**Supplementary Material – Results from Mixed Effect Model**

Regions are defined as follows:

$RF\_PP: Hindfoot

$LRF\_PP: Lateral hindfoot

$MRF\_PP: Medial hindfoot

$MF\_PP: Midfoot

$LMF\_PP: Lateral midfoot

$MMF\_PP: Medial midfoot

$LFF\_PP: Lateral forefoot

$MFF\_PP: Medial forefoot

$FF\_PP: Forefoot

$M1\_PP: Distal metatarsal head 1

$M2\_PP: Distal metatarsal head 2

$M3\_PP: Distal metatarsal head 3

$M4\_PP: Distal metatarsal head 4

$M5\_PP: Distal metatarsal head 5

$HLX\_PP: Hallux

$LT\_PP: Lesser toes

**Hypothesis 1: System test**

$FF\_PP

Mixed-Effects Model (k = 22; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 20225.2173 (SE = 7199.9814)

tau (square root of estimated tau^2 value): 142.2154

I^2 (residual heterogeneity / unaccounted variability): 99.07%

H^2 (unaccounted variability / sampling variability): 107.67

R^2 (amount of heterogeneity accounted for): 35.57%

Test for Residual Heterogeneity:

QE(df = 19) = 1909.3917, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 12.2378, p-val = 0.0022

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 529.1770 36.6141 14.4528 <.0001 457.4146 600.9394 \*\*\*

SystemFootScan 58.9210 93.3747 0.6310 0.5280 -124.0901 241.9321

SystemMatScan -355.9946 107.0606 -3.3252 0.0009 -565.8296 -146.1596 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$Mid\_FF\_PP

Mixed-Effects Model (k = 21; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 10865.4809 (SE = 3957.6292)

tau (square root of estimated tau^2 value): 104.2376

I^2 (residual heterogeneity / unaccounted variability): 95.79%

H^2 (unaccounted variability / sampling variability): 23.77

R^2 (amount of heterogeneity accounted for): 1.56%

Test for Residual Heterogeneity:

QE(df = 18) = 285.1371, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 2.7908, p-val = 0.2477

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 402.9358 27.3964 14.7076 <.0001 349.2399 456.6318 \*\*\*

SystemFootScan -106.7569 82.3559 -1.2963 0.1949 -268.1716 54.6577

SystemMatScan -82.0226 67.2457 -1.2197 0.2226 -213.8216 49.7765

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LFF\_PP

Mixed-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 118395.9863 (SE = 29369.4552)

tau (square root of estimated tau^2 value): 344.0872

I^2 (residual heterogeneity / unaccounted variability): 99.93%

H^2 (unaccounted variability / sampling variability): 1472.58

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 33) = 2782.9092, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 0.4400, p-val = 0.8025

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 330.6722 75.4429 4.3831 <.0001 182.8068 478.5377 \*\*\*

SystemFootScan -162.8496 255.3385 -0.6378 0.5236 -663.3040 337.6047

SystemMatScan -36.0523 121.8329 -0.2959 0.7673 -274.8404 202.7358

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MF\_PP

Mixed-Effects Model (k = 53; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 6888.4190 (SE = 1409.9085)

tau (square root of estimated tau^2 value): 82.9965

I^2 (residual heterogeneity / unaccounted variability): 99.49%

H^2 (unaccounted variability / sampling variability): 196.73

R^2 (amount of heterogeneity accounted for): 12.06%

Test for Residual Heterogeneity:

QE(df = 50) = 4622.5271, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 5.8959, p-val = 0.0524

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 127.2145 17.0517 7.4605 <.0001 93.7938 160.6351 \*\*\*

SystemFootScan -66.8077 28.2471 -2.3651 0.0180 -122.1710 -11.4443 \*

SystemMatScan -10.1970 27.7209 -0.3678 0.7130 -64.5289 44.1349

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MMF\_PP

Mixed-Effects Model (k = 23; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 589.4119 (SE = 213.1491)

tau (square root of estimated tau^2 value): 24.2778

I^2 (residual heterogeneity / unaccounted variability): 91.24%

H^2 (unaccounted variability / sampling variability): 11.41

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 21) = 229.1915, p-val < .0001

Test of Moderators (coefficient(s) 2):

QM(df = 1) = 0.9979, p-val = 0.3178

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 94.1277 5.7662 16.3239 <.0001 82.8260 105.4293 \*\*\*

SystemMatScan -19.0204 19.0407 -0.9989 0.3178 -56.3395 18.2987

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LMF\_PP

Mixed-Effects Model (k = 21; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 584.0598 (SE = 235.2852)

tau (square root of estimated tau^2 value): 24.1673

I^2 (residual heterogeneity / unaccounted variability): 90.10%

H^2 (unaccounted variability / sampling variability): 10.10

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 19) = 127.4684, p-val < .0001

Test of Moderators (coefficient(s) 2):

QM(df = 1) = 0.0185, p-val = 0.8917

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 116.9293 6.2834 18.6092 <.0001 104.6140 129.2445 \*\*\*

SystemMatScan -2.6228 19.2598 -0.1362 0.8917 -40.3713 35.1257

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$RF\_PP

Mixed-Effects Model (k = 50; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 104867.5914 (SE = 21767.3762)

tau (square root of estimated tau^2 value): 323.8327

I^2 (residual heterogeneity / unaccounted variability): 99.89%

H^2 (unaccounted variability / sampling variability): 915.08

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 47) = 2432.3037, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 0.0227, p-val = 0.9887

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 340.1547 59.2448 5.7415 <.0001 224.0371 456.2724 \*\*\*

SystemFootScan 18.7549 146.2078 0.1283 0.8979 -267.8071 305.3169

SystemMatScan 11.1392 105.0665 0.1060 0.9156 -194.7873 217.0657

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MRF\_PP

Mixed-Effects Model (k = 29; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 12311.1614 (SE = 3580.0264)

tau (square root of estimated tau^2 value): 110.9557

I^2 (residual heterogeneity / unaccounted variability): 98.67%

H^2 (unaccounted variability / sampling variability): 75.38

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 26) = 1373.3686, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 0.6341, p-val = 0.7283

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 339.5902 26.0752 13.0235 <.0001 288.4838 390.6967 \*\*\*

SystemFootScan -28.2843 48.0255 -0.5889 0.5559 -122.4125 65.8440

SystemMatScan -52.2135 83.0822 -0.6285 0.5297 -215.0516 110.6246

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LRF\_PP

Mixed-Effects Model (k = 32; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 9738.3410 (SE = 2665.8092)

tau (square root of estimated tau^2 value): 98.6830

I^2 (residual heterogeneity / unaccounted variability): 98.50%

H^2 (unaccounted variability / sampling variability): 66.65

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 29) = 1332.6563, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 0.8790, p-val = 0.6444

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 326.3879 21.5259 15.1626 <.0001 284.1979 368.5779 \*\*\*

SystemFootScan -25.9068 41.5510 -0.6235 0.5330 -107.3453 55.5317

SystemMatScan -57.6913 73.3183 -0.7869 0.4314 -201.3926 86.0100

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M1\_PP

Mixed-Effects Model (k = 67; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 28242.4632 (SE = 5148.8821)

tau (square root of estimated tau^2 value): 168.0549

I^2 (residual heterogeneity / unaccounted variability): 99.26%

H^2 (unaccounted variability / sampling variability): 135.55

R^2 (amount of heterogeneity accounted for): 11.27%

Test for Residual Heterogeneity:

QE(df = 64) = 1240.8580, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 8.0664, p-val = 0.0177

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 312.8475 27.0711 11.5565 <.0001 259.7892 365.9058 \*\*\*

SystemFootScan -150.8230 54.3285 -2.7761 0.0055 -257.3050 -44.3410 \*\*

SystemMatScan -68.1135 52.8909 -1.2878 0.1978 -171.7779 35.5508

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M2\_PP

Mixed-Effects Model (k = 50; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 114383.2618 (SE = 23842.6012)

tau (square root of estimated tau^2 value): 338.2059

I^2 (residual heterogeneity / unaccounted variability): 99.82%

H^2 (unaccounted variability / sampling variability): 567.37

R^2 (amount of heterogeneity accounted for): 0.73%

Test for Residual Heterogeneity:

QE(df = 47) = 2279.6274, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 2.3887, p-val = 0.3029

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 445.9609 65.5475 6.8036 <.0001 317.4902 574.4316 \*\*\*

SystemFootScan -175.8414 117.8670 -1.4919 0.1357 -406.8565 55.1737

SystemMatScan -7.6048 121.4524 -0.0626 0.9501 -245.6471 230.4375

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M3\_PP

Mixed-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 9708.7877 (SE = 2561.8501)

tau (square root of estimated tau^2 value): 98.5332

I^2 (residual heterogeneity / unaccounted variability): 96.84%

H^2 (unaccounted variability / sampling variability): 31.69

R^2 (amount of heterogeneity accounted for): 21.83%

Test for Residual Heterogeneity:

QE(df = 33) = 499.0832, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 9.0280, p-val = 0.0110

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 378.5139 21.7460 17.4061 <.0001 335.8925 421.1354 \*\*\*

SystemFootScan -106.3812 35.7632 -2.9746 0.0029 -176.4759 -36.2866 \*\*

SystemMatScan 17.9861 135.8306 0.1324 0.8947 -248.2371 284.2092

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M4\_PP

Mixed-Effects Model (k = 34; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 5726.7759 (SE = 1559.0579)

tau (square root of estimated tau^2 value): 75.6755

I^2 (residual heterogeneity / unaccounted variability): 96.68%

H^2 (unaccounted variability / sampling variability): 30.10

R^2 (amount of heterogeneity accounted for): 24.19%

Test for Residual Heterogeneity:

QE(df = 31) = 377.6274, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 10.1473, p-val = 0.0063

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 271.5221 16.6555 16.3023 <.0001 238.8780 304.1663 \*\*\*

SystemFootScan -86.9781 29.0821 -2.9908 0.0028 -143.9779 -29.9782 \*\*

SystemMatScan -113.5221 78.0915 -1.4537 0.1460 -266.5787 39.5344

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M5\_PP

Mixed-Effects Model (k = 35; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 1972.0768 (SE = 660.0232)

tau (square root of estimated tau^2 value): 44.4081

I^2 (residual heterogeneity / unaccounted variability): 90.46%

H^2 (unaccounted variability / sampling variability): 10.48

R^2 (amount of heterogeneity accounted for): 69.96%

Test for Residual Heterogeneity:

QE(df = 32) = 276.5559, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 61.5264, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 242.2496 11.6435 20.8055 <.0001 219.4287 265.0705 \*\*\*

SystemFootScan -140.6495 18.2583 -7.7033 <.0001 -176.4351 -104.8638 \*\*\*

SystemMatScan 9.6837 45.8478 0.2112 0.8327 -80.1762 99.5437

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$HLX\_PP

Mixed-Effects Model (k = 70; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 35019.1284 (SE = 6244.6167)

tau (square root of estimated tau^2 value): 187.1340

I^2 (residual heterogeneity / unaccounted variability): 99.74%

H^2 (unaccounted variability / sampling variability): 377.52

R^2 (amount of heterogeneity accounted for): 21.24%

Test for Residual Heterogeneity:

QE(df = 67) = 6769.5231, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 17.2434, p-val = 0.0002

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 393.7483 29.8508 13.1905 <.0001 335.2418 452.2549 \*\*\*

SystemFootScan -244.8344 60.1635 -4.0695 <.0001 -362.7527 -126.9161 \*\*\*

SystemMatScan -104.8317 55.9265 -1.8745 0.0609 -214.4456 4.7821 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LT\_PP

Mixed-Effects Model (k = 59; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 10104.2672 (SE = 1969.5270)

tau (square root of estimated tau^2 value): 100.5200

I^2 (residual heterogeneity / unaccounted variability): 99.71%

H^2 (unaccounted variability / sampling variability): 347.44

R^2 (amount of heterogeneity accounted for): 25.49%

Test for Residual Heterogeneity:

QE(df = 56) = 5058.9035, p-val < .0001

Test of Moderators (coefficient(s) 2:3):

QM(df = 2) = 14.8125, p-val = 0.0006

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 183.3014 17.3247 10.5804 <.0001 149.3457 217.2571 \*\*\*

SystemFootScan -132.0131 36.4551 -3.6212 0.0003 -203.4639 -60.5624 \*\*\*

SystemMatScan -70.4300 32.2285 -2.1853 0.0289 -133.5967 -7.2632 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

**Hypothesis 2: Cohort characteristics**

***Emed***

$FF\_PP

Mixed-Effects Model (k = 23; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 16412.5856 (SE = 6171.1412)

tau (square root of estimated tau^2 value): 128.1116

I^2 (residual heterogeneity / unaccounted variability): 95.36%

H^2 (unaccounted variability / sampling variability): 21.56

R^2 (amount of heterogeneity accounted for): 50.79%

Test for Residual Heterogeneity:

QE(df = 17) = 309.9314, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 25.9562, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -154.8637 330.2013 -0.4690 0.6391 -802.0464 492.3189

Cohort\_TypeHEALTHY 47.6686 104.0885 0.4580 0.6470 -156.3411 251.6783

Cohort\_TypeNEUROPATHY 175.8983 111.5874 1.5763 0.1150 -42.8090 394.6057

Age 2.6170 2.9374 0.8909 0.3730 -3.1402 8.3742

BMI 21.4651 11.4561 1.8737 0.0610 -0.9884 43.9187 .

Sex\_Perc -1.4509 1.0410 -1.3937 0.1634 -3.4913 0.5895

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$Mid\_FF\_PP

Mixed-Effects Model (k = 18; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 14284.1330 (SE = 6050.4157)

tau (square root of estimated tau^2 value): 119.5162

I^2 (residual heterogeneity / unaccounted variability): 96.43%

H^2 (unaccounted variability / sampling variability): 28.00

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 13) = 215.0829, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 4.0652, p-val = 0.3973

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 312.3873 297.2410 1.0510 0.2933 -270.1945 894.9691

Cohort\_TypeHEALTHY -189.1146 111.6966 -1.6931 0.0904 -408.0360 29.8068 .

Age -5.7523 4.2644 -1.3489 0.1774 -14.1103 2.6058

BMI 15.8132 12.0045 1.3173 0.1877 -7.7152 39.3415

Sex\_Perc 1.6002 1.4738 1.0858 0.2776 -1.2884 4.4887

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LFF\_PP

Mixed-Effects Model (k = 25; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 8034.4483 (SE = 2973.2582)

tau (square root of estimated tau^2 value): 89.6351

I^2 (residual heterogeneity / unaccounted variability): 95.36%

H^2 (unaccounted variability / sampling variability): 21.53

R^2 (amount of heterogeneity accounted for): 18.72%

Test for Residual Heterogeneity:

QE(df = 19) = 286.9878, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 11.7928, p-val = 0.0377

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 55.5872 247.6392 0.2245 0.8224 -429.7768 540.9512

Cohort\_TypeHEALTHY 35.8283 103.2345 0.3471 0.7285 -166.5076 238.1641

Cohort\_TypeNEUROPATHY 126.2918 110.0578 1.1475 0.2512 -89.4175 342.0011

Age -0.5010 2.0100 -0.2493 0.8031 -4.4405 3.4384

BMI 12.1525 8.7365 1.3910 0.1642 -4.9707 29.2757

Sex\_Perc -1.0650 0.7798 -1.3658 0.1720 -2.5933 0.4633

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MF\_PP

Mixed-Effects Model (k = 26; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 299.9067 (SE = 121.7657)

tau (square root of estimated tau^2 value): 17.3178

I^2 (residual heterogeneity / unaccounted variability): 82.85%

H^2 (unaccounted variability / sampling variability): 5.83

R^2 (amount of heterogeneity accounted for): 58.36%

Test for Residual Heterogeneity:

QE(df = 20) = 119.8446, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 32.8033, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -31.0855 40.3755 -0.7699 0.4414 -110.2201 48.0490

Cohort\_TypeHEALTHY -16.3038 14.7211 -1.1075 0.2681 -45.1566 12.5490

Cohort\_TypeNEUROPATHY -15.0942 17.8816 -0.8441 0.3986 -50.1415 19.9531

Age 0.6123 0.3388 1.8075 0.0707 -0.0516 1.2763 .

BMI 5.0189 1.3533 3.7086 0.0002 2.3664 7.6713 \*\*\*

Sex\_Perc 0.0946 0.1550 0.6103 0.5417 -0.2092 0.3983

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MMF\_PP

Mixed-Effects Model (k = 23; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 154.3044 (SE = 84.8913)

tau (square root of estimated tau^2 value): 12.4219

I^2 (residual heterogeneity / unaccounted variability): 69.23%

H^2 (unaccounted variability / sampling variability): 3.25

R^2 (amount of heterogeneity accounted for): 74.77%

Test for Residual Heterogeneity:

QE(df = 17) = 60.3095, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 44.9804, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -34.0676 34.5467 -0.9861 0.3241 -101.7779 33.6427

Cohort\_TypeHEALTHY -28.6020 24.7168 -1.1572 0.2472 -77.0461 19.8420

Cohort\_TypeNEUROPATHY 0.7290 27.7534 0.0263 0.9790 -53.6667 55.1246

Age -1.0824 0.3919 -2.7619 0.0057 -1.8504 -0.3143 \*\*

BMI 6.6580 1.0885 6.1169 <.0001 4.5247 8.7914 \*\*\*

Sex\_Perc 0.4106 0.1299 3.1605 0.0016 0.1560 0.6652 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LMF\_PP

Mixed-Effects Model (k = 21; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 88.9372 (SE = 66.5225)

tau (square root of estimated tau^2 value): 9.4307

I^2 (residual heterogeneity / unaccounted variability): 56.30%

H^2 (unaccounted variability / sampling variability): 2.29

R^2 (amount of heterogeneity accounted for): 89.06%

Test for Residual Heterogeneity:

QE(df = 15) = 39.1153, p-val = 0.0006

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 68.8250, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -21.9175 34.1027 -0.6427 0.5204 -88.7575 44.9226

Cohort\_TypeHEALTHY -41.0282 21.5296 -1.9057 0.0567 -83.2255 1.1690 .

Cohort\_TypeNEUROPATHY -5.4616 22.4173 -0.2436 0.8075 -49.3986 38.4754

Age -0.7370 0.3502 -2.1047 0.0353 -1.4233 -0.0507 \*

BMI 7.5000 1.1181 6.7075 <.0001 5.3084 9.6915 \*\*\*

Sex\_Perc 0.2249 0.1151 1.9545 0.0506 -0.0006 0.4505 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$RF\_PP

Mixed-Effects Model (k = 38; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 5129.3735 (SE = 1416.3687)

tau (square root of estimated tau^2 value): 71.6196

I^2 (residual heterogeneity / unaccounted variability): 95.93%

H^2 (unaccounted variability / sampling variability): 24.58

R^2 (amount of heterogeneity accounted for): 29.41%

Test for Residual Heterogeneity:

QE(df = 32) = 913.9197, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 21.0836, p-val = 0.0008

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 453.3907 123.0038 3.6860 0.0002 212.3077 694.4737 \*\*\*

Cohort\_TypeHEALTHY -22.0521 47.0426 -0.4688 0.6392 -114.2539 70.1498

Cohort\_TypeNEUROPATHY 58.5428 50.6015 1.1569 0.2473 -40.6343 157.7200

Age 0.8474 1.0475 0.8089 0.4186 -1.2058 2.9005

BMI -2.5464 4.1435 -0.6146 0.5388 -10.6674 5.5746

Sex\_Perc -1.4742 0.4464 -3.3025 0.0010 -2.3492 -0.5993 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MRF\_PP

Mixed-Effects Model (k = 21; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 3016.5965 (SE = 1319.0917)

tau (square root of estimated tau^2 value): 54.9236

I^2 (residual heterogeneity / unaccounted variability): 91.78%

H^2 (unaccounted variability / sampling variability): 12.16

R^2 (amount of heterogeneity accounted for): 11.98%

Test for Residual Heterogeneity:

QE(df = 15) = 125.9846, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 6.9966, p-val = 0.2209

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 458.3002 123.0606 3.7242 0.0002 217.1058 699.4945 \*\*\*

Cohort\_TypeHEALTHY -83.8081 77.2291 -1.0852 0.2778 -235.1744 67.5582

Cohort\_TypeNEUROPATHY -104.5280 87.6759 -1.1922 0.2332 -276.3695 67.3135

Age 1.7246 1.4023 1.2298 0.2188 -1.0239 4.4731

BMI -1.7116 4.1861 -0.4089 0.6826 -9.9162 6.4930

Sex\_Perc -1.0453 0.5019 -2.0827 0.0373 -2.0291 -0.0616 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LRF\_PP

Mixed-Effects Model (k = 24; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 1963.3630 (SE = 794.3378)

tau (square root of estimated tau^2 value): 44.3099

I^2 (residual heterogeneity / unaccounted variability): 89.86%

H^2 (unaccounted variability / sampling variability): 9.86

R^2 (amount of heterogeneity accounted for): 24.44%

Test for Residual Heterogeneity:

QE(df = 18) = 131.3106, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 11.5082, p-val = 0.0422

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 524.1587 104.6761 5.0074 <.0001 318.9973 729.3200 \*\*\*

Cohort\_TypeHEALTHY -123.0083 72.2605 -1.7023 0.0887 -264.6363 18.6196 .

Cohort\_TypeNEUROPATHY -162.5840 79.2822 -2.0507 0.0403 -317.9743 -7.1938 \*

Age 2.1546 1.0693 2.0151 0.0439 0.0589 4.2504 \*

BMI -3.9090 3.2080 -1.2185 0.2230 -10.1966 2.3787

Sex\_Perc -0.9998 0.3977 -2.5139 0.0119 -1.7793 -0.2203 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M1\_PP

Mixed-Effects Model (k = 47; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 2230.4233 (SE = 717.5933)

tau (square root of estimated tau^2 value): 47.2274

I^2 (residual heterogeneity / unaccounted variability): 75.98%

H^2 (unaccounted variability / sampling variability): 4.16

R^2 (amount of heterogeneity accounted for): 65.00%

Test for Residual Heterogeneity:

QE(df = 41) = 151.3782, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 59.1842, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 90.0501 88.9183 1.0127 0.3112 -84.2265 264.3268

Cohort\_TypeHEALTHY 19.3471 37.5863 0.5147 0.6067 -54.3207 93.0149

Cohort\_TypeNEUROPATHY 111.7693 43.7698 2.5536 0.0107 25.9821 197.5565 \*

Age 2.1153 0.5770 3.6662 0.0002 0.9845 3.2462 \*\*\*

BMI 4.4604 2.9303 1.5222 0.1280 -1.2828 10.2037

Sex\_Perc -0.2019 0.3347 -0.6033 0.5463 -0.8579 0.4541

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M2\_PP

Mixed-Effects Model (k = 32; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 2505.9977 (SE = 1030.6961)

tau (square root of estimated tau^2 value): 50.0599

I^2 (residual heterogeneity / unaccounted variability): 74.78%

H^2 (unaccounted variability / sampling variability): 3.97

R^2 (amount of heterogeneity accounted for): 58.60%

Test for Residual Heterogeneity:

QE(df = 26) = 89.6732, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 30.2871, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 215.2837 110.9582 1.9402 0.0524 -2.1903 432.7577 .

Cohort\_TypeHEALTHY 25.0032 38.9390 0.6421 0.5208 -51.3158 101.3223

Cohort\_TypeNEUROPATHY 16.3553 45.8236 0.3569 0.7212 -73.4574 106.1680

Age 0.8550 0.8818 0.9696 0.3322 -0.8733 2.5834

BMI 8.9193 3.9208 2.2749 0.0229 1.2346 16.6039 \*

Sex\_Perc -1.5503 0.5760 -2.6913 0.0071 -2.6793 -0.4213 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M3\_PP

Mixed-Effects Model (k = 25; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 663.4230 (SE = 391.8340)

tau (square root of estimated tau^2 value): 25.7570

I^2 (residual heterogeneity / unaccounted variability): 56.79%

H^2 (unaccounted variability / sampling variability): 2.31

R^2 (amount of heterogeneity accounted for): 60.83%

Test for Residual Heterogeneity:

QE(df = 19) = 49.3180, p-val = 0.0002

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 21.8584, p-val = 0.0006

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 215.3471 71.0476 3.0310 0.0024 76.0962 354.5979 \*\*

Cohort\_TypeHEALTHY -20.6677 27.4259 -0.7536 0.4511 -74.4215 33.0861

Cohort\_TypeNEUROPATHY -17.6473 31.1118 -0.5672 0.5706 -78.6253 43.3306

Age 1.2740 0.5938 2.1456 0.0319 0.1102 2.4377 \*

BMI 4.7205 2.6138 1.8059 0.0709 -0.4026 9.8435 .

Sex\_Perc -0.2035 0.4987 -0.4081 0.6832 -1.1810 0.7740

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M4\_PP

Mixed-Effects Model (k = 26; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 65.6428)

tau (square root of estimated tau^2 value): 0.0018

I^2 (residual heterogeneity / unaccounted variability): 0.00%

H^2 (unaccounted variability / sampling variability): 1.00

R^2 (amount of heterogeneity accounted for): 100.00%

Test for Residual Heterogeneity:

QE(df = 20) = 21.5239, p-val = 0.3669

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 35.5743, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 173.6379 28.6967 6.0508 <.0001 117.3934 229.8823 \*\*\*

Cohort\_TypeHEALTHY -3.9248 10.3049 -0.3809 0.7033 -24.1219 16.2724

Cohort\_TypeNEUROPATHY 30.5645 13.8101 2.2132 0.0269 3.4972 57.6318 \*

Age -0.0201 0.2293 -0.0876 0.9302 -0.4695 0.4293

BMI 3.2847 1.0261 3.2010 0.0014 1.2735 5.2959 \*\*

Sex\_Perc 0.1684 0.2139 0.7871 0.4312 -0.2509 0.5877

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M5\_PP

Mixed-Effects Model (k = 25; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 1017.7197 (SE = 593.6424)

tau (square root of estimated tau^2 value): 31.9017

I^2 (residual heterogeneity / unaccounted variability): 57.33%

H^2 (unaccounted variability / sampling variability): 2.34

R^2 (amount of heterogeneity accounted for): 22.21%

Test for Residual Heterogeneity:

QE(df = 19) = 44.7694, p-val = 0.0007

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 10.2773, p-val = 0.0677

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 82.9345 79.9399 1.0375 0.2995 -73.7447 239.6138

Cohort\_TypeHEALTHY 33.0858 29.7310 1.1128 0.2658 -25.1858 91.3574

Cohort\_TypeNEUROPATHY 61.1549 35.2809 1.7334 0.0830 -7.9943 130.3042 .

Age 1.1698 0.6679 1.7514 0.0799 -0.1393 2.4788 .

BMI 1.5964 2.9431 0.5424 0.5875 -4.1719 7.3648

Sex\_Perc 0.4994 0.5969 0.8366 0.4028 -0.6705 1.6692

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$HLX\_PP

Mixed-Effects Model (k = 49; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 4133.9838 (SE = 1154.5813)

tau (square root of estimated tau^2 value): 64.2961

I^2 (residual heterogeneity / unaccounted variability): 83.14%

H^2 (unaccounted variability / sampling variability): 5.93

R^2 (amount of heterogeneity accounted for): 20.32%

Test for Residual Heterogeneity:

QE(df = 43) = 239.3790, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 13.2149, p-val = 0.0214

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 155.1860 103.9265 1.4932 0.1354 -48.5062 358.8781

Cohort\_TypeHEALTHY 48.7938 39.9642 1.2209 0.2221 -29.5347 127.1223

Cohort\_TypeNEUROPATHY 112.5196 48.4655 2.3216 0.0203 17.5290 207.5103 \*

Age 0.0361 0.7206 0.0500 0.9601 -1.3763 1.4484

BMI 5.2142 3.5813 1.4559 0.1454 -1.8051 12.2335

Sex\_Perc 0.8561 0.3865 2.2147 0.0268 0.0985 1.6137 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LT\_PP

Mixed-Effects Model (k = 40; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 1475.4512 (SE = 444.2281)

tau (square root of estimated tau^2 value): 38.4116

I^2 (residual heterogeneity / unaccounted variability): 85.62%

H^2 (unaccounted variability / sampling variability): 6.96

R^2 (amount of heterogeneity accounted for): 10.16%

Test for Residual Heterogeneity:

QE(df = 34) = 253.3426, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 7.8044, p-val = 0.1674

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 77.3756 61.0925 1.2665 0.2053 -42.3635 197.1147

Cohort\_TypeHEALTHY 42.9739 26.6710 1.6113 0.1071 -9.3003 95.2482

Cohort\_TypeNEUROPATHY 8.4799 33.9248 0.2500 0.8026 -58.0115 74.9714

Age 0.7547 0.4526 1.6675 0.0954 -0.1324 1.6418 .

BMI 1.4475 2.0250 0.7148 0.4747 -2.5213 5.4164

Sex\_Perc -0.2865 0.2579 -1.1108 0.2667 -0.7919 0.2190

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

***Footscan***

$MF\_PP

Mixed-Effects Model (k = 14; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 3032.1224 (SE = 1621.4732)

tau (square root of estimated tau^2 value): 55.0647

I^2 (residual heterogeneity / unaccounted variability): 98.73%

H^2 (unaccounted variability / sampling variability): 78.98

R^2 (amount of heterogeneity accounted for): 76.49%

Test for Residual Heterogeneity:

QE(df = 8) = 254.0686, p-val < .0001

Test of Moderators (coefficient(s) 2:6):

QM(df = 5) = 38.5965, p-val < .0001

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -295.6739 190.4364 -1.5526 0.1205 -668.9224 77.5745

Cohort\_TypeHEALTHY -66.8054 53.4026 -1.2510 0.2109 -171.4725 37.8617

Cohort\_TypeNEUROPATHY 181.8797 86.8080 2.0952 0.0362 11.7392 352.0202 \*

Age -5.5572 2.3605 -2.3542 0.0186 -10.1837 -0.9307 \*

BMI 27.8896 9.5751 2.9127 0.0036 9.1227 46.6564 \*\*

Sex\_Perc -0.4746 0.4386 -1.0821 0.2792 -1.3343 0.3850

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$MRF\_PP

Mixed-Effects Model (k = 9; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 49207.8151 (SE = 35375.1594)

tau (square root of estimated tau^2 value): 221.8283

I^2 (residual heterogeneity / unaccounted variability): 99.69%

H^2 (unaccounted variability / sampling variability): 317.91

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 4) = 650.2571, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 2.0266, p-val = 0.7309

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 754.6628 976.3011 0.7730 0.4395 -1158.8522 2668.1779

Cohort\_TypeHEALTHY 295.8558 308.2832 0.9597 0.3372 -308.3682 900.0798

Age 6.6563 14.1857 0.4692 0.6389 -21.1471 34.4597

BMI -36.4050 62.8467 -0.5793 0.5624 -159.5823 86.7722

Sex\_Perc -1.9296 2.1477 -0.8985 0.3689 -6.1391 2.2798

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LRF\_PP

Mixed-Effects Model (k = 9; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 41535.8478 (SE = 29648.9247)

tau (square root of estimated tau^2 value): 203.8035

I^2 (residual heterogeneity / unaccounted variability): 99.70%

H^2 (unaccounted variability / sampling variability): 328.10

R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:

QE(df = 4) = 592.0579, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 2.2700, p-val = 0.6862

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt 858.2440 895.3966 0.9585 0.3378 -896.7012 2613.1891

Cohort\_TypeHEALTHY 308.7586 282.7114 1.0921 0.2748 -245.3456 862.8628

Age 8.7111 12.9237 0.6740 0.5003 -16.6189 34.0411

BMI -45.4853 57.4352 -0.7919 0.4284 -158.0564 67.0857

Sex\_Perc -1.7395 1.9722 -0.8820 0.3778 -5.6050 2.1260

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M1\_PP

Mixed-Effects Model (k = 11; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 3712.8186 (SE = 2311.3815)

tau (square root of estimated tau^2 value): 60.9329

I^2 (residual heterogeneity / unaccounted variability): 96.05%

H^2 (unaccounted variability / sampling variability): 25.31

R^2 (amount of heterogeneity accounted for): 39.36%

Test for Residual Heterogeneity:

QE(df = 6) = 105.2751, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 10.2086, p-val = 0.0371

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -465.5264 268.6938 -1.7326 0.0832 -992.1565 61.1036 .

Cohort\_TypeHEALTHY 15.9709 83.3011 0.1917 0.8480 -147.2964 179.2381

Age -7.8603 3.8687 -2.0318 0.0422 -15.4428 -0.2779 \*

BMI 39.7232 17.2179 2.3071 0.0211 5.9766 73.4697 \*

Sex\_Perc -0.6898 0.5054 -1.3649 0.1723 -1.6805 0.3008

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M2\_PP

Mixed-Effects Model (k = 10; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 11826.8602 (SE = 7961.0593)

tau (square root of estimated tau^2 value): 108.7514

I^2 (residual heterogeneity / unaccounted variability): 97.75%

H^2 (unaccounted variability / sampling variability): 44.53

R^2 (amount of heterogeneity accounted for): 39.04%

Test for Residual Heterogeneity:

QE(df = 5) = 172.9219, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 9.6075, p-val = 0.0476

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -470.1161 481.4249 -0.9765 0.3288 -1413.6916 473.4595

Cohort\_TypeHEALTHY 11.2841 151.4896 0.0745 0.9406 -285.6300 308.1982

Age -12.1978 6.8709 -1.7753 0.0759 -25.6646 1.2689 .

BMI 55.5100 30.9653 1.7927 0.0730 -5.1809 116.2009 .

Sex\_Perc -1.8996 1.0651 -1.7835 0.0745 -3.9871 0.1880 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M3\_PP

Mixed-Effects Model (k = 11; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 19273.9057 (SE = 11585.1448)

tau (square root of estimated tau^2 value): 138.8305

I^2 (residual heterogeneity / unaccounted variability): 98.86%

H^2 (unaccounted variability / sampling variability): 87.97

R^2 (amount of heterogeneity accounted for): 20.15%

Test for Residual Heterogeneity:

QE(df = 6) = 276.0393, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 6.6745, p-val = 0.1541

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -276.0670 608.6449 -0.4536 0.6501 -1468.9892 916.8551

Cohort\_TypeHEALTHY 58.1709 193.7856 0.3002 0.7640 -321.6419 437.9837

Age -8.0121 8.8241 -0.9080 0.3639 -25.3071 9.2828

BMI 40.7635 39.3763 1.0352 0.3006 -36.4127 117.9397

Sex\_Perc -2.6673 1.3439 -1.9848 0.0472 -5.3012 -0.0333 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M4\_PP

Mixed-Effects Model (k = 9; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 20078.2724 (SE = 14593.9906)

tau (square root of estimated tau^2 value): 141.6978

I^2 (residual heterogeneity / unaccounted variability): 99.26%

H^2 (unaccounted variability / sampling variability): 135.98

R^2 (amount of heterogeneity accounted for): 0.16%

Test for Residual Heterogeneity:

QE(df = 4) = 142.0103, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 4.1762, p-val = 0.3827

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -203.0437 626.6687 -0.3240 0.7459 -1431.2919 1025.2045

Cohort\_TypeHEALTHY 91.0843 197.7340 0.4606 0.6451 -296.4672 478.6358

Age -2.9983 9.1322 -0.3283 0.7427 -20.8971 14.9006

BMI 24.3828 40.4306 0.6031 0.5465 -54.8597 103.6253

Sex\_Perc -2.4330 1.3786 -1.7648 0.0776 -5.1351 0.2690 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$M5\_PP

Mixed-Effects Model (k = 10; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 2783.0567 (SE = 2102.9898)

tau (square root of estimated tau^2 value): 52.7547

I^2 (residual heterogeneity / unaccounted variability): 95.47%

H^2 (unaccounted variability / sampling variability): 22.06

R^2 (amount of heterogeneity accounted for): 16.60%

Test for Residual Heterogeneity:

QE(df = 5) = 38.8489, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 6.3559, p-val = 0.1741

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -173.8885 242.4446 -0.7172 0.4732 -649.0711 301.2941

Cohort\_TypeHEALTHY 37.9237 75.7655 0.5005 0.6167 -110.5739 186.4214

Age -2.7355 3.6385 -0.7518 0.4522 -9.8669 4.3959

BMI 17.5489 16.0761 1.0916 0.2750 -13.9597 49.0575

Sex\_Perc -1.0620 0.5337 -1.9896 0.0466 -2.1081 -0.0158 \*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$HLX\_PP

Mixed-Effects Model (k = 11; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 3602.7521 (SE = 2331.0972)

tau (square root of estimated tau^2 value): 60.0229

I^2 (residual heterogeneity / unaccounted variability): 95.84%

H^2 (unaccounted variability / sampling variability): 24.06

R^2 (amount of heterogeneity accounted for): 54.66%

Test for Residual Heterogeneity:

QE(df = 6) = 91.4530, p-val < .0001

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 14.9266, p-val = 0.0049

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -666.2613 396.0246 -1.6824 0.0925 -1442.4553 109.9327 .

Cohort\_TypeHEALTHY -69.8459 100.4389 -0.6954 0.4868 -266.7025 127.0107

Age -14.6569 5.8352 -2.5118 0.0120 -26.0936 -3.2201 \*

BMI 62.5345 27.3278 2.2883 0.0221 8.9730 116.0960 \*

Sex\_Perc -0.8046 0.4882 -1.6479 0.0994 -1.7615 0.1524 .

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

$LT\_PP

Mixed-Effects Model (k = 8; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 241.1228 (SE = 260.1536)

tau (square root of estimated tau^2 value): 15.5281

I^2 (residual heterogeneity / unaccounted variability): 86.97%

H^2 (unaccounted variability / sampling variability): 7.68

R^2 (amount of heterogeneity accounted for): 72.97%

Test for Residual Heterogeneity:

QE(df = 3) = 17.7342, p-val = 0.0005

Test of Moderators (coefficient(s) 2:5):

QM(df = 4) = 18.5937, p-val = 0.0009

Model Results:

estimate se zval pval ci.lb ci.ub

intrcpt -366.4974 140.9080 -2.6010 0.0093 -642.6721 -90.3227 \*\*

Cohort\_TypeHEALTHY -17.5509 34.2868 -0.5119 0.6087 -84.7517 49.6499

Age -5.1336 2.2080 -2.3250 0.0201 -9.4612 -0.8060 \*

BMI 26.6735 10.1881 2.6181 0.0088 6.7051 46.6419 \*\*

Sex\_Perc -0.3042 0.1613 -1.8857 0.0593 -0.6203 0.0120 .

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1