Contents

Pref	Preface	
Acknowledgements		ix
Exe	Executive summary	
Introduction		1
Part	The scientific basis of national cancer control programmes	5
1.	The nature of cancer	7
	Biological aspects of cancer	7
	Social aspects of cancer	10
2.	The causes of cancer	13
	Biological factors in cancer etiology	13
	External agents important for cancer control	13
	Physical carcinogens	14
	Chemical carcinogens	15
	Biological carcinogens	16
	Dietary influences	16 16
	Social factors in cancer etiology Relative importance of various causes of cancer	19
	neighbor importance of various causes of cancer	13
3.	Extent, distribution, and trends of cancer	21
	Cancer as a world health problem	21
	Cancer of various sites in different countries	24

NATIONAL CANCER CONTROL PROGRAMMES

	Cancer trends over time	25
	Social and economic impacts of cancer	26
Part	II. Approaches to cancer control	27
4.	Introduction	29
5.	Primary prevention	30
	Tobacco	30
	Diet	39
	Alcohol	43
	Occupation and environment	47
	Infections and cancer	52
	Sunlight	53
	Sexual and reproductive factors	55
6.	Early detection of cancer	58
	Education for early diagnosis	58
	Screening for cancer	61
7.	Treatment of cancer	70
	Aims and limitations of treatment for cancer	71
	Development of a treatment policy	76
	Development of referral policies	77
	Ethical aspects of cancer therapy	78
	Evaluation of effectiveness of treatment	80
8.	Palliative care	82
9.	Cancer control research	87
Part	III. Establishing and managing national cancer control programmes	89
10.	Establishing a national cancer control programme	91
	Assessing the magnitude of the cancer challenge	92
	Prevention policy	97
	Integration with national health programming	98
	Intersectoral aspects of cancer control	99

CONTENTS

	Setting measurable cancer control objectives	100
	Evaluating possible strategies for cancer control	103
	Choosing priorities for initial cancer control activities	104
	Political will for cancer control	105
11.	Managing the establishment of a national cancer	
	control programme	106
	Planning the NCCP	106
	Establishing the NCCP	107
	Launching the NCCP with a workshop	107
	Developing a communication strategy	108
	Recruiting leaders	108
	Consideration of existing health care systems	109
	Consultation with nongovernmental organizations	109
	Ensuring community involvement	110
	Preparing a draft national cancer control plan	110
	Organizing a national conference	110
	Changing legislation	111
	Identifying resources for the NCCP	111
	Reviewing the role of existing organizations	
	in cancer control	111
	Identifying the systems that already exist	112
	Drawing up a budget for cancer control	113
12.	Implementing and maintaining a national cancer	
	control programme	115
	Functions of the NCCP	115
	Management activities in the NCCP	116
	The NCCP coordinator	116
	The NCCP management board	117
	Fund-raising	117
	Creating an identity for the NCCP	117
	Evaluation of the NCCP	118
13.	Monitoring and evaluating components of the national	
	cancer control programme	119
	Prevention	121
	Early detection of cancer	121
	Treatment	122
	Palliative care	122
Refe	erences	123

NATIONAL CANCER CONTROL PROGRAMMES

Annexes

1.	Calculation of expected age-specific mortality rates	
	in different regions	128
2.	Outline agenda for a workshop on national cancer	
	control programmes	129
3.	Example of a programme for a national cancer control	
	workshop	131
4.	Evaluation of a national cancer control programme	134