**ESM Table 1** The age-adjusted associations of the individual SNPs in the type 2 diabetes PRS with gestational diabetes and glycaemic abnormalities 12 months postpartum in the RADIEL sample.

| | | | Gestational diabetes | | | | Glycaemic abnormalities 12 months postpartum | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Gene | SNP | A1 | *B* | *p* | OR (95% CI) | int × SNP *p* | *B* | *p* | OR (95% CI) | int × SNP *p* |
| *WFS1* | rs10010131 | A | 0.08 | 0.544 | 1.09 (0.83, 1.43) | 0.165 | -0.19 | 0.400 | 0.82 (0.53, 1.29) | 0.540 |
| *CILP2* | rs10401969 | C | 0.16 | 0.544 | 1.18 (0.69, 2.00) | 0.170 | -0.43 | 0.368 | 0.65 (0.25, 1.67) | 0.330 |
| *CDKNA2B* | rs10811661 | C | -0.27 | 0.178 | 0.77 (0.52, 1.13) | 0.038 | 0.20 | 0.510 | 1.22 (0.68, 2.17) | 0.920 |
| *KLHDC5* | rs10842994 | T | -0.01 | 0.938 | 0.99 (0.71, 1.38) | 0.624 | 0.20 | 0.460 | 1.22 (0.72, 2.04) | 0.630 |
| *NOTCH2* | rs10923931 | T | -0.05 | 0.796 | 0.95 (0.63, 1.43) | 0.708 | -0.22 | 0.542 | 0.80 (0.40, 1.63) | 0.123 |
| *HHEX* | rs1111875 | T | -0.12 | 0.345 | 0.89 (0.69, 1.14) | 0.052 | 0.12 | 0.568 | 1.13 (0.74, 1.73) | 0.630 |
| *HNF1A* | rs1169288 | C | -0.03 | 0.854 | 0.97 (0.73, 1.30) | 0.578 | -0.10 | 0.675 | 0.90 (0.55, 1.47) | 0.425 |
| *ADCY5* | rs11708067 | G | 0.12 | 0.437 | 1.13 (0.83, 1.55) | 0.583 | -0.68 | 0.036 | 0.51 (0.27,0.96) | 0.222 |
| *TCF7L2* | rs12255372 | T | -0.08 | 0.609 | 0.92 (0.67, 1.27) | 0.097 | 0.20 | 0.428 | 1.22 (0.75, 2.00) | 0.805 |
| *COBLL1* | rs12328675 | C | -0.53 | 0.017 | 0.59 (0.38,0.91) | 0.110 | 0.27 | 0.400 | 1.31 (0.70, 2.47) | 0.630 |
| *CDC123CAMK1D* | rs12779790 | G | -0.00 | 0.979 | 1.00 (0.74, 1.35) | 0.825 | 0.03 | 0.904 | 1.03 (0.63, 1.68) | 0.156 |
| *MC4R* | rs12970134 | A | 0.12 | 0.445 | 1.13 (0.83, 1.54) | 0.197 | -0.13 | 0.643 | 0.88 (0.52, 1.50) | 0.919 |
| *SLC30A8* | rs13266634 | T | -0.14 | 0.314 | 0.87 (0.66, 1.15) | 0.267 | -0.09 | 0.721 | 0.92 (0.58, 1.47) | 0.806 |
| *TLE4CHCHD9* | rs13292136 | T | 0.05 | 0.793 | 1.05 (0.72, 1.54) | 0.907 | 0.13 | 0.659 | 1.14 (0.64, 2.03) | 0.515 |
| *GRB14* | rs13389219 | T | -0.03 | 0.839 | 0.97 (0.74, 1.27) | 0.217 | -0.18 | 0.419 | 0.83 (0.53, 1.30) | 0.289 |
| *CENTD2* | rs1552224 | C | -0.17 | 0.285 | 0.85 (0.62, 1.15) | 0.174 | 0.12 | 0.612 | 1.13 (0.70, 1.82) | 0.270 |
| | rs2191349 | G | 0.00 | 0.973 | 1.00 (0.78, 1.30) | 0.325 | -0.11 | 0.598 | 0.89 (0.59, 1.36) | 0.680 |
| *GIP* | rs2291725 | T | -0.17 | 0.179 | 0.84 (0.66, 1.08) | 0.854 | -0.44 | 0.039 | 0.65 (0.43, 0.98) | 0.736 |
| *BCL11A* | rs243021 | A | 0.17 | 0.192 | 1.18 (0.92, 1.52) | 0.896 | -0.12 | 0.590 | 0.89 (0.58, 1.37) | 0.649 |
| *TLE1* | rs2796441 | A | 0.02 | 0.889 | 1.02 (0.78, 1.33) | 0.130 | -0.03 | 0.913 | 0.98 (0.63, 1.52) | 0.226 |
| *CMIP* | rs2925979 | T | 0.03 | 0.821 | 1.03 (0.79, 1.35) | 0.445 | 0.19 | 0.401 | 1.21 (0.78, 1.88) | 0.915 |
| *IRS1* | rs2972146 | G | -0.19 | 0.472 | 0.91 (0.69, 1.19) | 0.612 | -0.48 | 0.056 | 0.62 (0.38, 1.01) | 0.436 |
| *PROX1* | rs340874 | T | -0.29 | 0.027 | 0.75 (0.58, 0.97) | 0.256 | -0.22 | 0.292 | 0.80 (0.53, 1.21) | 0.799 |
| | rs4402960 | T | 0.30 | 0.028 | 1.34 (1.03, 1.75) | 0.121 | 0.15 | 0.464 | 1.17 (0.77, 1.76) | 0.113 |
| *ZBED3* | rs4457053 | G | -0.12 | 0.445 | 0.89 (0.66, 1.20) | 0.642 | 0.32 | 0.181 | 1.37 (0.86, 2.18) | 0.267 |
| *VPS13C* | rs4502156 | C | -0.05 | 0.685 | 0.95 (0.74, 1.22) | 0.903 | 0.17 | 0.454 | 1.18 (0.77, 1.81) | 0.902 |
| *ANKRD55* | rs459193 | A | -0.22 | 0.122 | 0.81 (0.61, 1.06) | 0.523 | -0.24 | 0.303 | 0.79 (0.50, 1.24) | 0.656 |
| *GCK* | rs4607517 | A | 0.26 | 0.203 | 1.30 (0.87, 1.94) | 0.759 | -0.00 | 0.993 | 1.00 (0.54, 1.84) | 0.361 |
| *PABPC4* | rs4660293 | G | -0.05 | 0.739 | 0.95 (0.70, 1.28) | 0.608 | 0.07 | 0.793 | 1.07 (0.65, 1.77) | 0.984 |
| *KLF14* | rs4731702 | T | -0.12 | 0.379 | 0.89 (0.68, 1.16) | 0.163 | -0.30 | 0.210 | 0.74 (0.47, 1.18) | 0.702 |
| *LYPLAL1* | rs4846567 | T | -0.19 | 0.174 | 0.83 (0.63, 1.09) | 0.811 | 0.05 | 0.823 | 1.05 (0.67, 1.65) | 0.723 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| *ANK1* | rs516946 | T | 0.06 | 0.682 | 1.06 (0.79, 1.44) | 0.768 | 0.15 | 0.552 | 1.16 (0.72, 1.87) | 0.230 |
| | rs5219 | T | 0.10 | 0.445 | 1.10 (0.86, 1.42) | 0.851 | 0.19 | 0.380 | 1.21 (0.80, 1.83) | 0.382 |
| *ARL15* | rs6450176 | A | 0.30 | 0.059 | 1.35 (0.99, 1.83) | 0.423 | 0.65 | 0.006 | 1.91 (1.20, 3.03) | 0.279 |
| *TMEM18* | rs6548238 | T | -0.55 | 0.007 | 0.58 (0.39, 0.86) | 0.112 | -0.59 | 0.118 | 0.55 (0.26, 1.16) | 0.193 |
| *ADAMTS9* | rs6795735 | T | -0.11 | 0.401 | 0.90 (0.70, 1.16) | 0.411 | 0.05 | 0.809 | 1.05 (0.69, 1.60) | 0.303 |
| *GLIS3* | rs7034200 | A | 0.12 | 0.324 | 1.13 (0.89, 1.44) | 0.922 | 0.25 | 0.233 | 1.29 (0.85, 1.95) | 0.160 |
| *HMG20A* | rs7177055 | G | -0.03 | 0.846 | 0.97 (0.74, 1.28) | 0.529 | -0.03 | 0.899 | 0.97 (0.62, 1.52) | 0.602 |
| *ITPR2SSPN* | rs718314 | G | 0.08 | 0.568 | 1.09 (0.82, 1.45) | 0.358 | 0.14 | 0.580 | 1.14 (0.71, 1.84) | 0.302 |
| *CTRB2* | rs7202877 | G | 0.20 | 0.318 | 1.22 (0.83, 1.79) | 0.317 | 0.56 | 0.049 | 1.75 (1.00, 3.05) | 0.714 |
| *HNF1B* | rs7501939 | T | 0.14 | 0.289 | 1.15 (0.89, 1.50) | 0.350 | -0.13 | 0.549 | 0.87 (0.56, 1.36) | 0.183 |
| *THADA* | rs7578597 | C | -0.23 | 0.460 | 0.80 (0.44, 1.45) | 0.909 | -1.03 | 0.166 | 0.36 (0.08, 1.53) | 0.998 |
| *GCKR* | rs780094 | T | -0.20 | 0.131 | 0.82 (0.63, 1.06) | 0.928 | 0.08 | 0.715 | 1.08 (0.71, 1.64) | 0.858 |
| *PRC1* | rs8042680 | A | -0.27 | 0.049 | 0.77 (0.59, 1.00) | 0.301 | -0.04 | 0.862 | 0.96 (0.63, 1.48) | 0.252 |
| *GIPR* | rs8108269 | G | -0.03 | 0.850 | 0.98 (0.75, 1.27) | 0.628 | 0.39 | 0.062 | 1.47 (0.98, 2.21) | 0.305 |
| *JAZF1* | rs864745 | T | 0.00 | 1.000 | 1.00 (0.78, 1.29) | 0.020 | 0.00 | 0.990 | 1.00 (0.67, 1.51) | 0.520 |
| *TP53INP1* | rs896854 | T | 0.01 | 0.935 | 1.01 (0.78, 1.30) | 0.793 | 0.23 | 0.273 | 1.26 (0.84, 1.90) | 0.147 |
| *VEGFA* | rs9472138 | T | -0.27 | 0.056 | 0.77 (0.58, 1.01) | 0.653 | -0.22 | 0.340 | 0.80 (0.50, 1.27) | 0.108 |
| | rs9686661 | T | -0.02 | 0.918 | 0.98 (0.66, 1.45) | 0.084 | -0.65 | 0.106 | 0.52 (0.24, 1.15) | 0.101 |
| *TFAP2B* | rs987237 | G | -0.07 | 0.643 | 0.93 (0.69, 1.26) | 0.346 | 0.21 | 0.374 | 1.24 (0.77, 1.98) | 0.937 |

A1 = effect allele, *B* = regression coefficient, OR = OR, 95% CI = 95% CI,
int × SNP = interaction between a SNP and RADIEL lifestyle intervention