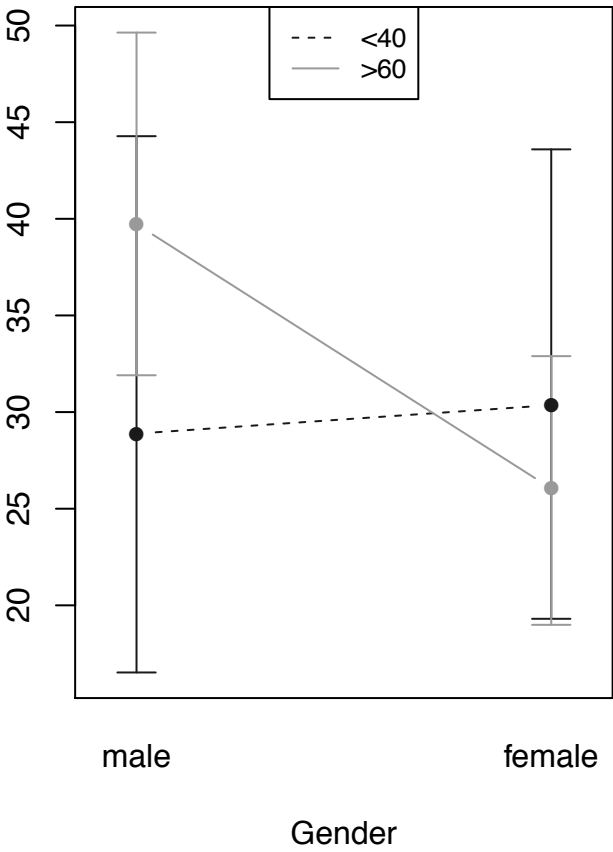
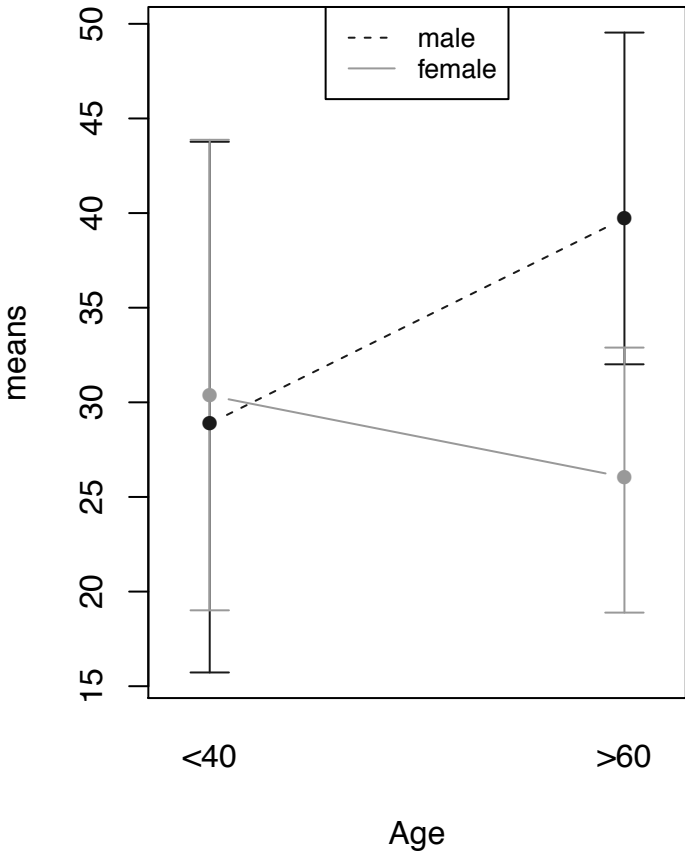
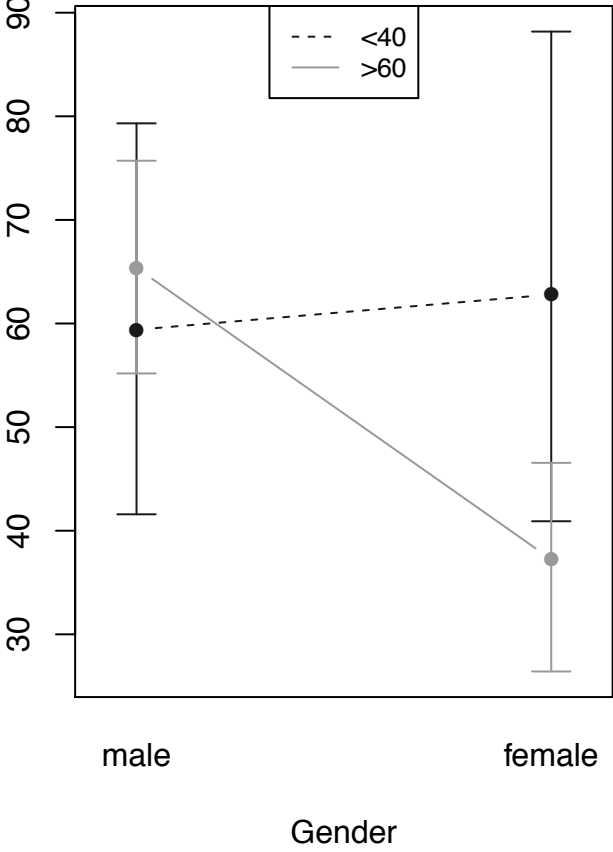
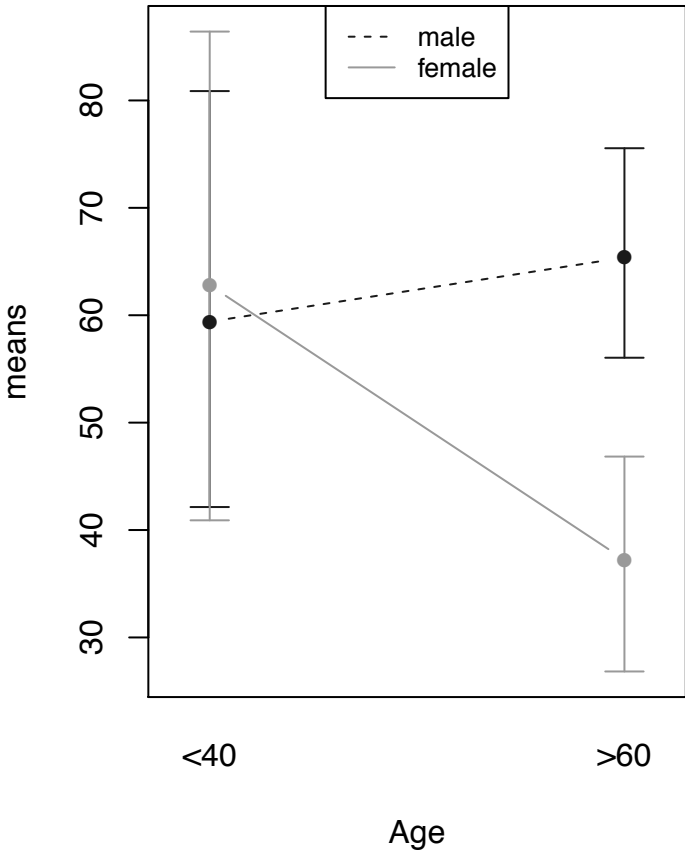


Additional file 1 Interaction plots of measurement results

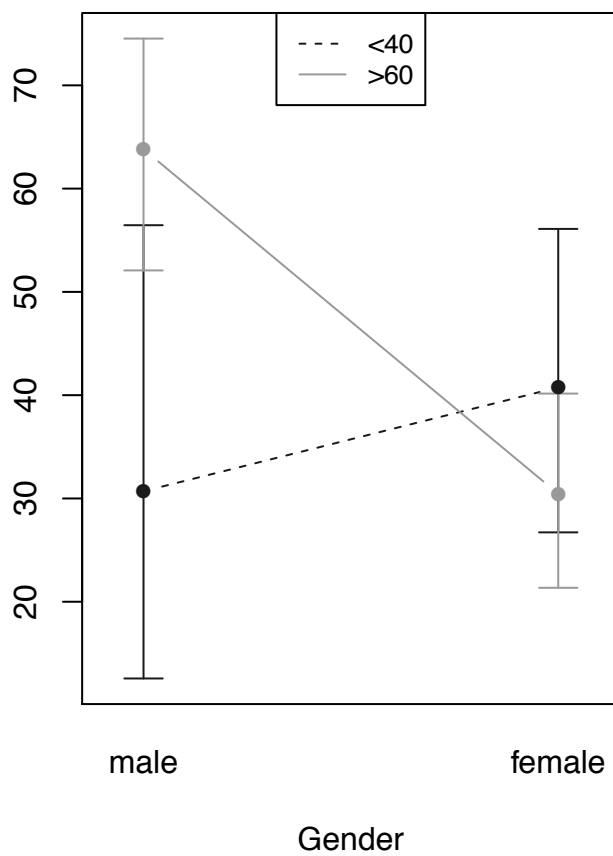
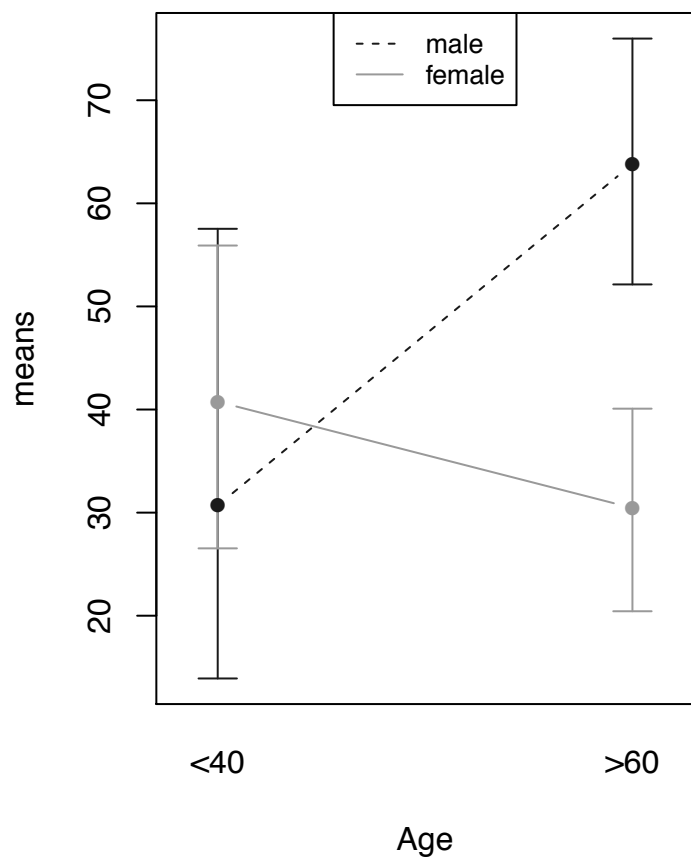
RMS SEMG amplitude | mean standing/80% MVC



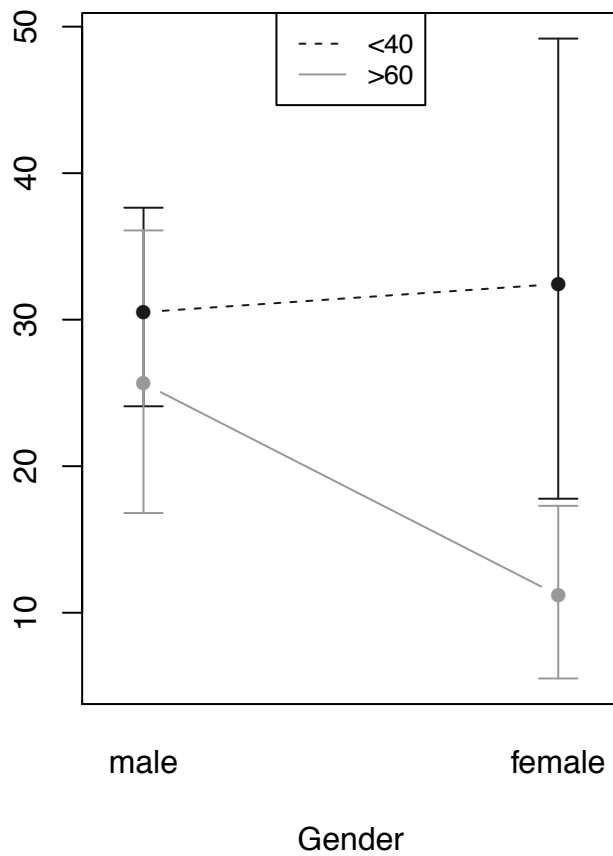
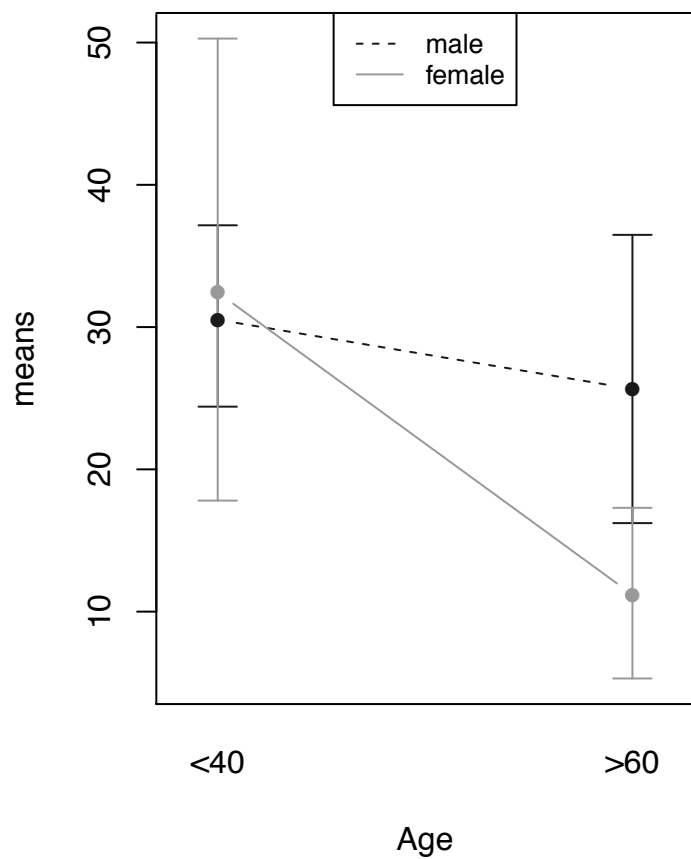
RMS SEMG amplitude | mean half flexion/80% MVC



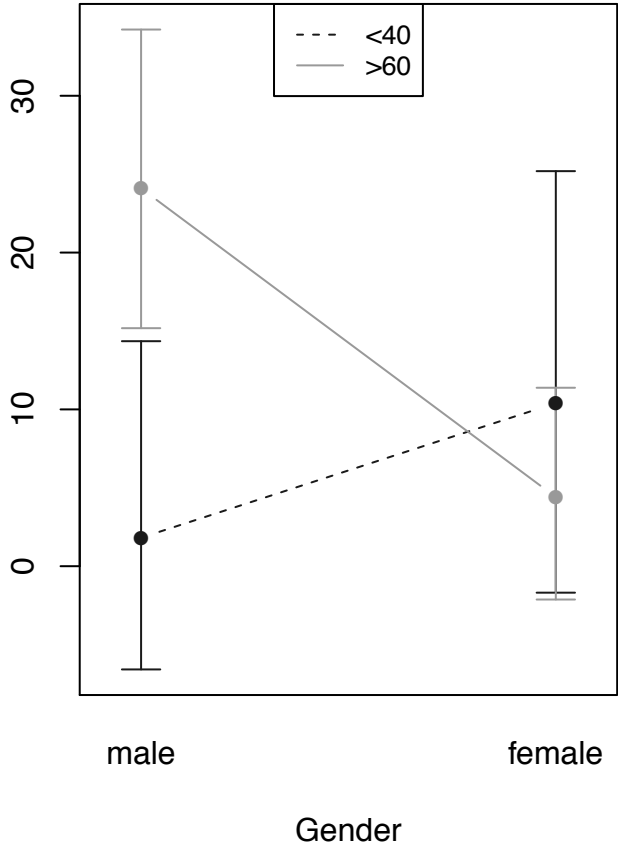
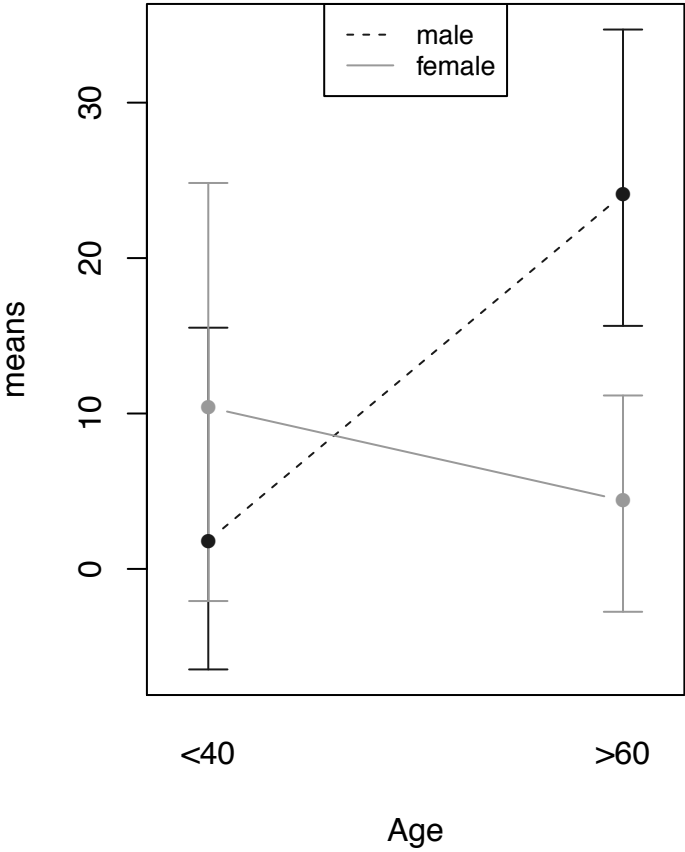
RMS SEMG amplitude | mean max flexion/80% MVC



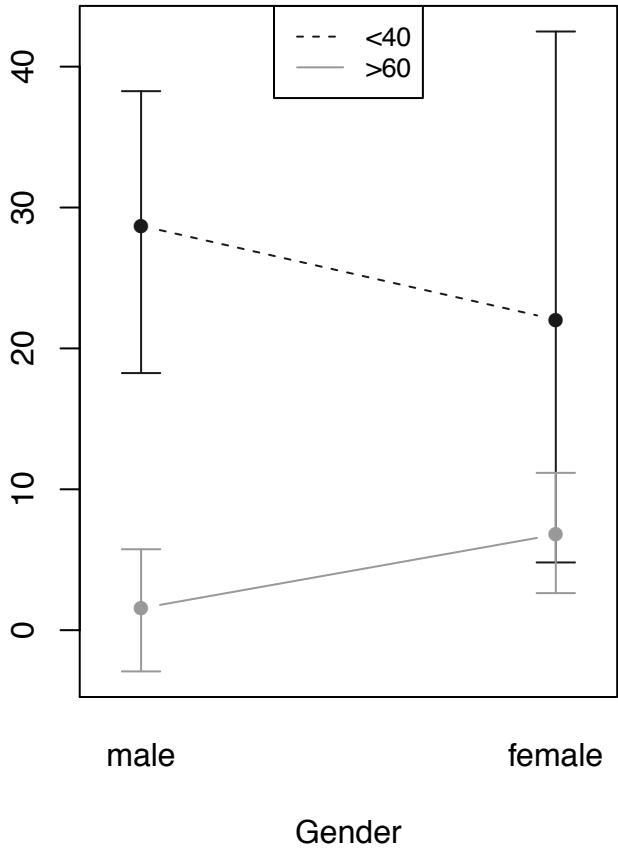
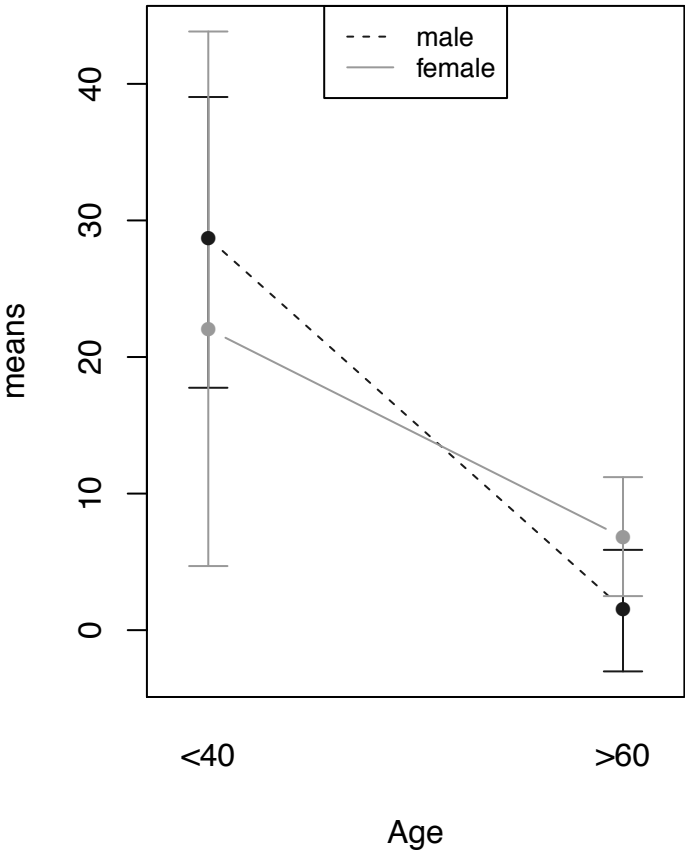
RMS SEMG changes | standing - half flexion



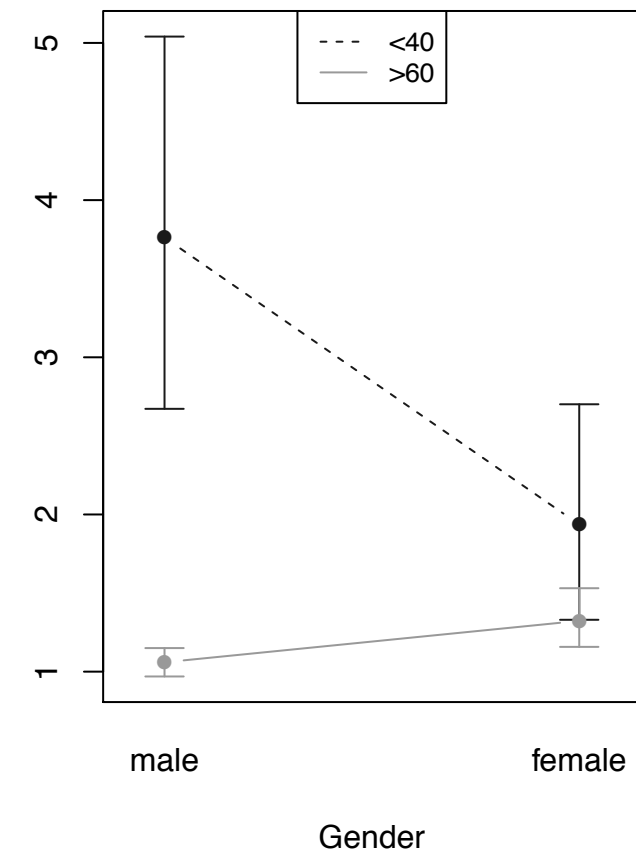
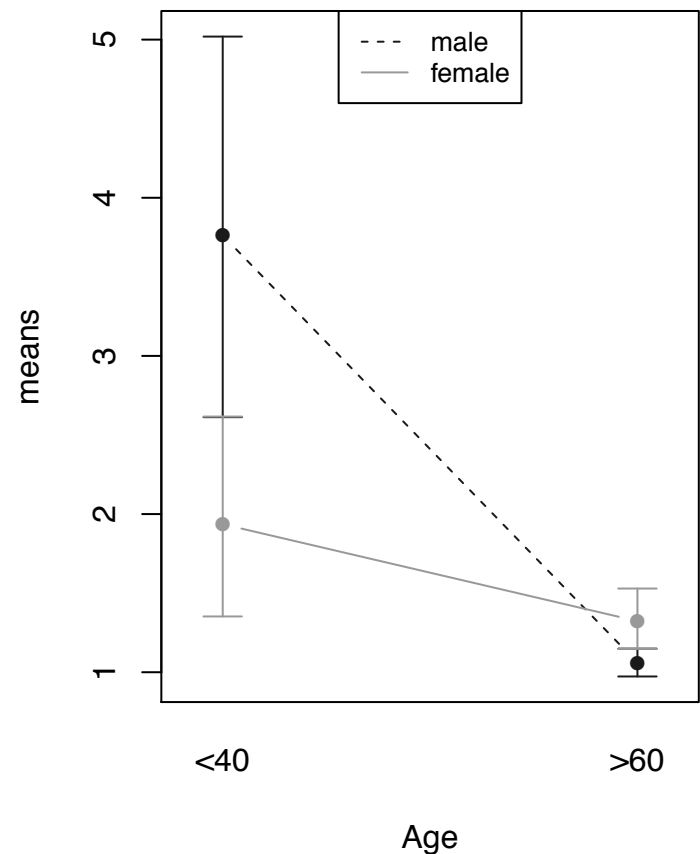
RMS SEMG changes | standing - max flexion



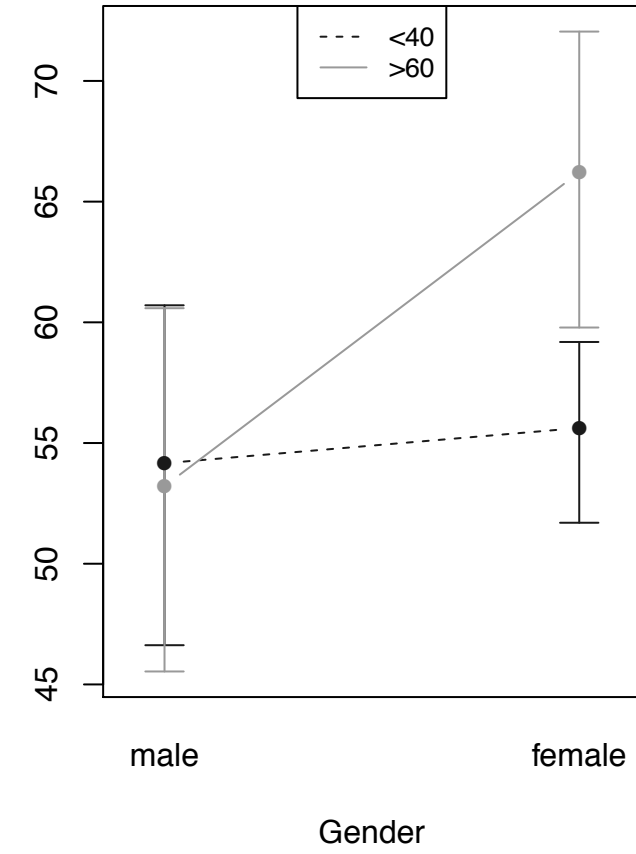
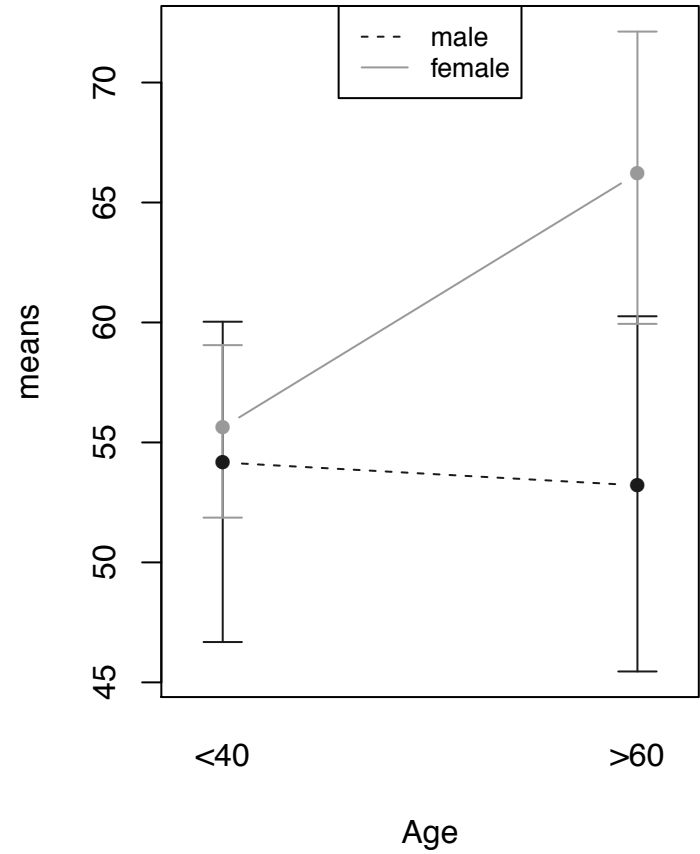
RMS SEMG changes | half flexion - max flexion



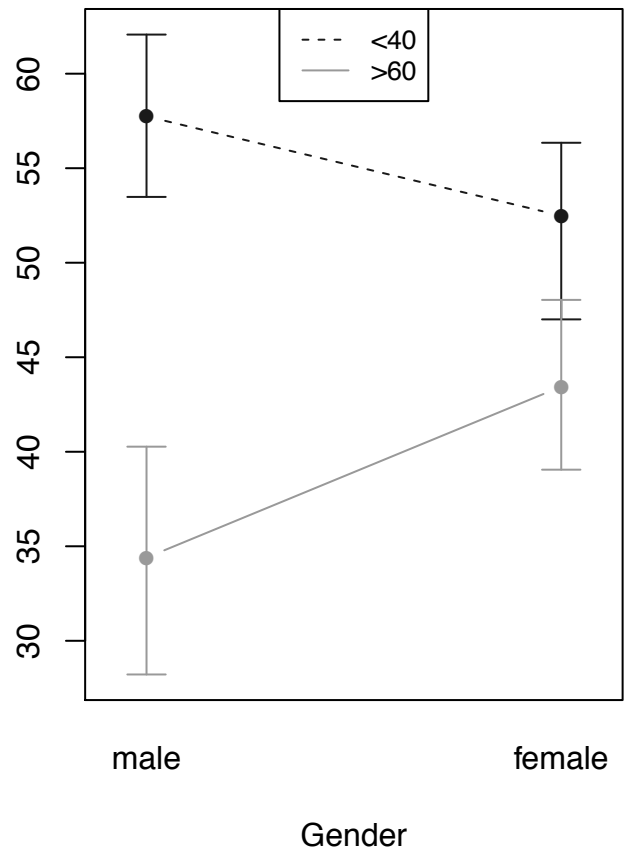
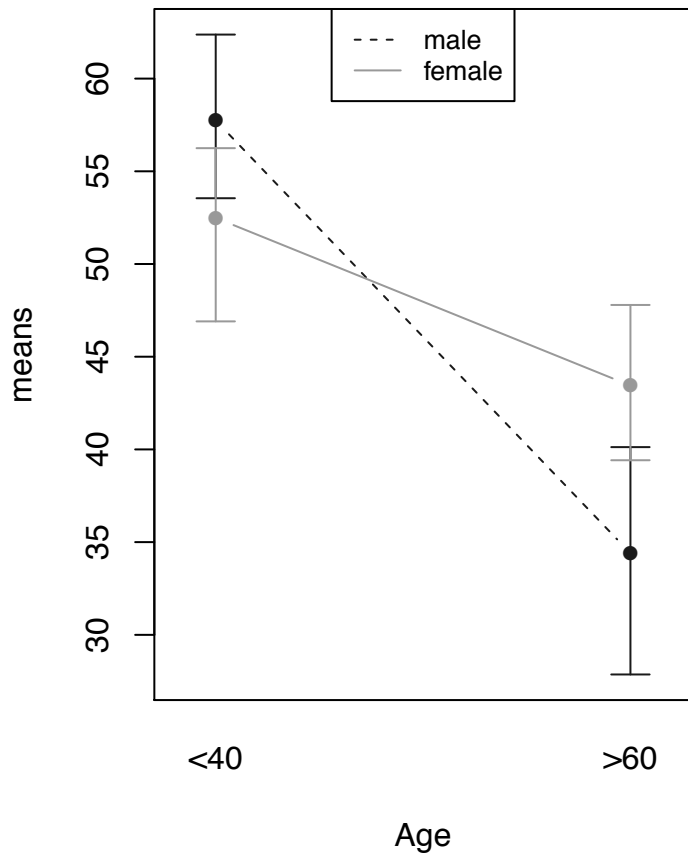
Flexion Relaxation Ratio (FRR) | mean half flexion/mean max flexion



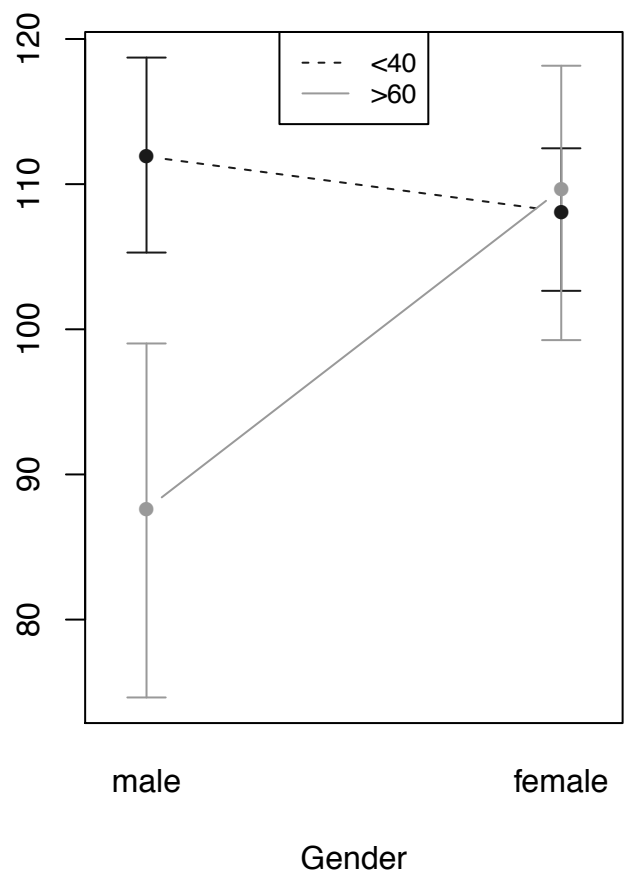
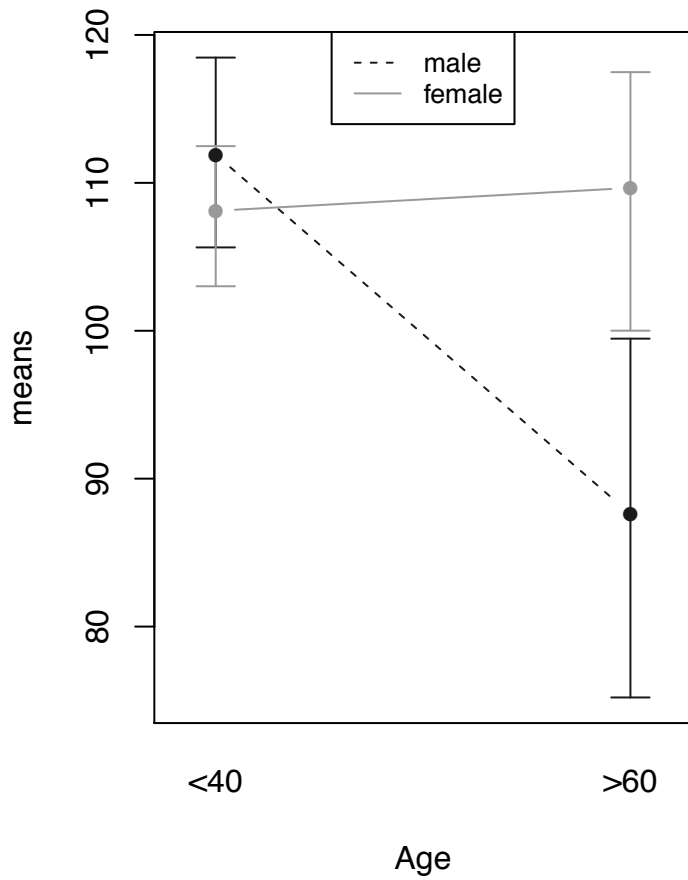
Range of Motion | hip | standing - max flexion



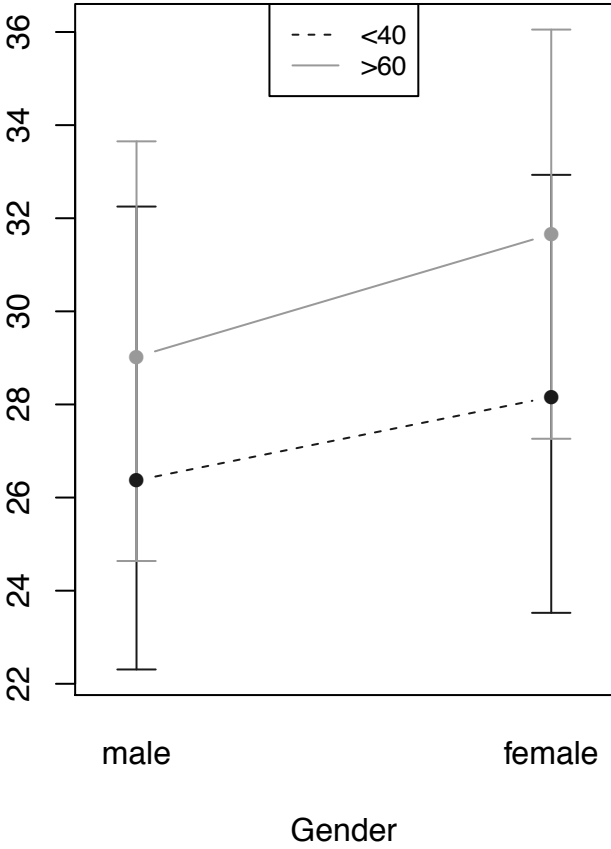
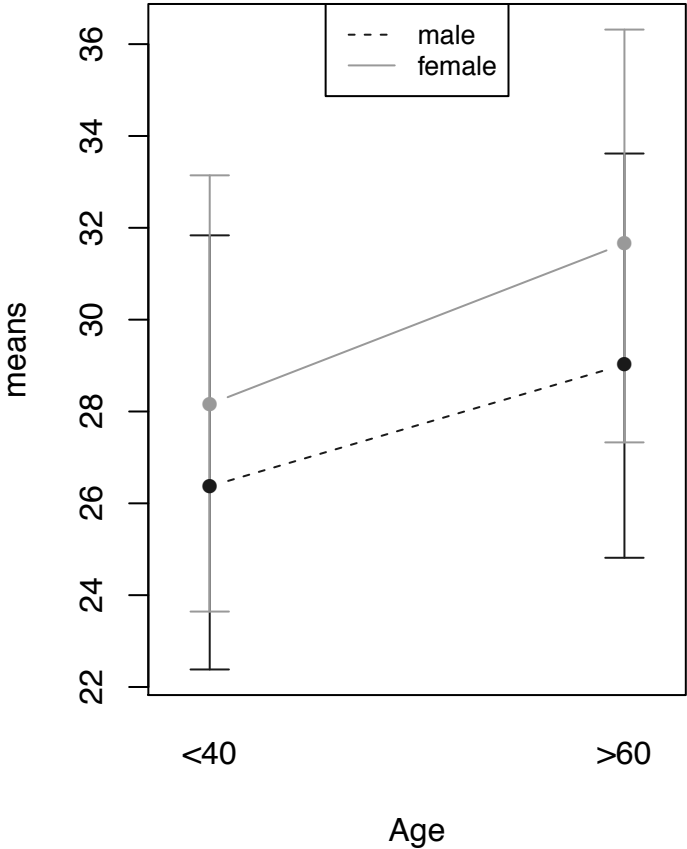
Range of Motion | lumbar | standing - max flexion



Range of Motion | gross trunk | standing - max flexion



Range of Motion | hip | standing - half



Range of Motion | lumbar | standing - half

