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Intralesional Delivery of Therapeutic Peptides and Enzymes- A Review

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Abstract: Intralesional injection is a non-routine technique used to inject medication directly into the keloid or skin lesions. The dermis as regular practice is targeted during intralesional injection. The intralesional and systemic use of peptide proteins is not only based on scientific studies but also on empirical base. The aim of the present review is o have brief glance on intralesional drug therapy, the technique to employ and its major application in various disorders and in congenital malformations by utilising therapeutic peptide proteins and enzymes in parenteral dosage from. The use of protein in different disorders has mostly been carried out on protein formulation consisting of an isolated or combination of protein enzymes including traditional and recombinant enzymes and also by rDNA technologies during clinical trial studies. The overview of these studies implies that protein and peptide therapy via intralesional route can avoid the adverse effect cause by radiotherapy and chemotherapy. Moreover it does require minimum dose to achieve maximum efficacy and should be utilized to minimize the risk of systemic circulation. Proteins like bacterial antigenic metabolites viz. collagenase, chondroitinase, botulinium toxin, BCG stain and their subsequent immunological products like cytokines, interferons and TNF factors are in prime interest for delivery via intralesional route through this study

Keywords: Intralesional, Percutaneous needle aponeurotomy, Proteins, Peptides, Enzyme therapeutics.

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