



MEDICAL THERAPIES AND PHARMACOLOGY

## COMPARATIVE STUDY OF EFFICACY OF INTRALESIONAL PURIFIED PROTEIN DERIVATIVE (PPD) VERSUS INTRALESIONAL MEASLES, MUMPS AND RUBELLA (MMR) IN MANAGEMENT OF MULTIPLE VIRAL WARTS

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**Introduction:** Multiple recurrent viral warts represent a frustrating challenge for both patients and physicians. Management is difficult, primarily due to recalcitrance to standard therapy and high recurrence rates. Recently, intralesional antigen immunotherapy has shown promising efficacy in the treatment of warts.

**Objective:** Aims of our study was to compare efficacy and safety of intralesional PPD versus MMR in management of multiple warts.

**Materials & Methods:** 105 patients having multiple warts (>1 lesion) were randomly divided into Group-A (PPD), B (MMR) and group C (Normal saline) with 35 patients in each group. In each group, the largest wart was injected intralesionally with 0.1ml of vaccine at two weeks interval until complete clearance or for maximum 8 weeks. At every visit, lesions were assessed on the basis of decrease in size/number of lesions or reappearance of normal dermatoglyphics (in palmoplantar warts). Patient were followed up every month for further period of 6 months to detect recurrence.

**Results:** Out of 105 patients enrolled in study, 27 patients, 25 patients and 21 patients completed the study in group A, group B and group C respectively. Rest were lost to follow up due to various reasons such as pain and long treatment duration. Complete clearance was seen in 14 patients (51.85%) in group A, 14 patients (56%) in group B and 0 patients in group C. Partial clearance was seen 4 patients (14.81%) in group A, 4 patients (16 %) in group B and 3 (14.28%) patients in group C. Nine patients (33.33%) in group A, 7 patients (28%) in group B and 18 (85.71%) patients in group C did not respond to immunotherapy.

**Conclusions:** Intralesional immunotherapy by both vaccines is a promising, effective, and safe treatment modality with MMR having slight edge.

