Estimates of CD4 model parameters using a subset of CASCADE data from populations with predominantly

HIV subtype B infections

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Male |  | Female |
| Transmission | Age | Intercept | Slope | Corr. |  | Intercept | Slope | Corr. |
| Category | Group | (s.e) | (s.e) | Coef. |   | (s.e) | (s.e) | Coef. |
|  |  |  |  |  |  |  |  |  |
| Male-to-male | 15-19 | 23.71(0.32) | -0.99(0.12) | -0.47 |  |  |  |  |
| sexual contact | 20-24 | 23.45(0.19) | -0.93(0.07) | -0.44 |  |  |  |  |
|  | 25-34 | 23.31(0.16) | -1.11(0.06) | -0.42 |  |  |  |  |
|  | 35-44 | 23.20(0.16) | -1.19(0.07) | -0.42 |  |  |  |  |
|  | 45-54 | 23.14(0.20) | -1.35(0.08) | -0.44 |  |  |  |  |
|  | 55+ | 22.60(0.27) | -1.18(0.11) | -0.46 |  |  |  |  |
| Injection | 15-19 | 23.72(0.40) | -1.23(0.15) | -0.49 |  | 25.06(0.47) | -1.53(0.17) | -0.49 |
| drug use | 20-24 | 23.45(0.31) | -1.17(0.11) | -0.49 |  | 24.79(0.40) | -1.47(0.15) | -0.50 |
|  | 25-34 | 23.32(0.29) | -1.35(0.11) | -0.49 |  | 24.66(0.39) | -1.65(0.14) | -0.50 |
|  | 35-44 | 23.21(0.29) | -1.43(0.11) | -0.49 |  | 24.55(0.39) | -1.73(0.14) | -0.50 |
|  | 45-54 | 23.15(0.31) | -1.60(0.12) | -0.49 |  | 24.49(0.41) | -1.89(0.15) | -0.49 |
|  | 55+ | 22.60(0.36) | -1.42(0.14) | -0.48 |  | 23.94(0.45) | -1.72(0.17) | -0.49 |
| Heterosexual | 15-19 | 22.42(0.34) | -0.83(0.13) | -0.48 |  | 22.98(0.33) | -0.86(0.12) | -0.47 |
| contact | 20-24 | 22.16(0.23) | -0.77(0.09) | -0.46 |  | 22.72(0.21) | -0.80(0.08) | -0.45 |
|  | 25-34 | 22.02(0.21) | -0.95(0.08) | -0.45 |  | 22.58(0.19) | -0.98(0.08) | -0.45 |
|  | 35-44 | 21.92(0.21) | -1.03(0.08) | -0.45 |  | 22.47(0.2) | -1.06(0.08) | -0.45 |
|  | 45-54 | 21.85(0.23) | -1.19(0.09) | -0.45 |  | 22.41(0.22) | -1.22(0.09) | -0.45 |
|  | 55+ | 21.31(0.28) | -1.02(0.12) | -0.46 |  | 21.86(0.28) | -1.05(0.11) | -0.46 |
| Other | 15-19 | 22.97(0.37) | -0.81(0.14) | -0.48 |  | 22.97(0.37) | -0.81(0.14) | -0.48 |
|  | 20-24 | 22.71(0.27) | -0.75(0.10) | -0.47 |  | 22.71(0.27) | -0.75(0.10) | -0.47 |
|  | 25-34 | 22.57(0.25) | -0.93(0.10) | -0.46 |  | 22.57(0.25) | -0.93(0.10) | -0.46 |
|  | 35-44 | 22.46(0.25) | -1.01(0.10) | -0.47 |  | 22.46(0.25) | -1.01(0.10) | -0.47 |
|  | 45-54 | 22.40(0.27) | -1.17(0.11) | -0.47 |  | 22.40(0.27) | -1.17(0.11) | -0.47 |
|  | 55+ | 21.85(0.32) | -1.00(0.13) | -0.47 |   | 21.85(0.32) | -1.00(0.13) | -0.47 |

Notes: All parameters refer to square root transformed CD4 counts and slopes reflect changes per year.

Standard errors (s.e.) of estimates are shown in parentheses.