

**Adverse Events Following Vaccinations and the Impact on Patients Health: Literature
Review**

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Quantitative studies are conducted using participants to gather measurable data that is analyzed through literature reviews to produce ideas and assess relationships for further research (Houser, 2023). Quantitative studies are used as base in research in multiples to present predictions and possibilities from the results of the multiple studies. Adverse events following immunization (AEFI), or immunization stress-related responses (ISRR) affecting patients' health have been more commonly recognized in recent years. Research conducted on patients who have received vaccines such as the human papillomavirus (HPV) vaccine and their presenting symptoms following the vaccination will help form an understanding of the AEFI and whether or not they are directly related to the vaccination.

Immunization stress-related responses presenting as psychogenic non-epileptic seizures following HPV vaccination in Rio Branco, Brazil

In this article by Marchetti et al. (2020) the psychogenic nature of convulsive seizures of patients who were previously vaccinated for the human papillomavirus (HPV) are explored. This study is essential due to the impact of ISRR on patients' health and for the compliance to national vaccination programs (Marchetti et al., 2020). This article studies the relations between adverse affects such as compulsive seizures following the HPV vaccination through monitoring patients who have been vaccinated and the adverse effects they experience (Marchetti et al., 2020).

Key Points

The study selected individuals that were experiencing adverse affects following the vaccination for human papillomavirus. Twelve patients (10 female and 2 male) were assessed during this study (Marchetti et al., 2020). Video-electroencephalography (VEEG) monitoring was used to observe the patients adverse events during the study (Marchetti et al., 2020). A neuropsychiatry team and a VEEG unit from the Institute of Psychiatry of the University of São Paulo helped monitor and recognize immunization stress-related responses that the patients were experiencing (Marchetti et al., 2020). The study found that ten of the twelve patients assessed experienced convulsive seizures and those patients were then placed under intensive VEEG, brain magnetic imaging, cerebrospinal fluid diagnostic testing, laboratory examinations, and complete neurological and psychiatric examinations (Marchetti et al., 2020). There was no biological association between the human papillomavirus vaccine itself and the clinical presentation of the patients, but the adverse events were triggered by the immunization process (Marchetti et al., 2020).

Assumptions

The research in this study highlights the connection between immunizations and adverse events such as convulsive seizures and whether or not those events can be directly related to the HPV vaccination specifically (Marchetti et al., 2020). Studying the twelve patients and their events that followed the vaccinations provides information to form a better understanding of what is causing these events (Marchetti et al., 2020). Current research has shown stress-related responses related to vaccinations and further research will provide an understanding of what is causing these adverse affects.

Deficit/Conclusion

The line of reasoning from this article is exploring the adverse events that happen following specifically the HPV vaccine. This study helped confirm a correlation between vaccinations and convulsive seizures by monitoring patients that had been vaccinated and documenting their adverse symptoms. The relationship between the human papillomavirus vaccination and convulsive seizures will help to establish future studies and investigate the parameters behind the immunization stress-related responses. Accepting the line of reasoning for this article would show reasoning and implication for further research to be conducted.

References

Houser, J. (2023). *Nursing research: Reading, using, and creating evidence* (5th ed.). Jones & Bartlett Learning.

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