



TABLE OF CONTENTS

Message from the Director-General of the World Health Organization iii

Preface from the Secretary General of the International Union Against Cancer vii

Foreword ix

Executive Summary xi

PART I

CHALLENGES FACING CANCER CONTROL PROGRAMMES

- 1 Biological and Social Aspects of Cancer 3**
 - Biological aspects of cancer 3
 - Social aspects of cancer 5
- 2 Causes of Cancer 9**
 - Biological and genetic factors 9
 - External agents 11
 - Relative importance of various causes of cancer 14
- 3 Burden of Cancer 17**
 - Cancer as a world health problem 17
 - Cancer of various sites 18
 - Cancer trends over time 20
 - Psychosocial and economic impacts of cancer 21

PART II

APPROACHES TO CANCER CONTROL

- 4 Prevention 25**
 - Tobacco 25
 - Diet 34
 - Alcohol 38
 - Occupation and environment 41
 - Infections and cancer 43
 - Sunlight 46
 - Sexual and reproductive factors 47
 - A framework for health promotion 48
 - Priority prevention actions for various resource levels 52
- 5 Early Detection of Cancer 55**
 - Early diagnosis 56
 - Screening for cancer 57
 - Recommended early detection policies for various resource levels 66

- 6 Diagnosis and Treatment of Cancer 69**
 - Diagnosis of cancer 69
 - Treatment of cancer 69
 - Priority actions for cancer treatment according to resource levels 81

- 7 Pain Relief and Palliative Care 83**
 - WHO definition of palliative care 83
 - WHO definition of palliative care for children 85
 - Relevance 86
 - Resource allocation 86
 - Assessment 87
 - Drug availability 87
 - Education 87
 - Government policy 88
 - Components of palliative care 88
 - Priority actions for palliative care according to resource levels 91

- 8 Cancer Control Research 93**
 - Development of national capacity for cancer research 93
 - Research aims 94
 - Major areas of research 95
 - Phases of research 96
 - Promoting evidence-based cancer control 99
 - Research in developing countries 99
 - Priorities for global cancer research 100

- 9 Surveillance in Cancer Control 105**
 - Measuring the burden of cancer 105
 - Population-based cancer registry 107
 - Statistics on cancer mortality 108
 - The WHO stepwise approach for measuring key risk factors 108
 - Surveillance infrastructure 110

PART III

MANAGING A NATIONAL CANCER CONTROL PROGRAMME

- 10 Planning a National Cancer Control Programme 113**
 - What is a national cancer control programme? 113
 - Why establish a national cancer control programme? 114
 - Which countries have national cancer control programmes? 114
 - Who should be involved in planning a national cancer control programme? 117
 - How to plan a national cancer control programme? 119
 - Assessment of strategies for eight common cancers 126
 - Formulating the national cancer control programme policy 127

11 Implementing a National Cancer Control Programme 131

Moving from policy to implementation 131

Global action to support national efforts 146

12 Monitoring and Evaluating the Programme 151

What is programme evaluation? 151

How to carry out effective evaluation of a national cancer control programme? 151

PART IV

FOCUSING ON PRIORITIES

13 Priorities for Various Resource Levels 167

Priority prevention actions for various resource levels 169

Recommended early detection policies for various resource levels 170

Priority actions for cancer treatment according to resource levels 171

Priority actions for palliative care according to resource levels 171

Meeting Participants 173

References 177