Making psychological theory useful for implementing evidence based practice: a consensus approach

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Background: Evidence-based guidelines are often not implemented effectively with the result that best health outcomes are not achieved. This may be due to a lack of theoretical understanding of the processes involved in changing the behaviour of healthcare professionals. This paper reports the development of a consensus on a theoretical framework that could be used in implementation research. The objectives were to identify an agreed set of key theoretical constructs for use in (1) studying the implementation of evidence based practice and (2) developing strategies for effective implementation, and to communicate these constructs to an interdisciplinary audience.

Methods: Six phases of work were conducted to develop a consensus: (1) identifying theoretical constructs; (2) simplifying into construct domains; (3) evaluating the importance of the construct domains; (4) interdisciplinary evaluation; (5) validating the domain list; and (6) piloting interview questions. The contributors were a ‘psychological theory’ group (n = 18), a ‘health services research’ group (n = 13), and a ‘health psychology’ group (n = 30).

Results: Twelve domains were identified to explain behaviour change: (1) knowledge, (2) skills, (3) social/professional role and identity, (4) beliefs about capabilities, (5) beliefs about consequences, (6) motivation and goals, (7) memory, attention and decision processes, (8) environmental context and resources, (9) social influences, (10) emotion regulation, (11) behavioural regulation, and (12) nature of the behaviour.

Conclusions: A set of behaviour change domains agreed by a consensus of experts is available for use in implementation research. Applications of this domain list will enhance understanding of the behaviour change processes inherent in implementation of evidence-based practice and will also test the validity of these proposed domains.
success of future implementation research is likely to be enhanced by applying psychological explanations of behaviour change rather than models that simply predict behaviour. Consequently, a useful first step would be to identify those theories and component parts of theories—that is, theoretical “constructs” that relate to behaviour change. These theories are likely to identify opportunities and methods for intervention.

A previous theory simplification exercise by leading psychological theorists Fishbein,14 Bandura,15 Triandis,13 Kanfer,12 and Becker11 led to a consensus on constructs relevant to HIV research on behaviour. However, it is not clear how this consensus was reached or how relevant these constructs might be for research on the implementation of EBP. Furthermore, the framework developed by Fishbein et al16 was published for a psychology readership. Since research on the implementation of EBP is frequently conducted by non-psychologists, it would be valuable to make such a framework accessible to non-psychologists.

This paper presents the method and results of a project which aimed to identify an agreed set of key theoretical constructs and reaching a consensus about how related theoretical constructs are best grouped into categories or “domains”. This psychological “theory group” comprised 18 UK health psychologists with a range of research interests in organisational, clinical, social and public health psychology. One third of the group had experience of working as clinical or organisational consultants within the NHS.

**Health psychology theorists**

Health psychology theorists (theory group) with an interest in theoretical approaches to implementation research and behaviour change had the task of identifying theoretical constructs and reaching a consensus about how related theoretical constructs are best grouped into categories or “domains”. This psychological “theory group” comprised 18 UK health psychologists with a range of research interests in organisational, clinical, social and public health psychology. One third of the group had experience of working as clinical or organisational consultants within the NHS.

**Health services researchers**

Health services researchers involved in implementation research were included to give critical feedback on the proposed list of construct domains. The “health service research (HSR) group” comprised 16 implementation researchers from an international research collaboration funded by the UK Medical Research Council. It comprised three general practitioners, one public health specialist, two dentists, one pharmacist, three statisticians, one health service researcher, three sociologists, and two psychologists. Three were from the Ottawa Health Research Institute in Canada and one was from the Centre for Quality of Care Research, Nijmegen, the Netherlands.

**Health psychologists**

Health psychologists without a specific expertise in theory, implementation research or behaviour change were included as a validation exercise. The “health psychology (HP) group” comprised 30 delegates at a national health psychology conference.

**Procedure**

The work was carried out in a series of five meetings, with intervening homework tasks, between May 2003 and July 2004. The procedural steps are summarised in fig 1. They were planned and facilitated by the first two authors and records were kept of all meetings and tasks. There were six stages to the work:

- identifying theories and theoretical constructs (theory group);
- simplifying into theoretical domains (theory group);
- evaluating the importance of the theoretical domains (theory group);
- interdisciplinary evaluation (theory group with HSR group);
- validating the domain list (HP group); and
- pilot interview questions (theory group alone and then with HSR group).

**Identifying theories and theoretical constructs (theory group)**

In an initial brainstorming session, participants identified as many psychological theories and theoretical constructs as possible that were relevant to EBP implementation. Theoretical constructs were defined as component parts of

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**Box 1 Hand hygiene: a practical example of the problem of implementing evidence-based practice**

In 2002 a report by the Chief Medical Officer stressed that hand hygiene was the most important factor in preventing infections associated with health care. Attempts have been made to increase this simple activity, many based on increasing the numbers of sinks and making an alcoholic based rub more widely available. A recent study of hand hygiene in an emergency department found that hand hygiene was poor, particularly between consultations and even when the procedures were non-urgent. The approach adopted in this paper acknowledges the organisational constraints (resources, facilities, time) that mitigate against changes in evidence-based practices such as hand washing.

At the same time, the approach acknowledges that psychological factors also have a role in precipitating or stifling behaviour change. For example, at the motivational level, it may be that local group norms clearly prioritise throughput rather than hygiene, and repeated hand washing is seen as obsessive. Alternatively, there may be an attitude amongst staff that hand hygiene has little to do with the rates of infection (beliefs about the consequences). Finally, the problem in making the change may be in action initiation—for example, healthcare staff are aware of the need for hand washing but forget to carry it out. In this case, local cues to action—for example, patient reminders to staff, may be necessary to increase rates. The solution to implementing the evidence-based practice very clearly depends on the problem. The development of the framework described here attempts to do just this—it helps identify and understand the problem.26

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**METHODS**

**Contributors**

Three groups of experts were identified and were invited to contribute to the project.

As well as the main working group of health psychology theorists, two further groups played distinctive roles in refining and validating the findings: a multidisciplinary group was asked to give feedback on the utility of the approach to health services research, and a psychological group to carry out a backward validation exercise.

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Evaluating the importance of the theoretical domains (theory group)
Following the second meeting, participants individually evaluated the list of theoretical domains for coherence, for overlapping constructs, and for relevant constructs that had been omitted from the list generated in the first stage. This fed into discussions in two independent subgroups of the theory group and then a plenary discussion, which generated an agreed list of domains encompassing the set of theories and constructs.

Interdisciplinary evaluation (theory group with HSR group)
The theoretical domains were evaluated in relation to their utility to health service researchers, particularly in relation to evaluating behaviour change interventions. Domains were ranked in importance by assessing which were essential, and comparing and matching the domains with a list of factors influencing behaviour that had been generated by a group of leading psychologists in the USA.10

Validating the domain list (HP group)
Having simplified the list of constructs into domains, a “backward validation” exercise was undertaken whereby participants were provided with the list of domains and asked to identify theories and constructs reflecting the content of each domain. Each of the 30 HPs did this individually. In order to identify the key constructs within each of the domains, four groups were then each given three of the domains and asked to agree the three most important constructs in each domain.

Pilot interview questions (theory group alone and then with HSR group)
Both the theory group and the HSR group were asked to generate interview questions that would (a) assess the nature of behaviour change required to achieve a recommended change in healthcare practice and (b) identify the domain of theoretical constructs relevant to understanding the behaviour change processes necessary to achieve the desired behaviour. These questions were designed to assist implementation researchers and service managers in identifying behaviour change explanations and processes relevant to desired behaviour change. Both open and closed questions were included.

Agreed questions were then piloted in role plays by the theory group and the HSR group. Refined questions were field tested in interviews with healthcare professionals and service managers involved in implementation of EBP. Interviewees were identified and interviewed by members of the theory group. A list of the interviews is given in box 2.

Feedback on the utility of these interviews in identifying what might be changed in implementing specific guidelines was then considered by members of the theory group and resulted in an amended set of interview questions.

RESULTS
Identifying theories and theoretical constructs
128 explanatory constructs drawing on 33 psychological theories were identified (see Appendix 1).

Simplifying into theoretical domains
Of the 128 constructs, 17 were prioritised as key constructs relevant to interdisciplinary research into understanding and changing behaviour and 14 constructs were prioritised as particularly relevant to changing the behaviour of healthcare professionals. The latter were: reinforcement/reward/incentives/perceived contingent reward; perceived control/self-efficacy; intention; action planning/implementation

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Figure 1 Flow chart to illustrate the procedural steps.

Theoretical constructs relevant to interdisciplinary research and (b) intervening to change the behaviour of healthcare professionals. The aim of this procedure was to limit the overall number of constructs while allowing for input from a range of perspectives.

In a second meeting two subgroups of the theory group independently grouped these prioritised theories and constructs into core domains. A domain was defined as encompassing a set of similar theoretical constructs. The two groups were asked to limit the number of domains generated to between 5 and 9 as research has shown that short term memory deteriorates markedly when asked to recall more than 7–9 items, and the aim was to create an accessible and memorable summary of behaviour change theory. The two domain lists were compared and a composite summary list agreed through discussion.

Finally, participants of the theory group were asked to allocate each of the theories and constructs to the agreed list of domains. When a construct was assigned to a domain by at least 50% of group members* it was retained as a construct relevant to the domain.

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*The 50% criterion was arbitrary but a more demanding definition of consensus than a simple majority. If there was little consensus about allocation of a construct to a particular domain, then the greatest number of group members supporting that allocation could be as low as two since the construct could have been assigned to different domains by all other group members.
Box 2 Pilot interviews

- Two GPs about implementation of National Service Frameworks for coronary heart disease. 
- Two Research and Development leads 
  - Introduction of an algorithm to assist medical staff in assessing deep vein thrombosis risk. 
  - Implementation of a care of the dying integrated pathway. 
- Two midwives 
  - National Institute of Clinical Excellence guideline re cardiotocograph monitoring. 
  - Ward based guideline re ruptured membranes. 
- Researcher in Department of Nursing and Midwifery investigating the implementation of an integrated care pathway for community mental health teams. 
- GP/implementation researcher re guideline to ensure diabetic retinopathy screening in primary care.

Evaluating the importance of the theoretical domains
Concerns with the above list included:

- “Social environment” might be better subdivided into organisational and individual influences. 
- “Physical environment” was ambiguous in relation to its inclusion of “antecedents” e.g. cues, stimulus conditions, priming. 
- “Goal intention” required further clarification. 
- “Nature of behaviour” could provide great guidance on the dimensions on which desired behaviours might vary. 
- There was no domain dealing with “cognitive processes” e.g. memory.

Checking against the theories and theoretical constructs identified in stage 1, it was agreed that two further construct domains were required: “memory, attention and decision processes” and “beliefs about EBP/guidelines”. The latter included professionals’ beliefs about guidelines—for example, about their origin, identity and time scale of implementation.

Interdisciplinary evaluation
Discussion of the utility of the domain list for health service researchers led to further refinement. The interdisciplinary group considered that “beliefs about EBP/guidelines” was part of a broader domain of “social/professional role and identity”. The “nature of the behaviour” domain was accorded a different order to the rest, as it describes the dependent variable rather than the influencing factors. The constructs assigned to “social/professional role and identity” and to “memory, attention and decision processes” were agreed by the authors after the domains were refined.

Validating the domain list
Checking that the domain list accurately reflected underlying theoretical constructs through forward validation showed that the theories and theoretical constructs allocated to the domains by the HP group corresponded closely to those generated at stage 1. This provided reassuring validation of the representativeness of the agreed list of domains. However, some additional constructs were identified for each domain.

The constructs assigned to domains, including those added by the validation exercise, are listed in the second column of table 1. The theoretical domains identified by Fishbein et al are listed (in parentheses) alongside these domains in the first column.

Piloting interview questions
The questions developed to identify the behaviour change processes likely to be most relevant to implementing specific examples of EBP are shown in the third column of table 1. These were discussed and agreed and subsequently underwent further modification as a result of feedback from in-group role plays and field testing with healthcare professionals and managers. Field interviews provided valuable insights into which domains were most relevant to implementation of particular recommended behaviours and also suggested possible intervention strategies. An illustrative interview is shown in box 3.

DISCUSSION
The key objective of the work reported here was to simplify psychological theory relevant to behaviour change and to make it accessible to those involved in EBP implementation. In particular, we have sought to develop a framework, grounded in psychological theory, that would be useful to (and usable by) researchers working with health service managers towards implementation of EBP. The resulting consensus identified 12 theoretical domains that should be considered when seeking explanations of failure to implement EBP and/or designing interventions to achieve improved implementation.

The agreed domains overlap with those identified by Fishbein et al in the context of promoting HIV preventive behaviour. Since the current consensus was reached independently of the Fishbein et al consensus and in the context of a different set of behaviours, this provides further validation of the domain list generated by the procedures we have described. The first column of table 1 shows the constructs identified by Fishbein et al and how they correspond to our domains. Our list includes four additional domains: “knowledge”, “memory, attention and decision processes”, “behavioural regulation”, and “nature of the behaviour”. This might be due to the broader expertise of the UK groups, including the HSR researchers, or due to the particular behaviours we focused on. It may reflect developments in the research literature since the Fishbein et al group met in 1991 while our groups met in 2002/2003. For example, over the last decade there has been considerable new research
<table>
<thead>
<tr>
<th>Domains*</th>
<th>Constructs</th>
<th>Interview questions</th>
</tr>
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<tbody>
<tr>
<td>(1) Knowledge</td>
<td>Knowledge, Knowledge about condition/scientific rationale, Schemas/mindsets–illness representations, Procedural knowledge</td>
<td>Do they know about the guideline? Do they know why they should be doing x?</td>
</tr>
<tr>
<td>(2) Skills (Skills)</td>
<td>Skills, Competence/ability/skill assessment, Practice/skills development, Interpersonal skills, Coping strategies</td>
<td>Do they know how to do x? How easy or difficult do they find performing x to the required standard in the required context?</td>
</tr>
<tr>
<td>(3) Social/professional role and identity (Self-standards)</td>
<td>Identity, Professional identity/boundaries/role, Group/social identity, Social/group norms, Alienation/organisational commitment</td>
<td>What is the purpose of the guidelines? What do they think the evidence is?</td>
</tr>
<tr>
<td>(4) Beliefs about capabilities (Self-efficacy)</td>
<td>Self-efficacy, Control—of behaviour and material and social environment, Perceived competence, Self-confidence/professional confidence, Empowerment, Self-esteem, Self-efficacy</td>
<td>How difficult or easy is it for them to do x? (prompt re. internal and external capabilities/constraints) What do they think the evidence is?</td>
</tr>
<tr>
<td>(5) Beliefs about consequences (Anticipated outcomes/attitude)</td>
<td>Outcome expectancies, Appraisal/evaluation/review, Consequences, Attitudes, Contingencies, Reinforcement/punishment/consequences, Beliefs, Unrealistic optimism, Salient events/normalisation/critical incidents, Characteristics of outcome expectancies—physical, social, emotional; Sanctions/rewards, proximal/distal, valued/not valued, probable/improbable, salient/not salient, perceived risk/threat</td>
<td>What do they think will happen if they do x? (prompt re. themselves, patients, colleagues and the organisation; positive and negative, short term and long term consequences) What are the costs of x and what are the costs of the consequences of x?</td>
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<tr>
<td>(6) Motivation and goals (Intention)</td>
<td>Intention; stability of intention/creativity of intention, Goals (autonomous, controlled), Goal target setting, Goal priority, Intrinsic motivation, Commitment, Distal and proximal goals, Transtheoretical model and stages of change</td>
<td>How much do they want to do x? How much do they feel they need to do x? Are there other things they want to do or achieve that might interfere with x? Does the guideline conflict with others? Are there incentives to do x?</td>
</tr>
<tr>
<td>(7) Memory, attention and decision processes</td>
<td>Memory, Attention, Attention control, Decision making</td>
<td>Is x something they usually do? Will they think to do x? How much attention will they have to pay to do x? Will they remember to do x? Might they decide not to do x? Why? (prompt: competing tasks, time constraints)</td>
</tr>
<tr>
<td>(8) Environmental context and resources (Environmental constraints)</td>
<td>Resources/material resources (availability and management), Environmental stressors, Person × environment interaction, Knowledge of task environment</td>
<td>To what extent do physical or resource factors facilitate or hinder x? Are there competing tasks and time constraints? Are the necessary resources available to those expected to undertake x?</td>
</tr>
<tr>
<td>(9) Social influences (Norms)</td>
<td>Social support, Social/group norms, Organisational development, Leadership, Team working, Group conformity, Organisational climate/culture, Social pressure, Power/hierarchy, Professional boundaries/roles, Management commitment, Supervision, Inter-group conflict, Champions, Social comparisons, Identity, group/social identity, Organisational commitment/alienation, Feedback, Conflict—competing demands, conflicting roles</td>
<td>To what extent do social influences facilitate or hinder x? (prompts: peers, managers, other professional groups, patients, relatives) Will they observe others doing x (i.e. have role models)?</td>
</tr>
</tbody>
</table>
and theory development on planning in behaviour change (for example, Gollwitzer and Brandstätter19).

However, Fishbein et al suggested that three domains were necessary and sufficient prerequisites for the performance of a specified behaviour—namely, (1) a strong intention to perform the behaviour; (2) no environmental constraints that make it impossible to perform the behaviour; and (3) the skills necessary to perform the behaviour. The remaining five of Fishbein et al’s constructs were seen as determinants of intention strength.

Thus, our 12 domains identify key constructs but not the causal processes that link theoretical constructs in a coherent explanation of behavioural regulation or behavioural change. Our domain list provides a guide to relevant explanations of current behaviours and key prompts to behaviour change, rather than an articulated theoretical explanation of a particular set of behaviours.

Both Fishbein et al and our own group emphasised the need to clarify the nature of the behaviour involved. Yet evidence-based guidelines may give poor specificity in defining the necessary behaviours.20 Unless there is precision in describing and defining the behaviour that needs to be changed, it will not be possible to identify construct domains that might explain the underlying behavioural processes and the associated opportunities for change.

The interview questions in column 3 of table 1 illustrate the kind of explanation that might be investigated in each domain. Using these questions to explore a behaviour will ensure that no important domain is overlooked, and the results may assist in explaining the behaviour and in designing a behaviour change intervention.

The domains may also provide insights that lead to greater understanding of the processes underlying existing non-theoretically based interventions. For example, educational reminders have been found to help to reduce the frequency of GPs ordering lumbar spine and knee radiographs.21 There are several processes that could explain the success of this

## Table 1

<table>
<thead>
<tr>
<th>Domains*</th>
<th>Constructs</th>
<th>Interview questions</th>
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<tbody>
<tr>
<td>Change management</td>
<td>Affect</td>
<td>Does doing x evoke an emotional response? If so, what?</td>
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<tr>
<td>Crew resource management</td>
<td>Stress</td>
<td>To what extent do emotional factors facilitate or hinder x?</td>
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<tr>
<td>Negotiation</td>
<td>Anticipated regret</td>
<td>How does emotion affect x?</td>
</tr>
<tr>
<td>Social support: personal/professional/organisational, intra/interpersonal, society/community</td>
<td>Fear</td>
<td></td>
</tr>
<tr>
<td>Social/group norms: subjective, descriptive, injunctive norms</td>
<td>Burn-out</td>
<td></td>
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<tr>
<td>Learning and modelling</td>
<td>Cognitive overload/tiredness</td>
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<tr>
<td>Threat</td>
<td>Positive/negative affect</td>
<td></td>
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<tr>
<td>Anxiety/depression</td>
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<tr>
<td>(10) Emotion (Emotion)</td>
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<tr>
<td>(11) Behavioural regulation</td>
<td>Goal/target setting</td>
<td>What preparatory steps are needed to do x? (prompt re individual and organisational)</td>
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<td></td>
<td>Action planning</td>
<td>Are there procedures or ways of working that encourage x?</td>
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<td></td>
<td>Self-monitoring</td>
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<td></td>
<td>Goal priority</td>
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<td></td>
<td>Generating alternatives</td>
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<td></td>
<td>Feedback</td>
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<td></td>
<td>Moderators of intention-behaviour gap</td>
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<td></td>
<td>Project management</td>
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<td></td>
<td>Barriers and facilitators</td>
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<tr>
<td>(12) Nature of the behaviours</td>
<td>Routine/automatic/habit</td>
<td>What is the proposed behaviour (x)?</td>
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<tr>
<td></td>
<td>Breaking habit</td>
<td>Who needs to do what differently when, where, how, how often and with whom?</td>
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<td></td>
<td>Direct experience/post behaviour</td>
<td>How do they know whether the behaviour has happened?</td>
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<td></td>
<td>Representation of tasks</td>
<td>What do they currently do?</td>
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<tr>
<td></td>
<td>Stages of change model</td>
<td>Is this a new behaviour or an existing behaviour that needs to become a habit?</td>
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<td></td>
<td>Can the context be used to prompt the new behaviour? (prompts: layout, reminders, equipment)</td>
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<td>How long are changes going to take?</td>
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<td></td>
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<td>Are there systems for maintaining long term change?</td>
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</table>

*Corresponding constructs from Fishbein et al shown in parentheses.
intervention: the reminders may provide information that enhance knowledge; they may act as cues, creating a facilitative environmental context which triggers behaviour, they may influence attention and memory; they may serve as persuasive communications which lead to changes in beliefs about the consequences of ordering these radiographs; they may function as a social sanction or as contingent feedback, persuasive communications which lead to changes in beliefs about the consequences of ordering these radiographs; they may function as a social sanction or as contingent feedback.

While potentially useful, the domain list cannot comprehensively identify all factors that may impede the implementation of EBP. However, barriers that are not obviously psychological such as legal or physical constraints may be comprehensively identified. Other factors that may influence the implementation of EBP include: the reminders may provide information that enhance knowledge; they may act as cues, creating a facilitative environmental context which triggers behaviour, they may influence attention and memory; they may serve as persuasive communications which lead to changes in beliefs about the consequences of ordering these radiographs; they may function as a social sanction or as contingent feedback, persuasive communications which lead to changes in beliefs about the consequences of ordering these radiographs; they may function as a social sanction or as contingent feedback.

**Key messages**

- The implementation of evidence based practice (EBP) depends on human behaviour.
- Interventions to improve the implementation of EBP have on only modest effects.
- Interventions may be improved by drawing on theories of human behaviour.
- Psychology has produced a huge number of such theories, many of which overlap.
- This project aims to simplify and integrate the psychological theories and theoretical constructs of relevance to EBP.
- A consensus approach produced 12 theoretical “domains” as an integrative framework for studying the implementation of EBP.
- The project also produced sets of questions based on this framework that can be used in identifying and understanding problems in EBP.

**References**


**Appendix 1 Psychological theories identified in stage 1**

**Motivation theories**

- Theory of planned behaviour (+ theory of reasoned action, protection motivation theory, health belief model)
- Social cognitive theory
- Locus of control theories
- Social learning theory
- Social comparison theories
- Cognitive adaptation theory
- Social identity theory
- Elaboration likelihood model
- Goal theories
- Intrinsic motivation theories
● Self-determination theory
● Attribution theory
● Decision making theories (e.g. social judgment theory, "fast and frugal" model, systematic versus heuristic decision making)
● Fear arousal theory

More information about these theories is available from Myers.²⁴

**ACTION THEORIES**

● Learning theory
● Operant theory
● Modelling
● Self-regulation theory
● Implementation theory/automotive model
● Goal theory
● Volitional control theory
● Social cognitive theory
● Cognitive behaviour therapy
● Transtheoretical model
● Social identity theory

**ORGANISATION THEORIES**

● Effort-reward imbalance
● Demand-control model
● Diffusion theory
● Group theory (e.g. group minority theory)
● Decision making theory
● Goal theory
● Social influence
● Person situation contingency models

**APPENDIX 2 GLOSSARY OF TERMS**

**Framework**: a structure composed of parts framed together.

**Theory**: a system of ideas or statements held as an explanation or account of a group of facts or phenomena.

**Theoretical construct**: a concept specially devised to be part of a theory.

**Domain**: an area of interest; a sphere of thought, action or knowledge.

**Theoretical domain**: a group of related theoretical constructs.

**Cue**: a stimulus or signal to perception, articulation, or other physiological response.

**Stimulus**: an event (whether internal or external to the organism) which gives rise to a reaction.

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