

Small Dose Collagenase for Dupuytren's Contracture of DIP Joint

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Objective: On label treatment of collagenase is 3 doses (0.58mg total) injected not more than 4 mm beyond the palmar digital crease. Dupuytren's contracture can extend beyond the PIP joint to the DIP joint. The lateral digit by the DIP joint are well beyond the superficialis tendon. Clostridial enzyme spares nerve type IV collagen just below. One or two doses of (0.1 mg) of enzyme (marked X) were injected beyond the PIP joint. For on label PIP dilution (.20 ml) 0.1 mg is 0.034 cc for each aliquot to be injected. For on label MCP dilution (0.25 cc) 0.1mg is 0.044 cc to be injected. I reconstitute the vial with 0.45 cc of diluent and 0.2 mg is 1/10th of a cc and 0.1 mg is half of tenth of a cc or 0.05cc. Only one treatment to each digit was performed for data collection in this study.

Results: 8 digits with an average contracture of the DIP joint of -22 (median 18) treated with 0.1 or 0.2 mg of CCH enzyme at an average of 11 month follow-up (median 4) the DIP joint improved to -8 degrees.

Conclusion: Enzyme is helpful.

Enzyme Injections:
X marks are 0.1 mg
Dot are 0.2 mg

PIP -60 DIP -30 severe contractures



PIP -45 DIP -30 (previous fasciectomy)



PIP -70 DIP -50 severe contractures



Before -30 PIP -10 DIP
26 month F/U -5 PIP 0 DIP



11 month F/U PIP -20 DIP 0



At manipulation (with Epinephrine)
Late case. No F/U measurements



Two weeks after manipulation
PIP 15 DIP 0