

How is the Theoretical Domains Framework applied in health behaviour change? A
systematic search and narrative synthesis

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Review question

How is the Theoretical Domains Framework applied in health behaviour change?

Searches

The electronic databases Cumulative Index to Nursing and Allied Health Literature (CINAHL), MEDLINE, PsycINFO and The Cochrane Library will be searched using the key terms "theoretical domains framework" or TDF or COM-B or "behav* change wheel" or BCW NOT Implement* or improv* or quality or guideline* or EBP or "evidence based practice".

Three further searches will be conducted using Google Scholar i) citations of key papers (Michie 2005, Cane 2012, Michie et al 2011) and ii) key author searches for papers by Abraham, Atkin, Cane, Dyson, Francis, Johnson, Lawton, O'Connor, Prestwich, Taylor and West.

Inclusion criteria: Published from 2005 (original publication of the Theoretical Domains Framework (TDF)), published in English language, papers focusing on health behaviour, reporting the development and/or testing of interventions underpinned by the TDF or subsequent iterations of the framework.

Exclusion criteria: published in languages other than English, papers focusing on healthcare practitioner behaviours

Types of study to be included

Intervention development or testing

Condition or domain being studied

Any health related behaviour

Participants/population

The general population or patients

Intervention(s), exposure(s)

Development and or testing of interventions underpinned by the TDF or subsequent iterations of the framework

Comparator(s)/control

Not applicable

Main outcome(s)

How the TDF has been used in development or testing of public or patient focused health behaviour change interventions

Additional outcome(s)

Not applicable

Data extraction (selection and coding)

Titles and abstracts of studies retrieved will be screened independently by two researcher to identify studies that meet the inclusion criteria as outlined above. The full text of potentially eligible studies will be retrieved and independently assessed by both authors. Any disagreement will be resolved through discussions including a third researcher.

A bespoke data extraction form will be used to extract information including study design, setting, intervention target group (including demographics), health behaviour, intervention, TDF (or subsequent iteration) use. In the case of intervention testing studies we will extract outcomes measured and key findings. Missing data will be requested from study authors.

Risk of bias (quality) assessment

Quality assessment of the intervention design and reporting will be assessed against the Medical Research Council (MRC) guidelines for complex interventions and the Template for Intervention Description and Replication (TIDieR)

JD and FC will assess quality independently and discrepancies will be resolved by discussion. All eligible studies will be included and quality discussed as part of the narrative synthesis

Strategy for data synthesis

We will provide a narrative synthesis of the findings from the included studies structured around the behaviour targeted by the intervention. We will provide summaries of the use of the TDF and subsequent iterations of the framework.

Analysis of subgroups or subsets

Not applicable

Contact details for further information

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Organisational affiliation of the review

Birmingham City University
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Review team members and their organisational affiliations

Professor Fiona Cowdell. Birmingham City University
Dr Judith Dyson. University of Hull

Type and method of review

Intervention, Qualitative synthesis

Anticipated or actual start date

01 September 2017

Anticipated completion date

28 February 2018

Funding sources/sponsors

None

Conflicts of interest

Language

English

Country

England

Stage of review

Review Ongoing

Subject index terms status

Subject indexing assigned by CRD

Subject index terms

Health Behavior; Humans; Practice Patterns, Physicians'

Date of registration in PROSPERO

24 January 2018

Date of first submission

23 January 2018

Stage of review at time of this submission

Stage	Started	Completed
Preliminary searches	Yes	Yes
Piloting of the study selection process	Yes	Yes
Formal screening of search results against eligibility criteria	Yes	Yes
Data extraction	Yes	No
Risk of bias (quality) assessment	Yes	No
Data analysis	Yes	No

The record owner confirms that the information they have supplied for this submission is accurate and complete and they understand that deliberate provision of inaccurate information or omission of data may be construed as scientific misconduct.

The record owner confirms that they will update the status of the review when it is completed and will add publication details in due course.

Versions

24 January 2018

30 January 2018

PROSPERO

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