

This is an Open Access document downloaded from ORCA, Cardiff University's institutional repository:<https://orca.cardiff.ac.uk/id/eprint/169772/>

This is the author's version of a work that was submitted to / accepted for publication.

Citation for final published version:

Bennett, Clare and Edwards, Deborah 2024. What's the evidence? An umbrella review of interventions that aim to improve HPV vaccine uptake in children, adolescents and young adults. Presented at: EUROPREV Forum 2024, Edirne, Turkey, 25-26 April 2024.

Publishers page:

Please note:

Changes made as a result of publishing processes such as copy-editing, formatting and page numbers may not be reflected in this version. For the definitive version of this publication, please refer to the published source. You are advised to consult the publisher's version if you wish to cite this paper.

This version is being made available in accordance with publisher policies. See <http://orca.cf.ac.uk/policies.html> for usage policies. Copyright and moral rights for publications made available in ORCA are retained by the copyright holders.



Poster Presentation / Review**What's the evidence? An umbrella review of interventions that aim to improve HPV vaccine uptake in children, adolescents and young adults.**

Hüsna Sarıca Çevik¹, Clare Bennett², Deborah Edwards², Susan Sherman³, Dur-E-Nayab Waheed⁴, Alex Vorsters⁴, Emilie Karafillakis⁵, Gillian Prue⁶, Peter Baker⁷, Daniel Kelly²

1. Ankara University Faculty of Medicine, 06230 Ankara, Turkey E-mail: saricahusna@gmail.com

2. Cardiff University

3. Keele University

4. University of Antwerp

5. London School of Hygiene and Tropical Medicine

6. Queens University Belfast

7. European Cancer Organisation

Keywords: HPV, Human papillomavirus, vaccination

Review:**Background**

It is well established that Human papillomavirus (HPV) vaccination offers protection against the virus responsible for cervical cancer as well as oropharyngeal, anal, vulval and penile cancers. Internationally, numerous interventions aimed at increasing HPV vaccine exist, but considerable variations in uptake persist, with many countries' rates remaining suboptimal. This umbrella review aimed to identify what interventions exist and to determine their effectiveness.

Methods

An umbrella review that appraised interventions used to enhance HPV vaccine uptake and/or intention among children aged 9 years and older, adolescents and young adults up to the age of 26, was undertaken using the JBI methodology. Comprehensive searches for English language systematic reviews were conducted across five databases from January 2011 to July 2021. Hand searches and forward citation tracking were also conducted.

Results

Ten systematic reviews met the inclusion criteria. A total of 79 studies were included across the reviews. Interventions promoted change at the individual level, the community level or the organisational level, while others used a multi-component approach. Face-to-face presentations, printed information and supplementing both strategies with additional components appeared to be effective at increasing HPV vaccination intention. Reminders and multi-component strategies, especially those that included interventions aimed at provider level (e.g. nurse standing-orders, health record alerts, pre-typed consents) appeared most effective at increasing vaccination uptake.

Conclusions

This is the first umbrella review to explore the evidence for interventions used to improve HPV vaccination intention and uptake in children, adolescents and young adults. The evidence suggests that there is no single solution to increasing vaccination uptake, and different approaches may be better suited to certain populations. However, generalisations are limited by poor reporting and a paucity of studies beyond the USA. Further high-quality research is, therefore, needed to understand how best to increase HPV vaccine uptake in different target populations.