Hazard Ratios and 95% CI

Date: 2016-12-23

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Transition | Predictor | OCTO-Twin | LASA | Whitehall | H70 | LBC1921 | MAP |
| State 1 - State 2 | Age | 1.12 (1.06, 1.17)\* | 1.05 (1.04, 1.06)\* | 1.02 (0.95, 1.09) | 1.09 (0.98, 1.20) | 1.14 (1.05, 1.24)\* | 1.08 (1.07, 1.09)\* |
| State 1 - State 4 | Age | 1.16 (1.09, 1.23)\* | 1.09 (1.07, 1.10)\* | 1.14 (1.06, 1.22)\* | 1.08 (0.99, 1.18) | 1.18 (1.10, 1.27)\* | 1.10 (1.07, 1.13)\* |
| State 2 - State 1 | Age | 0.96 (0.88, 1.04) | 0.96 (0.95, 0.97)\* | 0.91 (0.86, 0.96)\* | 1.16 (1.03, 1.30)\* | 0.99 (0.87, 1.12) | 0.98 (0.96, 0.99)\* |
| State 2 - State 3 | Age | 1.08 (1.04, 1.13)\* | 1.11 (1.09, 1.13)\* | 1.15 (0.98, 1.36) | 1.13 (1.01, 1.27)\* | 1.22 (0.95, 1.57) | 1.05 (1.02, 1.07)\* |
| State 2 - State 4 | Age | 1.11 (0.98, 1.27) | 1.06 (1.03, 1.08)\* | 1.12 (0.92, 1.36) | 1.16 (1.00, 1.36)\* | 1.19 (0.99, 1.44) | 1.11 (1.04, 1.18)\* |
| State 3 - State 4 | Age | 1.05 (1.02, 1.07)\* | 1.05 (1.04, 1.07)\* | --- | 1.00 (0.92, 1.10) | 1.16 (1.02, 1.31)\* | 1.06 (1.03, 1.09)\* |
| State 1 - State 2 | Sex | 1.45 (1.07, 1.94)\* | 1.45 (1.26, 1.67)\* | 0.89 (0.61, 1.29) | 1.02 (0.70, 1.49) | 1.12 (0.63, 1.99) | 1.36 (1.17, 1.58)\* |
| State 1 - State 4 | Sex | 1.45 (0.92, 2.29) | 1.80 (1.44, 2.24)\* | 0.99 (0.60, 1.64) | 1.98 (1.03, 3.82)\* | 0.51 (0.26, 0.99)\* | 1.44 (0.94, 2.20) |
| State 2 - State 3 | Sex | 1.42 (1.02, 1.97)\* | 1.04 (0.77, 1.39) | 2.52 (0.69, 9.21) | 1.21 (0.66, 2.22) | 2.30 (0.54, 9.79) | 0.87 (0.65, 1.17) |
| State 2 - State 4 | Sex | 0.61 (0.08, 4.86) | 1.95 (1.33, 2.84)\* | --- | 2.89 (0.97, 8.66) | 1.25 (0.24, 6.60) | 1.74 (0.94, 3.25) |
| State 3 - State 4 | Sex | 1.60 (1.25, 2.03)\* | 1.27 (1.02, 1.58)\* | --- | 1.50 (0.85, 2.65) | 1.05 (0.47, 2.37) | 1.30 (0.98, 1.72) |
| State 1 - State 2 | Med vs Low Education | 0.46 (0.22, 0.96)\* | 0.53 (0.45, 0.63)\* | 0.51 (0.25, 1.02) | 0.88 (0.53, 1.46) | 0.70 (0.40, 1.22) | 0.50 (0.30, 0.83)\* |
| State 1 - State 4 | Med vs Low Education | 1.94 (1.09, 3.43)\* | 0.94 (0.73, 1.20) | --- | 0.94 (0.30, 2.93) | --- | 1.31 (0.26, 6.66) |
| State 2 - State 3 | Med vs Low Education | 1.39 (0.65, 2.96) | 0.92 (0.62, 1.36) | 1.28 (0.22, 7.34) | 1.83 (0.85, 3.91) | 0.87 (0.27, 2.83) | 2.39 (0.99, 5.80) |
| State 2 - State 4 | Med vs Low Education | --- | 1.04 (0.66, 1.64) | --- | 0.43 (0.03, 5.55) | --- | 0.84 (0.04,15.75) |
| State 3 - State 4 | Med vs Low Education | 0.87 (0.48, 1.59) | 1.33 (0.97, 1.83) | --- | 1.12 (0.52, 2.39) | --- | 1.22 (0.54, 2.75) |
| State 1 - State 2 | High vs Low Education | 0.48 (0.25, 0.90)\* | 0.40 (0.32, 0.50)\* | 0.48 (0.26, 0.91)\* | 0.95 (0.57, 1.58) | 0.68 (0.37, 1.26) | 0.40 (0.29, 0.54)\* |
| State 1 - State 4 | High vs Low Education | 1.44 (0.82, 2.51) | 0.92 (0.70, 1.20) | --- | 1.11 (0.49, 2.50) | --- | 0.82 (0.21, 3.15) |
| State 2 - State 3 | High vs Low Education | 1.42 (0.65, 3.12) | 1.09 (0.67, 1.77) | 0.34 (0.06, 1.99) | 1.55 (0.66, 3.66) | 0.39 (0.09, 1.80) | 1.33 (0.66, 2.66) |
| State 2 - State 4 | High vs Low Education | --- | 0.97 (0.51, 1.84) | --- | 0.36 (0.04, 3.19) | --- | 1.13 (0.25, 4.97) |
| State 3 - State 4 | High vs Low Education | 1.56 (0.84, 2.91) | 1.15 (0.76, 1.72) | --- | 0.80 (0.32, 1.98) | --- | 0.77 (0.43, 1.39) |
| State 1 - State 2 | SES | 0.94 (0.77, 1.15) | 0.79 (0.73, 0.86)\* | --- | 0.69 (0.51, 0.92)\* | 0.93 (0.61, 1.44) | 0.90 (0.82, 0.99)\* |
| State 2 - State 3 | SES | 0.88 (0.70, 1.11) | 0.84 (0.72, 1.00)\* | --- | 0.70 (0.40, 1.22) | 0.69 (0.29, 1.64) | 0.95 (0.79, 1.13) |

Age

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State 1 - State 2 | 1.12 (1.06, 1.17)\* | 1.05 (1.04, 1.06)\* | 1.02 (0.95, 1.09) | 1.09 (0.98, 1.20) | 1.14 (1.05, 1.24)\* | 1.08 (1.07, 1.09)\* |
| State 1 - State 4 | 1.16 (1.09, 1.23)\* | 1.09 (1.07, 1.10)\* | 1.14 (1.06, 1.22)\* | 1.08 (0.99, 1.18) | 1.18 (1.10, 1.27)\* | 1.10 (1.07, 1.13)\* |
| State 2 - State 1 | 0.96 (0.88, 1.04) | 0.96 (0.95, 0.97)\* | 0.91 (0.86, 0.96)\* | 1.16 (1.03, 1.30)\* | 0.99 (0.87, 1.12) | 0.98 (0.96, 0.99)\* |
| State 2 - State 3 | 1.08 (1.04, 1.13)\* | 1.11 (1.09, 1.13)\* | 1.15 (0.98, 1.36) | 1.13 (1.01, 1.27)\* | 1.22 (0.95, 1.57) | 1.05 (1.02, 1.07)\* |
| State 2 - State 4 | 1.11 (0.98, 1.27) | 1.06 (1.03, 1.08)\* | 1.12 (0.92, 1.36) | 1.16 (1.00, 1.36)\* | 1.19 (0.99, 1.44) | 1.11 (1.04, 1.18)\* |
| State 3 - State 4 | 1.05 (1.02, 1.07)\* | 1.05 (1.04, 1.07)\* | --- | 1.00 (0.92, 1.10) | 1.16 (1.02, 1.31)\* | 1.06 (1.03, 1.09)\* |

Sex

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State 1 - State 2 | 1.45 (1.07, 1.94)\* | 1.45 (1.26, 1.67)\* | 0.89 (0.61, 1.29) | 1.02 (0.70, 1.49) | 1.12 (0.63, 1.99) | 1.36 (1.17, 1.58)\* |
| State 1 - State 4 | 1.45 (0.92, 2.29) | 1.80 (1.44, 2.24)\* | 0.99 (0.60, 1.64) | 1.98 (1.03, 3.82)\* | 0.51 (0.26, 0.99)\* | 1.44 (0.94, 2.20) |
| State 2 - State 3 | 1.42 (1.02, 1.97)\* | 1.04 (0.77, 1.39) | 2.52 (0.69, 9.21) | 1.21 (0.66, 2.22) | 2.30 (0.54, 9.79) | 0.87 (0.65, 1.17) |
| State 2 - State 4 | 0.61 (0.08, 4.86) | 1.95 (1.33, 2.84)\* | --- | 2.89 (0.97, 8.66) | 1.25 (0.24, 6.60) | 1.74 (0.94, 3.25) |
| State 3 - State 4 | 1.60 (1.25, 2.03)\* | 1.27 (1.02, 1.58)\* | --- | 1.50 (0.85, 2.65) | 1.05 (0.47, 2.37) | 1.30 (0.98, 1.72) |

Med vs Low Education

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State 1 - State 2 | 0.46 (0.22, 0.96)\* | 0.53 (0.45, 0.63)\* | 0.51 (0.25, 1.02) | 0.88 (0.53, 1.46) | 0.70 (0.40, 1.22) | 0.50 (0.30, 0.83)\* |
| State 1 - State 4 | 1.94 (1.09, 3.43)\* | 0.94 (0.73, 1.20) | --- | 0.94 (0.30, 2.93) | --- | 1.31 (0.26, 6.66) |
| State 2 - State 3 | 1.39 (0.65, 2.96) | 0.92 (0.62, 1.36) | 1.28 (0.22, 7.34) | 1.83 (0.85, 3.91) | 0.87 (0.27, 2.83) | 2.39 (0.99, 5.80) |
| State 2 - State 4 | --- | 1.04 (0.66, 1.64) | --- | 0.43 (0.03, 5.55) | --- | 0.84 (0.04,15.75) |
| State 3 - State 4 | 0.87 (0.48, 1.59) | 1.33 (0.97, 1.83) | --- | 1.12 (0.52, 2.39) | --- | 1.22 (0.54, 2.75) |

High vs Low Education

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State 1 - State 2 | 0.48 (0.25, 0.90)\* | 0.40 (0.32, 0.50)\* | 0.48 (0.26, 0.91)\* | 0.95 (0.57, 1.58) | 0.68 (0.37, 1.26) | 0.40 (0.29, 0.54)\* |
| State 1 - State 4 | 1.44 (0.82, 2.51) | 0.92 (0.70, 1.20) | --- | 1.11 (0.49, 2.50) | --- | 0.82 (0.21, 3.15) |
| State 2 - State 3 | 1.42 (0.65, 3.12) | 1.09 (0.67, 1.77) | 0.34 (0.06, 1.99) | 1.55 (0.66, 3.66) | 0.39 (0.09, 1.80) | 1.33 (0.66, 2.66) |
| State 2 - State 4 | --- | 0.97 (0.51, 1.84) | --- | 0.36 (0.04, 3.19) | --- | 1.13 (0.25, 4.97) |
| State 3 - State 4 | 1.56 (0.84, 2.91) | 1.15 (0.76, 1.72) | --- | 0.80 (0.32, 1.98) | --- | 0.77 (0.43, 1.39) |

SES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State 1 - State 2 | 0.94 (0.77, 1.15) | 0.79 (0.73, 0.86)\* | --- | 0.69 (0.51, 0.92)\* | 0.93 (0.61, 1.44) | 0.90 (0.82, 0.99)\* |
| State 2 - State 3 | 0.88 (0.70, 1.11) | 0.84 (0.72, 1.00)\* | --- | 0.70 (0.40, 1.22) | 0.69 (0.29, 1.64) | 0.95 (0.79, 1.13) |

# Session Information

For the sake of documentation and reproducibility, the current report was rendered on a system using the following software.

Report rendered by koval\_000 at 2016-12-23, 14:14 -0500

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 msm\_1.6.4 magrittr\_1.5 ggplot2\_2.2.0  
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 formatR\_1.4 RColorBrewer\_1.1-2 plyr\_1.8.4 highr\_0.6 tools\_3.3.1   
 [7] extrafont\_0.17 digest\_0.6.10 jsonlite\_1.1 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0   
[13] lattice\_0.20-34 Matrix\_1.2-7.1 DBI\_0.5-1 yaml\_2.1.13 mvtnorm\_1.0-5 expm\_0.999-0   
[19] Rttf2pt1\_1.3.4 dplyr\_0.5.0 stringr\_1.1.0 htmlwidgets\_0.7 grid\_3.3.1 DT\_0.2   
[25] R6\_2.2.0 readxl\_0.1.1 survival\_2.39-5 rmarkdown\_1.1 tidyr\_0.6.0 extrafontdb\_1.0   
[31] scales\_0.4.1 htmltools\_0.3.5 splines\_3.3.1 rsconnect\_0.5 assertthat\_0.1 dichromat\_2.0-0   
[37] testit\_0.5 colorspace\_1.2-7 stringi\_1.1.2 lazyeval\_0.2.0 munsell\_0.4.3