OP2 Discrete Metric Outcomes:

Last Updated 4/21/2022 by Aidan

1. studyid: OP2\_S# 🡪 subject identifier
2. shoe\_type: Adidas, OOmg, OoOG, EVA, Birk, Reef 🡪 shoe identifier
3. mass: subject mass (kg)
4. height: subject height (m)
5. speed: center of gravity velocity (m/s)
6. grf1: first ground reaction force peak normalized to (%BW)
7. grf1\_ind: index of stance this occurs at
8. grf2: second ground reaction force peak normalized to (%BW)
9. grf2\_ind: index of stance this occurs at
10. kfhs: knee flexion at heel strike (degrees)
11. mskf: max knee flexion in the first 40% of stance (degrees)
12. mske\_peak\_stance: minimum knee flexion in late stance (degrees)
13. kfrom\_stance: knee range of motion during stance (degrees)
14. kfto: knee flexion at toe off (degrees)
15. mean\_ankle\_y: mean ankle inversion/eversion angle over stance (degrees)
16. hfhs: hip flexion at heel strike (degrees)
17. hfto: hip flexion at toe off (degrees)
18. hf\_max: max hip flexion in early stance (degrees)
19. he\_max: max hip extension angle in late stance (degrees)
20. hsrom\_stance: hip range of motion during stance (degrees)
21. afhs: ankle flexion angle at heel strike (degrees)
22. afto: ankle flexion angle at toe off (degrees)
23. apf\_peak: ankle plantar flexion peak during stance (degrees)
24. asrom\_stance: ankle range of motion during stance (degrees)
25. krot\_avg: average knee rotation angle over stance (degrees)
26. krot\_hs: knee rotation at heel strike (degrees)
27. aev\_peak: peak ankle eversion during stance (degrees)
28. p\_aev\_peak: index of stance at which peak eversion occurs
29. pant\_peak: max anterior-posterior pelvis angle (degrees)
30. pdrop\_peak: max hike-drop pelvis angle (degrees)
31. prot\_peak: max forward-backward pelvis rotation (degrees)
32. first\_kem\_peak: first knee extension moment (%BWxHeight)
33. kfm\_peak: knee flexion moment (%BWxHeight)
34. second\_kem\_peak: second knee extension moment (%BWxHeight)
35. kam\_first: first peak knee adduction moment (%BWxHeight)
36. kam\_second: second peak knee adduction moment (%BWxHeight)
37. kirot: minimum knee rotation moment (%BWxHeight)
38. kerot: maximum knee rotation moment (%BWxHeight)
39. hfm\_peak: hip flexion moment peak early stance (%BWxHeight)
40. hem\_peak: hip extension moment peak late stance (%BWxHeight)
41. apm\_peak: ankle PF moment peak in late stance (%BWxHeight)
42. adm\_peak: ankle DF moment peak in early stance (%BWxHeight)
43. peak\_ext\_pos\_power: peak hip extension positive power
44. peak\_flex\_pos\_power: peak hip flexion positive power
45. hip\_pos\_power: hip positive power
46. hip\_neg\_power: hip negative power
47. knee\_pos\_power: knee positive power
48. knee\_neg\_power: knee negative power
49. ankle\_pos\_power: ankle positive power
50. ankle\_neg\_power: ankle negative power
51. total\_pos\_power: total positive power
52. total\_neg\_power: total negative power
53. hip\_rel\_pos\_power: hip relative postive power
54. knee\_rel\_pos\_power: knee relative positive power
55. ankle\_rel\_pos\_power: ankle relative positive power
56. hip\_rel\_neg\_power: hip relative negative power
57. knee\_rel\_neg\_power: knee relative negative power
58. ankle\_rel\_neg\_power: ankle relative negative power
59. hip\_pos\_work: hip positive work
60. hip\_neg\_work: hip negative work
61. knee\_pos\_work: knee positive work
62. knee\_neg\_work: knee negative work
63. ankle\_pos\_work: ankle positive work
64. ankle\_neg\_work: ankle negative work
65. total\_pos\_work: total positive work
66. total\_neg\_work: total negative work
67. hip\_rel\_pos\_work: hip relative positive work
68. knee\_rel\_pos\_work: knee relative positive work
69. ankle\_rel\_pos\_work: ankle relative positive work
70. hip\_rel\_neg\_work: hip relative negative work
71. knee\_rel\_neg\_work: knee relative negative work
72. ankle\_rel\_neg\_work: ankle relative negative work
73. peak\_varus: peak knee adduction angle over stance (degrees)
74. p\_stance\_peak\_varus: index of stance at which peak varus occurs
75. aiem\_first: first peak ankle inversion moment (%BWxHeight)
76. aiem\_second: second peak ankle inversion moment (%BWxHeight)
77. aiv\_peak: peak ankle inversion during stance (degrees)
78. p\_aiv\_peak: index of stance at which peak inversion occurs
79. ILR: ILR is the integral of GRF divided by frame rate
80. LLR: LLR is peak GRF divided by time to peak
81. phike\_peak: the peak pelvis hike during stance
82. ppost\_peak: the peak posterior tilt of the pelvis during stance
83. aem\_peak: ankle eversion moment peak during midstance
84. p\_m\_grf: peak medial ground reaction force during stance
85. p\_l\_grf: peak lateral ground reaction force during stance
86. p\_m\_cop: peak medial center of pressure
87. p\_m\_copi: index peak medial center of pressure occurs at
88. p\_l\_cop: peak lateral center of pressure
89. p\_l\_copi: index peak lateral center of pressure occurs at
90. aie\_p\_v: ankle inversion eversion peak velocity in early stance
91. mean\_cal\_mety: mean calcaneus metatarsal inversion eversion angle over stance
92. cal\_mety\_p\_v: Peak frontal plane calcaneus metatarsal velocity in early stance