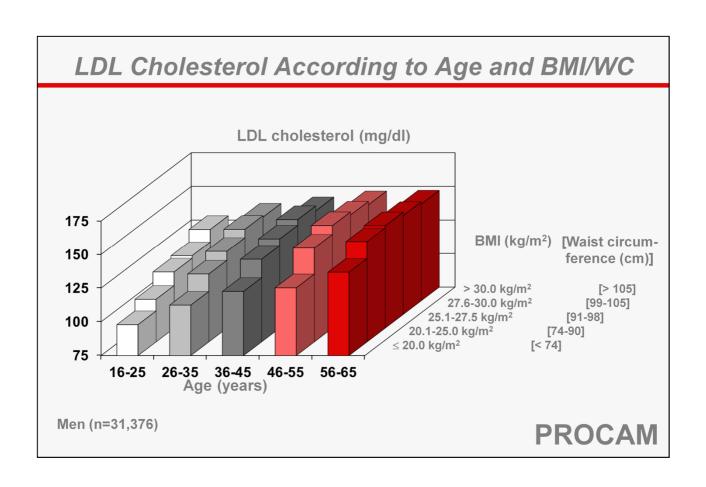
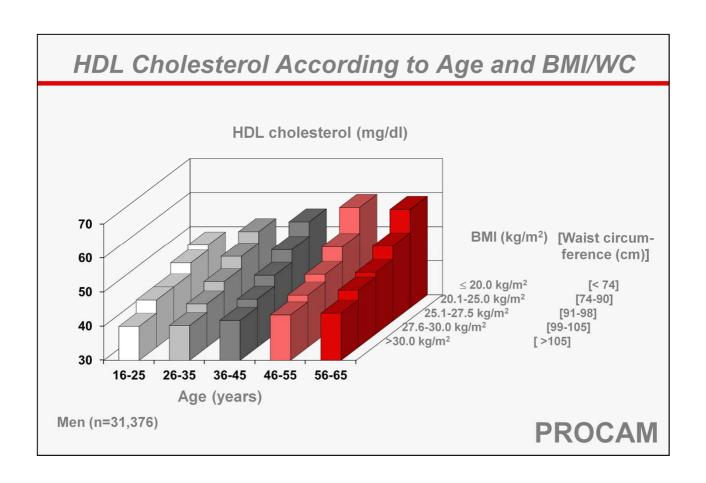
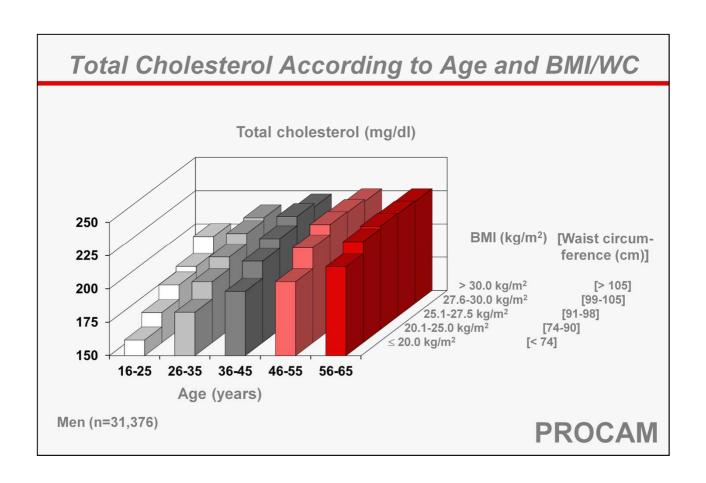
PROCAM (Münster Heart Study)

Body mass index and cardiovascular risk factors

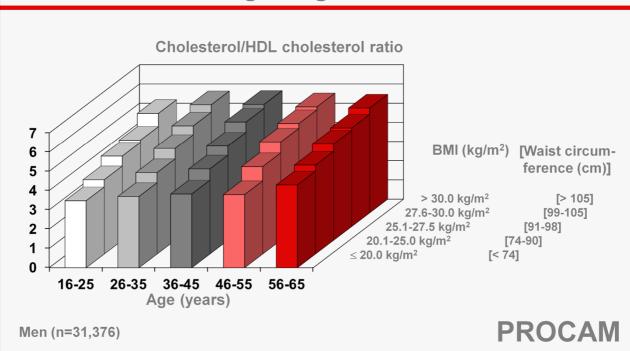
The slides in this slide kit show the relationship between various risk markers and body mass index in each age group of men and women. Note that certain variables such as systolic and diastolic blood pressure both increase with age and with body mass index, whereas other variables such as the cholesterol/HDL-cholesterol ratio increase only with body mass index.



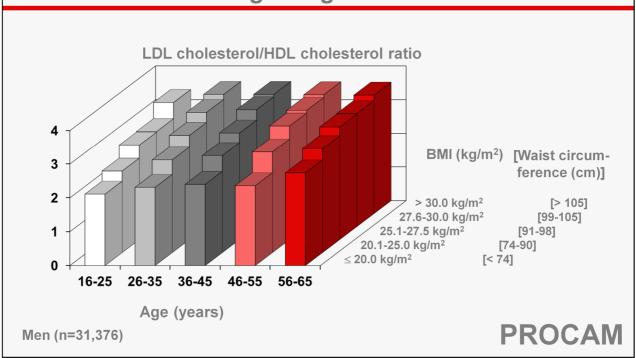


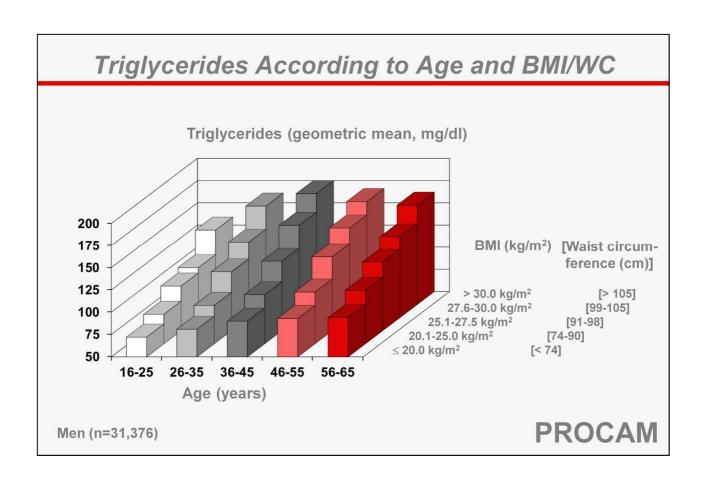


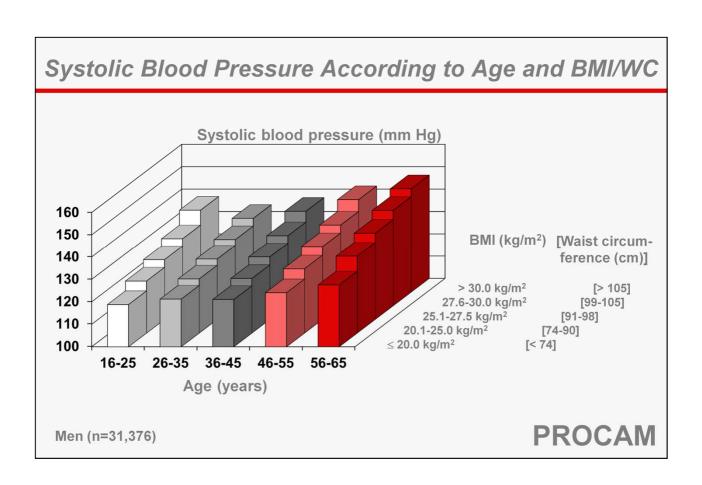
Cholesterol/HDL Cholesterol Ratio According to Age and BMI/WC

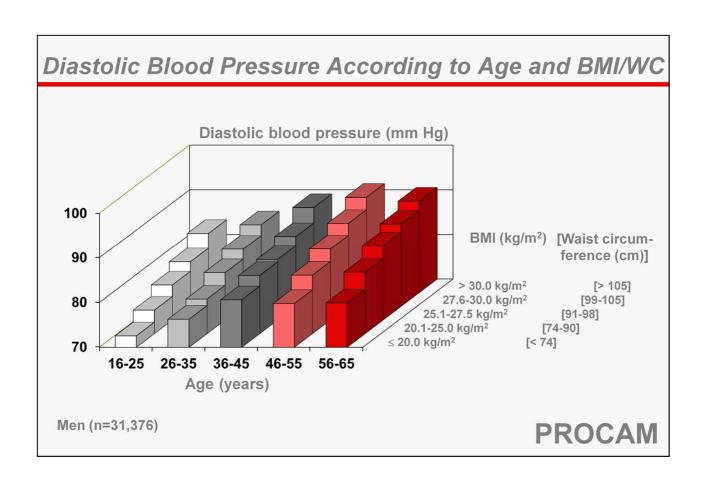


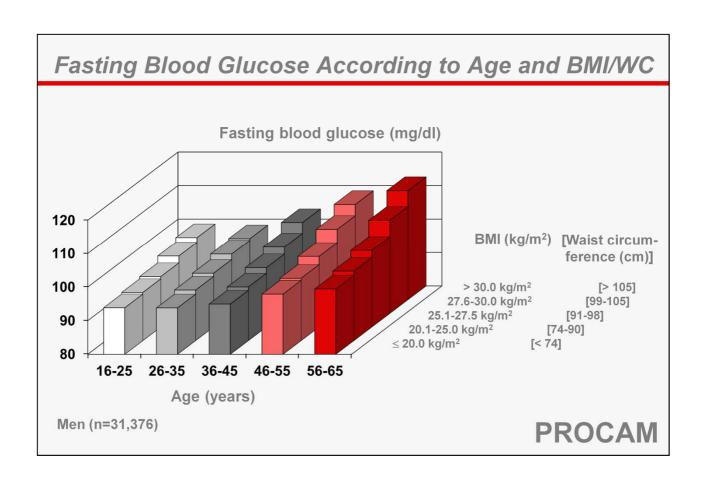
LDL Cholesterol/HDL Cholesterol Ratio According to Age and BMI/WC

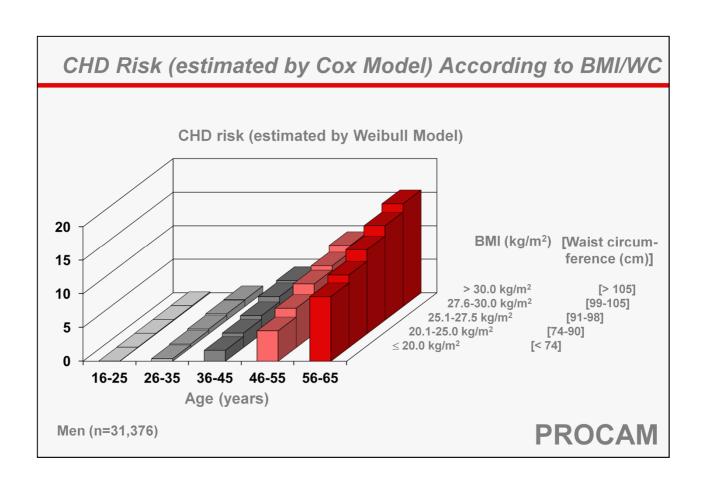


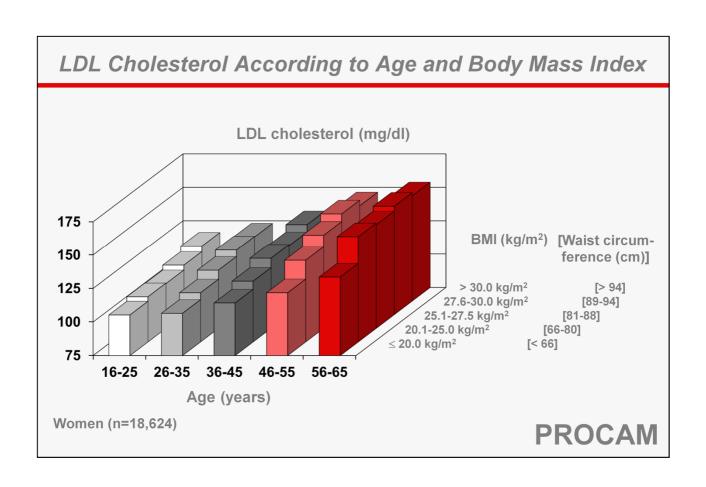


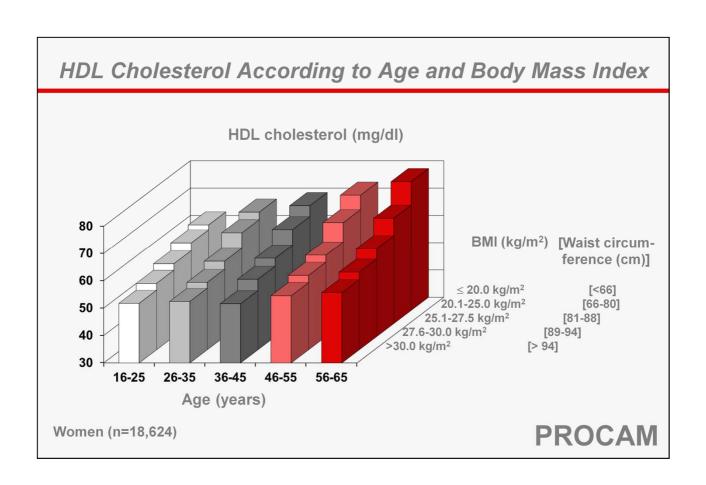


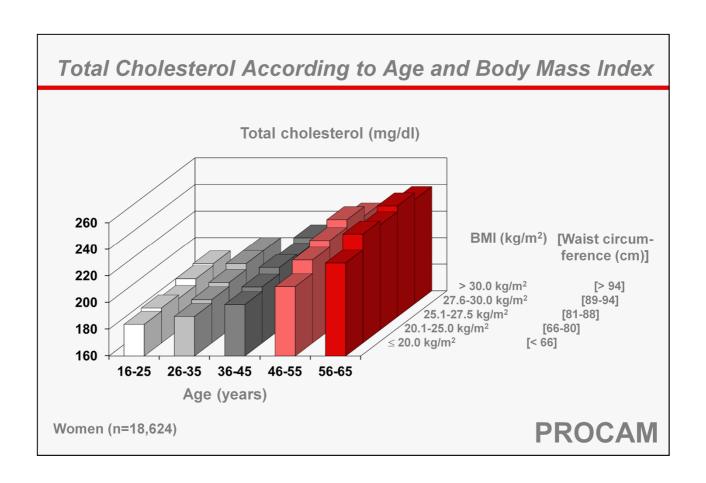




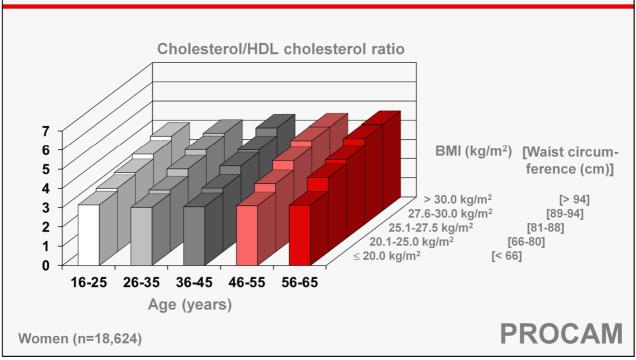


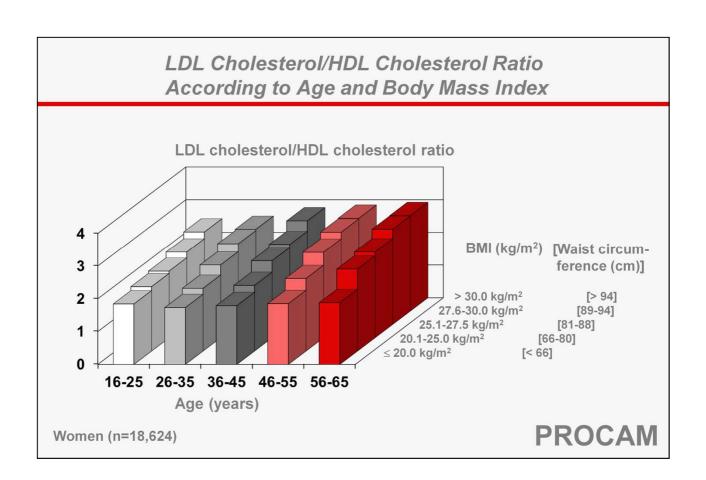


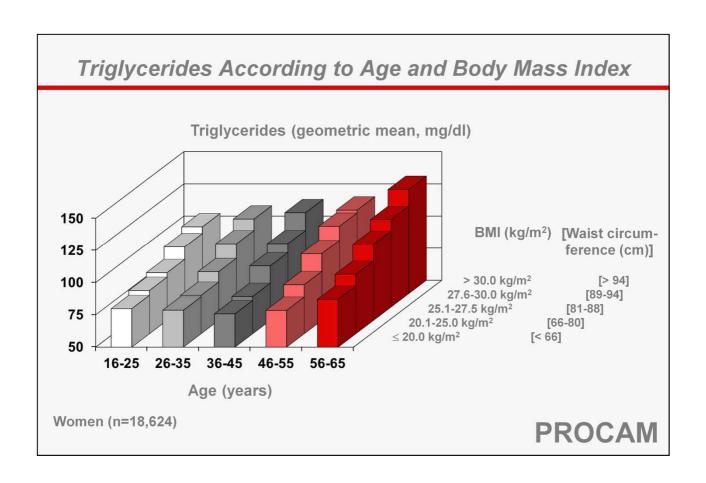


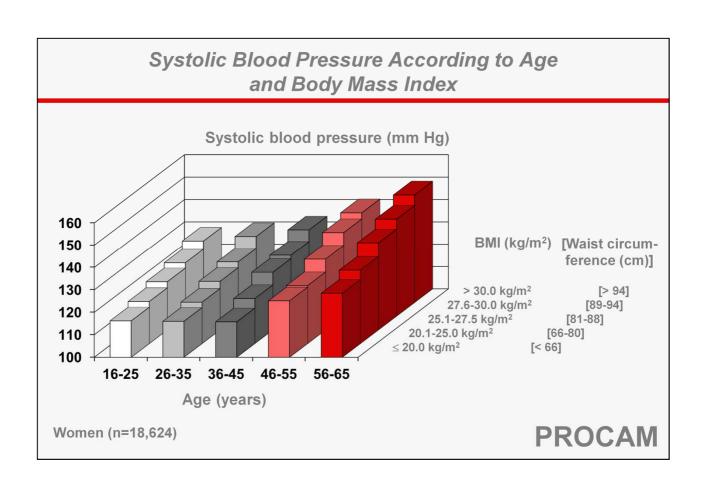


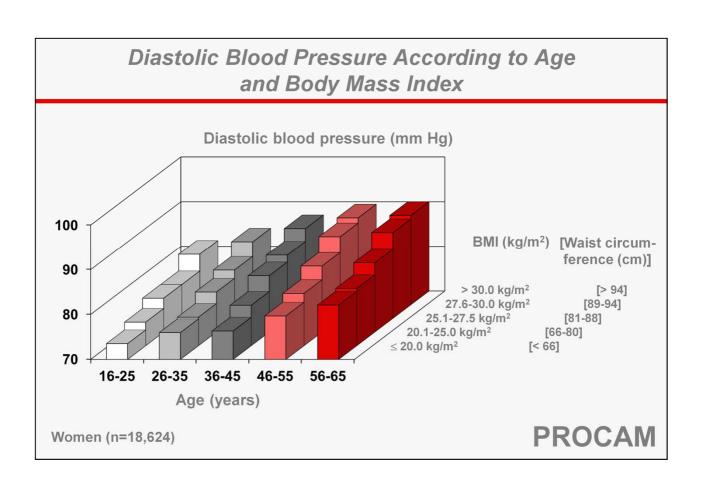


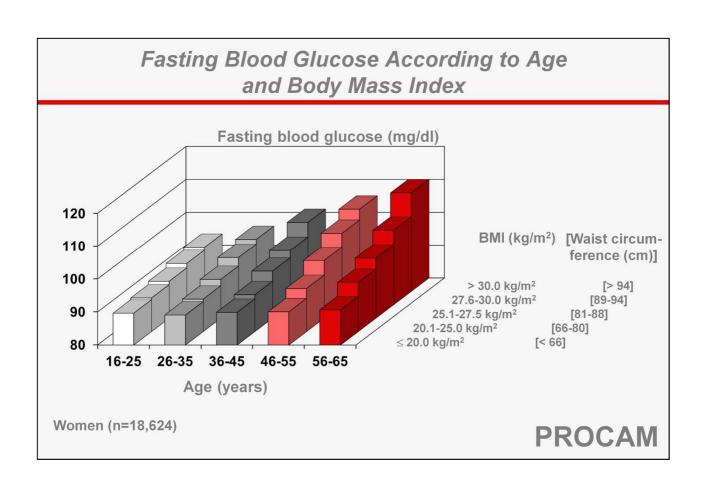


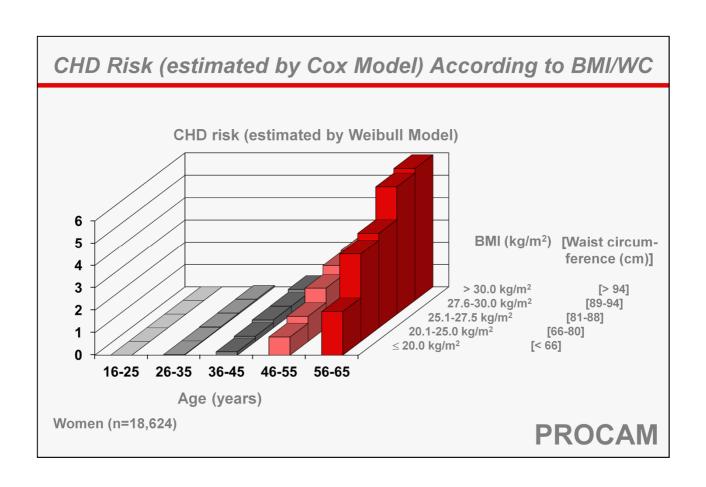


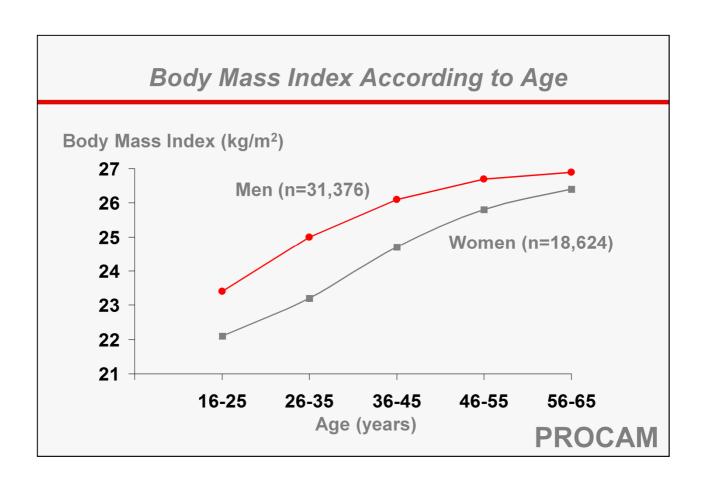


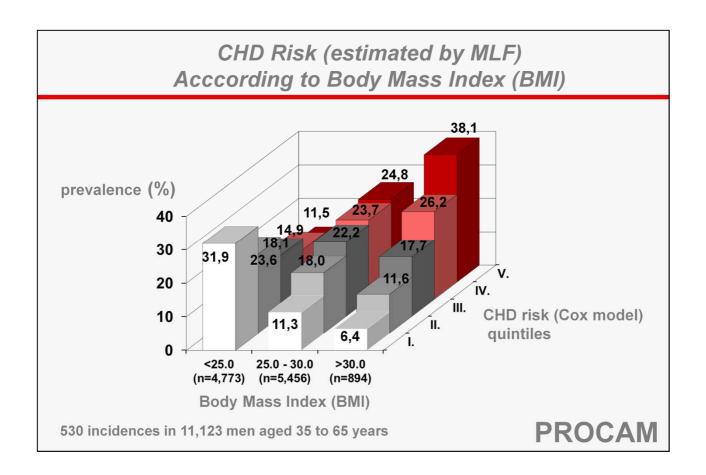




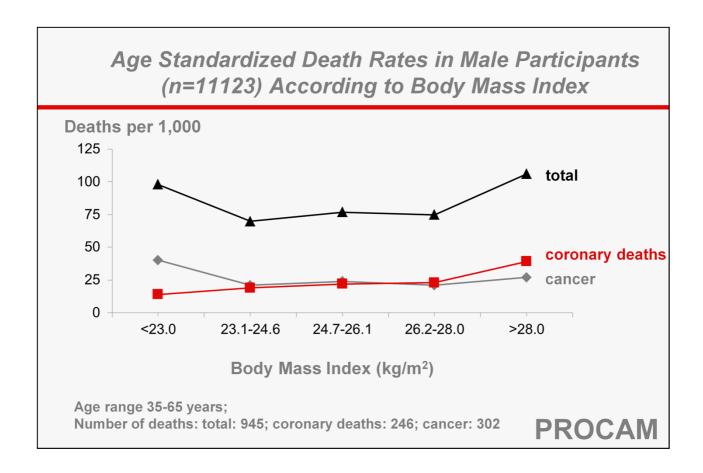




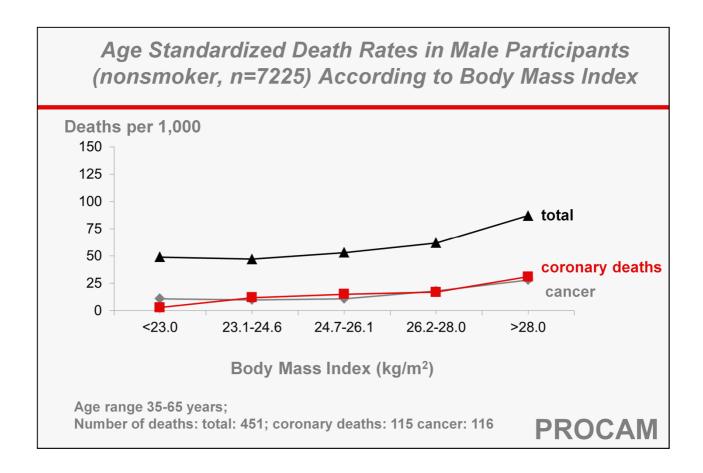




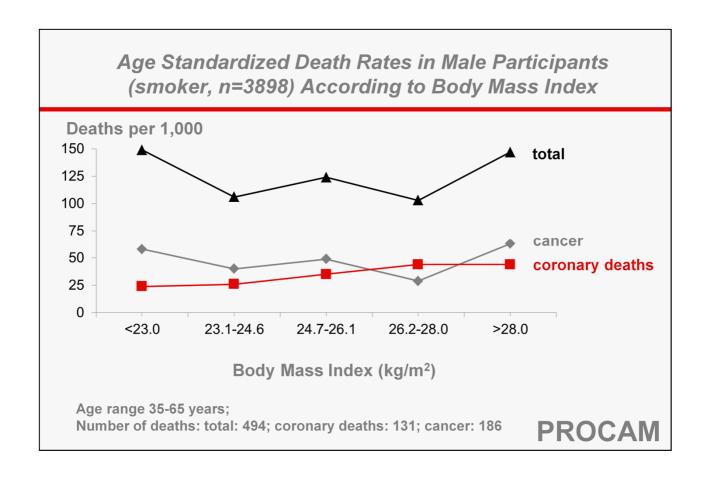
This slide shows the relationship between Body Mass Index and CHD risk among middle-aged men in PROCAM. The main message of this data is that lean men tended to be at low CHD risk, while overweight men tended to be at high risk. However this distinction is not very clearcut. For example, 6.4% of the overweight men were in the lowest quintile of risk, while 11.5% of the lean men were in the highest risk quintile.



This slide shows relationship between total mortality, cancer mortality and CHD mortality rates and Body Mass Index among middle-aged men in PROCAM. The overall mortality showed a J-shaped relationship to Body Mass Index; excess mortality in lean men being explained largely by cancer and in overweight men by coronary heart disease.



This slide shows the same relationship as slide 24, but includes only non-smoking men. The difference to the overall data shown in slide 24 is striking: among the non-smoking men, there is no increase in cancer or overall mortality among lean men.



This slide shows the same as slide 24, but includes only men who smoked. Here also, the difference to the overall data shown in slide 24 is striking: the smokers showed a striking increase in cancer mortality at low body weight. These cancers were mainly smoking related, such as carcinoma of the bronchus or the larynx.