Stewart A, Brice P, Burton H, Pharoah P, Sanderson S, Zimmern R
Genetics, Health Care and Public Policy:
An Introduction to Public Health Genetics
Cambridge, Cambridge University Press, 2007
ISBN 0521529077

DOI: 10.1159/000106566

A New Community Genetics and Public Health Genomics Textbook

Teaching community genetics or public health genetics to medical students or students in health sciences has not always been easy. One of the difficulties has been the fact that the main textbooks available require an understanding of English, genetics as well as public health far above the average MSc level in Europe. The new introductory textbook *Genetics, Health Care and Public Policy* brings together basic concepts in genetics and molecular science, definitions and history, genetic technology, epidemiology, genetic medicine, genetics in health services, ethical, legal and social implications in a volume of only 300 pages. In a rapidly developing and multidisciplinary field an update on available techniques and current debates is also welcome. The journal *Community Genetics* (established in 1998) and its Editor-in-Chief Leo ten Kate are discussed in a paragraph where community genetics is defined as a subdiscipline of clinical genetics.

In the book molecular genetics is dealt with on a basic level, enabling policy makers as well as students to improve their knowledge that might be relevant for their daily practice. DNA makes RNA makes protein. Not only the nucleus contains DNA, but DNA mutations in mitochondria may lead to disorders with maternal inheritance. Epigenetic mechanisms are briefly explained. Cancer is a genetic disease, where mutations accumulate: not only somatic alterations but also unrepaired errors in DNA replication.

An introduction to public health genetics, genetic epidemiology, genetics and medicine, genetics in health services, ethical, legal and social implications of genetics and policy implications are the topics of the other chapters. Delicate topics are dealt with in an open and clear way. Does the current availability of antenatal testing, accompanied by the option of abortion if the fetus proves to be affected, constitute eugenetics? The argument is that the availability of genetic testing and selective abortion is morally acceptable as long as the reason is to allow individuals to exercise reproductive choice, and state coercion is not involved.

Comments

This book is an important step in teaching community genetics and public health genomics to a wider audience. Complicated and delicate topics are discussed in a relatively easily accessible way, and there is an explanation of basic concepts from a diversity of fields (molecular genetics, epidemiology), a reflection of current debates and advice for further reading. The limitation of this book differs from previous American books: this time the focus is on the UK and not on the USA. Teaching modules still have to develop their own (inter)national scope. The legal and

regulatory framework as well as the organization of health care and the list of key 'think tank' reports in each country are different. The oversights in this book will certainly stimulate non-UK readers to make their own analysis of the interface between public health and genomics in their countries.

M.C. Cornel, Amsterdam

Parsons EP, King JT, Israel JA, Bradley DM

Mothers' Accounts of Screening Newborn Babies
in Wales (UK)

Midwifery 2007;23:59–65

DOI: 10.1159/000106567

Informed Consent for Newborn Screening?

The uptake of newborn screening has been largely taken as a given, and there has been little recognition that because it is genetic screening it should therefore require more rigorous consent. One explanation could be the long-standing acceptance that newborn screening is concerned with treatable diseases such as phenylketonuria (PKU) and congenital hypothyroidism (CHT), and is therefore in the domain of public health medicine. Reported in this paper are the findings of a qualitative study, carried out in Wales, UK, to explore mothers' experiences of newborn baby screening. Wales is unique in the UK because it offers screening for both treatable and untreatable diseases. The four diseases screened for are PKU, CHT, cystic fibrosis, and for boys only, Duchenne muscular dystrophy (DMD). DMD is an opt-in test, and mothers are asked to sign the screening card to indicate their consent. No signature is required for the other three tests.

Midwives were asked to identify a sequential group of 25–30 mothers who fulfilled the following criteria: had a vaginal birth of a singleton live baby who did not have to be admitted to a neonatal unit; maternal records included details of GP, health visitor and midwife; mother was English speaking, and the baby's newborn tests were normal. When the babies were 4–6 weeks old, the researcher contacted by letter those mothers who had agreed to join the study. Semistructured interviews took place 6–9 weeks after birth, lasting 30–40 min. All interviews were carried out by one of the authors, a midwife, and consisted of the following main topics: their experience of pregnancy, birth, their first days at home, and newborn screening.

Twenty-five mothers were approached and 18 agreed to be interviewed. All the mothers had accepted screening for PKU, CHT and cystic fibrosis, and all 10 mothers with baby boys had agreed to the DMD test. Sixteen were first-time mothers.

In Wales, mothers obtain information about newborn screening from an information leaflet and talking to their midwife. Three mothers reported that newborn screening had been mentioned during their pregnancy but only one had received a leaflet. The remaining mothers said that they had only been given infor-