

Institutionen för folkhälsovetenskap

The role of education and cognitive skills in explaining mortality inequalities

AKADEMISK AVHANDLING

som för avläggande av medicine doktorsexamen vid Karolinska Institutet offentligen försvaras i hörsal CMB, Berzelius väg 21.

Tisdagen den 6:e december, 2011, kl 10.00

av

Anton Lager

Med. mag. i folkhälsovetenskap

Huvudhandledare:
Docent Sven Bremberg
Karolinska Institutet
Institutionen för folkhälsovetenskap

Bihandledare:

Professor Denny Vågerö Stockholms universitet/Karolinska Institutet CHESS, Centre for Health Equity Studies Fakultetsopponent:
Professor Finn Diderichsen
Köpenhamns universitet
Institut för Folkesundhedsvidenskab
Afdeling for Social Medicin

Betygsnämnd:

Professor Anders Björklund Stockholms universitet Institutet för social forskning (SOFI)

Professor Jan-Eric Gustafsson Göteborgs universitet Institutionen för pedagogik och specialpedagogik

Professor Laura Fratiglioni Karolinska Institutet Institutionen för neurobiologi, vårdvetenskap och samhälle (NVS) Karolinska Institutet/Stockholms universitet Aging Resarch Center (ARC)

ABSTRACT

The overall aim of this thesis is to improve our understanding of the association between cognitive skills and mortality by epidemiological analyses of their relationship. Related factors, especially own and father's education, are also analysed. This field or research is approached in three observational studies and one quasi-experimental study.

Previous research suggests that higher cognitive skills as measured by IQ tests in childhood predict lower risk of premature mortality. A related field of research demonstrates how schooling is associated to increases of IQ. Longer schooling in itself is also known to be related to longer life. Still how these associations should be understood is not clear.

In this thesis it is argued that education is indeed casually related to lower mortality - and that this can be partly explained by the effect of schooling on cognitive skills. It is also argued that the association between cognitive skills and health cannot be reduced to people being 'clever because they are healthy' or to the position of one individual relative to other individuals.

Since cognitive skills relate to every individual in a population and since they can be improved, new ways of thinking about promotion of population health are implied. Improvements of both cognitive skills and average life expectancy in a population could in principle be achieved at the same time as differences between individuals in a population are reduced.

ISBN 978-91-7457-532-3