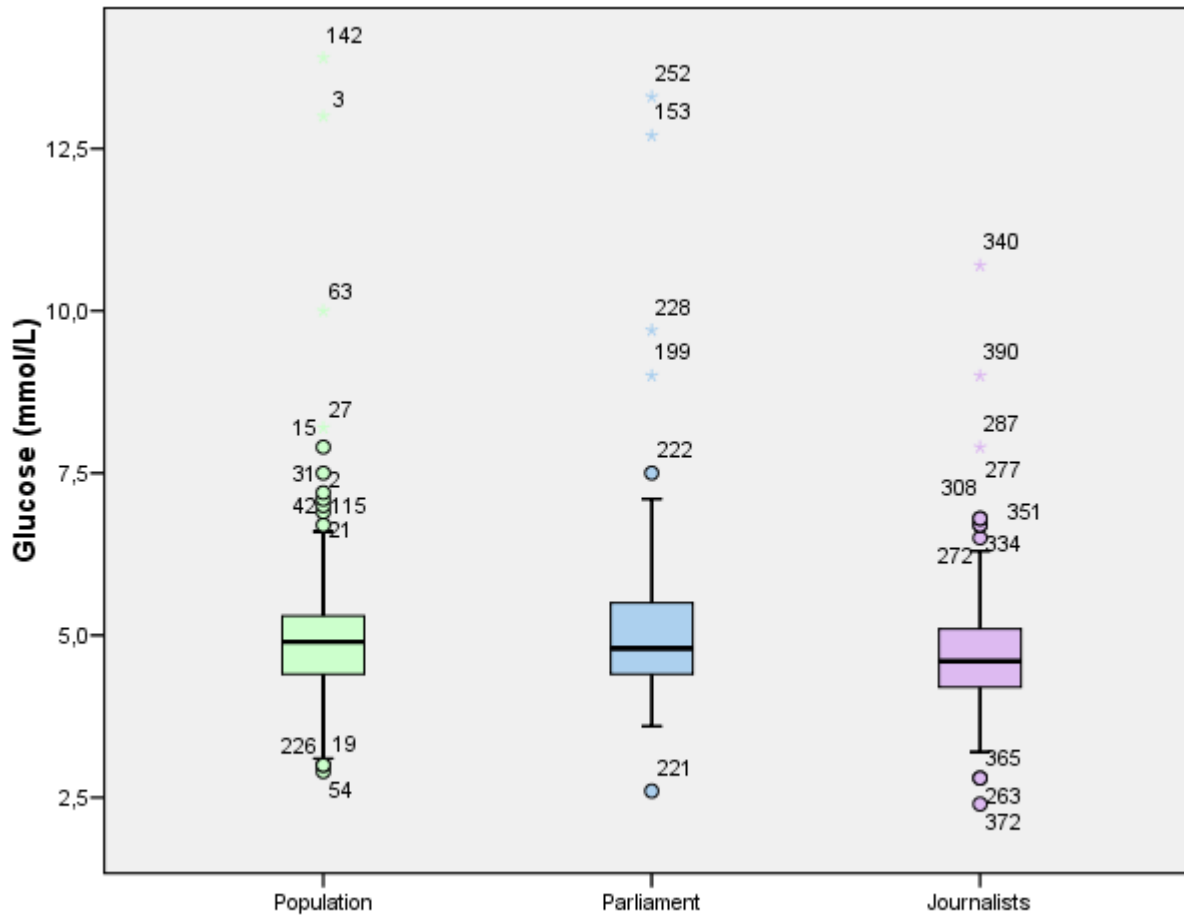
p=0,069

Journalists : Parliament

p=0,042

Mann-Whitney test with correction for multiple testing

Glucose



Population : Parliament

$p=0,999$

Population : Journalists

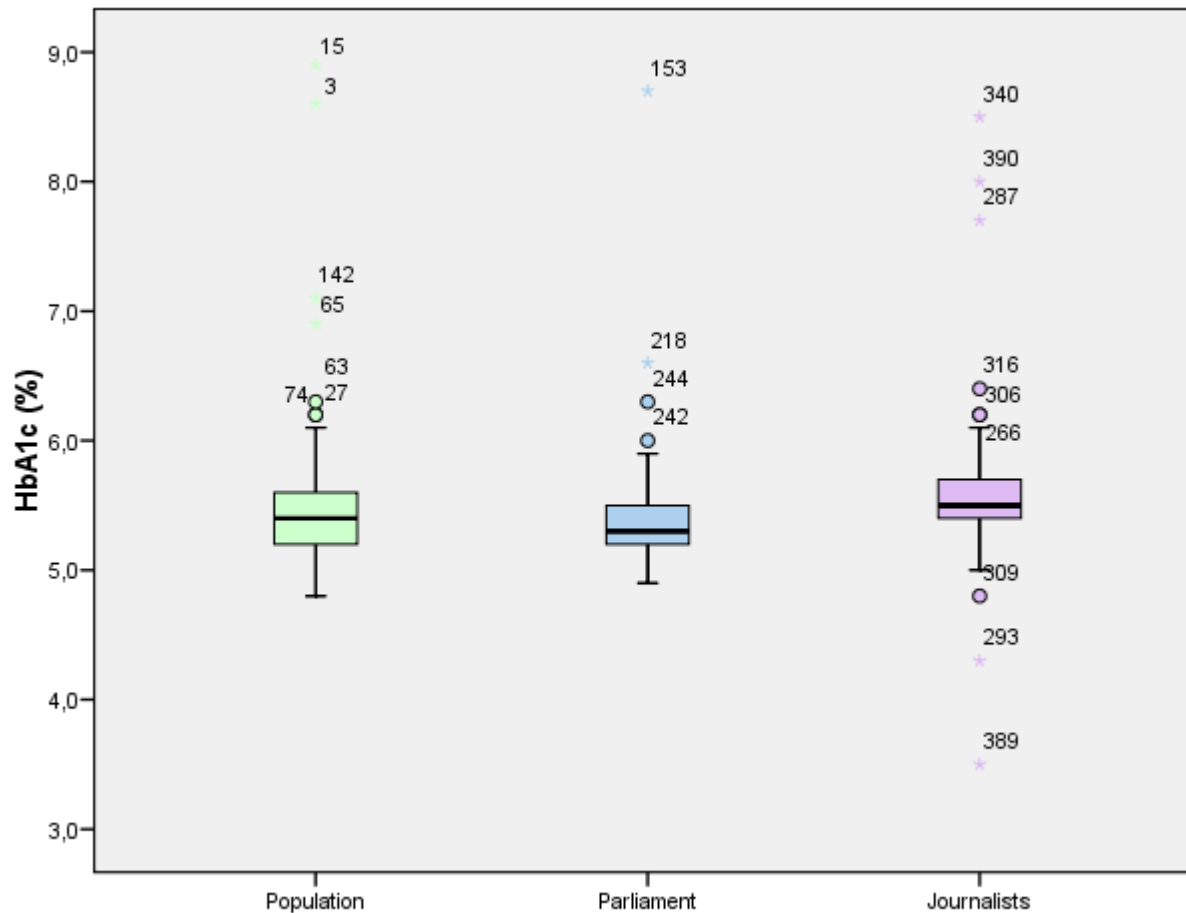
$p=0,015$

Journalists : Parliament

$p=0,100$

Mann-Whitney test with correction for multiple testing

HbA1c



Population : Parliament

$p=0,876$

Population : Journalists

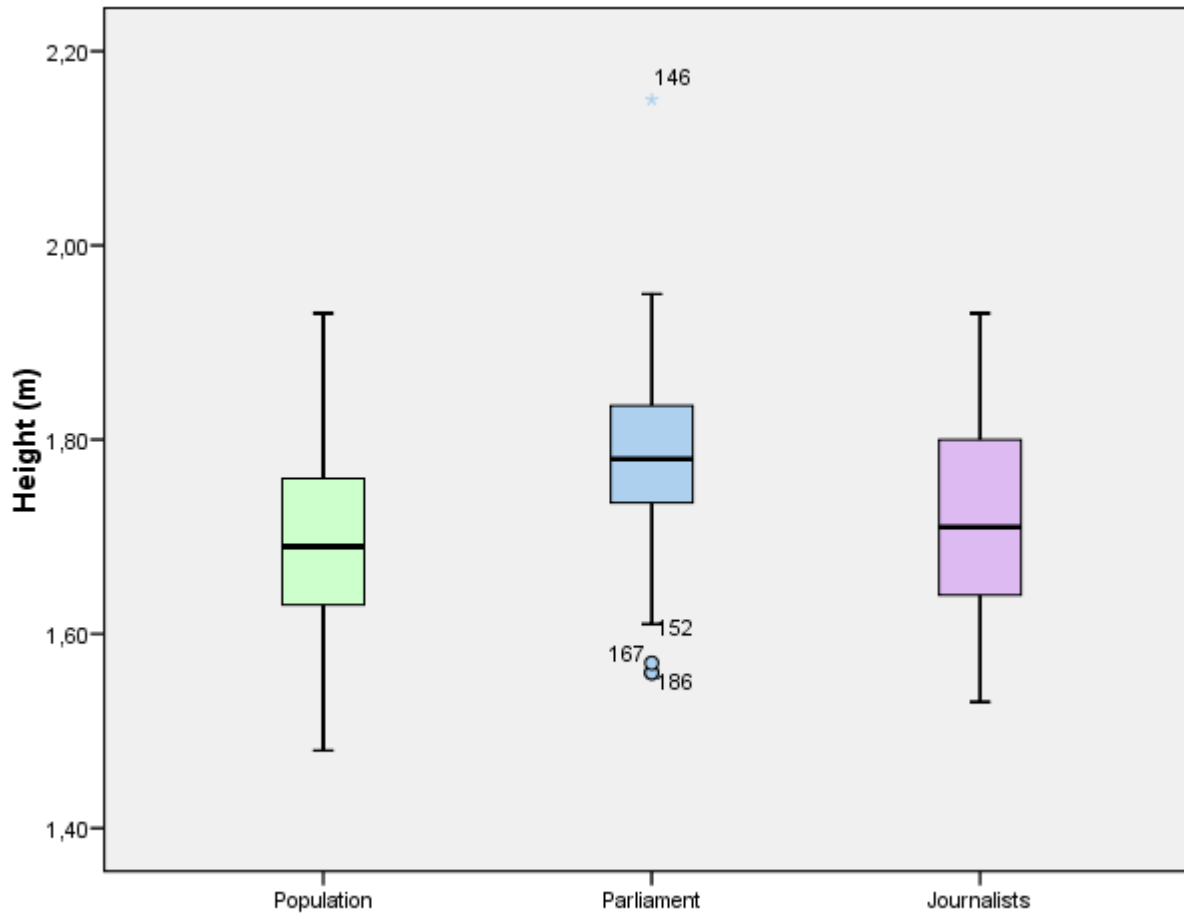
$p=0,003$

Journalists : Parliament

$p=0,003$

Mann-Whitney test with correction for multiple testing

Height



Population : Parliament

p=0,003

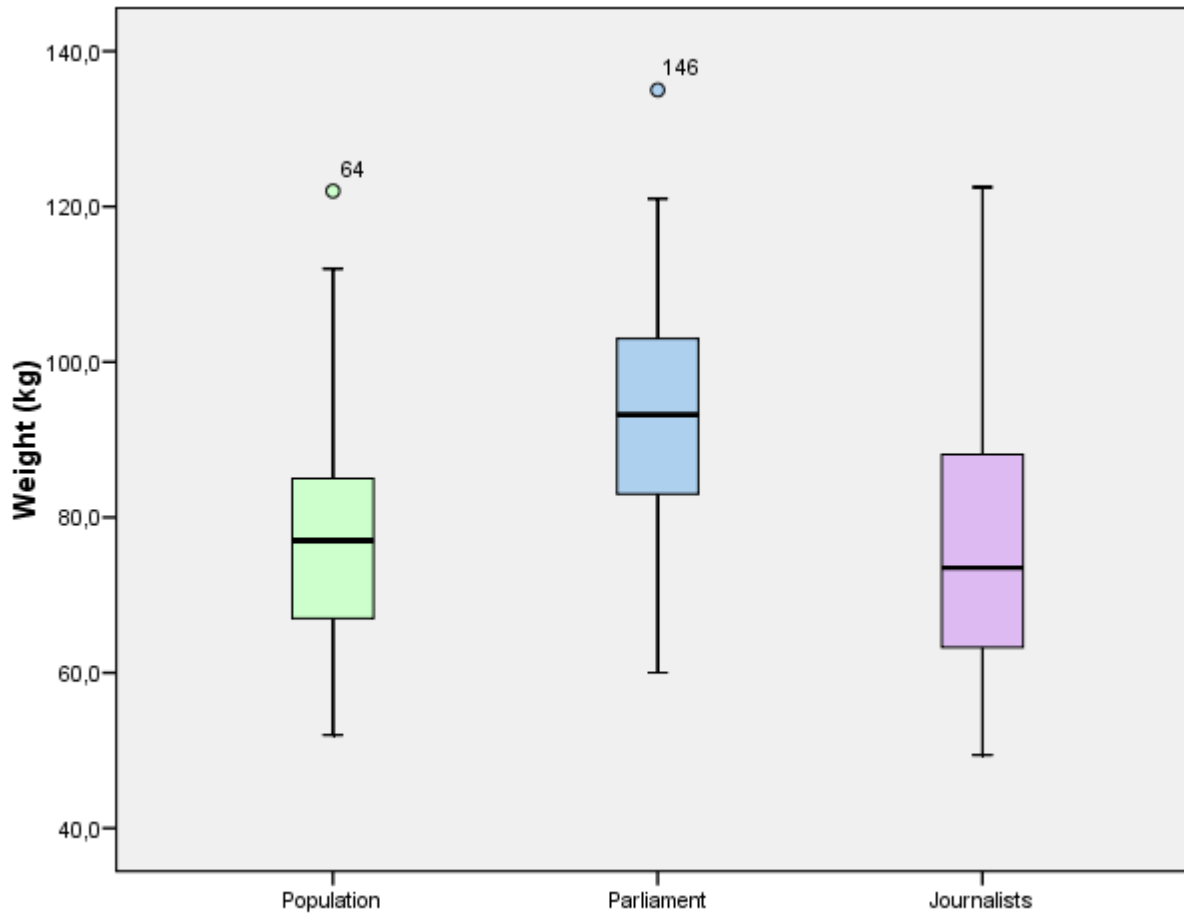
Population : Journalists

p=0,390

Journalists : Parliament

p=0,003

Weight



Population : Parliament

p=0,003

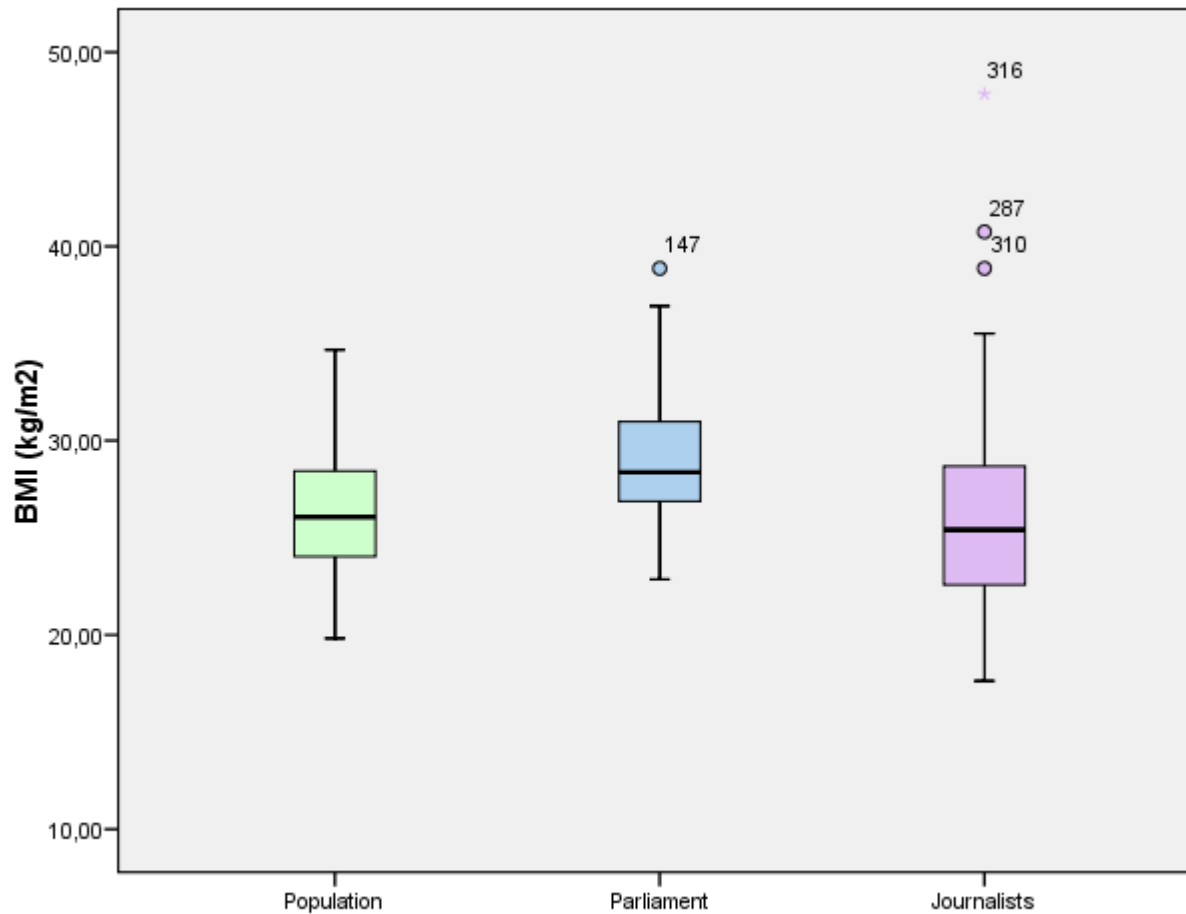
Population : Journalists

p=0,999

Journalists : Parliament

p=0,003

BMI



Population : Parliament

p=0,003

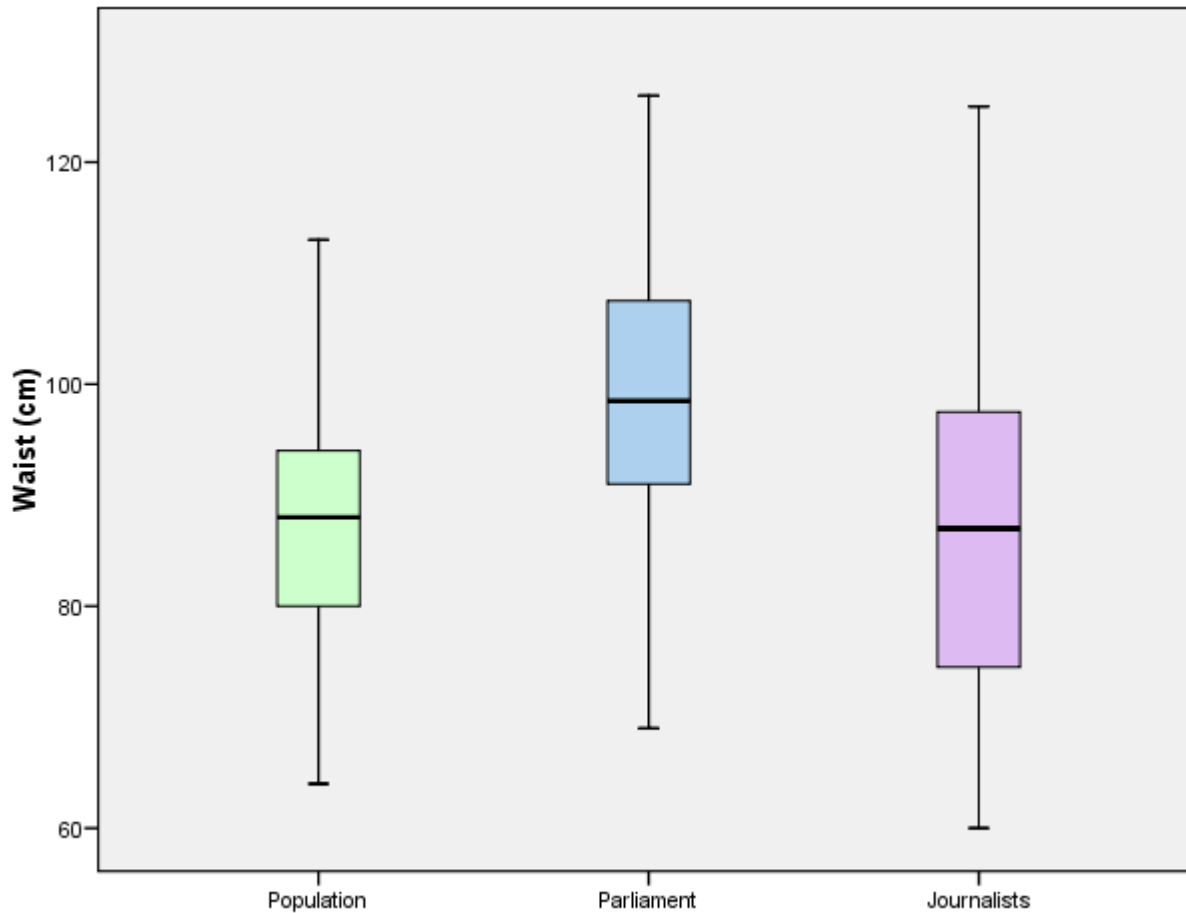
Population : Journalists

p=0,681

Journalists : Parliament

p=0,003

Waist



Population : Parliament

p=0,003

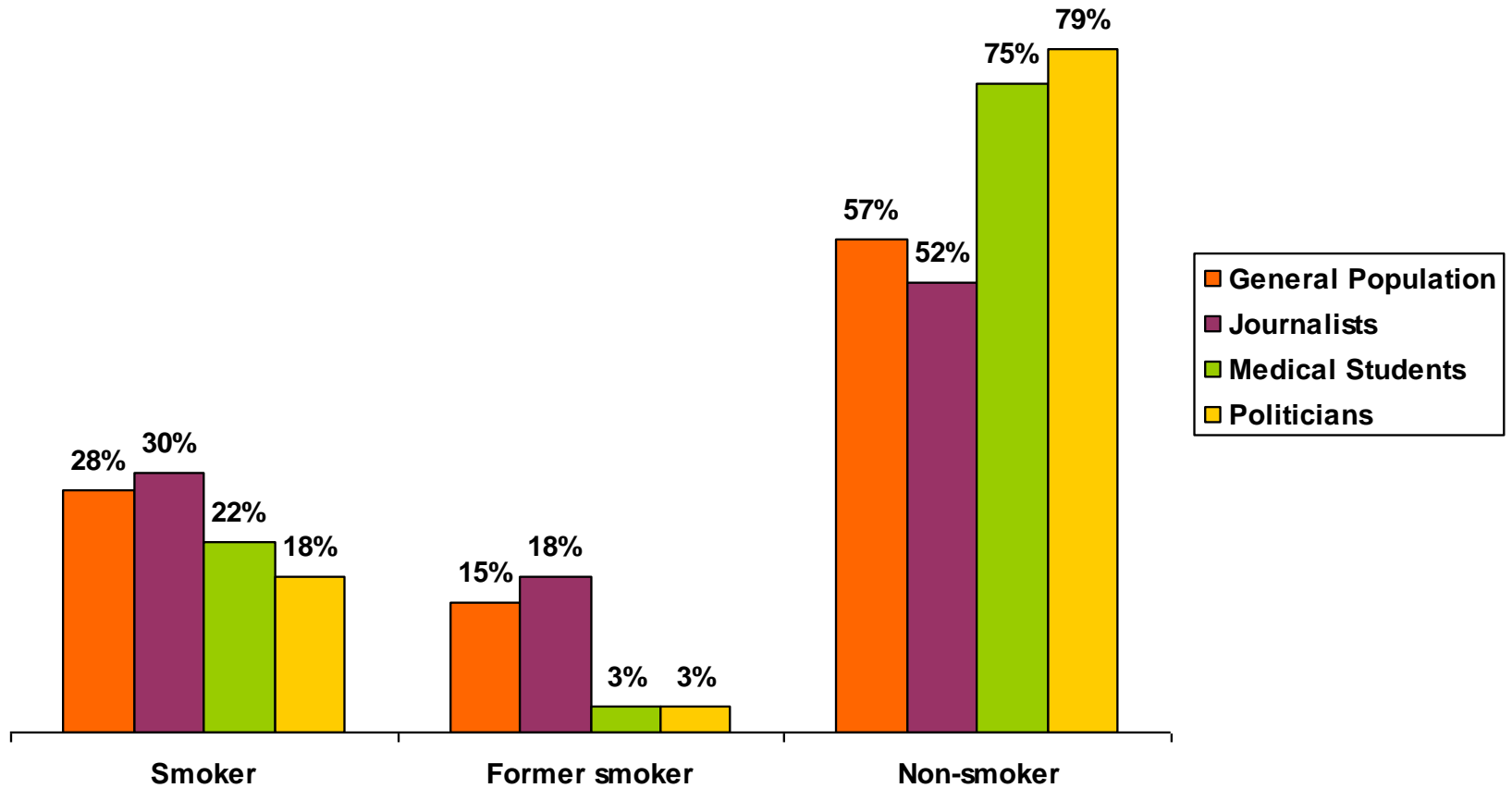
Population : Journalists

p=0,999

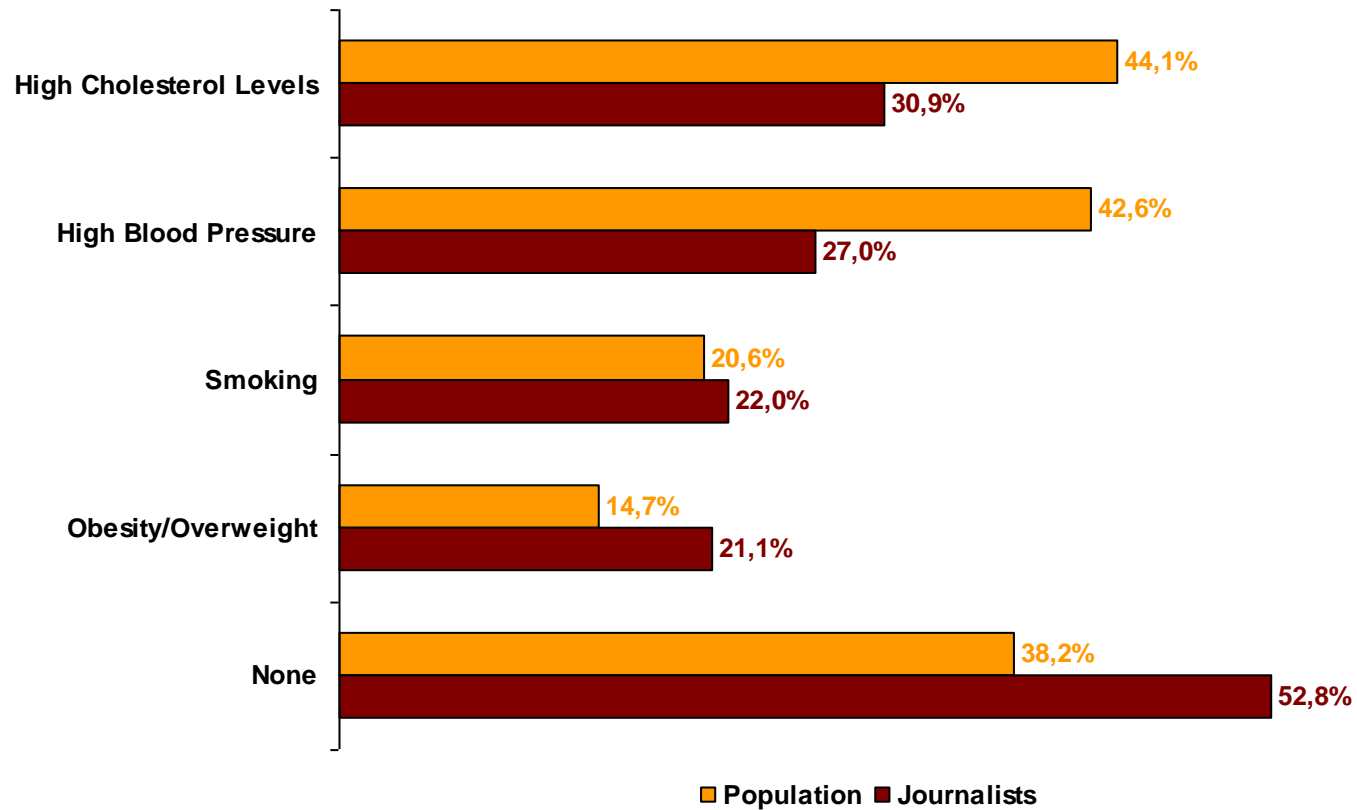
Journalists : Parliament

p=0,003

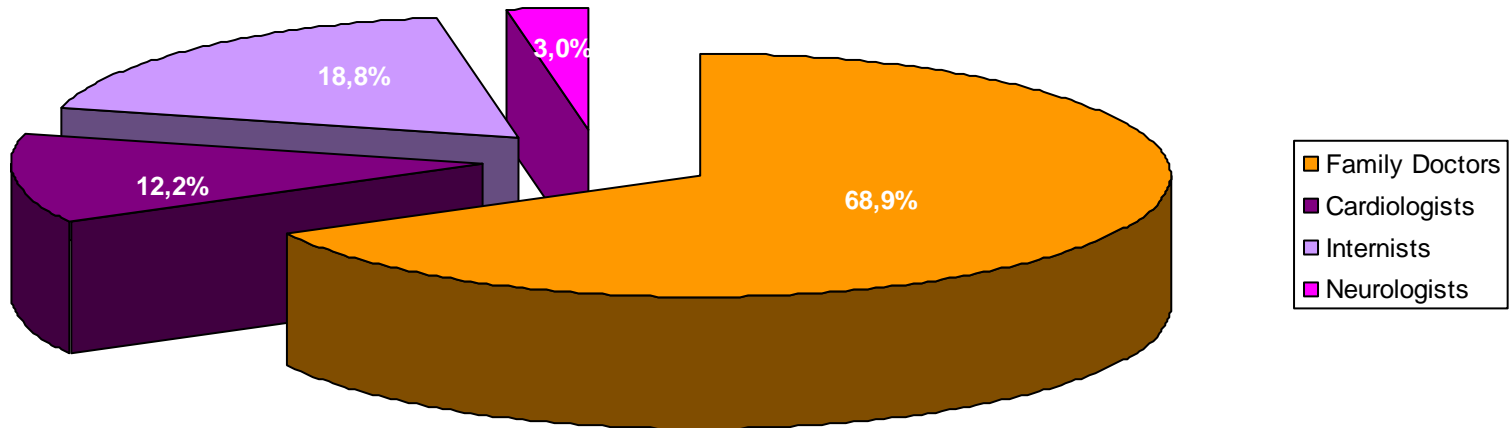
Smoking Habits



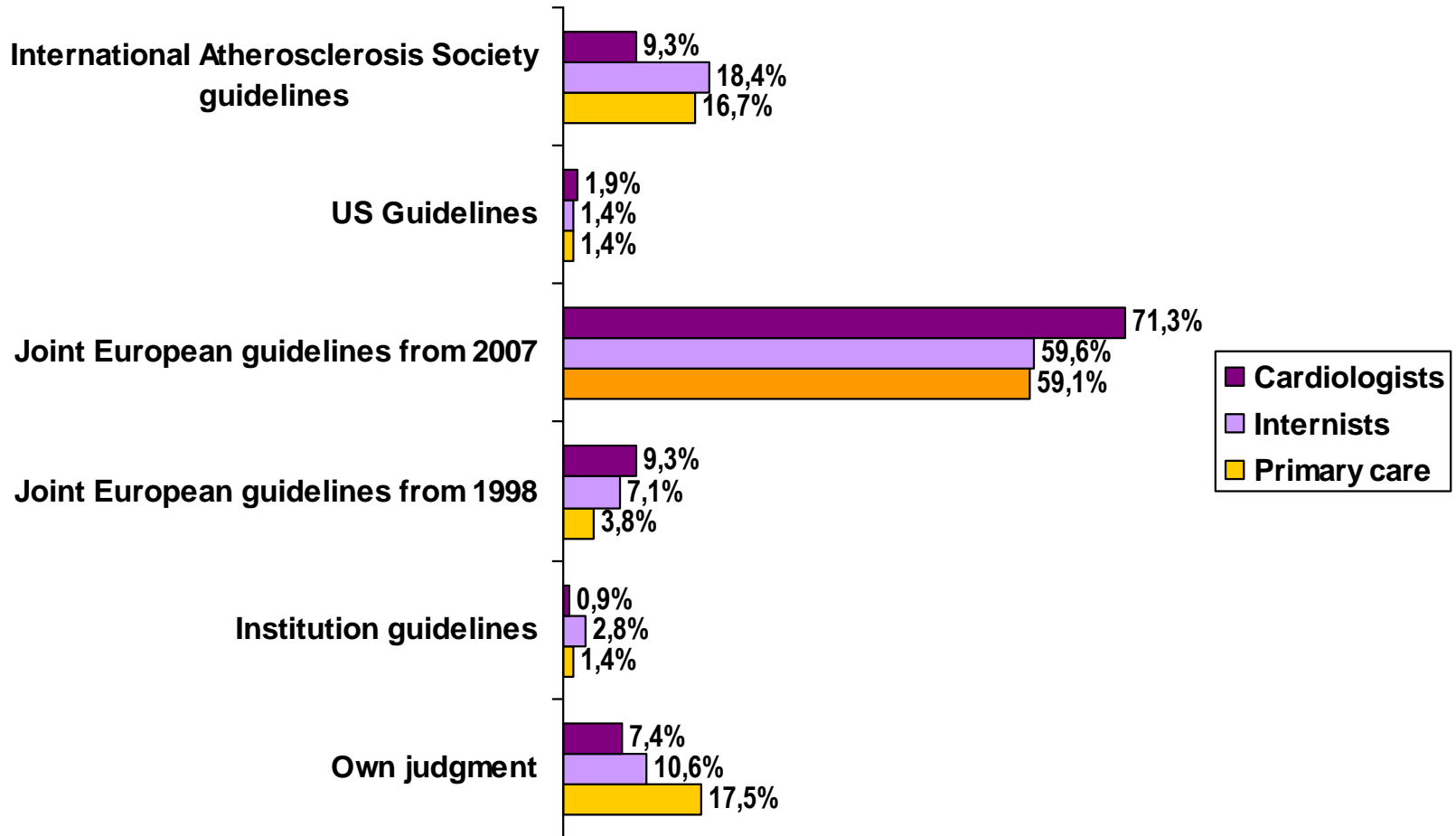
GP informed about the CV risks



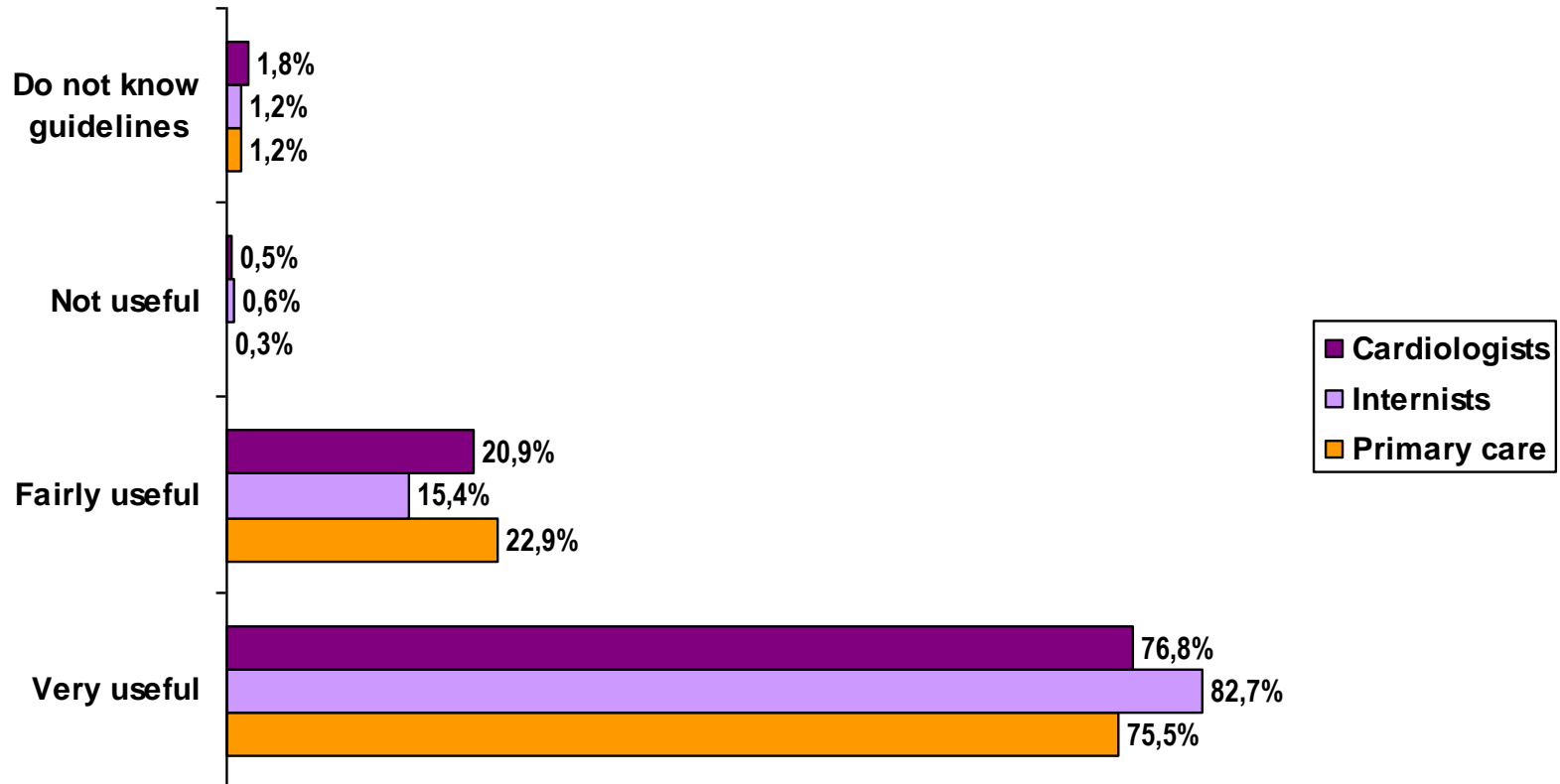
Doctors by Speciality



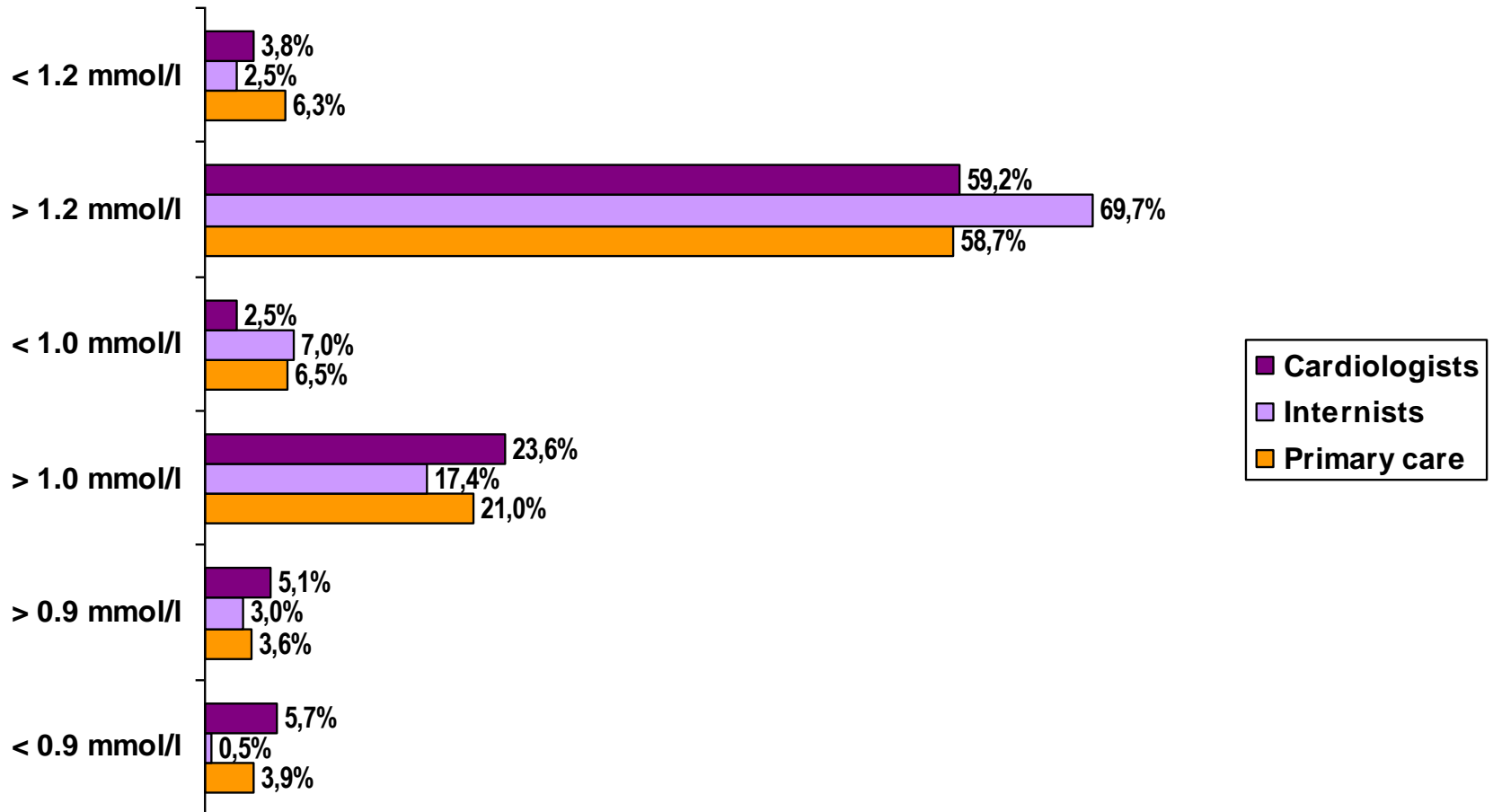
Following of CVD Prevention Guidelines by Speciality



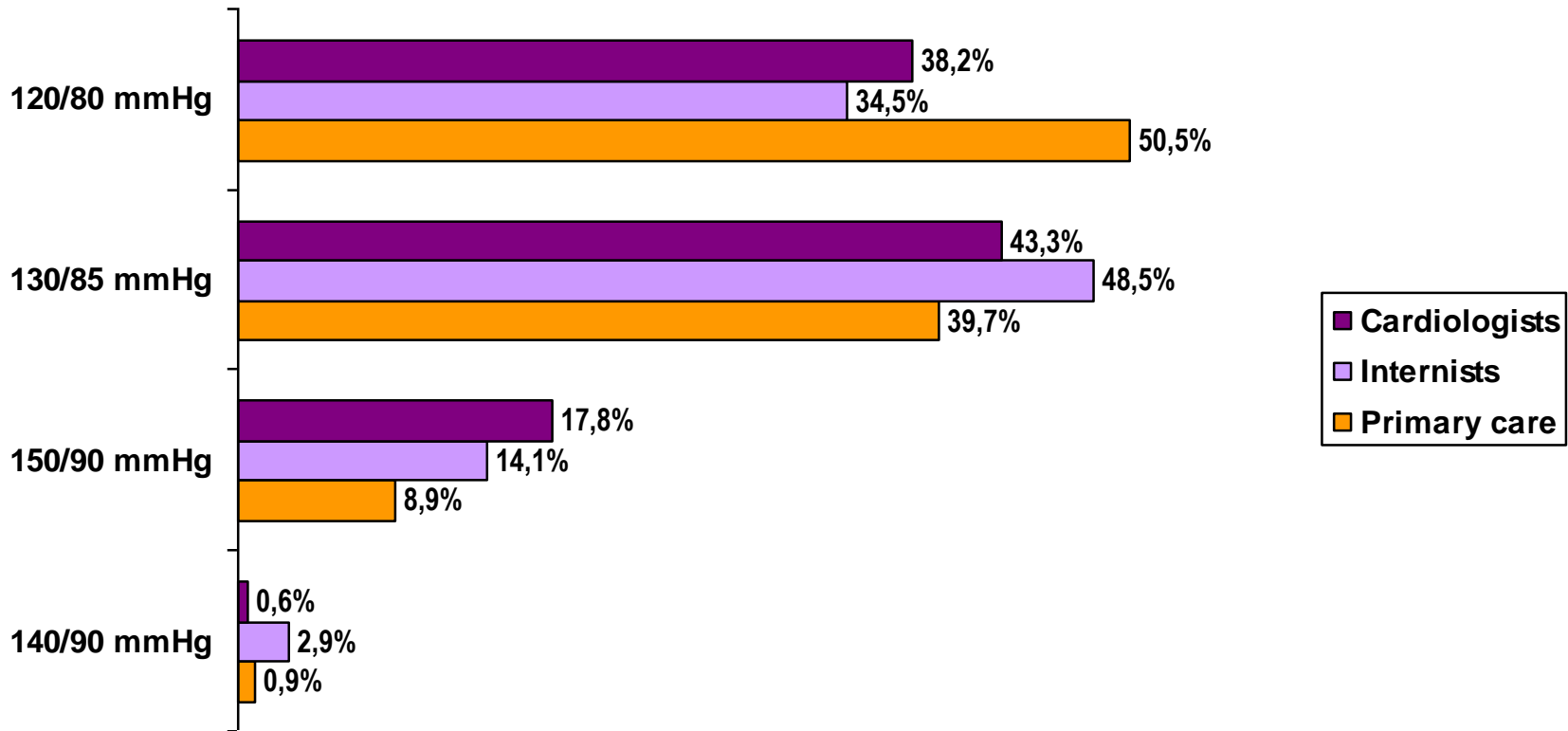
Guidelines' usefulness



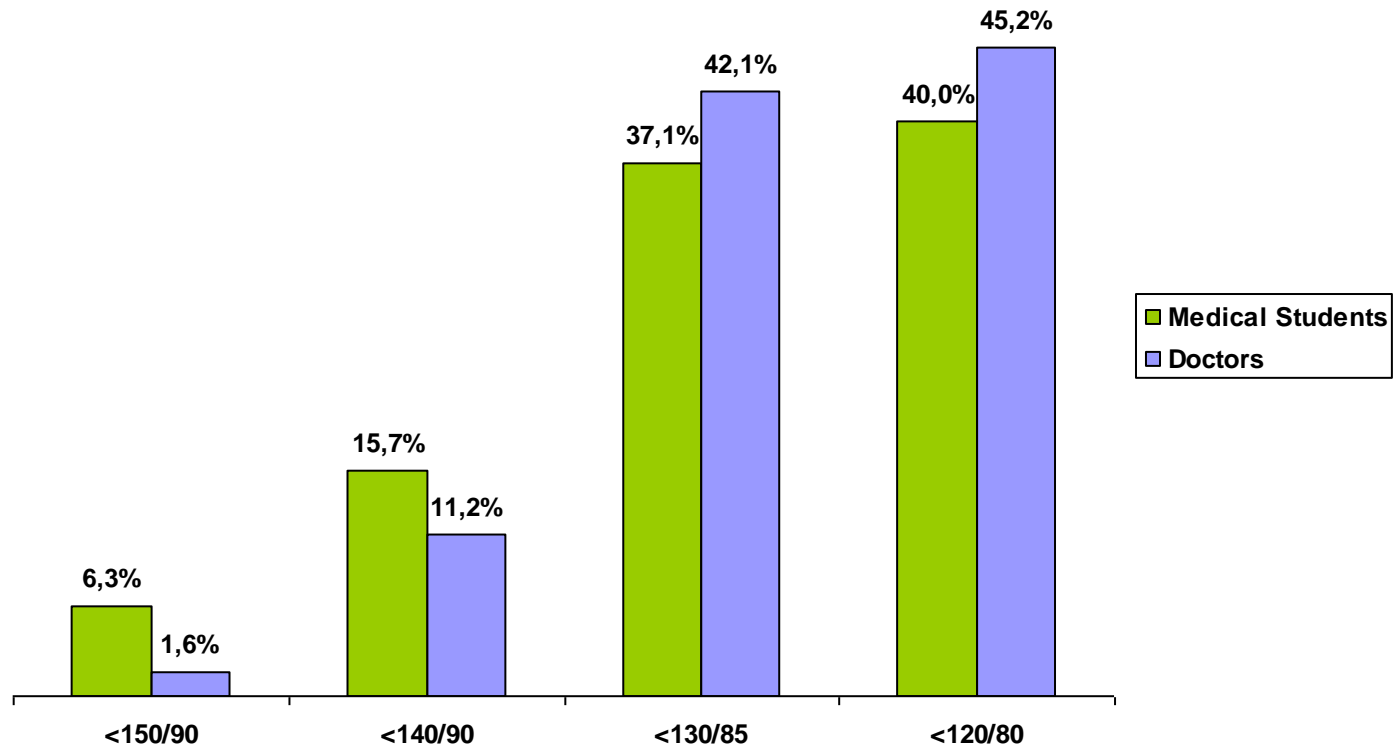
Knowledge of Joint European guidelines recommendation for HDL-cholesterol in women



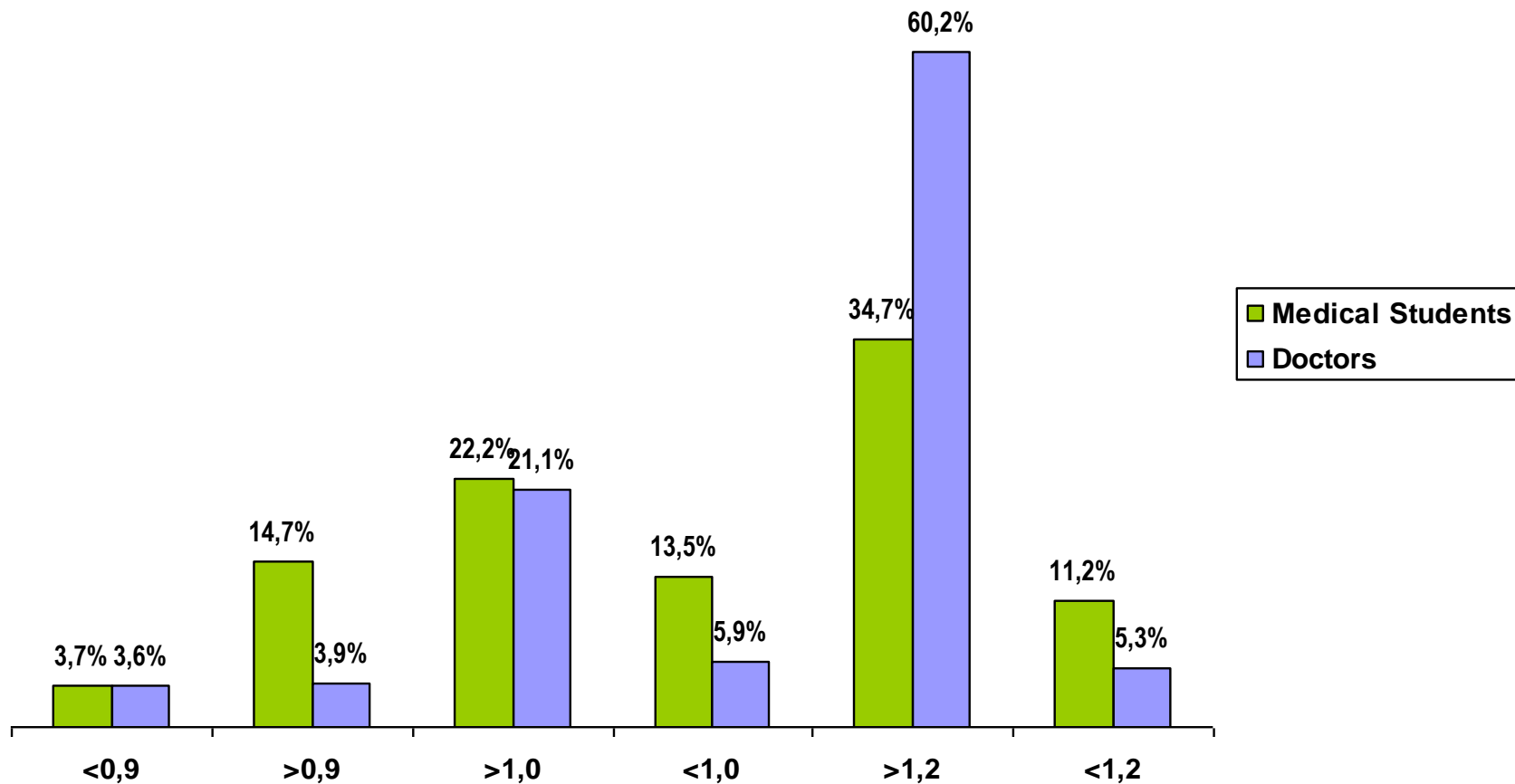
Knowledge of Joint European CVD Prevention Guidelines recommendation for blood pressure in high risk patients



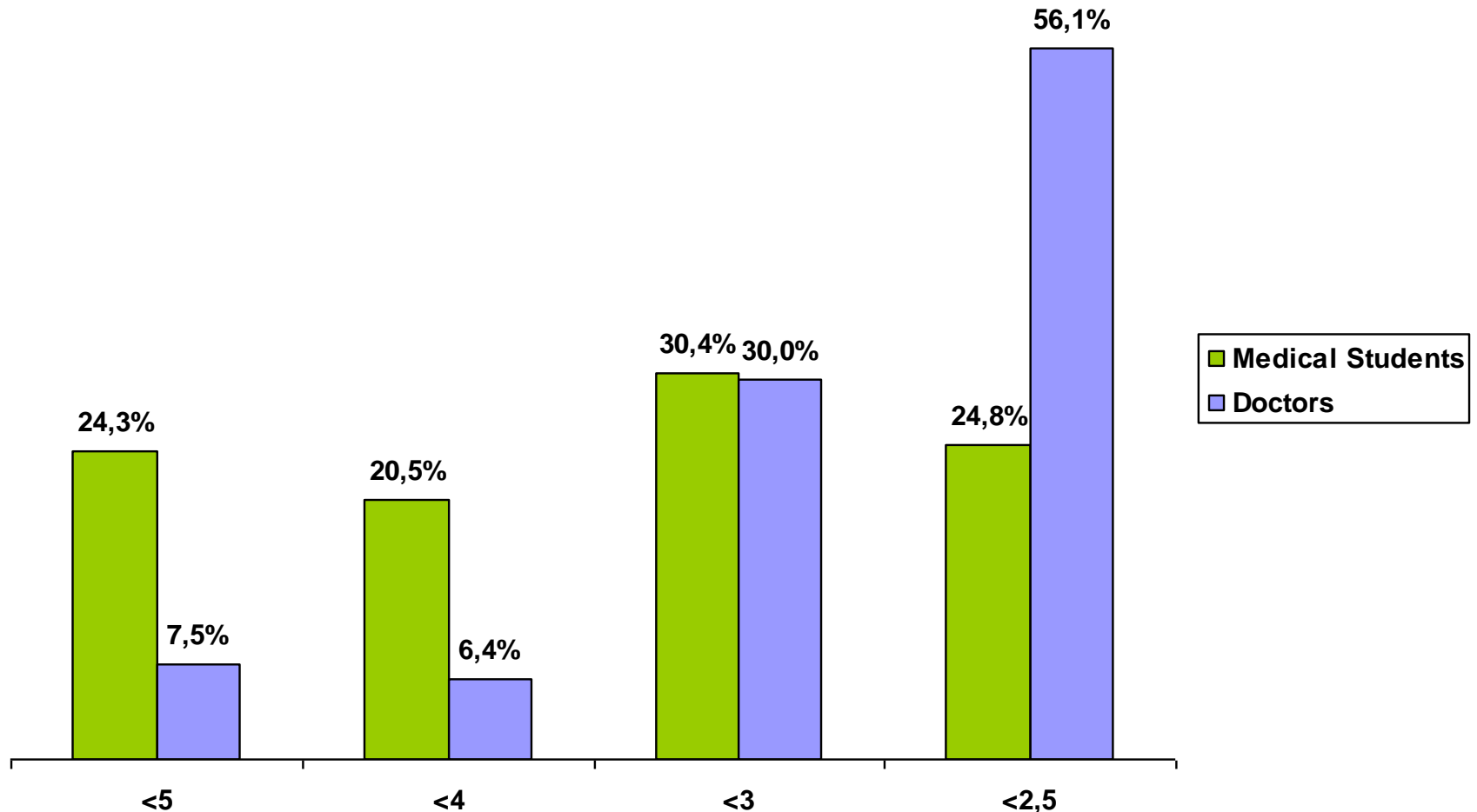
Knowledge on optimal blood pressure in high risk patients



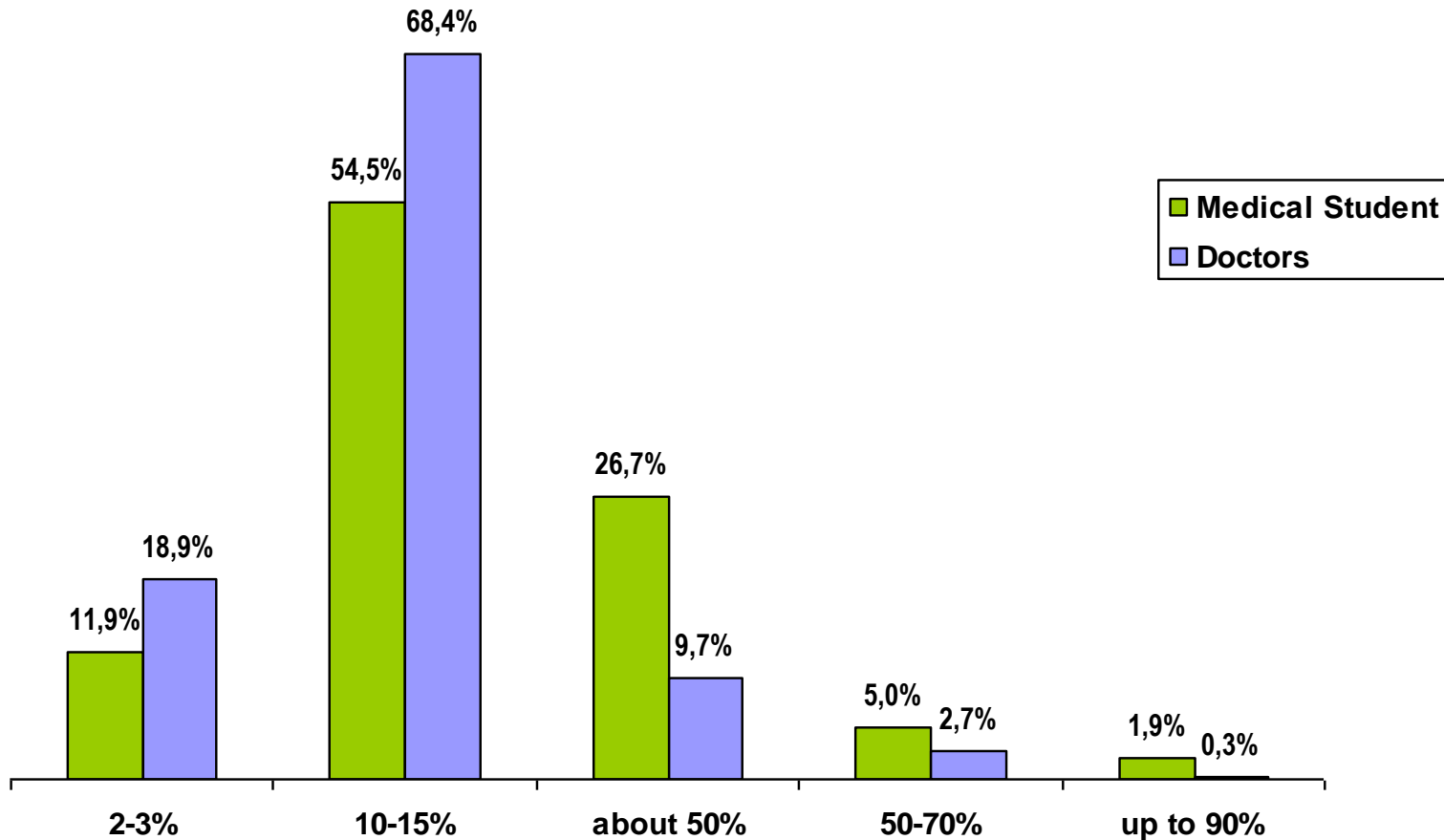
Knowledge of recommended HDL-cholesterol in women (mmol/l)



Knowledge on recommended LDL-cholesterol in patients with diabetes (mmol/l)

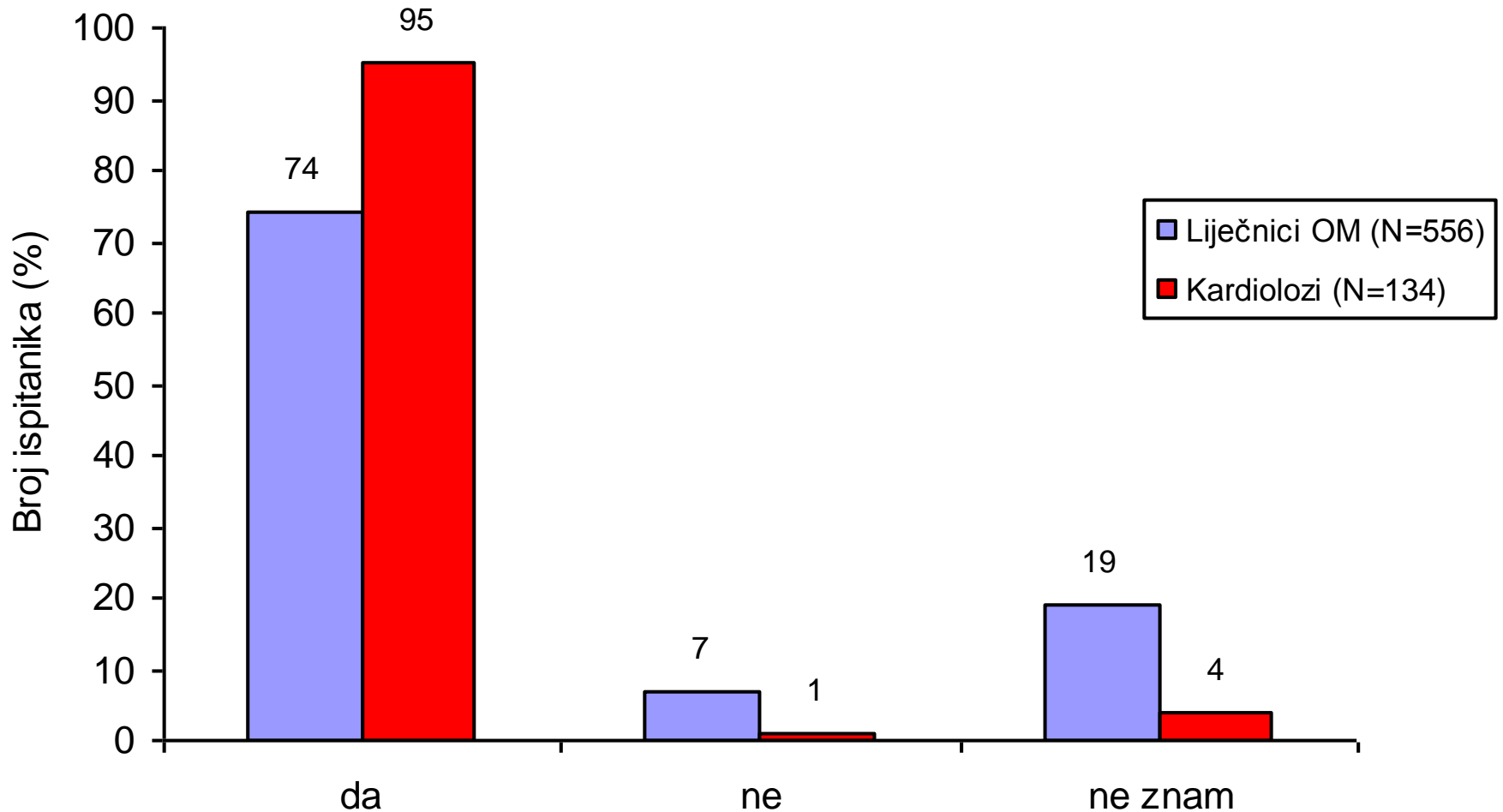


Lowering cholesterol with diet



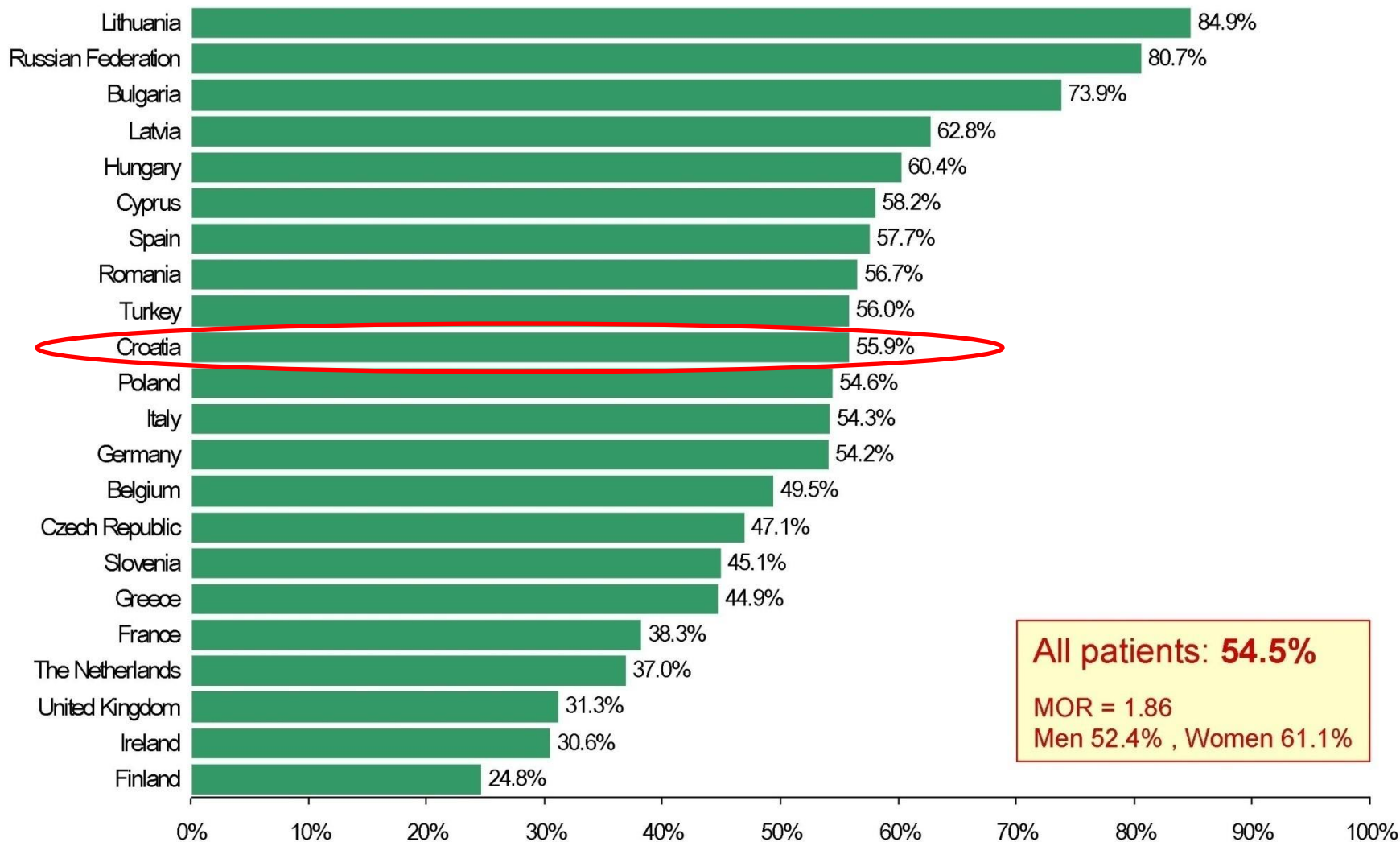
Do you Believe you Treat Well Your Patients with Hyperlipidemia?

Smatrate li da dobro liječite svoje bolesnike hipelipidemijom



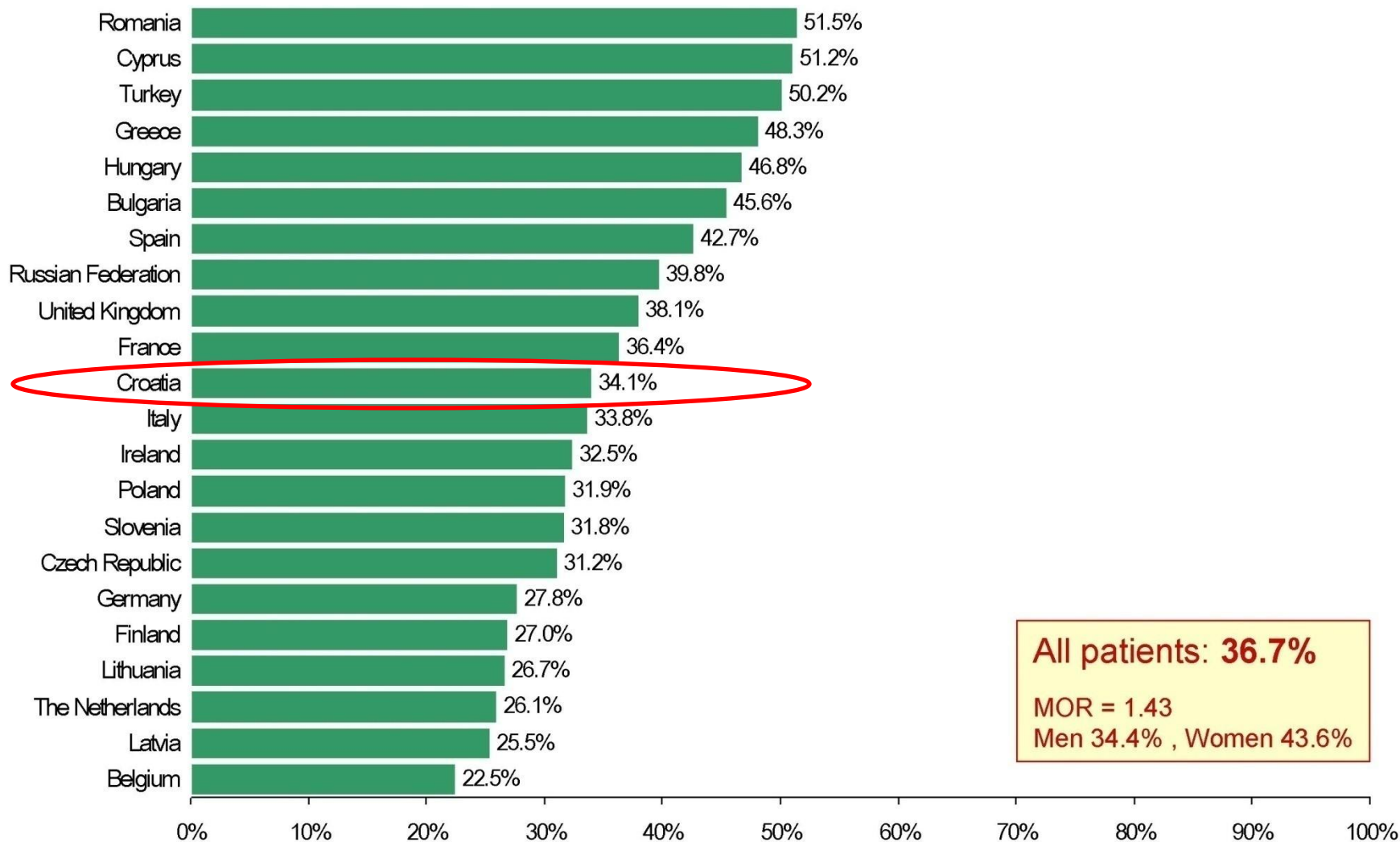


Prevalence of raised LDL cholesterol (≥ 2.5 mmol/L)





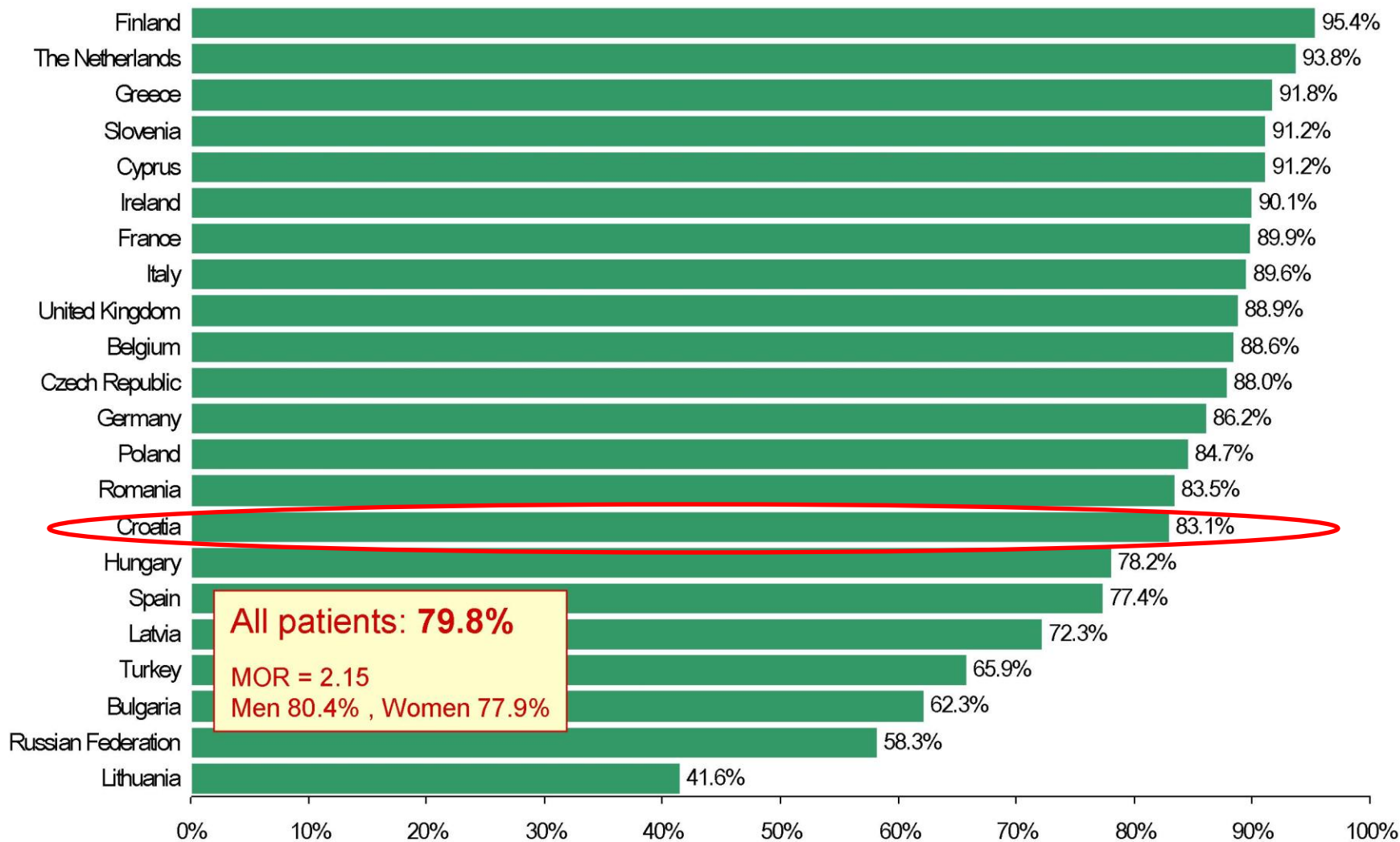
Prevalence of lowered HDL cholesterol*

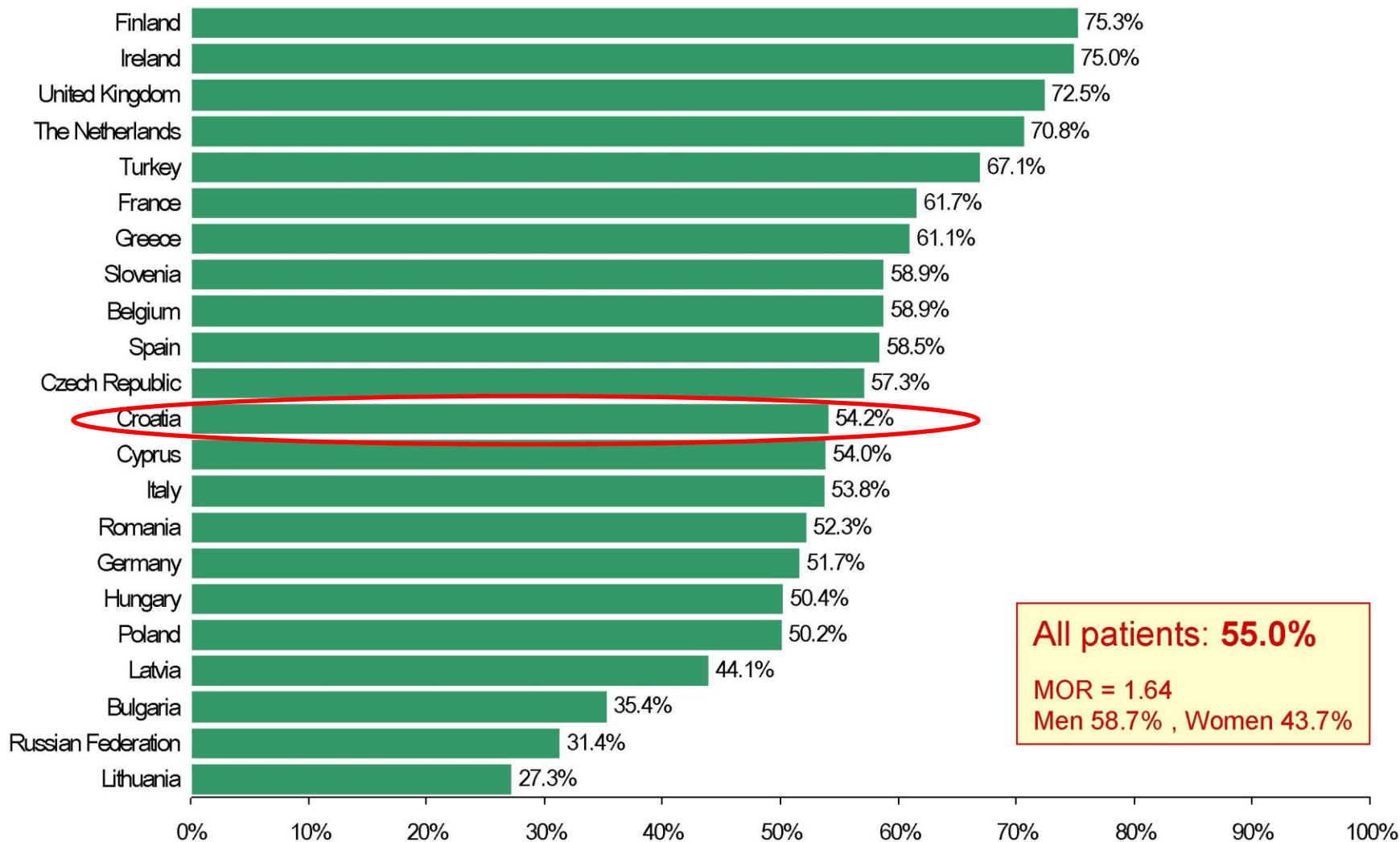


* HDL cholesterol < 1.0 mmol/L for men or < 1.2 mmol/L for women



Use of lipid-lowering drugs





* Total cholesterol < 4.5 mmol/L among patients using lipid-lowering drugs



Thank you!