

Term Paper Econ 3725/4725 2018

- 1) 7% of the DALYs in Norway in 2013 were a result of ischaemic heart diseases. Explain how that number is calculated.
- 2) In a discrete-time hazard model for mortality from cardiovascular diseases in Norway in 1980-2014, the following estimates (odds ratios) were obtained for men of age 60-79 years:

Educational level, measured the previous year:

Primary (reference category)	1
Some secondary	0.92
Full secondary	0.85
Some or full tertiary	0.70

Annual household income

per consumer equivalent,

measured the previous year

(NOK)

<300,000	1.05
300,000-400,000 (reference category)	1
400,000-500,000	0.98
500,000-600,000	0.97
>600,000	0.97

In addition to these two variables, the model also included the man's age and calendar year in one-year categories.

- a) Do these estimates seem plausible compared to other such effects you have read about in the course? Only a brief answer is expected.
 - b) What do you think are the reasons for the effect of education that you see in the table? Explain thoroughly.
 - c) Assume that you are interesting in learning about the long-term health effect of helping more young adults to complete secondary school (i.e. reduce the drop-out rate). Would these estimates tell you anything of importance about the size of this effect? Do you think there might be health effects on other individuals than those encouraged through such a program to take a few more years of secondary education?
- 3) Life expectancy at birth is currently more than one year shorter in Denmark than in Norway, as an average across the sexes. What kind of factors do you think are most likely to have

caused this difference? Feel free to speculate. You are not expected to search for statistical evidence in support of your hypotheses.

- 4) A journalist calls you because she has seen that the difference in the life expectancy between women and men in Russia is 11 years. She says "I don't know much about this subject, but the difference seems to be very large. Can you give me a brief comment?"

Please, write 3-5 double-spaced pages with font 12. Use as much of the course readings as possible. You may also make use of what you have heard in the lectures. It is not necessary to use other sources, but if you do, please give references. (Otherwise, you do not have to give references.)