**Supplemental Material**

Supplemental Table 1. Correlation of baseline RDW with circulation proteins and hemoglobin

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| **Biomarker** | **Rho** | **P-value** |
| hgb | -0.31 | <0.001 |
| trailr2 | 0.26 | <0.001 |
| fgf23 | 0.24 | <0.001 |
| tnfrsf11a | 0.23 | <0.001 |
| tnfrsf10a | 0.22 | <0.001 |
| gal9 | 0.22 | <0.001 |
| spon2 | 0.22 | <0.001 |
| bnp | 0.22 | <0.001 |
| cd4 | 0.22 | <0.001 |
| adm | 0.2 | <0.001 |
| il4ra | 0.19 | <0.001 |
| mmp12 | 0.19 | <0.001 |
| tnfrsf13b | 0.18 | <0.001 |
| egfr | -0.17 | <0.001 |
| tni | 0.17 | <0.001 |
| il6 | 0.17 | <0.001 |
| dcn | 0.17 | <0.001 |
| pdl2 | 0.17 | <0.001 |
| pgf | 0.16 | <0.001 |
| ambp | 0.16 | <0.001 |
| prelp | 0.16 | <0.001 |
| il17d | 0.15 | <0.001 |
| rage | 0.15 | <0.001 |
| kim1 | 0.15 | <0.001 |
| age | 0.14 | <0.001 |
| il27 | 0.14 | <0.001 |
| vsig2 | 0.14 | <0.001 |
| par1 | 0.13 | <0.001 |
| tf | 0.13 | <0.001 |
| tm | 0.13 | <0.001 |
| ccl3 | 0.13 | <0.001 |
| lpl | 0.13 | <0.001 |
| agrp | 0.13 | <0.001 |
| slamf7 | 0.12 | <0.001 |
| hoscar | 0.12 | <0.001 |
| vegfd | 0.12 | <0.001 |
| gh | 0.11 | <0.001 |
| il16 | 0.11 | <0.001 |
| lep | 0.11 | <0.001 |
| sex | 0.1 | <0.001 |
| d\_diadur | 0.1 | <0.001 |
| xcl1 | 0.1 | <0.001 |
| vgt | 0.1 | <0.001 |
| crp | 0.1 | <0.001 |
| fgf21 | 0.09 | <0.001 |
| prss8 | 0.09 | <0.001 |
| fabp2 | 0.09 | <0.001 |
| ctsl1 | 0.09 | <0.001 |
| af\_hx | 0.08 | <0.001 |
| bmp6 | 0.08 | <0.001 |
| adamts13 | -0.08 | <0.001 |
| prss27 | 0.08 | <0.001 |
| thbs2 | 0.08 | <0.001 |
| sort1 | 0.08 | <0.001 |
| mmp7 | 0.08 | <0.001 |
| marco | 0.08 | <0.001 |
| haox1 | -0.08 | <0.001 |
| race | 0.07 | <0.001 |
| pigr | 0.07 | <0.001 |
| mertk | 0.07 | <0.001 |
| dkk1 | 0.07 | <0.001 |
| hba1c | -0.06 | <0.001 |
| hr | 0.06 | <0.001 |
| gif | -0.06 | <0.001 |
| psgl1 | -0.06 | <0.001 |
| thpo | 0.06 | <0.001 |
| stroke\_hx | 0.06 | 0.0001 |
| boc | 0.05 | 0.0001 |
| idua | 0.05 | 0.0001 |
| fs | 0.05 | 0.0001 |
| ptx3 | 0.05 | 0.0001 |
| bmi | -0.05 | 0.0002 |
| hsp27 | 0.05 | 0.0003 |
| il1ra | 0.05 | 0.0007 |
| cd84 | 0.05 | 0.0007 |
| iggfcreceptoriib | 0.05 | 0.0009 |
| scf | 0.05 | 0.0012 |
| nemo | 0.04 | 0.004 |
| parp1 | 0.04 | 0.0055 |
| ceacam8 | 0.04 | 0.009 |
| il18 | 0.04 | 0.0095 |
| ctrc | -0.03 | 0.0142 |
| ht\_hx | 0.03 | 0.0153 |
| tgm2 | -0.03 | 0.0154 |
| ca5a | 0.03 | 0.0155 |
| ccl17 | 0.03 | 0.0243 |
| gdf2 | 0.03 | 0.0452 |
| cd40l | 0.03 | 0.047 |
| ho1 | -0.03 | 0.0476 |
| lox1 | 0.03 | 0.0528 |
| itgb1bp2 | 0.03 | 0.0576 |
| cxcl1 | 0.02 | 0.0743 |
| ren | 0.02 | 0.1003 |
| hbegf | 0.02 | 0.1182 |
| glo1 | -0.02 | 0.1297 |
| decr1 | 0.02 | 0.144 |
| serpina12 | 0.02 | 0.1858 |
| ang1 | 0.02 | 0.1932 |
| src | 0.02 | 0.2077 |
| stk4 | 0.01 | 0.3354 |
| pappa | -0.01 | 0.5124 |
| pdgfsubunitb | 0.01 | 0.5357 |
| sod2 | 0.01 | 0.5593 |
| il1rl2 | 0.01 | 0.5738 |
| sbp | 0.01 | 0.6651 |
| tie2 | -0.01 | 0.6847 |
| mi | 0 | 0.8437 |
| ace2 | 0 | 0.9585 |