Cerebral Palsy (CP)
- Stiffness is suggested to arise from increased extracellular matrix (ECM)¹

Motivation
- Collagenase injections have been used to treat Dupuytren’s and Peyronie’s disease ²,³

Peak and steady-state stress decreased by an average of 49±17% and 47±15%, respectively, after collagenase incubation (350U/ml for 35-45 min)

Purpose & Hypothesis

Purpose
- Evaluate the effect of collagenase on passive force, collagen and contractile protein content of CP muscles

Hypothesis
- Collagenase is effective in reducing passive force without affecting the contractile properties

REFERENCES

ACKNOWLEDGMENTS

DISCUSSION
- Collagenase is effective in reducing passive force in isolated CP muscles
- Further investigation of the contractile properties is still required

CONCLUSION
- This study provides proof of concept for a potential use of collagenase injections to reduce stiffness in CP muscles.