



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

## **VACCINES -A WONDERFUL TREATMENT FOR VERRUCAE! - A STUDY.**

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**INTRODUCTION:** Patients and clinicians experience the frustration of treating cutaneous viral warts caused by infection with the Human Papilloma Virus. Warts appear in various forms on different sites of the body. They can affect a lot patient's quality of life by causing embarrassment, fear of negative appraisal by others and frustration caused by persistence and/or recurrence. Management of multiple warts is often most distressing and frustrating causing cosmetic disfigurement, dyspigmentation , scarring and frequently recurrent.

**AIM:** Various methods to clear the warts have not yielded any consistent and sustained results. Immunotherapy has been tried using various antigens like Mumps, Candidin, Trichophylin, PPD and vaccines like MMR, BCG, Mycobacterium indicus pranii. Intralesional MMR vaccine was taken up for treating multiple recalcitrant warts in my study.

**MATERIAL AND METHODS:** 122 patients above 18 years with new, recurrent multiple warts were selected. Genital warts were not included. More than 200 warts were treated. MMR vaccine was obtained through the institution and was given to all selected patients after informed written consent. 0.3 ml of MMR was injected intra lesionally into the selected largest warts by insulin syringe at interval of two weeks for three sessions. Based on the reduction in number, size and clearance of lesions the response was evaluated.

**RESULTS:** The percentage of complete clearance was 93%, partial clearance 5% and no clearance 2%. Patients who showed complete clearance were followed up for twelve months to detect any recurrence clinically and histologically. The treatment was well tolerated and not painful. Mild fever for a day or two was the adverse event. Intralesional MMR was found to be simple, most cost effective and safe treatment for multiple warts, just three visits at two weeks interval. Various mechanisms of action by MMR vaccine in clearing the verrucae will be explained in my talk.

