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Nano-Effect of Clay minerals on Human Papilloma Virus-Warts

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Abstract: *Clay minerals form 16% of earth minerals and their micro structure make it useful materials used in different medical fields because of its adsorption or absorption for different organic materials. The object of this research is to detect antiviral efficacy of clay minerals on human papilloma virus. Types of Clay mineral structures, major elements and trace elements were determined by X-ray, flame photometer and atomic absorption analysis respectively. Four types of Clay minerals were topically applied against warts of HPV. Montmorillonite showed the best effect on the warts (remove 100% of warts). Mixture of kaolinite, montmorillonite, and illite gave lower effect (remove 80% of warts). Kaolinite alone showed moderate effect (remove 66.6% of warts) whereas Kaolinite with organic materials showed low effect (remove 22.2% of warts). More studies are needed to study the effect of clay minerals against other HPV types which cause cancerous warts in a high ratio all over the world.*

Keywords: *Clay minerals, M HPV-warts, Kaolinite, Montmorillonite,*