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1 Review

- An appraisal of theoretical approaches to examining behaviours in relation to Human Papillomavirus (HPV) vaccination of young women
- Harriet Batista Ferrer a,*, Suzanne Audrey a, Caroline Trotter b, Matthew Hickman a
- ^a School of Social and Community Medicine, University of Bristol, Bristol BS8 2PS, United Kingdom
 - ^b Department of Veterinary Medicine, University of Cambridge, Cambridge, CB3 0ES, United Kingdom

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ABSTRACT

Background. Interventions to increase uptake of Human Papillomavirus (HPV) vaccination by young women 15 may be more effective if they are underpinned by an appropriate theoretical model or framework. The aims of 16 this review were: to describe the theoretical models or frameworks used to explain behaviours in relation to 17 HPV vaccination of young women, and: to consider the appropriateness of the theoretical models or frameworks 18 used for informing the development of interventions to increase uptake.

Methods. Primary studies were identified through a comprehensive search of databases from inception to 20 December 2013.

Results. Thirty-four relevant studies were identified, of which 31 incorporated psychological health behaviour 22 models or frameworks and three used socio-cultural models or theories. The primary studies used a variety of 23 approaches to measure a diverse range of outcomes in relation to behaviours of professionals, parents, and 24 young women. The majority appeared to use theory appropriately throughout. About half of the quantitative 25 studies presented data in relation to goodness of fit tests and the proportion of the variability in the data.

Conclusion. Due to diverse approaches and inconsistent findings across studies, the current contribution of 27 theory to understanding and promoting HPV vaccination uptake is difficult to assess. Ecological frameworks 28 encourage the integration of individual and social approaches by encouraging exploration of the intrapersonal, 29 interpersonal, organisational, community and policy levels when examining public health issues. Given the 30 small number of studies using such approach, combined with the importance of these factors in predicting behaviour, more research in this area is warranted.

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Contents

34

55

Introduction
Materials and methods
Search strategy
Eligibility criteria
Data extraction
Assessment of use of theoretical model or framework in primary studies
Results
Summary of relevant studies identified
Characteristics of studies
Overview of primary study findings by theory or theoretical model
Theory of reasoned action and theory of planned behaviour
Health belief model
Protection motivation theory
Prospect theory
Theoretical domains framework

Abbreviations: HPV, Human Papillomavirus; UK, United Kingdom; USA, United States of America.

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Fundamental cause theory

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^{*} Corresponding author at: School of Social and Community Medicine, 39 Whatley Road, Bristol BS8 6PS, United Kingdom. Fax: +44 117 331 4026.

E-mail addresses: Harriet.Batista@bristol.ac.uk (H.B. Ferrer), Suzanne.Audrey@bristol.ac.uk (S. Audrey), clt56@cam.ac.uk (C. Trotter), Matthew.Hickman@bristol.ac.uk (M. Hickman).

H.B. Ferrer et al. / Preventive Medicine xxx (2015) xxx-xxx

Governmentality and disciplinary technologies of the self
Vaccine perceptions, accountability and adherence model
Assessment of use of theoretical model or theory in primary studies
Discussion
Incorporating wider determinants of health in relation to HPV vaccine uptake
Conclusion
Conflicts of interest statement
Uncited reference
Acknowledgments
References

Introduction

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Globally, inequalities in the incidence of cervical cancer exist by geographic area (Arbyn et al., 2011; Shack et al., 2008), socioeconomic status (Shack et al., 2008; Parikh et al., 2003; Singh et al., 2004) and ethnicity (National Cancer Intelligence Network, 2009; Watson et al., 2008). Since licensure in 2006, many countries have introduced the Human Papillomavirus (HPV) vaccine into their national immunisation programmes for the primary prevention of cervical cancer. High coverage has the potential to reduce substantially cervical cancer incidence and mortality (Harper et al., 2004, 2006; Garland et al.,

However, there is the potential to increase health inequalities if vaccine uptake is lower amongst less affluent and marginalised populations that may also have greater risk of developing cervical cancer. Evidence for differences in uptake has been shown. Globally, evidence from a systematic review and meta-analysis did not indicate strong evidence for associations by socioeconomic variables, but young women belonging to minority ethnic groups were less likely to receive the HPV vaccine (Fisher et al., 2013). Further in the United States of America (USA), which delivers the HPV vaccination programme in the healthcare setting, young women without healthcare insurance coverage were less likely to be vaccinated (Fisher

In relation to the United Kingdom (UK) routine school-based programme, studies have indicated a lack of association between initiation of the HPV vaccination course and area-level measures of deprivation (Sinka et al., 2013; Spencer et al., 2014; Fisher et al., 2014). However, lower uptake by minority ethnic young women has been reported (Spencer et al., 2014; Fisher et al., 2014; Bowyer et al., 2014). In the catch-up programme, a higher level of deprivation is associated with a lower odd of initiation and completion of the HPV vaccination course (Sinka et al., 2013; Spencer et al., 2014; Beer et al., 2014). Despite free access within the Danish healthcare-based programme, inequality by ethnicity and socioeconomic factors has been shown (Slattelid Schreiber et al., 2015). Further, in the Norwegian school based programme, lower rates of initiation were reported for young women with mothers belonging to the lowest income group (Hansen et al., 2015).

The UK Medical Research Council Framework argues that complex interventions, such as an intervention to increase HPV vaccination uptake, should be developed and underpinned by appropriate theory which captures the likely process of behaviour change (Craig et al., 2008; Campbell et al., 2000). There is growing evidence that interventions developed with an explicit theoretical foundation are more effective and more likely to induce positive behaviour change (Glanz et al., 1990; Michie et al., 2008). Therefore, the aims of this literature review are: to provide an overview of theoretical models and frameworks that have been used in published research to explain behaviours in relation to HPV vaccination of young women, and: to consider the appropriateness of the theoretical models or frameworks for informing the development of interventions to increase uptake.

Materials and methods

Methods to identify relevant primary studies were based on those previously 120 used by the study authors for systematic reviews in the field of HPV vaccination 121 (Fisher et al., 2013; Batista Ferrer et al., 2014). There are differences between 122 'models', 'frameworks', and 'theories'. Theories tend to be specific, with concepts 123 which are amenable to hypothesis testing whereas models tend to be more prescriptive, specific and with a narrower scope. Conceptual frameworks are usually 125 descriptive, showing relevant concepts and how they relate to each other (Ilott 126 et al., n.a). Throughout the manuscript, we use the terminology 'models', 'frame- 127 works' and 'theories' consistent with their use by the authors of included studies. 128

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Search strategy 129

To identify the relevant literature in relation to the HPV vaccine and theoretical models and frameworks, a search strategy previously used elsewhere 131 (Fisher et al., 2013; Batista Ferrer et al., 2014) was adapted which comprised 132 the following combination of text words (searching the title and abstract) and 133 Medical Subject Heading (MeSH) terms: ['papillomavirus' or 'wart virus'], 134 ['vaccination' or 'immunisation' or 'immunisation programmes' or 'wart 135 virus vaccines'] and ['theory' or 'theoretical model']. The following data- 136 bases were searched from inception to 5th December 2013: CINAHL; 137 Embase; Medline; PsycINFO; and ISI Web of Science & ISI Proceedings. All 138 abstracts were saved using Endnote X3 reference manager software.

After duplicates were removed, all titles and abstracts of identified studies 140 were assessed by one author (HB-F) to consider their relevance for inclusion. 141 Two reviewers independently reviewed potentially relevant full texts (HB-F, 142 JC). Disagreements were resolved by discussion. 143

Eligibility criteria 144

Studies were eligible for inclusion if a theoretical model or framework was 145 explicitly used in the study design and the study reported findings to explain 146 behaviours in relation to the HPV vaccination of young women aged nine to 147 18 years old. Any study design, including qualitative and quantitative approaches, was eligible. No restrictions were imposed on the basis of publication 149 date or language. Potentially relevant conference abstracts or dissertations were 150 checked to see if a full paper had been published in a journal. Reference lists and 151 citation lists of primary studies and relevant systematic reviews were hand 152searched for additional references. 153

Data extraction

Study characteristics (authors, year of publication, study aims, study design, 155 participants) and details related to use of theoretical model of framework 156 (theoretical model, analytical approach, overall study findings, data to evaluate $\,\,157$ the use of theory) were extracted and entered into an excel spread sheet by one 158 study author (HB-F) and doubled checked by another (SA). 159

Assessment of use of theoretical model or framework in primary studies

Presently, there is no standardised method or consensus for assessing use of 161theory within studies which can vary within different research disciplines. To 162 assess the level of use of theory by the primary studies, the study was assessed 163 as either: (i) partially applied: authors locate their study within a particular theory but then appear to abandon efforts to link, apply, or interpret their findings 165 in relation to that context, or; (ii) consistently applied: the theory guides and directs the various phases of the research process and can be tracked throughout 167

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