

Age at menopause and lifetime cognition \_supplemental tables e-1 to e-5

Supplementary Table e-1. Estimates from multilevel models showing change in verbal memory with age and the mean difference in verbal memory between 43 and 69 years, by each covariable separately and mutually adjusted in (a) women with a natural menopause and (b) women with a surgical menopause.

|  | Model 1<br>Each covariable adjusted only for both age terms |              |         | Model 2<br>Fully adjusted |                 |         |
|--|---|--------------|---------|---------------------------|-----------------|---------|
|  | Regression coefficient                                      | 95% CI       | p-value | Regression Coefficient    | 95% CI          | p-value |
| a) Natural menopause<br>(846 women, 2678 observations) |   |              |         |                           |                 |         |
| Age (per yr): linear term                              |   |              |         | 0.0095                    | -0.054,0.073    | .8      |
| Age (per yr): quadratic term                           |   |              |         | -0.0037                   | -0.0057,-0.0017 | <.001   |
| Age at period cessation (per yr)                       |   | -0.07,0.27   | .001    | 0.095                     | 0.020,0.17      | .013    |
| *HRT yes v. no   | -0.33   | -0.98,0.32   | .3      | -0.35                     | -1.00,0.28      | .3      |
| *BMI (per unit)  | -0.44   | -0.72,-0.15  | .002    | -0.23                     | -0.48,0.016     | .07     |
| *Smoker v. non-smoker                                  | -0.87   | -1.5,-0.24   | .007    | -0.21                     | -0.79,0.37      | .5      |
| Occupation class (per class)                           | -1.9  | -2.2,-1.7    | <.001   | -0.55                     | -0.83,-0.28     | <.001   |
| Educational qualifications (per step)                  | 2.4   | 2.1,2.6      | <.001   | 1.3                       | 1.0,1.6         | <.001   |
| Childhood cognitive ability (per 1 SD)                 | 3.1   | 2.8,3.4      | <.001   | 1.7                       | 1.4,2.1         | <.001   |
| b) Surgical menopause<br>(313 women, 965 observations) |   |              |         |                           |                 |         |
| Age (per yr): linear term                              |   |              |         | 0.25                      | 0.12,0.37       | <.001   |
| Age (per yr): quadratic term                           |   |              |         | -0.011                    | -0.015,-0.0070  | <.001   |
| Age at period cessation (per yr)                       | 0.15  | 0.057,0.24   | .002    | 0.055                     | -0.028,0.14     | .2      |
| Bilateral oophorectomy v. hysterectomy                 | -0.46   | -1.83,0.92   | .5      | -0.037                    | -1.11,1.03      | .9      |
| *HRT yes v.no  | -0.78   | -1.53,-0.32  | .04     | -0.73                     | -1.46,-0.012    | .05     |
| *BMI (per unit)  | -0.30   | -0.80,0.20   | .2      | 0.043                     | -0.39,0.48      | .8      |
| *Smoker v. non-smoker                                  | 0.90  | -0.83,2.6    | .3      | 1.26                      | -0.40,2.98      | .1      |
| *Smoking status by age                                 | -0.35   | -0.62,-0.080 | .011    | -0.34                     | -0.60,-0.07     | .01     |
| *Smoking status by age <sup>2</sup>                    | 0.013   | 0.0034,0.022 | .008    | 0.013                     | 0.0033,0.022    | .008    |
| Occupation class (per class)                           | -1.8  | -2.2,-1.4    | <.001   | -0.50                     | -0.93,-0.073    | .02     |
| Educational qualifications (per step)                  | 2.3   | 1.9,2.7      | <.001   | 1.22                      | 0.76,1.69       | <.001   |
| Childhood cognitive ability (per 1 SD)                 | 3.3   | 2.8,3.8      | <.001   | 1.98                      | 1.4,2.6         | <.001   |

\*included as time-varying covariables

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Supplementary Table e-2. Estimates from multilevel models showing change in processing speed with age and the mean difference in verbal memory between 43 and 69 years, by each covariable separately and mutually adjusted in (a) women with a natural menopause and (b) women with a surgical menopause

|   | Model 1<br>Each covariable adjusted only for both age terms |                |         | Model 2<br>Fully adjusted |               |         |
|---|---|----------------|---------|---------------------------|---------------|---------|
|   | Regression coefficient                                      | 95% CI         | p-value | Regression coefficient    | 95% CI        | p-value |
| a) Natural menopause<br>(847 women, 2705 observations)    |   |                |         |                           |               |         |
| Age (per yr): linear term                                 |   |                |         | -9.0                      | -9.9,-8.1     | <.001   |
| Age (per yr): quadratic term                              |   |                |         | 0.18                      | 0.15,0.21     | <.001   |
| Age at period cessation (per yr)                          | 0.77  | -0.30,1.85     | .2      | 0.64                      | -0.43,1.71    | .2      |
| *HRT yes v.no   | -3.1  | -12.1,5.8      | .5      | -3.7                      | -12.6,5.2     | .4      |
| *BMI (per unit)   | -4.5  | -8.0,-1.0      | .01     | -3.7                      | -7.2,-0.22    | .04     |
| *Smoker v. non-smoker                                     | -0.21   | -8.3,7.9       | 1.0     | 2.2                       | -6.3,10.3     | .6      |
| Occupation class (per class)                              | -4.6  | -8.0,-1.3      | .007    | -0.19                     | -4.1,3.8      | .9      |
| Educational qualifications (per step)                     | 6.6   | 3.5,9.6        | <.001   | 3.9                       | 0.015,7.8     | .06     |
| Childhood cognitive ability (per 1 SD)                    | 3.8   | -2.7,10.3      | .2      | 0.058                     | -7.2,7.3      | 1.0     |
| Childhood cognitive ability (per 1SD) by age              | 0.86  | 0.0055,1.72    | .05     | 0.89                      | 0.03,1.74     | .04     |
| Childhood cognitive ability (per 1SD) by age <sup>2</sup> | -0.025  | -0.051,-0.0021 | .07     | -0.025                    | -0.052,0.0014 | .06     |
| b) Surgical menopause<br>(314 women, 980 observations)    |   |                |         |                           |               |         |
| Age (per yr): linear term                                 |   |                |         | -6.3                      | -10.7,-1.9    | .005    |
| Age (per yr): quadratic term                              |   |                |         | 0.094                     | -0.45,0.23    | .2      |
| Age at period cessation (per yr)                          | 0.46  | -0.56,1.48     | .4      | 0.43                      | -0.72,1.60    | .5      |
| Bilateral oophorectomy v. hysterectomy                    | 0.8   | -12.7,14.2     | .9      | -1.92                     | -16.9,13.1    | .8      |
| *HRT yes v. no  | 0.12  | -10.2,10.5     | 1.0     | 0.71                      | -9.6,11.0     | .9      |
| *BMI (per unit)   | 1.6   | -4.5,7.6       | .6      | 2.1                       | -4.0,8.2      | .5      |
| *Smoker v. non-smoker                                     | 1.4   | -11.1,13.9     | .8      | 3.4                       | -9.3,16.1     | .6      |
| Occupation class (per class)                              | 5.6   | -2.5,13.6      | .2      | 5.4                       | -3.9,14.8     | .3      |
| Occupation class (per class) by age                       | -1.5  | -2.6,-0.32     | .01     | -1.0                      | -2.3,0.27     | .1      |
| Occupation class (per class) by age <sup>2</sup>          | 0.046   | 0.011,0.082    | .01     | 0.033                     | -0.0069,0.073 | .1      |
| Educational qualifications (per step)                     | 3.8   | -1.4,8.9       | .1      | 3.4                       | -3.1,9.9      | .3      |
| Childhood cognitive ability (per 1 SD)                    | -5.4  | -16.4,5.6      | .3      | -4.3                      | -17.5,8.9     | .5      |
| Childhood cognitive ability (per 1SD) by age              | 1.9   | 0.39,3.48      | .01     | 1.3                       | -0.46,3.0     | .1      |
| Childhood cognitive ability (per 1SD) by age <sup>2</sup> | -0.059  | -0.11,-0.011   | .02     | -0.038                    | -0.093,0.016  | .2      |

\*included as time-varying covariables

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Supplementary Table e-3 Mean and standard deviation (SD) and regression coefficients (and 95% CI) for verbal memory at various ages by menopausal characteristics.

|  | Verbal memory age 43 | Verbal memory age 53 | Verbal memory age 60-64 | Verbal memory age 69 |
|--|----------------------|----------------------|-------------------------|----------------------|
|  | Mean (SD)            | Mean (SD)            | Mean (SD)               |                      |
| Age at period cessation (years)                              |                      |                      |                         |                      |
| 27-39  | 23.7 (6.4)           | 24.0 (5.7)           | 24.4 (5.6)              | 22.1 (6.5)           |
| 40-44  | 25.0 (6.2)           | 23.7 (5.6)           | 24.7 (5.6)              | 21.8 (5.5)           |
| 45-49  | 25.4 (6.6)           | 24.7 (6.3)           | 24.9 (6.3)              | 22.7 (6.4)           |
| 50-52  | 25.8 (6.4)           | 25.1 (6.6)           | 25.4 (6.5)              | 23.7 (6.0)           |
| 53-55  | 27 (6.1)             | 25.8 (5.8)           | 25.7 (5.7)              | 24.1 (5.7)           |
| 56-62  | 26.9 (6.4)           | 25.2 (6.2)           | 25.7 (5.8)              | 23.9 (5.7)           |
| Total sample   | 1192                 | 1202                 | 937                     | 871                  |
| Regression coeff. (95% CI) (adj type)                        | 0.17 (0.09, 0.25)    | 0.14 (0.06, 0.22)    | 0.13 (0.04, 0.22)       | 0.16 (0.07, 0.25)    |
| p-value (trend) adjusting for type of menopause)             | <.001                | <.001                | .005                    | .001                 |
| Menopause type   |                      |                      |                         |                      |
| Natural menopause  | 26.1 (6.5)           | 25 (6.2)             | 25.3 (6.2)              | 23.5 (5.9)           |
| Hysterectomy   | 25.0 (6.3)           | 24.5 (5.6)           | 24.9 (5.5)              | 22.2 (6.5)           |
| Bilateral oophorectomy                                       | 24.6 (6.2)           | 25.0 (6.7)           | 25.2 (6.2)              | 23.0 (6.2)           |
| Total sample   | 1192                 | 1202                 | 937                     | 871                  |
| Regression coeff. 95% CI                                     |                      |                      |                         |                      |
| Bilateral oophorectomy v. natural menopause                  | -1.5 (-2.7, -0.37)   | -0.02 (-1.1, 1.1)    | -0.17 (-1.5, 1.1)       | -0.50 (-1.8, 0.78)   |
| Hysterectomy or unilateral oophorectomy v. natural menopause | -1.1 (-2.1, -1.0)    | -0.46 (-1.44, 0.52)  | -0.41 (-1.5, 0.67)      | -1.3 (-2.4, -0.19)   |
| P-value  | .007                 | .6                   | .8                      | .07                  |
| Age at natural menopause (years)                             |                      |                      |                         |                      |
| <45  | 25.8 (6.8)           | 23.9 (6.1)           | 25.8 (6.5)              | 22.7 (5.7)           |
| 45-49  | 25.0 (6.7)           | 24.0 (6.1)           | 24.5 (6.4)              | 22.7 (6.1)           |
| 50-52  | 26.0 (6.5)           | 25.2 (6.5)           | 25.3 (6.5)              | 23.6 (6.0)           |
| 53-55  | 27.0 (6.1)           | 25.8 (5.9)           | 25.7 (5.7)              | 24.2 (5.8)           |
| 56-62  | 26.9 (6.3)           | 25.2 (6.1)           | 25.8 (5.9)              | 23.8 (5.5)           |
| Total sample   | 860                  | 883                  | 691                     | 634                  |
| Regression coeff. (95% CI)                                   | 0.17 (0.06, 0.28)    | 0.15 (0.05, 0.26)    | 0.10 (-0.02, 0.22)      | 0.14 (0.02, 0.25)    |
| p-value (trend)  | .003                 | .004                 | .1                      | .02                  |
| Age at hysterectomy or unilateral oophorectomy (years)       |                      |                      |                         |                      |
| <40  | 23.7 (6.1)           | 23.8 (5.2)           | 24.2 (5.5)              | 22.0 (6.6)           |
| 40-44  | 24.7 (6.3)           | 23.6 (5.5)           | 24.3 (5.2)              | 21.2 (5.9)           |
| 45-49  | 27.5 (5.3)           | 27.4 (5.2)           | 26.5 (5.6)              | 23.1 (6.9)           |
| ≥50  | 26.6 (8.3)           | 23.5 (7.5)           | 27.3 (6.1)              | 27.3 (7.0)           |
| Regression coeff. (95% CI)                                   | 0.24 (0.08, 0.40)    | 0.19 (0.04, 0.33)    | 0.21 (0.06, 0.37)       | 0.25 (0.06, 0.44)    |
| p-value (trend)  | .004                 | .011                 | .007                    | .011                 |
| Age at bilateral oophorectomy (years)                        |                      |                      |                         |                      |
| <40  | 23.3 (6.6)           | 25.1 (7.0)           | 23.9 (5.9)              | 21.4 (4.8)           |
| 40-44  | 24.3 (5.4)           | 23.8 (5.7)           | 24.5 (4.9)              | 23.9 (4.8)           |
| 45-49  | 25.0 (6.6)           | 25.2 (7.1)           | 25.3 (6.8)              | 22.4 (7.1)           |
| ≥50  | 24.8 (5.9)           | 25.2 (6.5)           | 25.6 (6.1)              | 23.9 (6)             |
| Regression coeff. (95% CI)                                   | 0.10 (-0.06, 0.27)   | 0.05 (-0.14, 0.25)   | 0.09 (-0.13, 0.31)      | 0.10 (-0.11, 0.31)   |
| p-value for trend  | .3                   | .6                   | .4                      | .4                   |

Age at period cessation is based on months since birth, and regression coefficients per year

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Supplementary Table e-4. Mean and standard deviation (SD) and regression coefficients (and 95% CI) for processing speed at various ages by menopausal characteristics

|  | Processing speed age 43 | Processing speed age 53 | Processing speed age 60-64 | Processing speed age 69 |
|--|-------------------------|-------------------------|----------------------------|-------------------------|
|  | Mean (SD)               | Mean (SD)               | Mean (SD)                  |                         |
| Age at period cessation (years)                              |                         |                         |                            |                         |
| 27-39  | 357.0 (71.9)            | 286.5 (71.6)            |                            | 264.1 (75.8)            |
| 40-44  | 350.7 (79.2)            | 288.6 (80.7)            | 267.3 (69.5)               | 273.5 (91.6)            |
| 45-49  | 354.2 (77.1)            | 286.1 (74.4)            | 265.3 (70.0)               | 268.7 (77.6)            |
| 50-52  | 350.1 (72.1)            | 286.8 (75.3)            | 277.6 (74.1)               | 268.7 (68.7)            |
| 53-55  | 360.5 (74.3)            | 287.7 (71.4)            | 269.2 (74.3)               | 259.4 (69.1)            |
| 56-62  | 359.6 (73.0)            | 299.4 (84.8)            | 284.2 (81.0)               | 281.1 (79.0)            |
| Total sample   | 1224                    | 1211                    | 948                        | 877                     |
| Regression coeff. (95% CI) (adj. for menopause type)         | 0.56 (-0.38,1.5)        | 0.64 (-0.32,1.6)        | 0.9 (-0.18,2.0)            | 0.8 (-0.32,1.9)         |
| p-value for trend  | .2                      | .2                      | .1                         | .2                      |
| Type of menopause  |                         |                         |                            |                         |
| Natural menopause  | 353.4 (75.5)            | 287.4 (76.0)            | 273.0 (75.3)               | 266.1 (74.2)            |
| Hysterectomy   | 356.6 (72.8)            | 292.8 (73.5)            | 272.6 (71.0)               | 269.5 (84.9)            |
| Bilateral oophorectomy                                       | 358.4 (72.2)            | 286.1 (75.1)            | 265.0 (63.6)               | 277.9 (67.1)            |
| Total sample   | 1224                    | 1211                    | 948                        | 877                     |
| Bilateral oophorectomy v. natural menopause                  | 5.0 (-8.1,18.1)         | -1.3 (-14.9,12.4)       | -8.0 (-23.6,7.7)           | 11.8 (-4.3,27.9)        |
| Hysterectomy or unilateral oophorectomy v. natural menopause | 3.1 (-8.4,14.6)         | 5.4 (-6.5,17.4)         | -0.4 (-13.3,12.5)          | 3.4 (-10.2,17.1)        |
| P-value (categories)   | .7                      | .6                      | .6                         | .3                      |
| Age at natural menopause (years)                             |                         |                         |                            |                         |
| <45  | 336.1 (82.8)            | 282.7 (83.3)            | 268.8 (81.9)               | 261.6 (76.7)            |
| 45-49  | 351.7 (78.7)            | 284.0 (73.0)            | 262.5 (68.2)               | 266.6 (80.3)            |
| 50-52  | 350.8 (73.0)            | 288.1 (76.2)            | 278.7 (75.7)               | 264.9 (69.3)            |
| 53-55  | 360.5 (74.9)            | 286.5 (72.5)            | 269.5 (75.0)               | 258.8 (69.8)            |
| 56-62  | 357.7 (73.3)            | 296.4 (85.2)            | 285.0 (82.4)               | 282.0 (80.6)            |
| Total sample   | 880                     | 889                     | 699                        | 637                     |
| Regression coeff. (95% CI)                                   | 1.2 (-0.08,2.5)         | 0.56 (-0.72,1.8)        | 1.3 (-0.24,2.8)            | 0.78 (-0.67,2.2)        |
| p-value for trend  | .07                     | .4                      | .1                         | .3                      |
| Age at hysterectomy (years)                                  |                         |                         |                            |                         |
| <40  | 367.4 (70.2)            | 289.1 (72.7)            | 277.2 (75.2)               | 264.9 (82.1)            |
| 40-44  | 353.5 (77.3)            | 296.5 (76.5)            | 266.6 (65.1)               | 276.0 (102.6)           |
| 45-49  | 348.3 (69.8)            | 293.2 (74.0)            | 273.1 (75.9)               | 264.2 (64.5)            |
| ≥50  | 333.4 (67.7)            | 293.9 (66.3)            | 274.5 (65.0)               | 281.7 (36.1)            |
|  | 198                     | 186                     | 152                        | 143                     |
| Regression coeff. (95% CI)                                   | -1.8 (-3.6,0.48)        | 0.10 (-1.8,2.0)         | -0.09 (-2.1,1.9)           | 0.81 (-1.7,3.3)         |
| p-value for trend  | .06                     | .9                      | .9                         | .5                      |
| Age at bilateral oophorectomy (years)                        |                         |                         |                            |                         |
| <40  | 327.6 (71.3)            | 285.9 (70.8)            | 251.2 (62.9)               | 259.9 (51.7)            |
| 40-44  | 366.3 (73.1)            | 264.9 (82.1)            | 256.6 (48.9)               | 294.9 (53.0)            |
| 45-49  | 368.1 (76.2)            | 288.9 (81.4)            | 269.9 (72.7)               | 281.3 (78.9)            |
| ≥50  | 356.3 (66.0)            | 290.6 (67.8)            | 267.2 (59.8)               | 275.6 (63.6)            |
|  | 146                     | 136                     | 97                         | 97                      |
| Regression coeff. (95% CI)                                   | 1.6 (-0.34,3.5)         | 1.5 (-0.63,3.7)         | 1.4 (-0.87,3.6)            | .78 (-1.5,3.1)          |
| p-value for trend  | .1                      | .2                      | .2                         | .5                      |

Age at period cessation is based on months since birth, adjusted for type of menopause, and regression coefficients per year

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Supplementary Table e-5. Mean difference in a) verbal memory score and b) processing speed score at age 69 by ever use of HRT, length of use and years since last use by type of period cessation. Adjusted for all covariables

|                         | Natural menopause<br>Adj. for covariables<br>(n=568-587)<br>Column 1 |            |         | Hysterectomy<br>Adj. for covariables<br>(n=96-100)<br>Column 2 |             |         | Bilateral oophorectomy<br>Adj. for covariables<br>(n=66-68)<br>Column 3 |             |         | Bilateral oophorectomy<br>Additionally adjusted for verbal memory /<br>processing speed at age 43 (n=63-67)<br>Column 4 |             |         |
|-------------------------|--|------------|---------|--|-------------|---------|---|-------------|---------|---|-------------|---------|
|                         | Reg coeff  | 95% CI     | p-value | Reg coeff  | 95% CI      | p-value | Reg coeff   | 95% CI      | p-value | Reg coeff   | 95% CI      | p-value |
| a) Verbal memory        |  |            |         |  |             |         |   |             |         |   |             |         |
| HRT ever (yes v.no)     | -0.55  | -1.4,0.28  | .2      | -1.1   | -4.1,1.8    | .5      | 4.7   | -0.63,10.0  | .08     | 5.1   | 0.24,9.9    | .04     |
| Length of HRT use (yrs) |  |            | .4      |  |             | .3      |   |             | .2      |   |             | .2      |
| > 10 years              | -0.90  | -2.6,0.76  |         | -1.8   | -5.6,2.0    |         | 4.9   | -0.94,10.7  |         | 5.0   | -0.34,10.3  |         |
| 7-10 years              | -0.80  | -2.0,0.44  |         | 0.91   | -2.9,4.7    |         | 3.4   | -2.4,9.2    |         | 3.6   | -1.8,9.0    |         |
| 3-6 years               | -0.96  | -2.2,0.25  |         | -2.9   | -6.6,0.86   |         | 4.8   | -0.87,10.4  |         | 5.7   | 0.53,10.8   |         |
| < 3 years               | 0.0013   | -1.2,1.2   |         | -1.0   | -5.2,3.2    |         | 7.3   | 0.39,14.2   |         | 6.1   | -0.21,12.3  |         |
| Not used HRT            | Ref  |            |         | Ref  |             |         |   |             |         |   |             |         |
| Last use of HRT         |  |            | .3      |  |             | .7      |   |             | .2      |   |             | .2      |
| In the last year        | -1.4   | -3.1,0.35  |         | -0.70  | -4.8,3.4    |         | 6.5   | 0.04,13.1   |         | 5.9   | -0.11,11.9  |         |
| 1-5 years ago           | 0.24   | -1.5,2.0   |         | -1.5   | -7.6,4.4    |         | 3.0   | -3.2,9.2    |         | 3.2   | -2.6,8.9    |         |
| > 5 years ago           | -0.52  | -1.4,0.38  |         | -1.8   | -4.9,1.3    |         | 4.3   | -1.2,9.8    |         | 4.9   | -0.13,10.0  |         |
| Never used HRT          | Ref  |            |         | Ref  |             |         |   |             |         |   |             |         |
| b) Processing speed     |  |            |         |  |             |         |   |             |         |   |             |         |
| HRT ever (yes v.no)     | -5.1   | -16.6,6.3  | .4      | -0.81  | -41.7,40.1  | 1.0     | 53.0  | -18.7,124.6 | .1      | 79.1  | 12.7,145.5  | .02     |
| Length of HRT use (yrs) |  |            | .9      |  |             | .9      |   |             | .03     |   |             | .007    |
| > 10 years              | -4.1   | -26.6,18.5 |         | -7.6   | -59.7,44.4  |         | 71.9  | -2.8,146.5  |         | 100.3   | 31.6,169.1  |         |
| 7-10 years              | -2.2   | -19.2,14.7 |         | -12.3  | -63.7,39.1  |         | 49.4  | -24.9,123.7 |         | 64.9  | -2.7,132.5  |         |
| 3-6 years               | -4.0   | -20.7,12.8 |         | -5.6   | -55.3,44.2  |         | 23.6  | -48.8,96.1  |         | 52.3  | -15.4,120.1 |         |
| < 3 years               | -8.5   | -24.8,7.8  |         | 16.3   | -40.0,72.5  |         | 102.4   | 13.7,191.1  |         | 121.8   | 41.1,202.4  |         |
| Not used HRT            | Ref  |            |         | Ref  |             |         | ref   |             |         | ref   |             |         |
| Last use of HRT         |  |            | .6      |  |             | .4      |   |             | <.001   |   |             | <.001   |
| In the last year        | 0.86   | -22.6,24.4 |         | 20.3   | -33.4,74.0  |         | 101.3   | 26.9,175.7  |         | 120.2   | 52.7,187.8  |         |
| 1-5 years ago           | 6.5  | -17.4,30.3 |         | -41.4  | -120.4,37.5 |         | 100.2   | 29.6,170.9  |         | 121.2   | 57.1,185.2  |         |
| > 5 years ago           | -6.8   | -19.3,5.7  |         | -9.3   | -50.6,31.9  |         | 29.1  | -34.1,92.2  |         | 48.8  | -9.1,106.7  |         |
| Never used HRT          | Ref  |            |         | Ref  |             |         | ref   |             |         | ref   |             |         |