

Index

and democratic performance 30

accountability

democratic context 282-3 of police behaviour 49-51 performance as object of 48-9 public sector managers 52 public sector performance 46-7 ageing population, impact on public services 11 altruism and the WTP-based VPF 163 ambiguity in public service provision 80-1, 82-4 Balanced Scorecard initiative 101, 102-3, Balanced Scorecards 70 use in the public sector 70 Best Value initiative 101, 103-4, public consultation 74 virtualism in performance practices 73-4 'big government', perspectives on 6-7 bottom-up innovation in the public sector 202-3 bureaucratic control 77-8, case study approach, public management research causality, assumptions in governance design 38-41 central control aspect of performance measurement 68 change management see public service change chaos and complexity theory, limitations of 259-62 clan, control by 77-8, cluster analysis, geodemographics 179-80, consent, and democratic performance 30 contingent valuation (expressed value) approach to valuing safety 164 control by clan 77-8, control mix performativity in policing 58 public sector governance 54-5 control systems ambiguity in public service provision 80-1, 82-4 bureaucratic control 77-8, control by clan 77-8,

feedback control 76-7, grid: group theory of control 78-9, intrinsic control in professional practice 81-2, market control 77-8, political control 76-7, routine control 76-7, uncertainty in public service provision 80-1, 82-4 'convergence' view of public and private sectors 6-7 cost-benefit analysis (CBA) equivalence with cost-effectiveness analysis (CEA) 157-9 priority setting in public services 91, 93 cost-effectiveness analysis (CEA), priority setting in public services 91 cost-weighted output index (CWOI) 129-30 costs of a performance measurement system 72-3 criminal justice system (England), performance classification scheme 254-5, criminal justice system (Scotland) 136-8 criminal justice system (Scotland) performance boundaries and performance issues 142-4 communication between agencies 148-9 complex interactions between agencies 142-4 mapping the system 146-7 meaningful measures 144-5 nature of work organization and work flows operational and administrative difficulties 136-8 opposition to setting targets 139, 144-5 overarching aims and objectives 138-9, political significance of performance measures 139-42 rationalized myths about performance measures 139 - 42review of the system (Normand report, 2003) situated rationality of work organization 145-7 customer service provision, public service management 7-8 cybernetic metaphor of control 76-7,

cybernetic metaphor of control 76-7,



More information

290 Index

democratic context of governance and geodemographic indicators in the public sector accountability 282-3 limitations on usefulness for researchers 189-93 democratic performance 29, 30 need for scientific standards in geodemographics and public governance mode (empirical evidence) 34-5 new applications 185-8, public services perspective 186-7, 193-4 in hierarchical governance modes 31, 32 in market governance modes 31, 32 research applications 184-9, in network governance modes 31, 32 research on clustering methods 188-9 demographic changes, impact on public services 11 strategies for increasing research applications economic competitiveness, contribution of public stratified sampling and panel selection 188 services 5-6 geographic information systems (GIS), use in economic problems in public services public service delivery 176-7 allocation of scarce resources 89-91 globalization, impact on public services 11 challenge of competing demands 89-90 good practice, sharing in the public sector 202-3, need for a framework to manage scarcity 90-1 209 - 11NICE recommendations 90-1, 92 governance priority setting 89-90 avoidance of overlap with other functions 60-1 sacrifices made to improve performance 89-90 concept 28-9, economics in public services confusion of policy and governance roles 60-1 adoption at national level 90-1 definition 16 lack of penetration at local level 90-1 forms of public service governance 16-17 education, performance classification scheme hierarchical government 16-17 implications for public management 16-17 (England) 252 executive agencies 27-8 issues in public service management 8 external environment networked governance 16-17 influence on public service management 8-9 relationship to government 28-9 policy context 19-20 see also public governance governance and accountability, democratic context factorial ecology method of analysis, 282 - 3geodemographics 178-80, governance and performance feedback control 76-7, empirical evidence 31 fire service, performance classification scheme empirical perspectives 32–3 (England) 253-4 governance and performance research agenda 38 - 42geodemographic indicator usage limitations alternative causalities 38-41 181 - 3examination of assumed causality 38-41 choice of defining variables 183 interpretivist approach 42 loss of information in the clustering process reformulating the research design 41-2 governance arrangements spatial heterogeneity 183 changes in public service 27-8 range of forms 27-8 within-cluster variability 182-3 geodemographic indicators relationship with public service performance alternative data sources 183-4 27 - 8cluster analysis 179-80, governance design commercial systems 177 and system performance 30 customer loyalty programmes 184 examination of assumed causality 38-41 definitions 177-80, interpretivist research approach 42 derivation from census data 177-8 governance modes 28-9, factorial ecology method of analysis 178-80, and public service performance 28, 30-1, 32 governance of policing 55-6 history and development 177-80, inclusion of lifestyle data 183-4 chief constable roles and accountability 55-6 private sector applications 179, 180-1 competing power relations 55-6 public sector applications 179, 181 diverse demands of stakeholder groups 56



291

Index

Home Office role 55-6 improvement in public services, relationship to police authority role and accountability 55-6 innovation 205-9. The Police Act (1996) 55-6 innovation as fashionable rhetoric 197 tripartite governance structure 55-6 governance of public sector performance 54-5 barriers and facilitators 200 control mix 54-5 classifications 200-1 influence of new public management 54 definitions 199-201, 219 multiple publics 54 learning from failures 200 pluralistic governance model 54 responsiveness to needs of users 197-8 systems of management control 54-5 scale of change involved 199 governance of public services 16-17 value in public service delivery 197-8 governance structures 60 innovation in the public sector government, relationship to governance 28-9 adaption of innovations 210-11 grid: group theory of control 78-9, applicability of innovation theory 198 gross output (human capital) approach to valuing as route to improved performance 217 safety, 161 Beacon Scheme 210-11 bottom-up innovation 202-3 health sector characteristics catalysts of innovation 201 health care system structure in the EU and US comparison with the private sector 201-2 creating public value 203 current themes and future directions 287 historical developments in health provision 116-17 diffusion of innovations 202-3, 209-11 information asymmetries 117-18 national variations in financing and delivery dimensions of innovation 200-1 innovations in English local government 217 nature of the production process 117-18 innovations in governance 199 performance measurement challenges 117-18 lack of empirical evidence for effectiveness health sector performance measures 217 - 18age-standardized death rates (SDR) for major leading and managing innovation processes diseases 122-5, 203-5 application of productivity performance organizational innovation 199-200 indicators 115-16 perceptions of stakeholders 200 cost-weighted output index (CWOI) 129-30 political motivation 217 dangers of management by numbers 131-2 product innovation 199-200 disease-specific microeconomic studies 126-8 public value approach 208-9 impact of health status of the population 125 relationship to improvement 205-9, input measures 130-1 role of users 203 lack of a theoretical framework 128-9 service innovation 199-200 life expectancy 122, 123, 124, 125 sharing of good practice 202-3, 209-11 stages of the innovation process 203-5 limitations of quantitative data 131-2 macroeconomic indicators 121-6, top-down processes 202 outcome measures 129-30. unintended consequences 209 output measures 129 innovation-performance relationship empirical performance relative to resources 121-8, research 218-19, theory of productivity measurement 128-31 conclusions 231-2 controls 225, 226-7 total health expenditure 121-6, WHO 'attainment' index 125-6, data source 221-3 WHO efficiency of health provision indicator innovation measures 224-6, innovation theory 219-21 health service, performance classification scheme innovation types and organizational (England) 250 performance 228-31, measures 223-7 hierarchical government 16-17 hierarchical modes of governance 28-9, methods 221-7 and public service performance 31, 32 organizational innovation and performance Home Office, approach to police performance 56–7

292

Index

innovation-performance relationship (cont.) markets for public services 7-8 performance measures 223-4, 225 measureability of service outcomes 243-4 multi-organizational collaboratives 27-8 process innovations and organizational performance 228-31, results 227-31, National Intelligence Model (NIM) 51, 53, 58-9 neo-liberal ideologies, influence on public services service innovations and organizational performance 228-31, 4-5, 6-7network modes of governance 28-9, innovation-performance relationship theory 220-1 and public service performance 31, 32 innovation theory networked governance 14-15, 16-17 applicability in the public sector 198 New Public Management 6-7, 13-14, 32-3 definition of innovation 219 definition 66-7 innovation and organizational performance influence on public sector governance 47-8, 54 220 - 1performance measurement and control 76-84, performance gap theory 220-1 role of performance measurement 66-7 process innovations 220 shifts in corporate governance 54 service innovations 220 New Right, influence on public services 6-7 institutional field, policy contexts 20 NHS Trusts, virtualism in performance practices 74 instrumentalism 260 see also health sector NICE (National Institute for (Health and) Clinical internal context (policy context) 20 Excellence) interpretivist research approach 42 interval scales 69. recommendations to PCTs 90-1, 92 valuing health gain 154-6 knowledge-for-action concept 259-62 use of QUALYs 154-5, nominal scales 69 league tables, impact on public service failure 237 open systems theory 259 legitimacy opportunity costs 93 and democratic performance 30 priority setting in public services 91 as measure of performance 65-6 ordinal scales 69, lifestyle data, inclusion in geodemographic organizational culture and control 77-80, indicators 183-4 organizational innovation 199-200 Likert scale 69 organizational performance 29-30, local authorities, performance classification scheme and public governance mode (empirical (England) 251 evidence) 33-4 in hierarchical governance modes 31, 32 macro-level performance measurement 71-2 in market governance modes 31, 32 management of performance 52 in network governance modes 31, 32 accountability of public sector managers 52 influence of performance indicators 29-30 application to policing 53-4 panel selection, use of geodemographic indicators clash with public sector professional values 52 unintended effects of performance measurement in the public sector 188 partnerships management processes, link with performance implications for public management 16-17 public-private partnerships 27-8 management theory, application to public services PBMA see programme budgeting and marginal 7-10, analysis (PBMA) margin concept 93 performance 29-30, marginal analysis, priority setting in public services accountability of police behaviour 49-51 91 see also programme budgeting and as a continuous process 49 as a discrete event 48-9 marginal analysis (PBMA) market control 77-8, as object of accountability 48-9 market modes of governance 28-9, as results 49 and public service performance 31, 32 as theatre 49



More information

293

Index

link with management processes 17-19 bureaucratic control 77-8, multi-dimensional construct 48-9 control by clan 77-8, problems related to understanding 48-9 control mechanisms 77-80, process approach 48-9 cybernetic metaphor of control 76-7, qualitative assessment 48-9 dangers of oversimplified PIs 82-4 feedback control 76-7, quantitative assessment 49 performance assessment, current themes and future grid: group theory of control 78-9, handling statistical uncertainty 82-4 directions 283-5 performance classification schemes (England) market control 77-8, 250 - 5organizational culture and control 77-80, criminal justice 254-5, political control 76-7, education 252 professional activity 81-2, fire service 253-4 routine control 76-7, health 250 uncertainty in public service provision 80-1, local authorities 251 police services 254-5 performance measurement in public services prison service 254 provision 66-8 social services 251-2 central control aspect 68 performance gap theory 220-1 New Public Management 66-7, 68 performance indicators political aspect 68 combining baskets of measures 70-1 reasons for measuring performance 68, correlations between component measures 71 Royal Statistical Society recommendations 68, dangers of oversimplification 82-4 82 - 4symbolic aspect 68 influence on organizational performance 29-30 introduction in public services 237-8 typical approach (UK example) 67 relative weighting of different measures 71 performance measurement methods use of multiple criteria 70-1 Balanced Scorecards 70 performance measurement basics 68-9 costs of a performance measurement system baskets of measures 70-1 combining measures into performance effects on people whose performance is being indicators 70-1 measured 72-5 macro level performance measurement 71-2 ossification effect on management 72 performance measurement systems perverse effects and unintended consequences aims 134-5 72-3 conventional explanations for failures 135-6 potential for dysfunctional effects 66 failure to produce desired effects 134 public consultation 74 multiple and conflicting rationalities 135-6 results (outputs and outcomes) 65-6 negative effects of 134 star ratings (NHS Trusts) 74 rationale for 134-6 tunnel vision effect on management 72 performance measures and situated rationality of work organization types of performativity 75 virtualism in Best Value practices 73-4 why it matters 65-6 communicative rationality 148-9 performance measurement basics 68-9 technical rationale for identifying targets 144-5 interval scales 69. underlying assumptions 239-41 Likert scale 69 performance measures applied to the health sector nominal scales 69 age-standardized death rates (SDR) for major ordinal scales 69, diseases 122-5, ratio scales 69, cost-weighted output index (CWOI) 129-30 star ratings 69, dangers of management by numbers 131-2 disease-specific microeconomic studies 126-8 performance measurement in New Public Management 76-84, impact of health status of the population 125 ambiguity in public service provision 80-1, 82-4 input measures 130-1

approaches to control 76-7,

lack of a theoretical framework 128-9



More information

294 Index

performance measures applied (cont.) regulation of police powers and responsibilities life expectancy 122, 123, 124, 125 limitations of quantitative data 131-2 tension with ethical responsibilities 50-1 macroeconomic indicators 121-6, see also performativity in policing outcome measures 129-30, police performance management 53-4 output measures 129 chief constable accountability 53 performance relative to resources 121-8, data collection and reporting 53 theory of productivity measurement 128-31 National Intelligence Model process 53 total health expenditure 121-6, performance regime 53 WHO 'attainment' index 125-6, resource allocation issues 53-4 WHO efficiency of health provision indicator unique aspects of policing 53 policing governance 55-6 performance measures in government chief constable roles and accountability 55-6 political significance 139-42 competing power relations 55-6 rationalized myths 139-42 diverse demands of stakeholder groups 56 performance metrics 17-19 Home Office role 55-6 police authority role and accountability 55-6 interpretation of data 18-19 link to actual service performance 18-19 The Police Act (1996) 55-6 reliability and validity 18-19 tripartite governance structure 55-6 performativity weakness of governance structures 60 consequences of 46 policy and governance, confusion of roles 60-1 definition 46 policy and police performance 56-7 effects of performance measurement 75 policy contexts for public service management 8, historical approach in the public sector 47-8 19-20 limitations in the public sector 47-8 external environment 19-20 limitations of quantitative approaches institutional field 20 61 - 2internal context 20 meanings of the term 75 levels of analysis 19-20 performance as multi-dimensional construct policy issues public as consumer 56 performativity in policing 57-9 public as taxpayer 56 accountability of modes of control 58-9 political aspect of performance measurement 68 control mix 58 political context of public service management 8 information-led approach 58-9 political control 76-7, legitimating principles 58-9 priority setting in public service commissioning legitimation of knowledge 58-9 challenge of competing demands 89-90 limitations of quantitative approaches cost-benefit analysis (CBA) 91 cost-effectiveness analysis (CEA) 91 National Intelligence Model (NIM) 58-9 lack of capacity to implement guidance 92 performance-driven approach 58-9 marginal analysis 91 sub-cultures within police forces 58 multi-disciplinary approach 92 tensions between modes of control 58 need for a decision-making framework 91-2, pluralistic governance model 54, 60-1 need for qualitative economic research 91-2 police performance 49-51 opportunity costs 91 accountability of police behaviour 49-51 role for economics 91-2 intelligence-led approach 51 see also programme budgeting and marginal National Intelligence Model (NIM) 51 analysis (PBMA) performance classification scheme (England) priority setting in public services 254-5 Balanced Scorecard 101, 102-3, Best Value 101, 103-4, performance-driven regime 50-1 performance measurement initiatives 50-1 prison service, performance classification scheme Police and Criminal Evidence Act (PACE) (England) 254 private sector management ideas, application to 1984 49 policy issues 56-7 public services 6-7



More information

295

Index

process innovations 220	organizational performance 33-4
and organizational performance, empirical	system performance 35-6
research 228-31,	public governance forms, embodied assumptions
product innovation 199-200	32–3
productivity measurement theory 128-31	public interest companies 27-8
productivity performance indicators	public management
application in the public sector 115–16	accountability for performance 52
private sector 115	comparison with public administration 13
tools for policy analysis 115	definitions 13–15
professional practice	governance concept 28-9,
intrinsic control 81–2,	implications of governance 16–17
performance measurement in public services	importance in public service improvement
81–2,	13–16
professional values, clash with performance	link with performance 17-19
management 52	networked governance concept 14-15
programme budgeting and marginal analysis	new public management concept 13-14
(PBMA) 60–1, 93	policy contexts 19–20
application of PBMA in organizations 95	see also pubic service management
basic principles 93	public management research
concept of 'the margin' 93	case study approach 20, 21
cost-benefit analysis 93	methodologies 20-1
creation of a management process 95	qualitative approaches 20, 21
lack of uptake by NHS PCTs 95	quantitative approaches 20–1
opportunity cost concept 93	public–private partnerships 27–8
questions about resource use 93–5,	public sector initiatives
programme budgeting and marginal analysis	Balanced Scorecard 101, 102-3,
(PBMA) model 105–8,	Best Value 101, 103-4,
evaluation tool for PBMA studies 107-8	public sector performance
points for future priority-setting exercises 107	accountability issues 46–7
programme budgeting and marginal analysis	historical approach to performativity 47-8
(PBMA) process 95–100,	influence of new public management (NPM)
advisory panel 96	47-8
aim and scope of the priority-setting exercise 95–6	limitations of performativity 47-8
decision-making criteria 96, 97	negative consequences of measuring
identifying options for change 96, 97	performance 47–8
programme budget 95–6	separation of policy, governance and
rating options for change 96, 97–9	management 46–7
releasing resources 96, 97	see also performativity
research evaluations 100-1	public sector performance measurement, use of
results of health care applications 100-1	Balanced Scorecards 70
supporting evidence and information 96, 99	public service change
public	differing values and priorities 285–7
changing expectations of public services 11	empirical studies 258
consultation in Best Value practice 74	growing complexity and pervasiveness 258-9
consumer policy issues 56	instrumentalism 260
taxpayer policy issues 56	knowledge-for-action concept 259-62
public administration, comparison with public	limitations of chaos and complexity theory
management 13	259–62
public governance, definition 29 see also	limitations of older theoretical conceptions 259
governance	limitations of the deductive approach 260–2
public governance and performance (empirical	managing change to improve services 274–6
evidence) 32–3	open systems theory 259
democratic performance 34-5	re-engineering 259
initial conclusions 36–8	social movement theory 259



296

Index

```
public service change planning framework 269-74,
                                                     public service failure turnaround strategies 238, 245-9
  applying the framework 274
                                                       contingent effectiveness of various strategies
                                                          238, 247-9
  change management themes 271
  characteristics of complexity dictating
                                                       evidence from the private sector 246-7
    management themes 271-2
                                                       improving low legitimacy 248-9
  componential aspect of change 272
                                                       improving poor performance results 247-8
  contextually dependent nature of change 272
                                                       methodological problems in case studies 245-6
  culture building and communication 271
                                                       reorganization 246-7, 248-9
  differentially impacting change 272
                                                       repositioning 246, 247-8,
  differentiated support 271
                                                       retrenchment 246, 247-8,
  flexible planning and coordination 271
                                                     public service improvement
  large-scale nature of change 271-2
                                                       conformance to a standard 10-11
  orchestration 269-71, 273
                                                       definitions 10-12
  orchestration imperatives 271-2
                                                       differing values and priorities 285-7
  sequential stages of the change process 272-3
                                                       government initiatives 11-12
  systemic change 272
                                                       range of approaches 10-11,
public service change theoretical conception 262-9
                                                       reasons for emphasis on 11
                                                     public service improvement framework 12-21
  ambiguity in the change process 264–5
  characteristics of complexity with management
                                                       governance and accountability 16-17
    implications 265-7,
                                                       management component 13-16
  complex change 263
                                                       performance metrics 17-19
  componential nature of complex change 265-7,
                                                       policy contexts 19-20
  contextual dependence of complex change
                                                       research methodologies 20-1
                                                     public service management
    266, 267
  coping through orchestration 267-9
                                                       aims of public organizations 9
  differentially impacting effects of complex
                                                       contextualized application of management
    change 266, 267
                                                          theory 9-10
  irony in the change process 264-5
                                                       contingent application of management theory
  large-scale nature of complex change 265, 266
  limited manageability of complex and
                                                       customer service provision 7-8
    programmatic change 264-5,
                                                       distinctive features 7-10
  programmatic change 263-4
                                                       factors affecting application of management
  role of visionary (transformational) leadership
                                                          theory 7-10
                                                       governance issues 8
  systemic nature of complex change 266, 267
                                                       influence of the external environment 8-9
                                                       nature of areas of operation 8-9
  transmissional leadership 268-9
                                                       nature of markets for services 7-8
public service failure
  assumptions underlying measures of
                                                       political and policy context 8
                                                       public value concept 9
    performance 239-41
  evidence for 237-9,
                                                       range of stakeholders 8-9,
  historical perspective 237-9,
                                                       see also public management
  impact of league tables 237
                                                     public service performance
  inspection systems 238-9,
                                                       and mode of governance 28, 30-1, 32
  introduction of performance indicators 237-8
                                                       relationship with governance arrangements 27-8
  legitimacy of service delivery methods 239,
                                                     public service reform movement 32-3
    241-5.
                                                     public services
  measureability of service outcomes 243-4
                                                       application of private sector management ideas
  poor results 239-41, 243-5
  relative importance of results and legitimacy
                                                       challenges to their size and influence 6-7
                                                       changing expectations of the public 11
  structuration of the institutional environment
                                                       contribution to well-being of society 5-6
                                                       expenditure as percentage of GDP 5-7
  types of failure 239-45
                                                       influence of neo-liberal ideologies 4-5, 6-7
  variations in performance of services 236
                                                       numbers of employees (direct and indirect) 5
```



297

Index

perspectives on 'big government' 6-7 social services, performance classification scheme role in economic competitiveness of a nation 5-6 (England) 251-2 scale and range of functions 4-5 society, public services contribution to well-being 5-6 why they matter 4-5 stakeholders in public services 8-9, see also New Public Management perception of innovations in public services 200 public value 9, 70 standards, conformance to 10-11 innovation in the public sector 203, 208-9 star ratings 69, 74 public value scorecard 70 structuration of the institutional environment 244-5 symbolic aspect of performance measurement 68 qualitative approaches, public management system performance 29, 30 research 20, 21 and public governance mode (empirical quality-adjusted life year (QALY) evidence) 35-6 definition and purpose 154-5 in hierarchical governance modes 31, 32 equivalence of CBA and CEA 157-9 in market governance modes 31, 32 studies on willingness to pay (WTP) 156-60 in network governance modes 31, 32 survey research value of a QALY 168-70 use in evaluation of health gain 154-5, top-down innovation in the public sector 202 use of VPF to model the value of a QALY 167-8 valuation studies 156-60 uncertainty in public service provision 80-1, 82-4 quantitative approaches limitations of performativity 61-2 value of preventing one statistical fatality (VPF) public management research 20-1 quasi-governmental partnerships 27-8 value of statistical life (VOSL) 162-3 see also value of preventing one statistical fatality (VPF) ratio scales 69, valuing health 154-60 re-engineering 259 combining safety and health valuation 167-70 relative valuation approach to valuing safety 164-5 future research agenda 167-70 reorganization, turnaround strategy 246-7, 248-9 learning from safety valuation 160 repositioning, turnaround strategy 246, 247-8, NICE evaluation methods 154-6 research agenda (governance and performance) quality-adjusted life years (QALYs) 154-6 38-42 survey research value of a QALY 168-70 alternative causalities 38-41 use of VPF to model the value of a QALY 167-8 examination of assumed causality 38-41 valuing a QALY 156-60 interpretivist approach 42 willingness-to-pay (WTP) 155-6 reformulating the research design 41-2 willingness-to-pay (WTP) for a QALY 156-60 valuing safety 160-7 research methodologies altruism and the WTP-based VPF 163 case study approach 20, 21 public management research 20-1 combining safety and health valuation 167-70 qualitative approaches 20, 21 contingent valuation (expressed value) quantitative approaches 20-1 approach 164 results (outputs and outcomes), as measure of economic effects of safety improvements 163 performance 65-6 empirical estimation of WTP-based values 164-5 retrenchment, turnaround strategy 246, 247-8, figures applied in various countries 165 revealed preference (implied value) approach to gross output (human capital) approach 161 valuing safety 164 relative valuation approach 164-5 routine control 76-7, reliability and validity concerns 165-7 revealed preference (implied value) sampling, use of geodemographic indicators in approach 164 the public sector 188 value of preventing one statistical fatality (VPF) service innovations 199-200, 220 value of statistical life (VOSL) 162-3, and organizational performance, empirical research 228-31, willingness-to-pay (WTP) approach 160-7, social change, impact on public services 11 WTP-based VPF 162-3, social movement theory 259 VPF (value of preventing one statistical fatality) 162-3,



More information

298

Index

weighting of different performance measures 71
WHO (World Health Organization)
'attainment' index 125–6,
efficiency of health provision indicator
125–6,
WTP (willingness to pay), definition and purpose
155–6
WTP (willingness to pay) for a QALY
empirical studies 159–60
equivalence of CBA and CEA 157–9
health economics studies 156–60
theoretical perspectives 157–9

WTP-based values of safety
contingent valuation (expressed value)
approach 164
empirical estimation approaches 164–5
figures applied in various countries 165
relative valuation approach 164–5
reliability and validity concerns 165–7
revealed preference (implied value)
approach 164
WTP-based VPF 162–3
economic effects of safety improvements 163
effects of altruism 163