Index

action plan 146–7
action research 47–8, 131
action theory 42
aetiology 65
Agency for Healthcare Quality Research (AHQR) 103, 115–16, 152
allied health professions 10, 104, 124–5
appendices 102
appraisal, critical criteria 77–8
economic evaluation studies 83–6
expert opinion 86–8
guidelines 113–14
purpose, meaningfulness 89
randomised controlled trials (RCTs) 76, 77–8
systematic reviews 74–5
validity criteria 80, 81, 83
see also tools
Appraisal of Guidelines Research and Evaluation (AGREE) 113
appropriateness
defined 20, 28, 29, 64
evidence sources 49
interventions 92
model 18, 20, 36, 96–7, 111, 154
recommendations 102
sources 86–7
study method 78–9
see also validity
Aristotle 47
article retrieval 70
see also database searching
assessment
clinical question source 63
criteria 61–2, 80
database 66
research quality 61–2
standards 81
system 96–7, 175, 176
tool, effectiveness 151
validity 86
audit, clinical
cycle 142
feedback process 129, 130, 138, 147
goals 140
key stages 141–8
methodology 149
planning 141–2, 146
process, described 141
re-auditing 147
report writing 148–9
research links 151
strategies 148
tools 149–51
Audit-maker 150
Australasian Cochrane Centre 7
Australasian Centre for Evidence-based Clinical Practice 150
Austrom database 66
balance 30–1, 40
barriers to change 104, 115, 119, 120–2
behaviour changing 129, 147
best available evidence 6, 8, 32, 64, 86
bias 48–9, 75–7, 80, 81
blinding 75, 76, 78
Bolam test 160–2
Boolean operators 67
budget preparation 135
case standards
best practice 6, 9, 142–3, 144
dissemination 107, 144
establishment 140
legal matters 156, 158, 159–60
negligence 160–2
quality 113, 139, 139
see also guidelines
case control studies 79–80, 182
category defined 96
CDSS (clinical decision support system) 128
Centre for Evidence-Based Medicine, Oxford, UK 108
change
barriers 104, 115, 119, 120–2
emotional cycle 123–4
implementation 125–6, 130
management 118–19, 122–3, 127–31
models 130–2
monitoring and evaluation questions 126–7
planning 125
187
resistance to 122-3, 124-5
strategy development tools 127-31
checklists 88-9, 102, 113, 175, 177-82
see also forms; questions
citation management 68
clinical decision support system (CDSS) 128
clinical decision-making see decision-making
clinicians 30
Cochrane Collaboration 5-6, 96, 175
Cochrane Database of Systematic Reviews 54, 65
cohort studies 78-9, 181
communication 126, 148, 165-6
confounding factors identification 80
congruity 81-2
consensus vs. evidence 105
consumers
decision-making involvement 139
evidence 30-1, 34-5
guideline development involvement 112-13
information requirements 34
participation 163-4
roles 10-11
systematic reviews 23
see also patients
cost effectiveness 6, 84-6, 158, 161
creative adoption 133
criteria
critical appraisal 77-8
exclusion 92, 102
inclusion 59-60, 83, 92, 102, 174
outcome 144
process 144, 145
qualitative data synthesis 95
quality assessment 61-2
quantitative 143-4
structure 144-5, 147
validity 80, 81, 83
critical appraisal see appraisal, critical
criticisms 11-14
culture 45, 92, 131
Cumulative Index to Nursing & Allied Health (CINAHL) database 65
Current Contents index 65
data
analysis 43, 92-5
collection
issues 134
methods 43, 82, 91
questions 54, 63-4, 126-7, 174
tools 62, 89-92, 145, 175-6, 183-6
see also literature, searching
continuous 94, 184
dichotomous 93, 184
evaluation 145
presentation 94-5
sources 145
synthesis 62, 95-6, 176
see also evidence; knowledge
Database of Abstracts of Reviews of Effects (DARE) 54, 65-6
database searching 54, 65-9, 115-16, 174-5
see also information technology
decision-making
decision support system (DSS) 128-9
evidence-based 4-5, 17
information sources 31
knowledge requirements 28
resource allocation 156-7
toolkits
change evaluation 149
change implementation 130
clinical guidelines development 105
evidence translation 30
research evidence quality 89
research evidence types 49
search strategy 64
demands 3
developing countries, health care
development 7-8
diagnosis 63
diagnostic analysis 138-9
dialectic transaction 41-2
diffusion of innovation model 129, 131-2
dissemination 107, 144
dissertation abstracts 66-7
dissonance 125
dropout 78, 79, 80
DSS (decision support system) 128-9
education 127-8, 139, 147, 162
effectiveness
assessment tool 151
cost- 6, 158
defined 20-1, 28, 29-30, 139
evidence sources 50
improvement 8, 138
increase desire 6
interventions 4-5, 92
model 18, 20, 36, 96-7, 111, 154
outcomes 8, 140
randomised controlled trials (RCTs) 30
reviews 93
strategies implementation 151
Einstein, Albert 16, 36
Embase database 66
ethical issues 134
ethnography 45, 49
evaluation 83-6, 133-5
see also audit, clinical evidence
applicability levels 108, 109, 112
generation 18-21, 36-51
hierarchy tables 108, 110
legal definition 31-2
qualitative 81-3
quality 88, 89, 107-8
transfer into practice 119-20, 125-6, 130-1, 149-50
types 49
utilisation 25, 118-36, 137-52
see also data; findings; knowledge
evidence-based medicine (EBM) defined 1, 5
evidence-based practice centres
Australasian Cochrane Centre 7
Australian Centre for Evidence-based Clinical Practice 150
Centre for Evidence-Based Medicine, Oxford, UK 108, 109
establishment framework 6-7, 10
National Health Service (NHS) Centre for Reviews and Dissemination (NHS CRD) 7, 137, 138, 175
see also Joanna Briggs Institute (JBI)
exclusion criteria 92, 102
experience 33
experts 23, 32, 33, 86-8, 134
FAME (Feasibility Appropriateness Meaningfulness Effectiveness) model 18, 20, 36, 96-7, 111, 154
feasibility defined 19, 28
evidence sources 19, 28, 49
interventions 92
model 18, 20, 36, 96-7, 111, 154
practice implementation 64, 73
Feasibility Appropriateness Meaningfulness Effectiveness (FAME) model 18, 20, 36, 96-7, 111, 154
feedback process 129, 130, 138, 147
feminist research 48-9
findings 22, 64-9, 95, 149
see also data; evidence
fixed effect model 94
forms 56, 90, 177-86
see also checklists; information, sheets
Foucault's definition of discourse 87
funding bodies, clinical audit involvement 141
Getting Research Into Practice (GRIP) 151
GIN (Guidelines International Network) 103, 115
goals, clinical audit 140
government, clinical audit involvement 141
graphs 94-5, 102
GRIP (Getting Research Into Practice) 151
guidelines allied-health-specific 104
appraisal presentation 114
basis 101
clinical defined 103
critical appraisal checklists and tools 113-14, 177-82
development consumer involvement 112-13
defining best practice 143
evidence use promotion 9
sources 149
strategies 6, 100-1, 105-7
tools 115-16
establishment framework 140
implementation 118-36
improved compliance 165
medicine-specific 104
nursing-specific 104
paradigms 38-42
revision requirement 107
role 114-15, 161
see also care standards
Guidelines International Network (GIN) 103, 115
Habermas, Jurgen 46-7
health, improvement, global 17, 19
hermeneutics 47
High Technology Assessment Database 66
inclusion criteria 59-60, 83, 92, 102, 174
indicators 143-4
information access 148
collection 91
decision-making sources 31
management 96-7, 137, 175, 176
requirements, consumers 34
sheets 102, 113, 175, 177-82
systems 128
see also data; evidence; knowledge
information technology 164-6
see also database searching
innovation 129, 131-2
interests, human 46-7
International Guideline Library 115
internet 67
interventions
cost-benefit analysis 84
defined 90, 91
evaluation 92
identification 37
smoking cessation 27, 87, 100, 173-6
types 174
Joanna Briggs Institute (JBI)
effectiveness improvement role 8
establishment, Australia 7
evidence hierarchy adoption 108, 110
guidelines development 103
model 18, 27, 96-7, 154, 166-7
nursing practice evidence need 17
online libraries 115-16
outcomes effectiveness improvement
8
review protocol 55, 56
journal searching 68
see also database searching; literature, searching
King, Witney, Jnr. 118
knowledge
generation 39
interests 46-7
management 156
practical defined 46
requirements, decision-making 28
transfer 24
translation 133
see also data; evidence; experts; opinion
knowledge and human interests 46
knowledge retention from postoperative patient information 58, 59-60
legal definition of evidence 31-2
legal implications 158, 159-61
legal regulation 156
librarian help 67, 68-9
Lincoln, Abraham 154
literature
data synthesis 62
evaluation 57
quality 102
reviews 6, 22, 101
searching 65, 67-70
see also database searching
selection 59, 60
managers 141, 156-7
marketing 127, 130
mean difference 94
meaningfulness
critical appraisal purpose 89
data 93
defined 20, 28, 29
evidence sources 50
evidence types 49
model 18, 20, 36, 96-7, 111, 154
understanding the experience 64
within defined cultural or geographical context 73
Medline database 66
mental health 10
meta-analysis 12, 21-2, 93, 94
see also quantitative methods
meta-synthesis 23, 95
see also qualitative methods
methodology
approaches 31, 81-2
clinical audit 149
data collection 43, 82, 91
meta-analysis 12, 21-2, 93, 94
meta-synthesis 23, 95
phenomenology 45
research 31, 43, 47, 81-2
reviews 23, 32, 52, 54-5
statistical analysis 22-3, 78
study method appropriateness 78-9
see also qualitative methods;
quantitative methods
models
behaviour, social influence 129
for change 130-2
construction 166-7
evidence for practice 27-35
FAME 18, 20, 36, 96-7, 111, 154
fixed effect 94
mathematical 94
PACES 150-1
PDSA 131
random effects 94
reviews 96-7, 175, 176
SUMARI 96-7, 175, 176
transtheoretical 132
Monash Institute of Health Services Research 7
mud map, research approaches 37-8
Index 191

National Guidelines Clearing House 115
National Health and Medical Research Council (NHMRC) 116, 120
National Health Service (NHS) 163-4
National Health Service (NHS) Centre for Reviews and Dissemination (NHS CRD) 7, 137, 138, 175
National Institute for Clinical Studies 152
National Institute for Health and Clinical Excellence (NICE) 103, 152
National Institutes of Health 6, 100
negligence 160-2
Nurses, clinical audit involvement 140-1
objectives 149
odds ratio 93
opinion 23, 32, 75, 86-8, 129
optimism 123
organisational context 156-7
organisations 103, 104
orientation, cultural and theoretical, researchers 82
outcomes
assessment criteria 80
continuous data 94, 184
cost-benefit analysis 84
criteria 144, 145
effectiveness improvement 8
improvement 3, 165
measure
blinding 78, 79
cost 85
form 184
quality life years (QALY) 84
reporting 90
types 174

Oxford Centre for Evidence-Based Medicine, evidence levels 109
PACES (Practical Application of Clinical Evidence System) 150-1
paradigm 38-42, 43, 46, 47
participant representation 83
participant types 174
patients
clinical effectiveness focus 140
demands 3
follow-up 78, 79
hospitalised, smoking cessation strategies 173-6
involvement 148
see also consumers; smoking cessation
PDSA (plan-do-study-act) model 131
Pearson, A.
alternative approaches 30-1
document text examination processes 86-7
evidence evaluation 111
pluralistic approach 32, 34-5
qualitative data synthesis 95
validity criteria 81-3
pessimism 123
phenomenology 44-5, 50
philosophers 31-2, 39, 46
philosophy 44-5, 81
plan-do-study-act (PDSA) model 131
planning
action plan 146-7
change 125
clinical audit 141-2, 146
practice improvement 149
urban 162-3
policy 158, 162-3
positivism 38-41, 43, 46
Practical Application of Clinical Evidence System (PACES) 150-1
practice
best 6, 9, 142-3, 144
development 3
grounded in theory 13, 16
identification 37
implementation feasibility 64, 73
improvement, planned 149
information sheets 102, 113, 175, 177-82
recommendations 105, 106, 107-12
theory, embedded in 41
praxis 47
presentation 94-5, 106-7, 114
prevention 64
process criteria 144, 145
professionals, health 3-4, 32-3, 140-1
prognosis 63
programme evaluation 134
proposal development 54
PsycINFO database 65
qualitative methods
best available evidence base 30-1
consumer information research 34
data extraction 90-2
data synthesis criteria 95-6
qualitative/quantitative debate 40, 42-3
research evidence assessment, standards 81
research review methods, evolving 32
results synthesis 23
systematic reviews inclusion 35
quality
analys 138–9
assessment, research 61–2, 103, 115–16
assurance 134
care 113, 139, 159
continuous monitoring and improvement 165
quality of life years (QALY) 84
reporting 80, 83
studies 89
see also audit, clinical; care standards
quantitative methods
criteria 143–4
data extraction 89–90
positivist paradigm 39–40
quantitative/qualitative debate 40, 42–3
results synthesis 22
systematic review example 54–5
systematic reviews inclusion 35
see also randomised controlled trials (RCTs)
quasi-experimental studies 44, 77–8
questions 63–4, 126–7, 174
see also checklists
random effects model 94
randomised controlled trials (RCTs)
critical appraisal 76, 77–8
effectiveness 4, 30
evidence-based practice reliance on 12
guidelines development basis 105
limitation 16–17, 32, 35
systematic review 5–6
validity 75–6
see also qualitative methods
rationalism, economic 161
re-auditing 147
realism, hopeful 123
reality defined 44–5
recommendations, grading 105, 106, 107–12
references 102
reminders 128, 130
report writing 100, 102, 148–9
reporting quality 80, 83
research
approaches 37–8, 44–9
defined 37
experimental 43–4
feminist 48–9
paper weaknesses checklist 88–9
process rigour 74–5, 86, 113–14
quality assessment 61–2
quasi-experimental 44
review methods 32
theoretical underpinnings 91
utilisation 157
weighted with internal sources 34
see also methodology; qualitative methods; quantitative methods; randomised controlled trials (RCTs); systematic reviews
research and development (R&D)
strategies development 6–7, 101
researchers orientations 82–3
resistance to change 122–3, 124–5
resource allocation, decision-making 156–7
Review Manager (RevMan) 96, 176
reviews see systematic reviews
reviews, systematic
administrators other disciplines 134
critical appraisal 74–5
databases 54, 65–6
deﬁned 101
effectiveness 93
guidelines 101, 104
literature 6, 22, 101
management 96, 176
methods 23, 32, 52, 54–5
models 96–7, 175, 176
objectives 58, 102
peer 149
protocol 52, 54, 55–63, 102, 173–6
questions 54, 174
reports 100, 101, 102
study selection 69–70
synthesis 21, 52–71
theory 52
title 56
see also randomised controlled trials (RCTs)
RevMan (Review Manager) 96, 176
rigour 74–5, 86, 113–14
risk 93–4
Russell, Bertrand 27
Schutz, Alfred 41
Schweitzer, Albert 99
Science Citation Index 66
Scottish Intercollegiate Guidelines Network (SIGN) 103, 115
search strategy 60–1, 174–5
self-consciousness 47
self-improvement 64
self-knowledge 46–7
sensitivity analysis 85–6
SIGN (Scottish Intercollegiate Guidelines Network) 103, 115
Silagy, Chris 7
situation analysis 126–7
smoking cessation
acupuncture effectiveness 37, 41, 51, 54
advice provision establishment 146–7
appropriate review question 54, 55
cultural influence 53, 79
evidence requirements 33, 35
feasibility evidence 28
guidelines 138
interventions and strategies 27, 87, 100, 173–6
knowledge translation 133
literature identification 73
quantitative review 54–5
randomised controlled trials (RCTs) 77
review protocol development 57
unsuccessful 2, 4
social influence model of behaviour 129
sources
alternative to research 33–4
clinical questions 63–4
data 145
decision-making information 31
effectiveness evidence 50
evidence generation link 20–1
guidelines development 149
identification 87
meaningfulness 50
valid forms 23
stakeholders 113, 140–1
see also consumers
standardised differences in mean 94
standards 23, 81
see also care standards
statistical analysis 22–3, 78
see also meta-analysis
strategies
audit 148
change management 127–31
development, research and
development (R&D) 6–7, 101
guidelines development 6, 100–1, 105–7
implementation effectiveness 151
search 60–1, 64–5, 174
smoking cessation 27, 87, 100, 173–6
structure criteria 144–5, 147
studies
description 102
interpretive 81–3
method appropriateness 78
results form 184
selection 52, 69–70
types 174
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>transfer, evidence into practice 24,</td>
</tr>
<tr>
<td>119–20, 125–6, 130–1, 149–50</td>
</tr>
<tr>
<td>transtheoretical model 132</td>
</tr>
<tr>
<td>truncation 67</td>
</tr>
<tr>
<td>defined 74–5</td>
</tr>
<tr>
<td>establishment 87</td>
</tr>
<tr>
<td>FAME model 111</td>
</tr>
<tr>
<td>weighted mean difference 94</td>
</tr>
<tr>
<td>wild card 67</td>
</tr>
<tr>
<td>world wide web 67</td>
</tr>
<tr>
<td>writing 47, 102, 148–9</td>
</tr>
<tr>
<td>validity</td>
</tr>
<tr>
<td>assessment 86</td>
</tr>
<tr>
<td>cohort studies 181</td>
</tr>
<tr>
<td>criteria 80, 81, 83, 88</td>
</tr>
</tbody>
</table>