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Poor Knowledge of Human Papilloma Virus and Vaccination Among Respondents from Three Nigerian States

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## Abstract

The aim of this study was to assess the levels of human papilloma virus (HPV) infection and vaccination awareness among members of the general population across three Nigerian States. A descriptive cross-sectional study among 758 persons selected by convenience sampling was conducted from March to July 2016. Structured questionnaires were administered to consenting participants and analysed using descriptive and inferential statistical methods in SPSS V20. Awareness to HPV infection and vaccination was very low at  $1.40 \pm 1.803$  out of 6 points. Only 31.97% of respondents had heard about HPV while 17.5% were aware of the existence of a vaccine. The most prevalent sources of information amongst respondents who had heard about HPV were Doctors (13.08%) and the Media (9.91%). Bivariate analysis showed that respondents who consulted with gynaecologists, knew someone who had cervical cancer or had received HPV vaccination were more likely to be aware of HPV infection and vaccination. Gynaecologists (p < 0.0001) and previous vaccination (p < 0.0001) were the most important contributors to HPV awareness in a multivariate analysis. This study underpins the need for urgent intervention to raise awareness for HPV.

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**Data Availability** 

The Data used in this study is available on request.

References

1.

Abiodun, O., Sotunsa, J., Ani, F., & Olu-Abiodun, O. (2015). Knowledge and acceptability of human papilloma virus (HPV) vaccine among university students in South West, Nigeria. International Journal of Advanced Research, 3(10), 101–112.

Google Scholar

2.

Adejuyigbe, F. F., Balogun, B. R., Sekoni, A. O., & Adegbola, A. A. (2015). Cervical cancer and human papilloma virus knowledge and acceptance of vaccination among medical students in Southwest Nigeria. African Journal of Reproductive Health, 19(1), 140–140.

PubMed

PubMed Central

Google Scholar

3.

Agida, T. E., Akaba, G. O., Isah, A. Y., & Ekele, B. (2015). Knowledge and perception of human papilloma virus vaccine among the antenatal women in a Nigerian tertiary hospital. Nigerian Medical Journal, 56(1), 23–27.

Article

Google Scholar

4.

Akanbi, O. A., Iyanda, A., Osundare, F., & Opaleye, O. O. (2015). Perceptions of Nigerian Women about human papilloma virus, cervical cancer, and HPV vaccine. Scientifica. https://doi.org/10.1155/2015/285702

Article

PubMed

**PubMed Central** Google Scholar 5. Almeida, C. M., Tiro, J. A., Rodriguez, M. A., & Diamant, A. L. (2012). Evaluating associations between sources of information, knowledge of the human papilloma virus, and human papilloma virus vaccine uptake for adult women in California. Vaccine, 30(19), 3003–3008. Article Google Scholar 6. Audu, B. M., Bukar, M., Ibrahim, A. I., & Swende, T. Z. (2014). Awareness and perception of human papilloma virus vaccine among healthcare professionals in Nigeria. Journal of Obstetrics and Gynaecology, 34(8), 714–717. CAS Article Google Scholar 7. Betsch, C., Renkewitz, F., Betsch, T., & Ulshöfer, C. (2010). The Influence of vaccine-critical websites on perceiving vaccination risks. Journal of Health Psychology, 15(3), 446–455. Article Google Scholar 8. Blodt, S., Holmberg, C., Muller-Nordhorn, J., & Rieckmann, N. (2012). Human papilloma virus awareness, knowledge and vaccine acceptance: A survey among 18-25 year old male and female vocational school students in Berlin, Germany. The European Journal of Public Health, 22(6), 808-813.

Article

9.

Google Scholar

Bruni, L., Barrionuevo-Rosas, L., Albero, G., Serrano, B., Mena, M., Gómez, D., et al. (2017). Human papilloma virus and related diseases in Nigeria. 2017. Retrieved March 5, 2018, from, http://www.hpvcentre.net/statistics/reports/NGA.

10.

Cutts, F. T., Franceschi, S., Goldie, S., Castellsague, X., de Sanjose, S., Garnett, G., et al. (2007). Human papilloma virus and HPV vaccines: A review. Bulletin of the World Health Organization, 85(9), 719–726.

CAS

Article

Google Scholar

11.

Durowade, K., Osagbemi, G., Salaudeen, A., Musa, O., Bolarinwa, O., Babatunde, O., et al. (2013). Knowledge of cervical cancer and its socio-demographic determinants among women in an urban community of North-central Nigeria. Savannah Journal of Medical Research and Practice, 2(2), 46–54.

Google Scholar

12.

Ezenwa, B. N., Balogun, M. R., & Okafor, I. P. (2013). Mothers' human papilloma virus knowledge and willingness to vaccinate their adolescent daughters in Lagos, Nigeria. International Journal of Women's Health, 5(1), 371–377.

Article

Google Scholar

13.

Klug, S. J., Hukelmann, M., & Blettner, M. (2008). Knowledge about infection with human papilloma virus: A systematic review. Preventive Medicine, 46(2), 87–98.

Article

Google Scholar

14.

McBride, K. R., & Singh, S. (2018). Predictors of adults' knowledge and awareness of HPV, HPV-associated cancers, and the HPV vaccine: Implications for health education. Health Education & Behavior, 45(1), 68–76.

Article

Google Scholar

15.

Morhason-Bello, I. O., Adesina, O. A., Adedokun, B. O., Awolude, O., Okolo, C. A., Aimakhu, C. O., et al. (2013). Knowledge of the human papilloma virus vaccines, and opinions of gynaecologists on its implementation in Nigeria. African Journal of Reproductive health, 17(2), 150–156.

PubMed

PubMed Central

Google Scholar

16.

Nan, X., & Madden, K. (2012). HPV vaccine information in the blogosphere: How positive and negative blogs influence vaccine-related risk perceptions, attitudes, and behavioral intentions. Health Communication, 27(8), 829–836.

Article

Google Scholar

17.

Nnodu, O., Erinosho, L., Jamda, M., Olaniyi, O., Adelaiye, R., Lawson, L., et al. (2010). Knowledge and attitudes towards cervical cancer and human papilloma virus: A Nigerian pilot study. African Journal of Reproductive Health, 14(1), 95–108.

PubMed

**PubMed Central** 

Google Scholar

18.

Ogochukwu, T. N., Akabueze, J., Ezeome, I. V., Aniebue, U. U., & Oranu, E. O. (2017). Vaccination against human papilloma virus in adolescent girls: Mother's knowledge, attitude, desire and practice in Nigeria. Journal of Ancient Diseases & Preventive Remedies, 5(1), 1–6.

Article

Google Scholar

19.

Perlman, S., Wamai, R. G., Bain, P. A., Welty, T., Welty, E., & Ogembo, J. G. (2014). Knowledge and awareness of HPV vaccine and acceptability to vaccinate in Sub-Saharan Africa: A systematic review. PLoS ONE, 9(3), e90912.

Article

Google Scholar

20.

Radecki Breitkopf, C., Finney Rutten, L. J., Findley, V., Jacobson, D. J., Wilson, P. M., Albertie, M., et al. (2016). Awareness and knowledge of human papilloma virus (HPV), HPV-related cancers, and HPV vaccines in an uninsured adult clinic population. Cancer Medicine, 5(11), 3346–3352.

Article

Google Scholar

21.

Rosen, B. L., Shew, M. L., Zimet, G. D., Ding, L., Mullins, T. L. K., & Kahn, J. A. (2017). Human papilloma virus vaccine sources of information and adolescents' knowledge and perceptions. Global Pediatric Health, 4, 1–10.

Article

Google Scholar

22.

WHO. (2017). Cervical cancer [Internet]. WHO. World Health Organization; 2017. Retrieved May 4, 2018, from http://www.who.int/cancer/prevention/diagnosis-screening/cervical-cancer/en/.

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Contributions

Author AOE conceptualized, designed and monitored the study. She also read and approved the final draft of the manuscript. Authors MGS and AOE prepared the questionnaire used in this study. Author MGS, OPE and TTI administered the questionnaires and entered the data. Author OAO performed the statistical analysis and prepared the first draft of the manuscript.

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**Ethics declarations** 

Conflict of interest

The authors declare that they have no conflict of interest.

**Ethical Approval** 

All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee.

**Informed Consent** 

Study design was explained to participants and oral consent obtained before administering questionnaire.
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