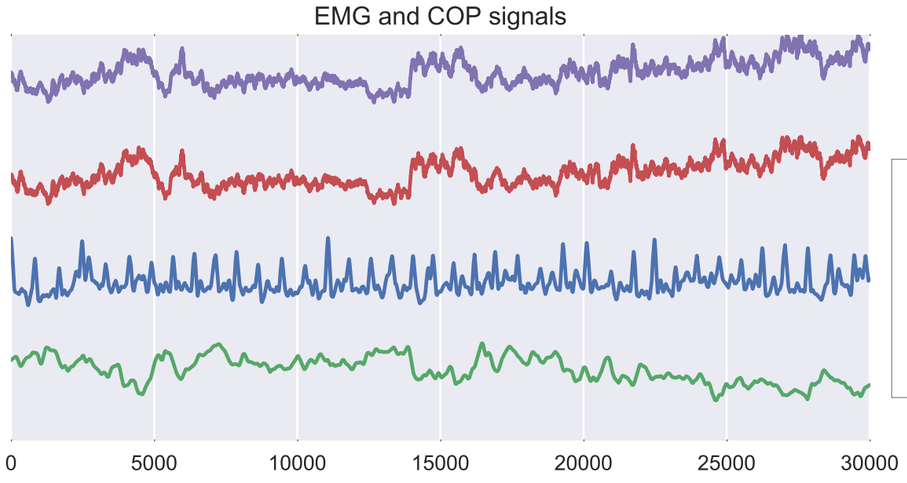
Front and Back muscle/Same direction - OneFootStanding_R_EO
Patient2 Healthy

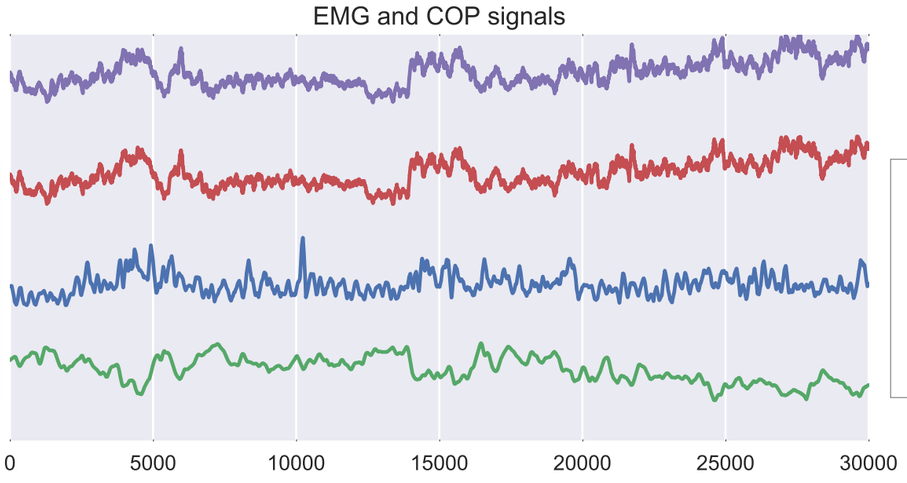


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.12639

Correlation coeficient EMG/velY: 0.14036

Correlation coeficient EMG/acelY: 0.13225

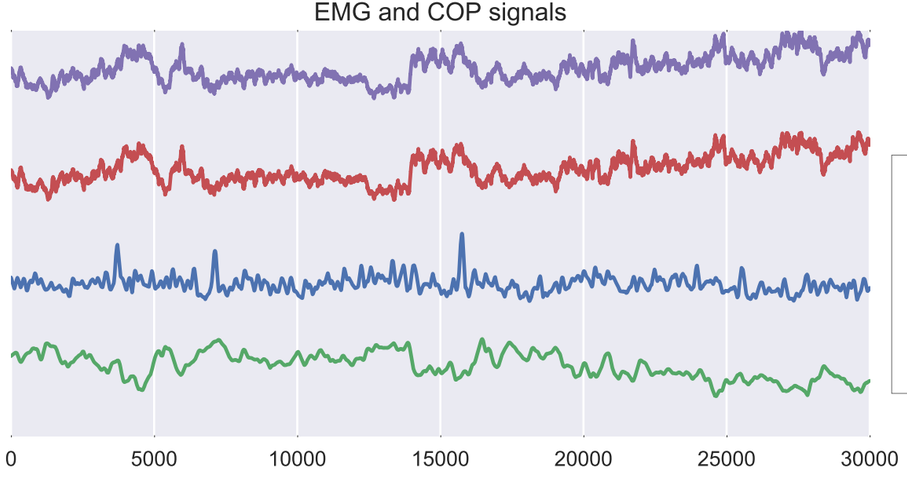


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.22128

Correlation coeficient EMG/velY: 0.28856

Correlation coeficient EMG/acelY: 0.28775

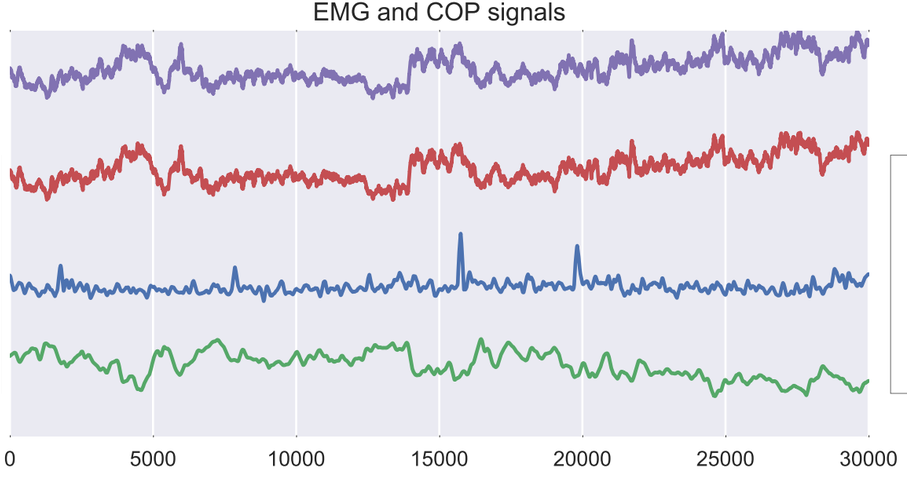


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.10432

Correlation coeficient EMG/velY: -0.13450

Correlation coeficient EMG/acelY: -0.13958



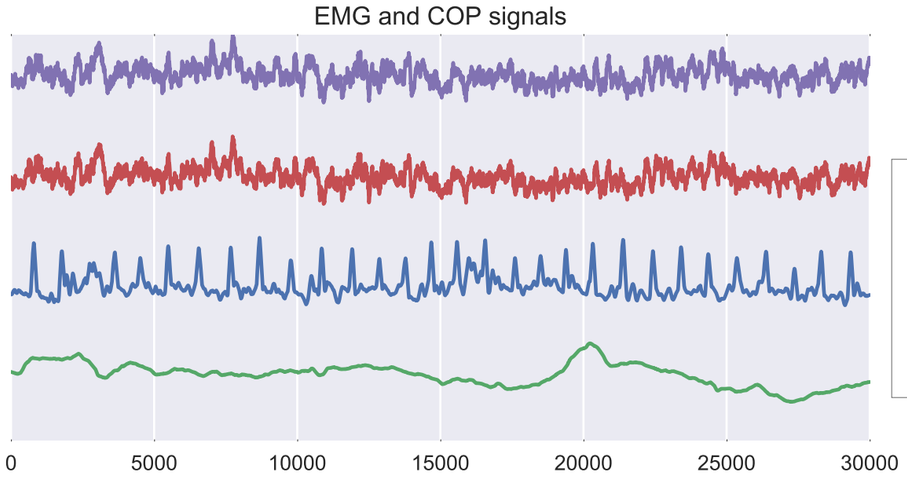
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.04730

Correlation coeficient EMG/velY: 0.06962

Correlation coeficient EMG/acelY: 0.05830

Front and Back muscle/Same direction - Standing_EO
Patient2 Healthy

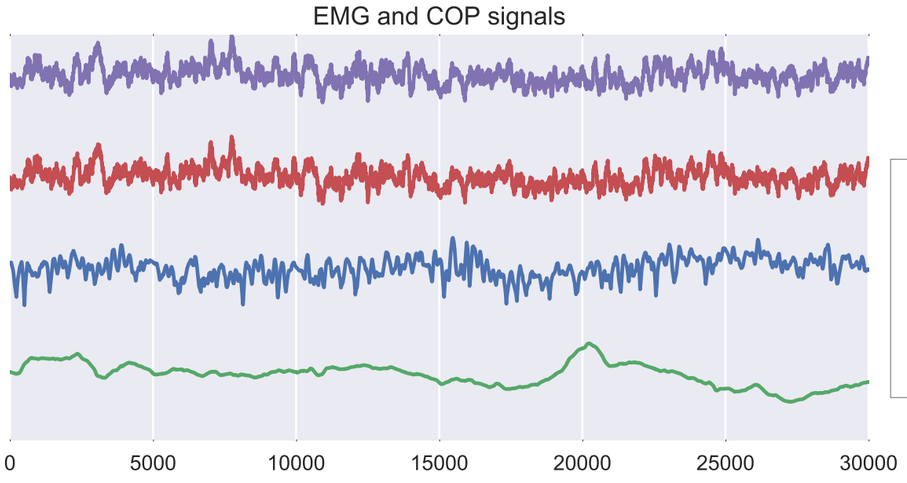


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.01554

Correlation coeficient EMG/velY: -0.02907

Correlation coeficient EMG/acelY: -0.03307

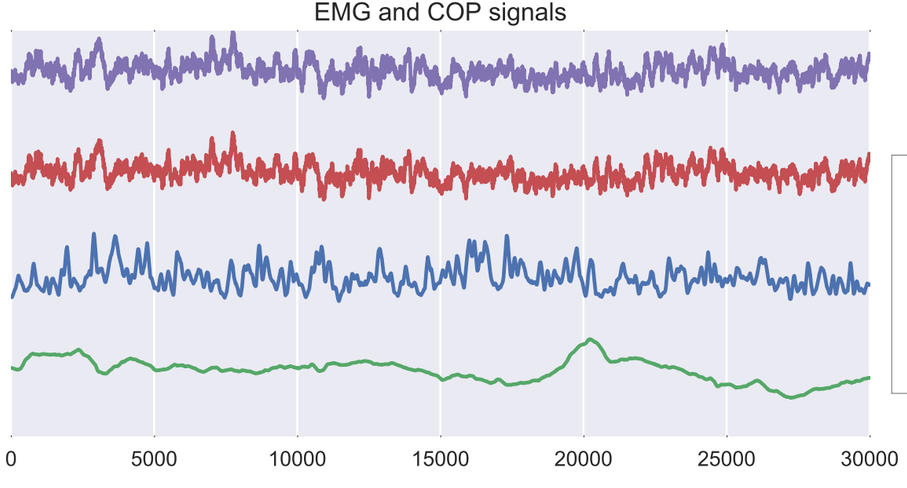


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.15654

Correlation coeficient EMG/velY: 0.10033

Correlation coeficient EMG/acelY: 0.09997

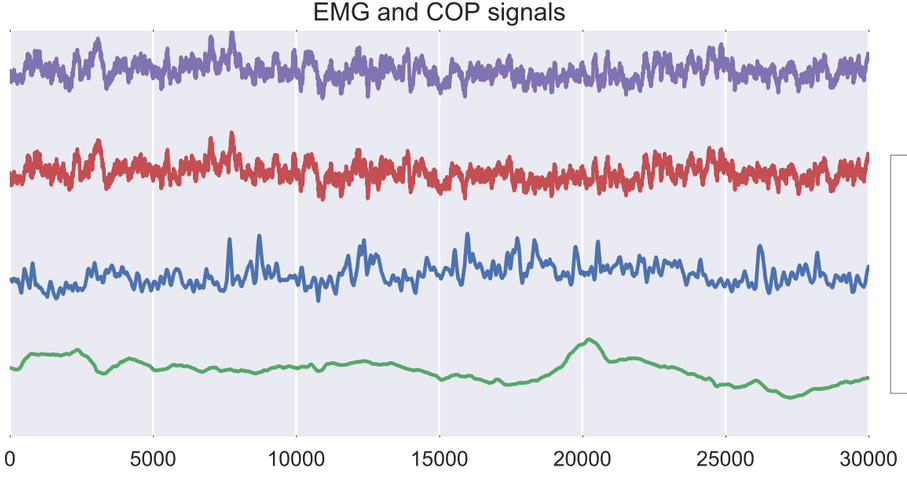


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.03150

Correlation coeficient EMG/velY: -0.02803

Correlation coeficient EMG/acelY: -0.04273



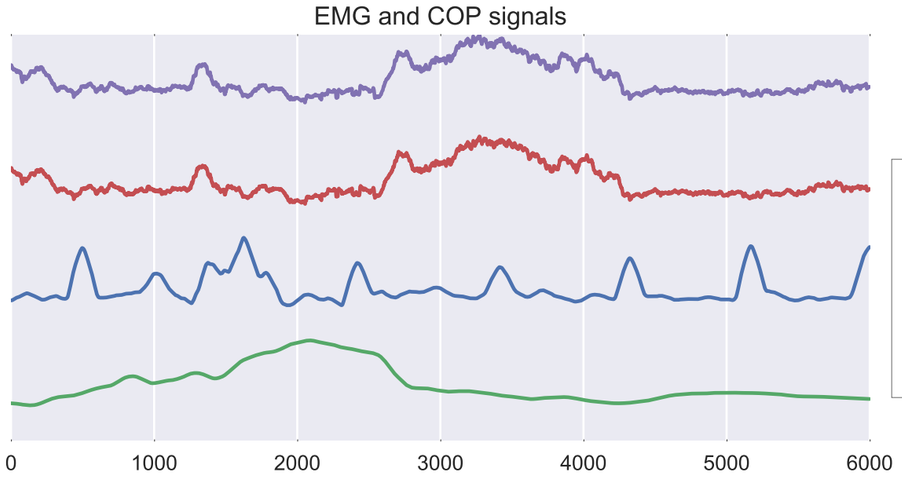
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.03376

Correlation coeficient EMG/velY: -0.11938

Correlation coeficient EMG/acelY: -0.11027

Front and Back muscle/Same direction - Reach_L
Patient2 Healthy

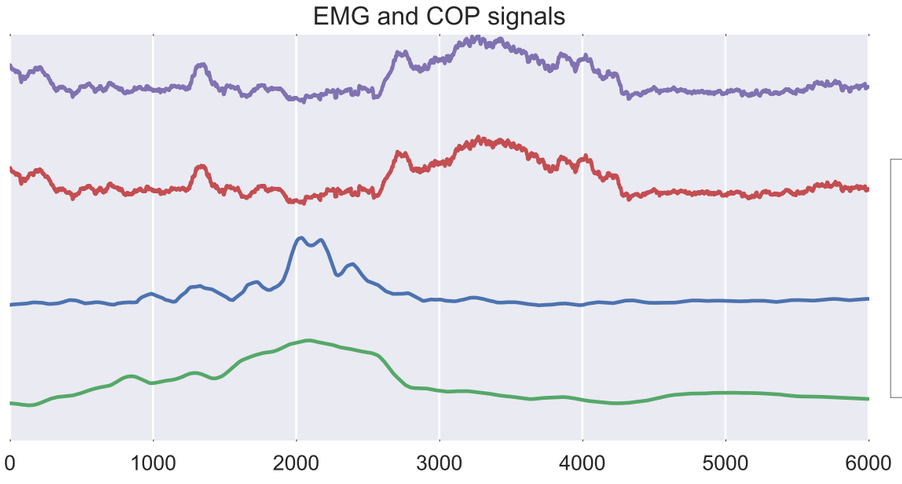


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.09738

Correlation coeficient EMG/velY: -0.13549

Correlation coeficient EMG/acelY: -0.13618

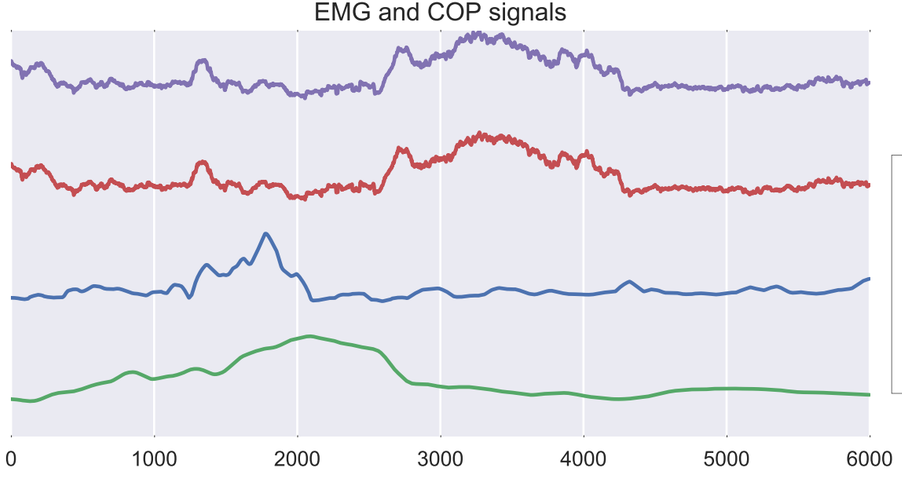


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.85591

Correlation coeficient EMG/velY: -0.31203

Correlation coeficient EMG/acelY: -0.32554

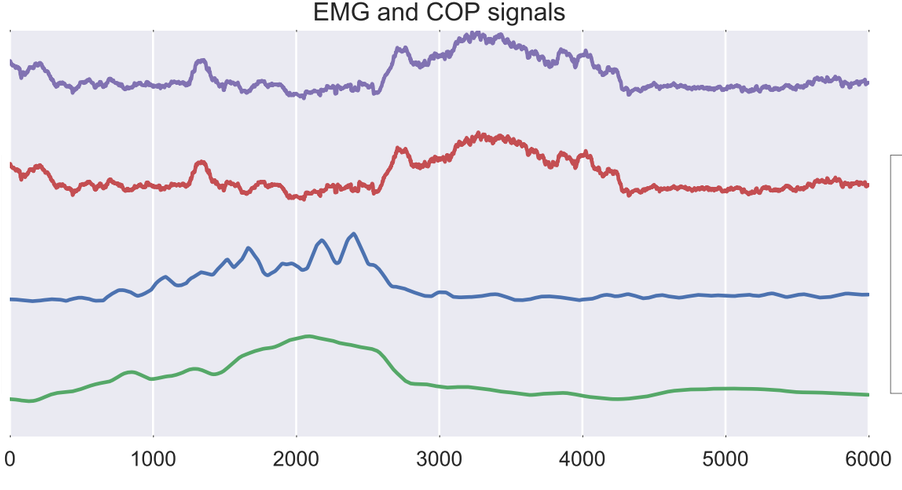


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.35866

Correlation coeficient EMG/velY: -0.19380

Correlation coeficient EMG/acelY: -0.19535



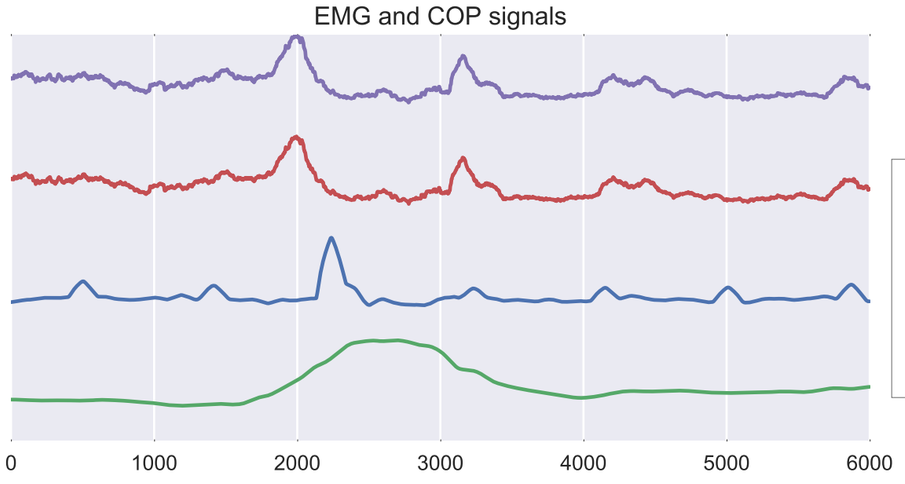
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.90940

Correlation coeficient EMG/velY: -0.34120

Correlation coeficient EMG/acelY: -0.36021

Front and Back muscle/Same direction - Reach_C
Patient2 Healthy

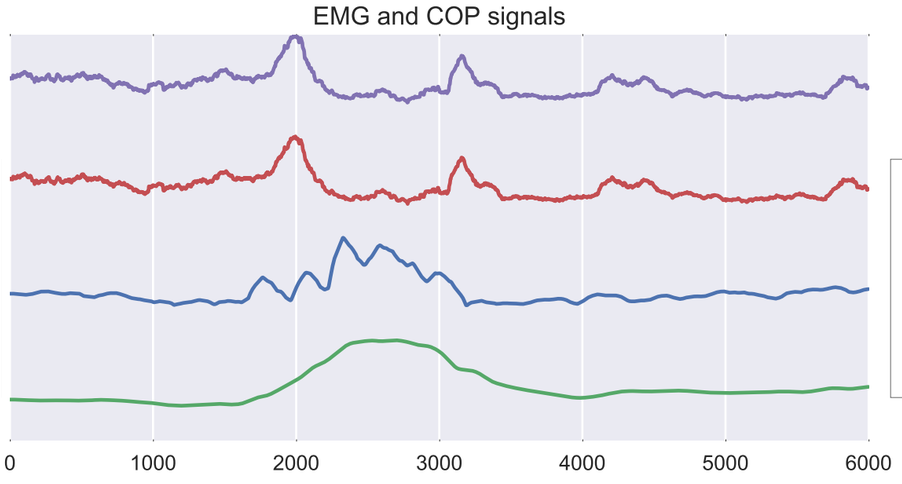


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.13817

Correlation coeficient EMG/velY: 0.03925

Correlation coeficient EMG/acelY: 0.03199

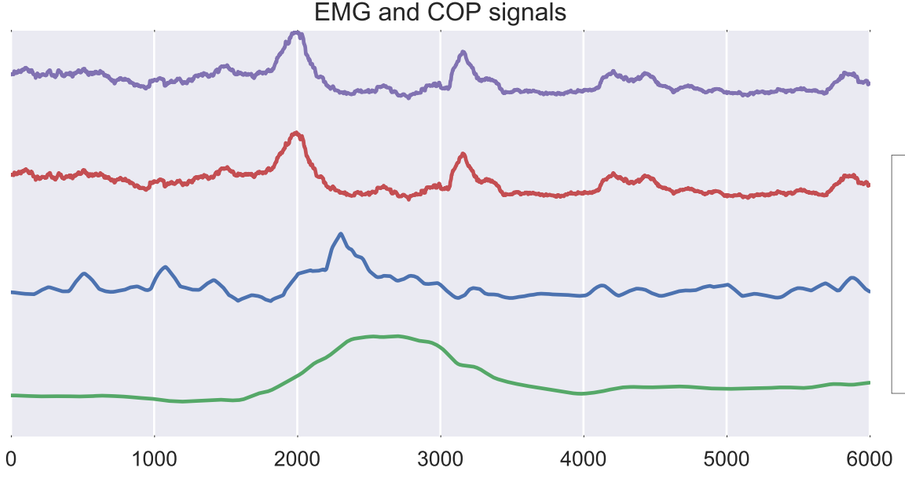


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.83259

Correlation coeficient EMG/velY: -0.15136

Correlation coeficient EMG/acelY: -0.17857

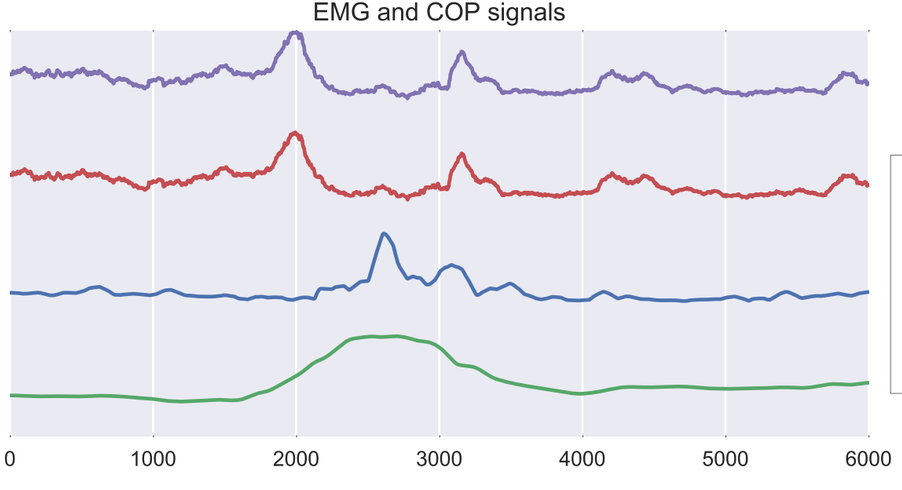


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.55759

Correlation coeficient EMG/velY: -0.04160

Correlation coeficient EMG/acelY: -0.05671



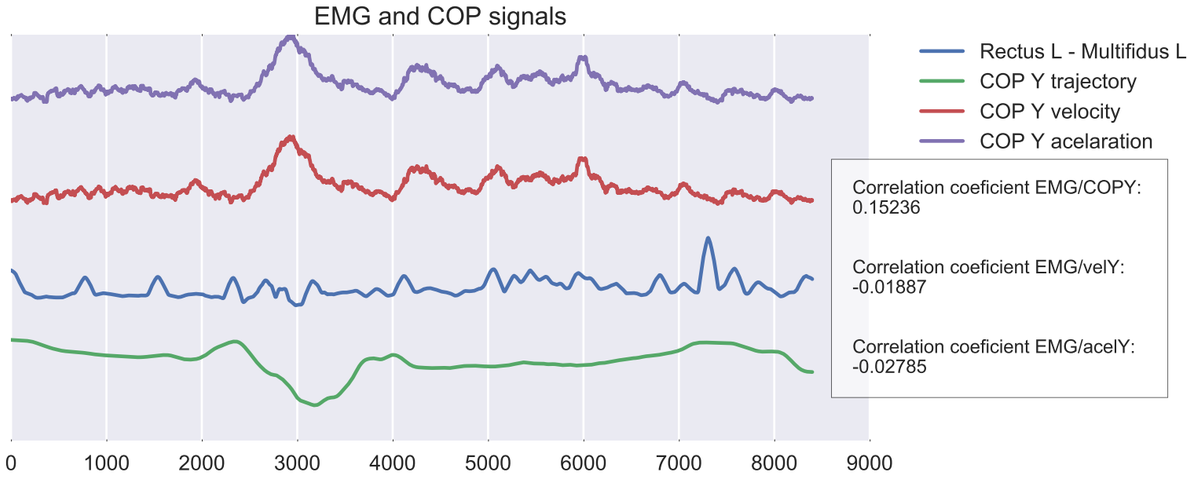
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

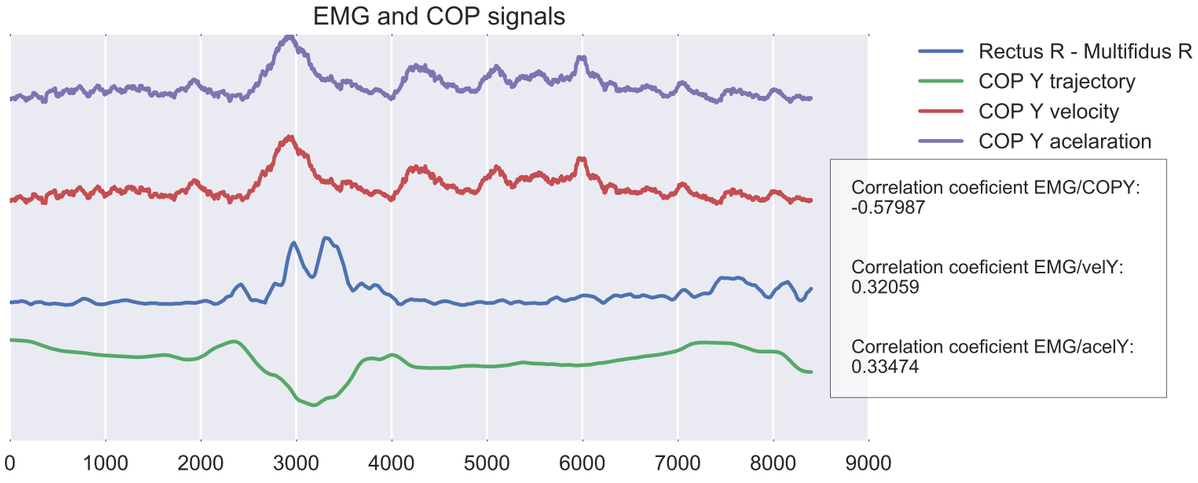
Correlation coeficient EMG/COPY: 0.71177

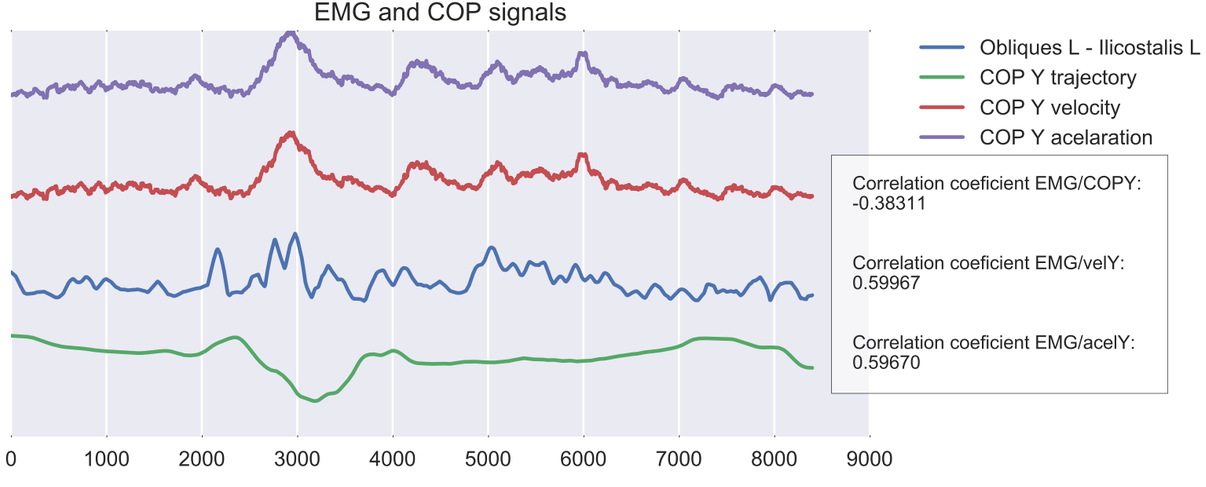
Correlation coeficient EMG/velY: -0.09052

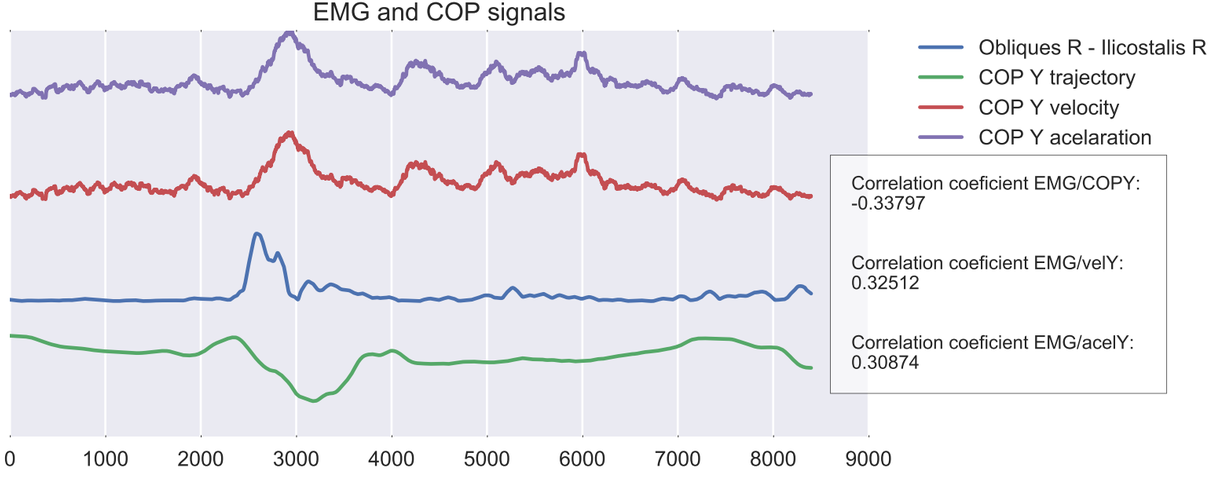
Correlation coeficient EMG/acelY: -0.10662

Front and Back muscle/Same direction - Reach_Ground
Patient2 Healthy

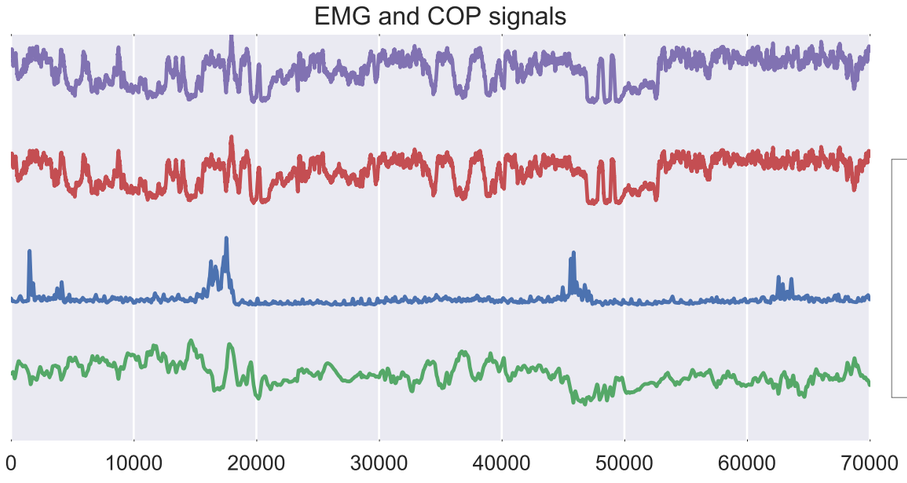








Front and Back muscle/Same direction - OneFootStanding_R_EC
Patient2 Healthy

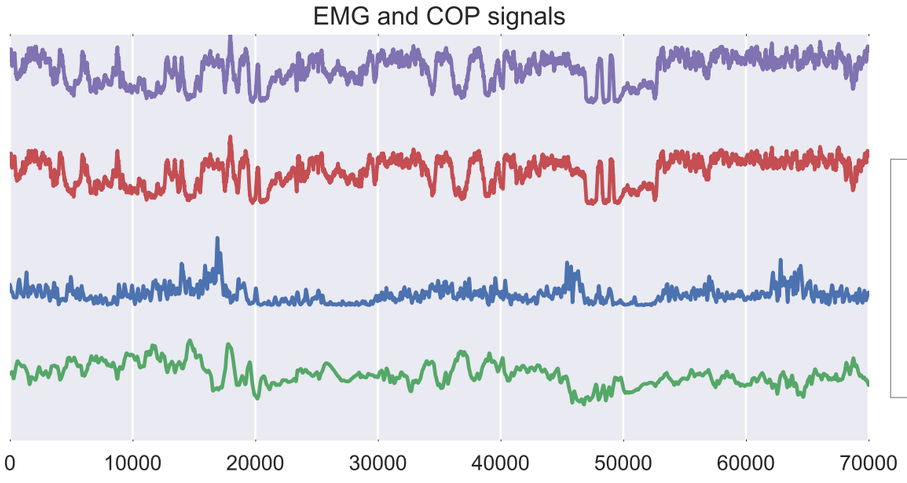


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.04661

Correlation coeficient EMG/velY: 0.13342

Correlation coeficient EMG/acelY: 0.12830

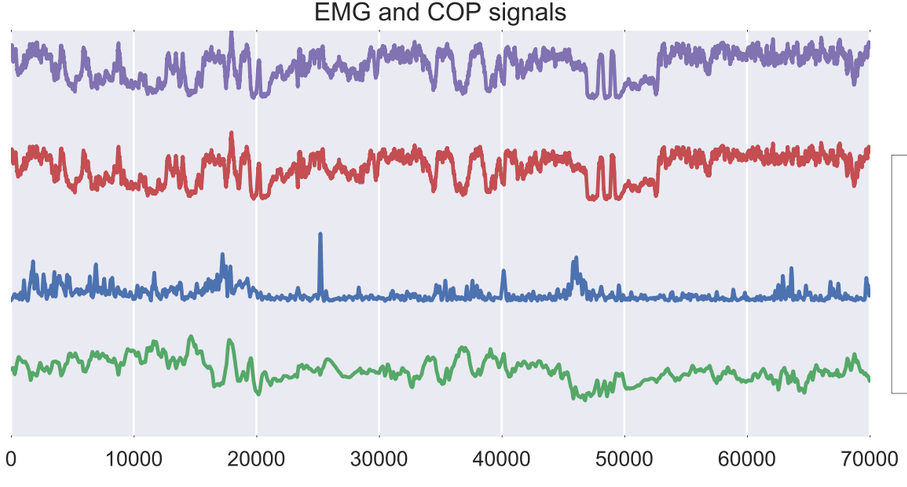


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.05721

Correlation coeficient EMG/velY: 0.21871

Correlation coeficient EMG/acelY: 0.21637

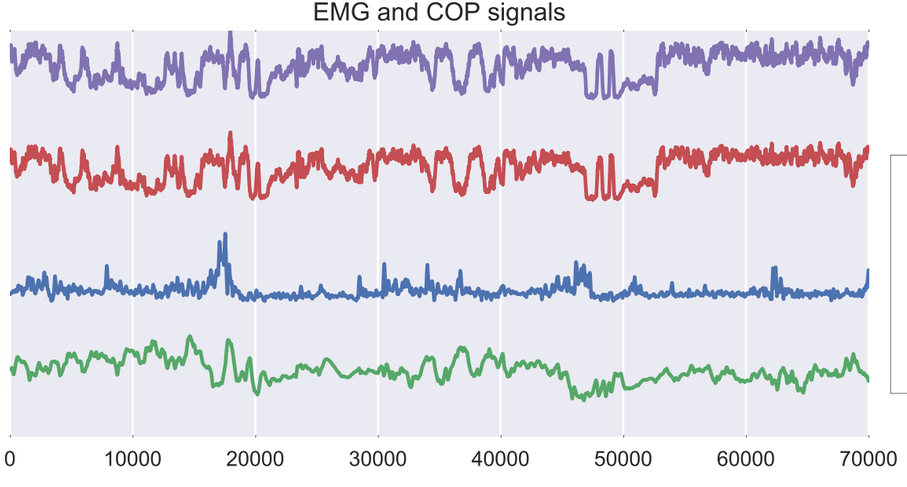


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.00298

Correlation coeficient EMG/velY: 0.01084

Correlation coeficient EMG/acelY: 0.00991



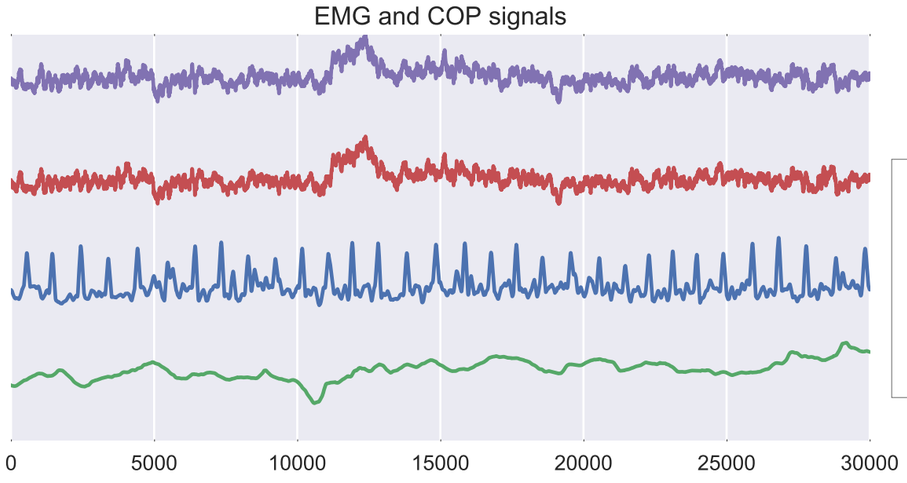
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.01503

Correlation coeficient EMG/velY: 0.06417

Correlation coeficient EMG/acelY: 0.05933

Front and Back muscle/Same direction - Standing_EC
Patient2 Healthy

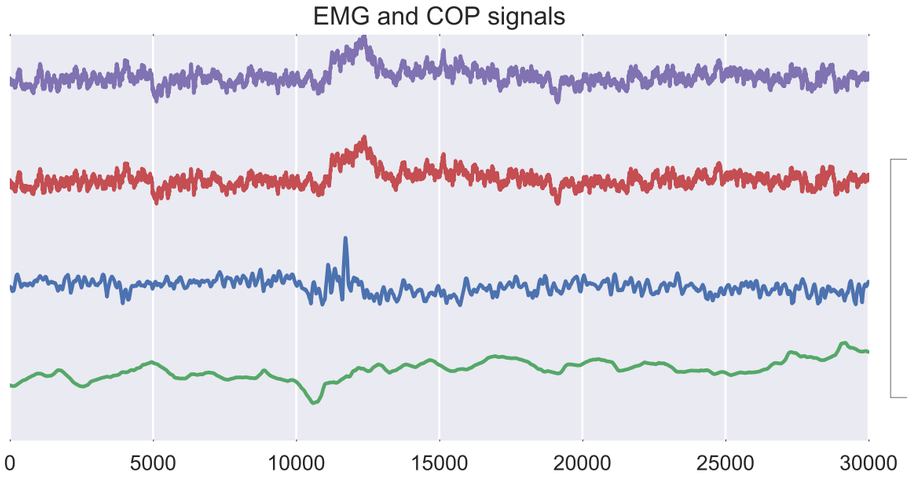


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.09070

Correlation coeficient EMG/velY: -0.03427

Correlation coeficient EMG/acelY: -0.04140

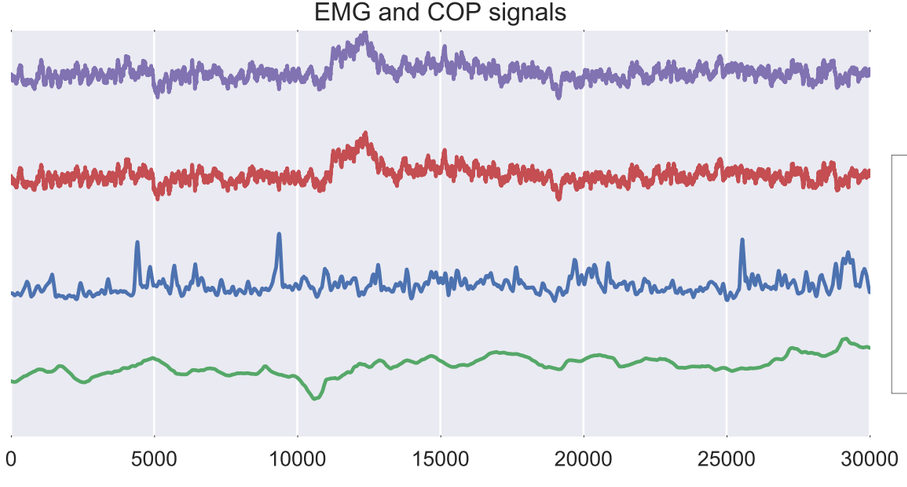


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.26846

Correlation coeficient EMG/velY: -0.10860

Correlation coeficient EMG/acelY: -0.10137

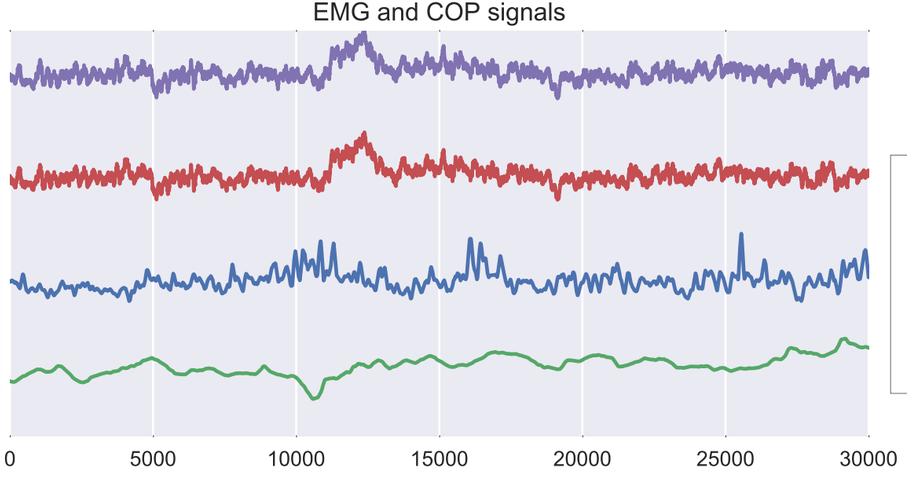


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.30665

Correlation coeficient EMG/velY: 0.01589

Correlation coeficient EMG/acelY: -0.00293



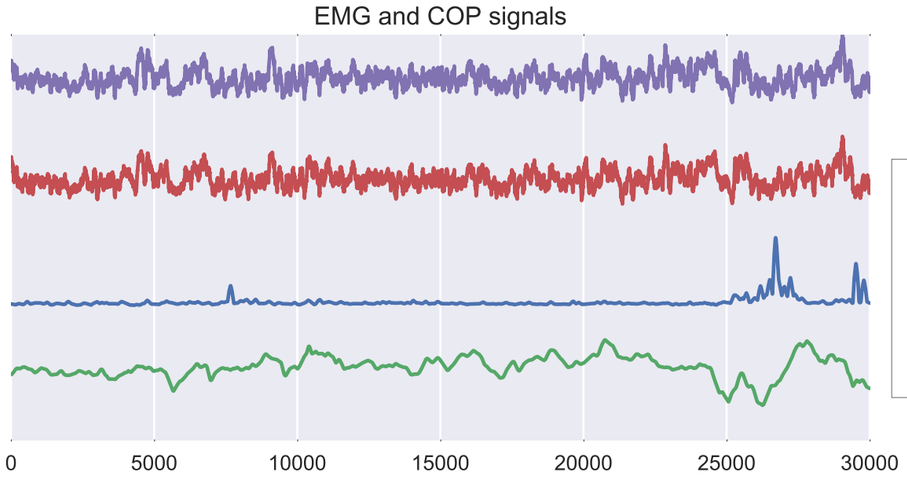
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.01455

Correlation coeficient EMG/velY: 0.08775

Correlation coeficient EMG/acelY: 0.08385

Front and Back muscle/Same direction - OneFootStanding_L_EC
Patient2 Healthy

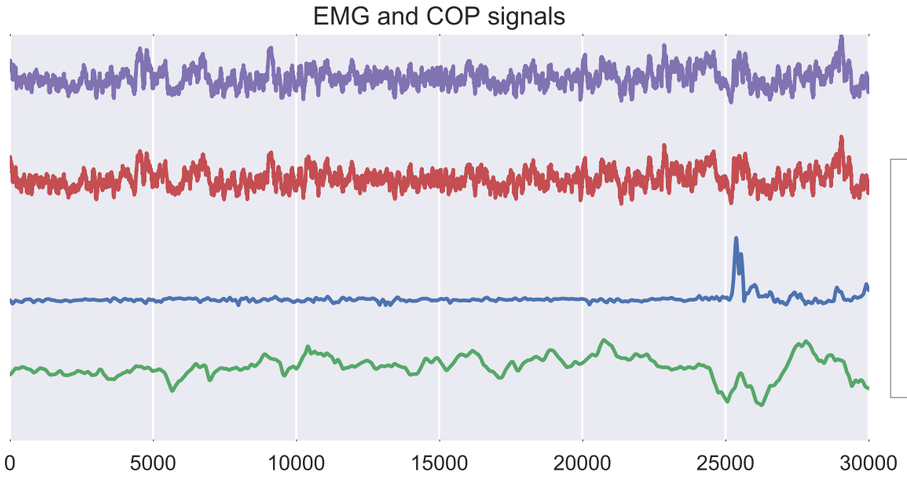


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.27646

Correlation coeficient EMG/velY: -0.09635

Correlation coeficient EMG/acelY: -0.11179

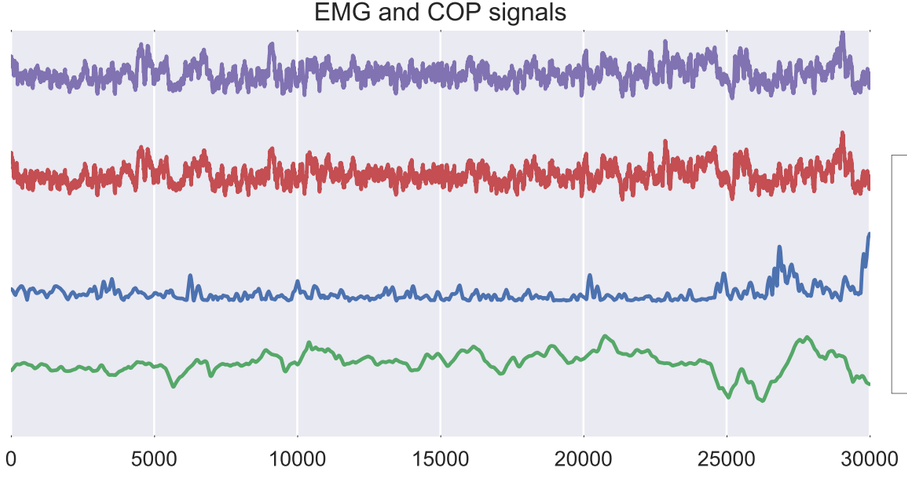


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.26318

Correlation coeficient EMG/velY: 0.14811

Correlation coeficient EMG/acelY: 0.11279

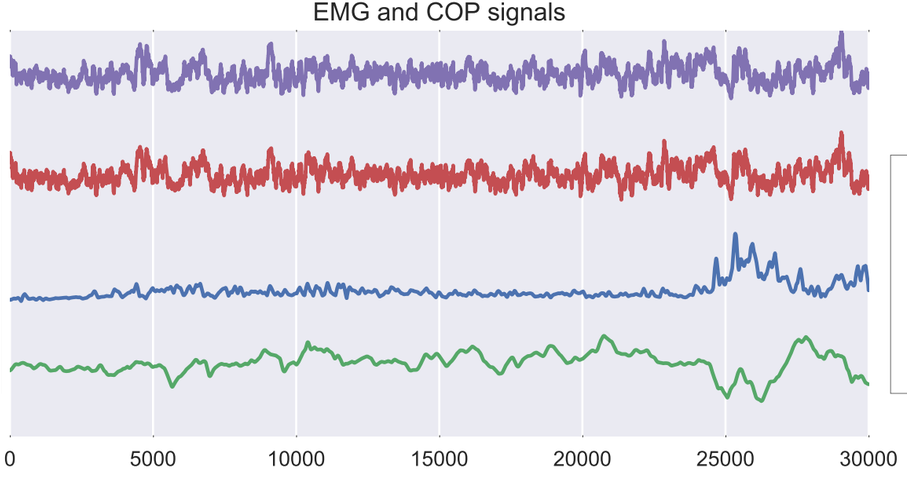


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.22325

Correlation coeficient EMG/velY: -0.06395

Correlation coeficient EMG/acelY: -0.07637



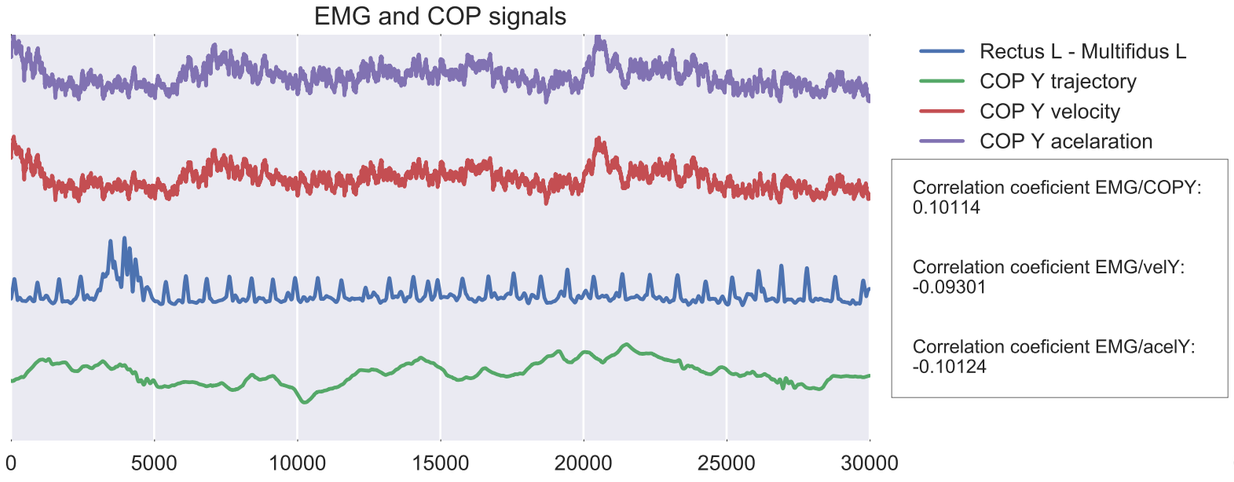
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

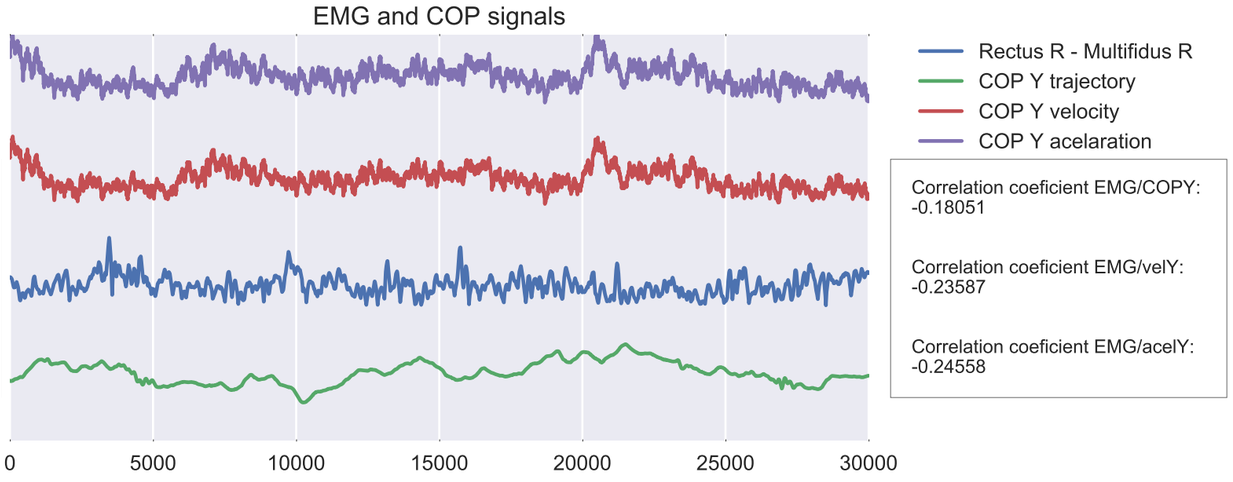
Correlation coeficient EMG/COPY: -0.43988

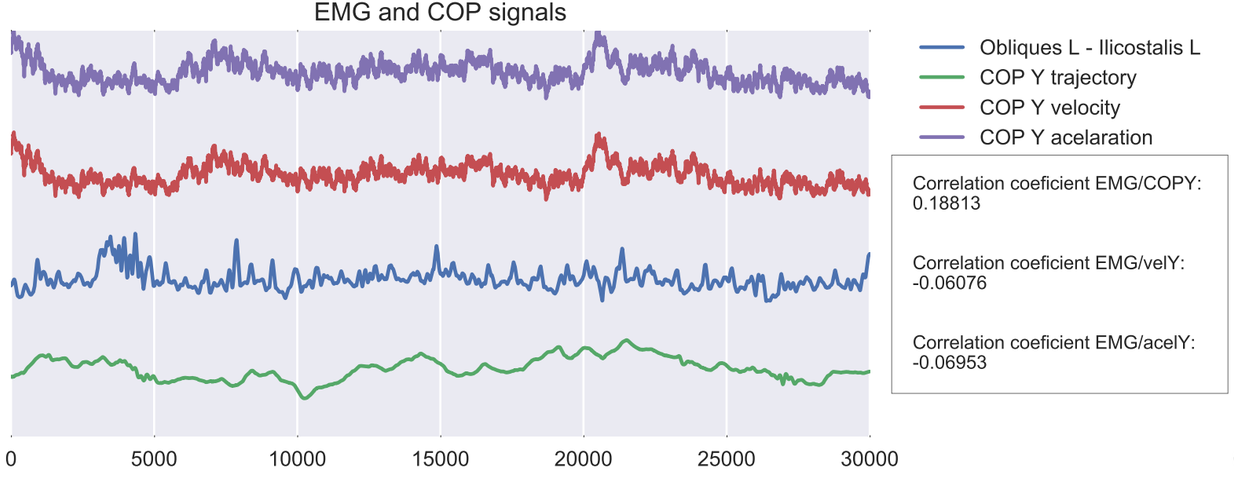
Correlation coeficient EMG/velY: 0.07726

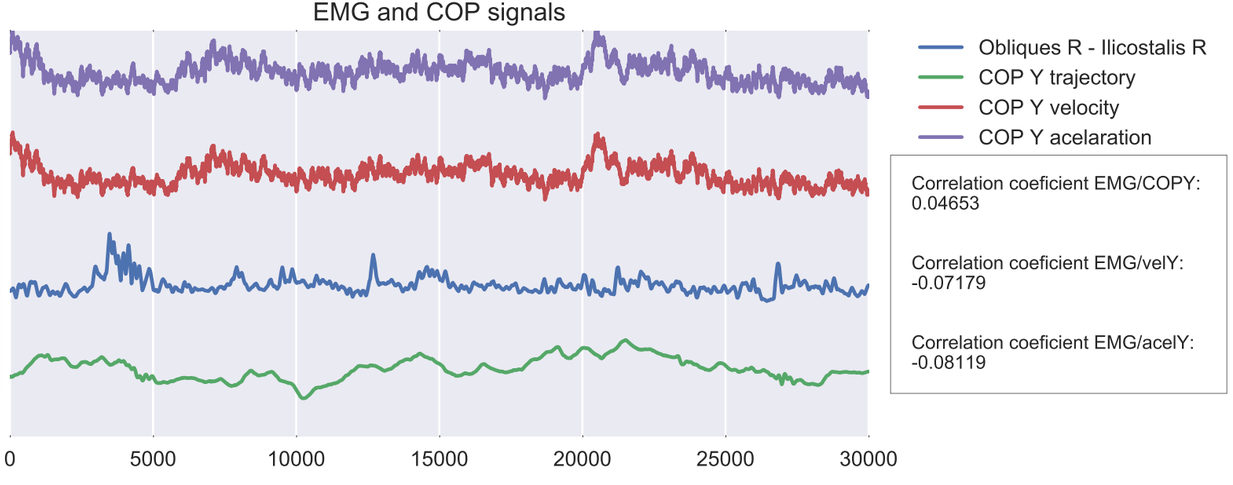
Correlation coeficient EMG/acelY: 0.02747

Front and Back muscle/Same direction - Arms_extension
Patient2 Healthy

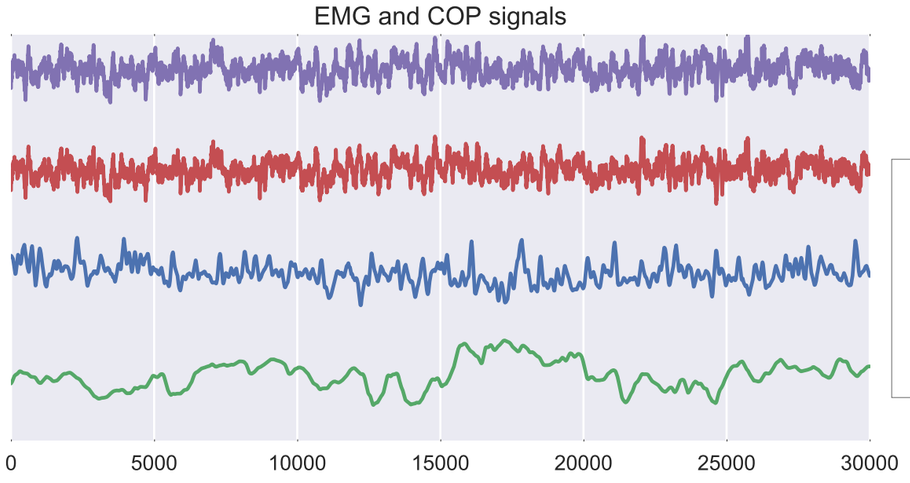








Front and Back muscle/Same direction - OneFootStanding_L_EO
Patient2 Healthy

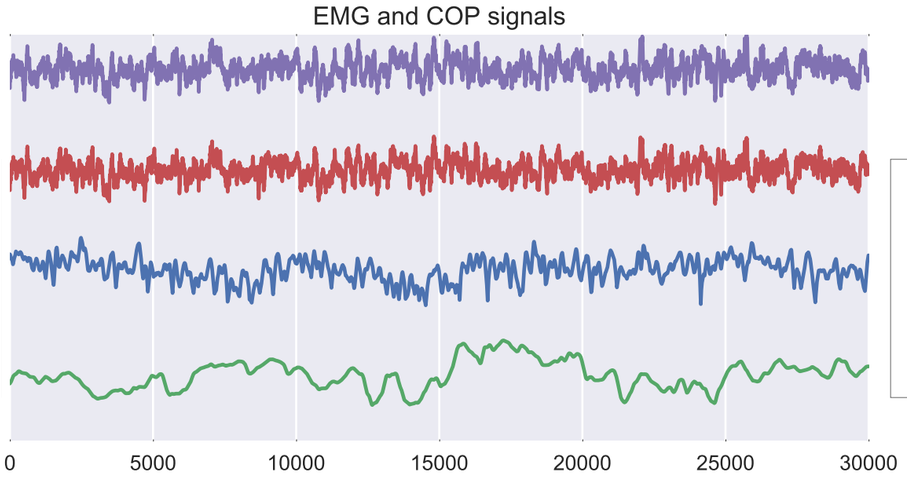


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: -0.17744

Correlation coeficient EMG/velY: -0.02830

Correlation coeficient EMG/acelY: -0.02741

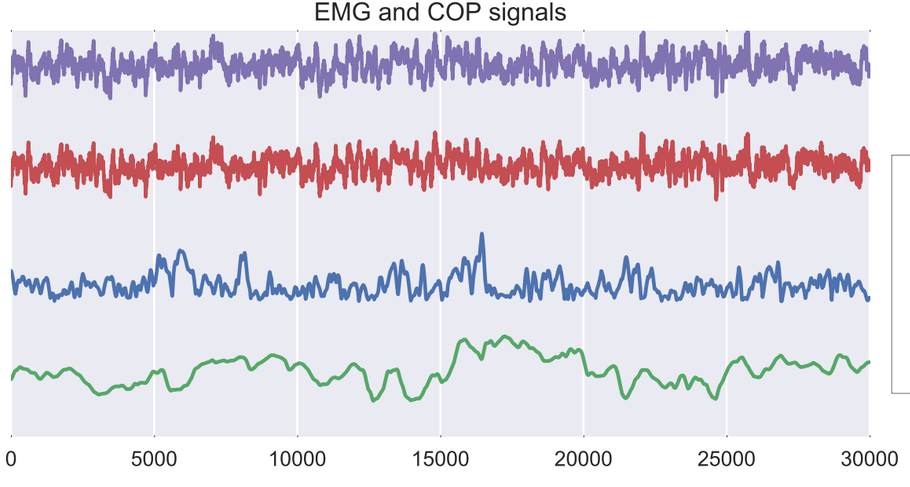


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.04465

Correlation coeficient EMG/velY: -0.07107

Correlation coeficient EMG/acelY: -0.07100

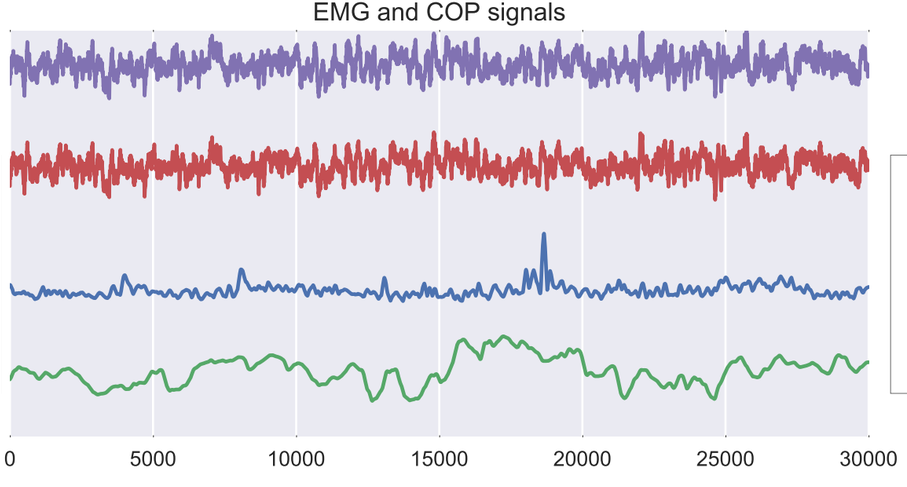


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.00145

Correlation coeficient EMG/velY: 0.00191

Correlation coeficient EMG/acelY: -0.00319



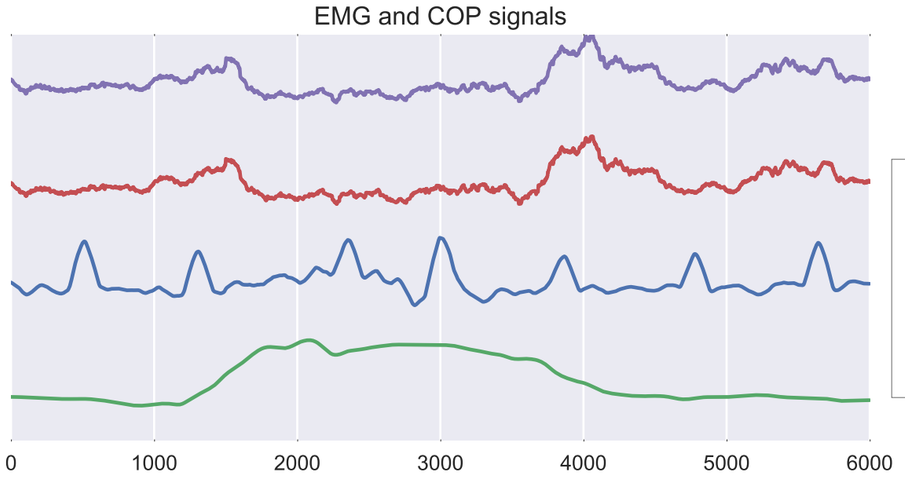
Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.17301

Correlation coeficient EMG/velY: 0.03607

Correlation coeficient EMG/acelY: 0.04390

Front and Back muscle/Same direction - Reach_R
Patient2 Healthy

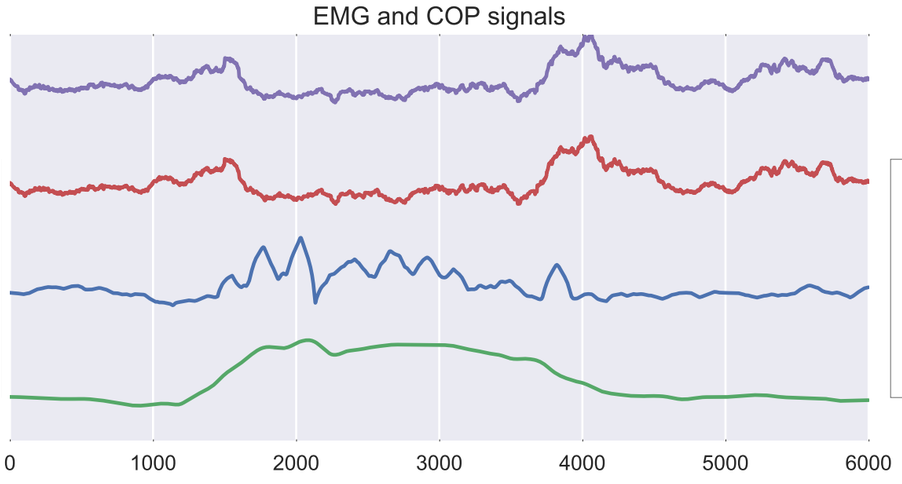


Rectus L - Multifidus L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.14487

Correlation coeficient EMG/velY: -0.03438

Correlation coeficient EMG/acelY: -0.04034

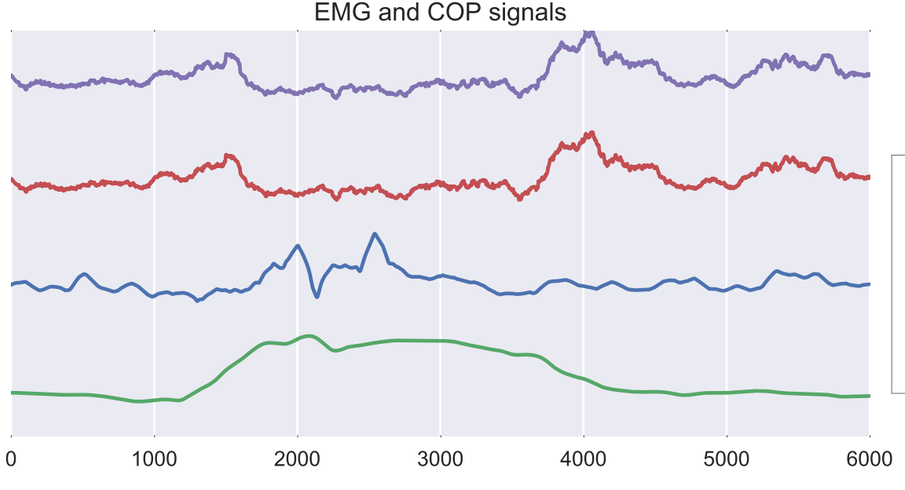


Rectus R - Multifidus R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.77406

Correlation coeficient EMG/velY: -0.42945

Correlation coeficient EMG/acelY: -0.45047

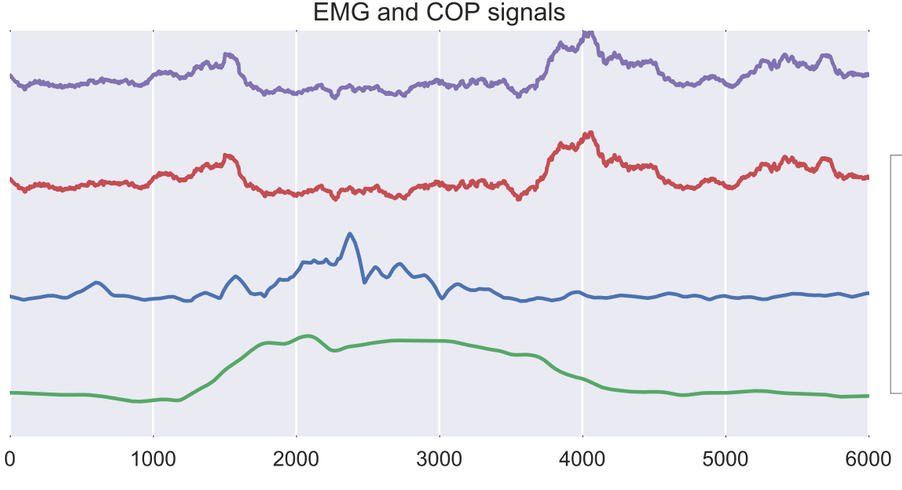


Obliques L - Ilicostalis L
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.50522

Correlation coeficient EMG/velY: -0.30078

Correlation coeficient EMG/acelY: -0.31937



Obliques R - Ilicostalis R
COP Y trajectory
COP Y velocity
COP Y acelaration

Correlation coeficient EMG/COPY: 0.65180

Correlation coeficient EMG/velY: -0.39829

Correlation coeficient EMG/acelY: -0.41105