Age and sex are of primary importance in demography. It was along these factors that a conference was held at the Demographic Research Institute on January 16th, 2003 in Budapest, Hungary. The conference entitled Double constraint dealt with mortality and morbidity characteristics of the middle aged population in Hungary. The present volume contains the edited text of papers presented at the conference, discussing not only statistical and demographical aspects but relevant road safety and environmental health issues as well. They resulted from studies on Trends and socio-economic determinants of health and mortality within the frame of a larger research project entitled Socio-economic embeddedness of demographic processes. The project was supported by the National Research and Development Programme (NKFP/5/128).

Little explanation is required to demonstrate that the most characteristic feature of the middle aged – which influences their life and health – is their ‘sandwich’ position. They care about their children whose independence is being postponed by prolonged studies, and often do care about their parents or elderly relatives who can survive to higher and higher ages. If we add to this the risk of unemployment, the escalating demands and expectations of the labour market and the burden they carry (or ought to carry) by saving for their own old age, we could just as well be talking about a four-fold constraint.

The choice of the conference subject was also motivated by the fact that extremely high mortality levels in Hungary – high even in an European context – are largely due to poor life chances of the middle generation.

In the introductory paper to this volume, Éva Gárdos reviews various sources of statistical data on mortality and morbidity, highlighting information on causes of death and morbidity provided by general practitioners. Collection of cause-specific mortality data has a strong tradition and is based on compulsory data provision. The only novelty in this field is the introduction of automated coding, using the software developed by the National Center of Health Statistics in the United States. General practitioners who participate in this programme started morbidity data collection in 1995. These data are based on medical diagnoses, not on patients’ subjective perception of their health status,
ABSTRACTS

and thus offer a very precious piece of information. GPs provide data on major chronic and acute illnesses of their patients every second year.

With regard to diseases of utmost importance from the point of view of public health (e.g. cancer), each incidence is recorded on a mandatory basis and is entered in a special register. Following lengthy debates, the National Cancer Register opened in Hungary with a great delay, in 1999. In the second contribution to this volume István Gaudi reports on the initial difficulties of starting the Register, the results and medical use of systematic data control, performed, among others, for melanoma malignum. In perfect accord with the previous author, István Gaudi also emphasises the importance of data controls, the precise work and continuous training of medical doctors and IT specialists alike.

József Kiss and Imre Boncz present data collected by the National Health Insurance Fund and the National Administration for Pension Insurance. They offer an insight into broken working careers of middle-aged people due to ill health. Nevertheless, they also point out that the number of applications for disabled pension was rapidly increasing during the early years of transition. Though about half of such applications were rejected in lack of available funds, a temporal and regional correlation can be found between the number of new disabled pensioners and the rate of unemployment. Social problems generated by political and economic transformation also appear in the question of major social redistribution systems.

Morbidity and mortality for external reasons (accidents, self-injury, etc.) is much higher in Hungary than in Western Europe. Péter Holló investigates road traffic accident trends by type of casualties (light and heavy injuries, cases of death), location (built-up/non built-up roads) and participation in traffic (drivers, passengers, riders, pedestrians). Data on Hungary are presented in an international perspective. Reducing the speed limit to 50 km/h in built-up areas in 1993, and of increasing it in non built-up areas to 90, 110 and 130 km/h – depending on road categories – in 2001, as well as the consequences of wearing a seat-belt on not, have opposing effects according to statistics of accidents.

Ilona Antal examines the connection between environmental hazards (the quality of air, water, soil, waste-management, built environment, working conditions) and morbidity or mortality of the middle aged who are the most exposed to such hazards. Her versatile and thorough analysis points out that “Physical strain, risk of accidents, exposure to noise and non optimal psychosocial and ergonomic conditions are the most common risk factors at work in Hungary. These are followed by chemical and biological factors. 5% of employees are engaged in high risk activities, 26% in medium high risk activities
The impact of working environment is clearly indicated by the high number of excessive exposures and that of occupational diseases.” (p. 81)

Statistics based on patients’ visits to (and stay at) health care institutions are restricted to the recipients of health services. It is more difficult to obtain data on the health status of the total population, which pieces of information are therefore extremely valuable. The National Population Health Survey (OLEF2000) carried out in the autumn of 2000 provides such information. Survey results – with special emphasis on findings concerning the middle aged – are presented by Péter Csizmadia. It is quite a striking result that probabilities of ill health (defined as a constraint in a person’s habitual way of living or by self-perception) are barely lower among people aged 34–64 than among the 65 plusses.

Differential mortality analysis has strong traditions in demography. This is demonstrated by three papers included in the present volume. The first is on cause-specific mortality of middle aged men and women in Hungary. In the introduction, Etelka Daróczy draws a parallel between demographic and epidemiological transitions. Changes in life table indices are presented for three, transition- and post-transition, periods (between 1988 and 1993, 1993 and 1997, 1997 and 2001). Annual changes in cause-specific life expectancies are shown for eight major causes of death between 1987 and 2001. Life expectancy at birth of Hungarian men deceased from infectious diseases dropped from the pre-transition 63.2 years to 56.1 in 1995, and could only reach 60.0 years by 2001. Life expectancy of male and female victims of digestive diseases (especially diseases of liver) also declined remarkably. Improving life expectancies at higher ages during the second half of the 1990’s could not as yet compensate for serious losses suffered in active ages.

Following a review of the rich scholarly literature on social differences in mortality, Katalin Kovács focuses her paper on the analysis of mortality by the level of education and by occupation. Comparisons are based on standardised mortality rates and ratios. She finds that mortality of Hungarian people with secondary education does not seem to be particularly high in an international comparison. But mortality rates of people with low education are much worse in Hungary than in other European countries. The author presents original results by calculating disability-free life expectancies at the age of 25 by education, by identifying occupations with extremely high mortality and demonstrating excess general mortality due to social inequalities in cause-specific mortality.

Geographical mortality differences in Hungary are mostly studied by regions and counties or by large groups of settlement types (Budapest, urban and

(Pintér 2001)\(^1\). The impact of working environment is clearly indicated by the high number of excessive exposures and that of occupational diseases.” (p. 81)

HUNGARIAN MORTALITY PATTERNS IN A EUROPEAN PERSPECTIVE AROUND THE YEAR 2000: SOCIAL AND GEOGRAPHICAL DIVIDES

No. 77.

DARÓCZI, E., KOVÁCS, K.

The present volume contains six essays on various aspects of health status and mortality trends in Hungary in a European comparative perspective. Findings derive from studies on Trends and socio-economic determinants of health and mortality prepared by the authors within the frame of a larger research project entitled Socio-economic embeddedness of demographic processes. The project was initiated and coordinated by the Demographic Research Institute of the Hungarian Central Statistical Office and supported by the National Research and Development Programme (NKFP/5/128). The authors are research scholars at the same institute.

The introductory paper of the volume offers a historical review of the stagnating or increasing mortality levels in the former socialist countries of Europe during the last third of the 20th century. The role of changing demographic composition of population and epidemiological transition is discussed in this process. Changes in male and female mortality levels are presented for 43 European countries by broad age categories (infants, young and middle aged population and the elderly) as well as by major causes of death. The author...