**Final models derived from independent voluntary pseudo-panel datasets – voluntary GZ subset and voluntary CD subset**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Voluntary GZ subseta** | | | **Voluntary CD subsetb** | | |
|  | β | SE | p | β | SE | p |
| Intercept | 0.6304 | 0.4531 | 0.1797 | 0.7783 | 0.2395 | **0.0037** |
| timeBefore11 | 0.0400 | 0.0085 | **<0.0001** | 0.0499 | 0.0099 | **<0.0001** |
| timeAfter11 | 0.0588 | 0.0115 | **<0.0001** | 0.0583 | 0.0114 | **<0.0001** |
| Gender |  |  |  |  |  |  |
| male vs. female | 1.6519 | 0.4042 | **0.0006** | 0.9285 | 0.2110 | **0.0003** |
| Blood donation historyc |  |  |  |  |  |  |
| WB vs. none | 0.5769 | 0.5745 | 0.3274 | 0.2575 | 0.2971 | 0.3963 |
| PLT vs. none | 3.0199 | 0.5689 | **<0.0001** | 2.3244 | 0.2965 | **<0.0001** |
| Both vs. none | 4.3436 | 0.5692 | **<0.0001** | 3.2595 | 0.2966 | **<0.0001** |
| timeAfter11×gender |  |  |  |  |  |  |
| time×male vs. time×female | 0.0307 | 0.0092 | **0.0009** | 0.0185 | 0.0098 | 0.0610 |
| timeAfter11×history |  |  |  |  |  |  |
| time×WB vs. time×none | 0.0019 | 0.0137 | 0.8880 | 0.0019 | 0.0137 | 0.8883 |
| time×PLT vs. time×noned | 0.0390 | 0.0125 | **0.0021** | 0.1219 | 0.0136 | **<0.0001** |
| time×Both vs. time×noned | 0.0133 | 0.0126 | 0.2928 | 0.0484 | 0.0136 | **0.0005** |

aModel equation for voluntary GZ subset can be drew as: average platelet units per donor=0.6304 + 0.0400\*timeBefore11 + 0.0588\*timeAfter11 + 1.6519\*(gender=male) + 0.0000\*(gender=female) + 0.5769\*(history=WB) + 3.0199\*(history=PLT) + 4.3436\*(history=Both) + 0.0000\*(history=None) + 0.0307\*timeAfter11\*(gender=male) +0.0000\*timeAfter11\*(gender=female)+ 0.0019\*timeAfter11\*(history=WB) + 0.0390\*timeAfter11\*(history=PLT)+ 0.0133\*timeAfter11\*(history=Both) + 0.0000\*timeAfter11\*(history=None).

bModel equation for voluntary CD subset can be drew as:average platelet units per donor=0.7783 + 0.0499\*timeBefore11 + 0.0583\*timeAfter11 + 0.9285\*(gender=male) + 0.0000\*(gender=female) + 0.2575\*(history=WB) + 2.3244\*(history=PLT) + 3.2595\*(history=Both) + 0.0000\*(history=None) + 0.0185\*timeAfter11\*(gender=male) + 0.0000\*timeAfter11\*(gender=female)+ 0.0019\*timeAfter11\*(history=WB) + 0.1219\*timeAfter11\*(history=PLT) + 0.0484\*timeAfter11\*(history=Both) + 0.0000\*timeAfter11\*(history=None).

cValues in bracket are the minimum and maximum number of individual donors in the cells across all involved cross-sections.

dThe difference of the outcome change between time\*PLT and time\*Both was tested using Z=abs(β2– β1)/SQRT(SE12 + SE22), α=0.05, one-tailed. For voluntary CD subset: Z=3.821, p<0.0001.

**Bold** values denote statistical significance.