## SUPPLEMENTARY MATERIALS

Supplementary Table 1. Effect of adjusting for age at first pregnancy on the p,p'-DDT association with breast cancer, stratified by age in 1945*

| Model | Before adjustment for age at first pregnancy |  | After adjustment for age at first pregnancy ${ }^{\dagger}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Before Age 3* } \\ & \text { OR }(95 \% \mathrm{CI}) \end{aligned}$ | Age 3 and older* OR (95\% CI) | Before Age 3* OR (95\% CI) | Age 3 and older* OR (95\% CI) |
| Linear Model ${ }^{\ddagger}$ $\log _{2}\left(p, p^{\prime}-\mathrm{DDT}\right)$ | 0.56 (0.26-1.19) | 2.83 (1.96-4.10) | 0.72 (0.32-1.62) | 3.50 (2.30-5.33) |
| Tertile Model ${ }^{\text {§ }}$ <br> Tertile 1 <br> Tertile 2 <br> Tertile 3 | $\begin{aligned} & 1.00 \text { (Reference) } \\ & 0.11(0.01-0.91) \\ & 0.10(0.01-0.96) \end{aligned}$ | $\begin{aligned} & 1.00 \text { (Reference) } \\ & 1.30(0.75-2.25) \\ & 2.17(1.13-4.19) \end{aligned}$ | $\begin{aligned} & 1.00 \text { (Reference) } \\ & 0.28(0.03-2.25) \\ & 0.15(0.02-1.46) \end{aligned}$ | $\begin{array}{r} 1.00 \text { (Reference) } \\ 1.28(0.72-2.27) \\ 2.32(1.17-4.60) \end{array}$ |
| *P-value for the in 1945 (dichoto adjustment for a age at first expos and 0.11 for tertil estimated by con ${ }^{\dagger}$ Age at first preg ${ }^{\ddagger}$ Linear Model in as a continuous ${ }^{8}$ Tertile Model in reference catego at tertile medians | duct term between ed as $<3$ vs. $3+$ yea at first pregnancy. (<3 vs. $3+$ ) were 2 and 0.02 for tertile ional logistic regres <br> ncy was entered as <br> des: $p, p^{\prime}-\mathrm{DDT}\left(\log _{2}\right.$ iable), year of blood <br> des indicator variab (described in Table (escribed in Table 2), | DDT (DDT $\left(\log _{2}-\right.$ trans was 0.01 before adjus tertile model, produc for tertile 2 and 0.02 f fter adjustment for age Cl , Confidence Inter <br> ontinuous variable to <br> sformed as a continuou ww (continuous) and p or tertiles 2 and 3 of $p$ $o^{\prime}, p^{\prime}$-DDT represented ear of blood draw (con | ormed as a continuou ment (Table 2) and terms for each $p, p$ r tertile 3 before adju at first pregnancy. OR, al. <br> djusted models. <br> us variable), o, $p^{\prime}$-DD rity (continuous). <br> $p^{\prime}$-DDT where tertile as a 3-cateogry ordin nuous) and parity (c | variable) and age <br> 1 after <br> DT tertile with ment (Table 2) Odds Ratio <br> $\log _{2}$-transformed <br> was the variable coded tinuous) |

Supplementary Table 2. Effect of removing outlier values on the $p, p^{\prime}$-DDT association
with breast cancer.

| Model | Before exclusion of outlier $p, p$ '-DDT values* | After exclusion of outlier $p, p$ '-DDT values* |
| :---: | :---: | :---: |
|  | OR (95\% CI) | OR (95\% CI) |
| Linear Model ${ }^{\dagger}$ |  |  |
| $\log _{2}\left(p, p^{\prime}-D D T\right)$ | 2.36 (1.70-3.29) | 2.72 (1.91-3.88) |
| $\log _{2}$ DDT x age(<3 vs.3+) | 0.31 (0.12-0.77) | 0.26 (0.10-0.65) |
| Tertile Model ${ }^{\ddagger}$ |  |  |
| Tertile 1 | 1.00 (Reference) | 1.00 (Reference) |
| Tertile 2 | 1.21 (0.70-2.09) | 1.32 (0.75-2.31) |
| Tertile 3 | 1.89 (1.00-3.58) | 2.21 (1.12-4.39) |
| Tertile $2 \times$ age(<3 vs.3+) | 0.24 (0.05-1.12) | 0.22 (0.05-1.05) |
| Tertile 3 x age( $<3$ vs. $3+$ ) | 0.18 (0.04-0.76) | 0.16 (0.04-0.71) |

[^0]
[^0]:    *Outliers were defined as $\log _{2}$-transformed $p, p$ '-DDT or untransformed $p, p$ '-DDT values that met the following criteria: [below Quartile 1 - (Interquartile Range x 1.5)] or above [Quartile $4+$ (Interquartile Range $x 1.5$ )]. Using these criteria we identified 7 women who had $\log _{2}$-transformed $p, p$ '-DDT values outside these limits and 21 who had untransformed $p, p^{\prime}$-DDT outlier values. The column on the left shows DDT associations with breast cancer prior to excluding the 7 outlier values from the linear model and the 21 outlier values from the tertile model. The column on the right shows associations after excluding the outliers. All models include product terms for DDT with age at exposure (dichotomized as $<3 \mathrm{vs}$. 3+ years) to show results for testing the significance of the interaction terms, and the effect of outlier exclusions on these tests. OR, Odds Ratio estimated by conditional logistic regression. CI, Confidence Interval.
    ${ }^{\dagger}$ Linear Model includes: $p, p^{\prime}$-DDT $\left(\log _{2}\right.$-transformed as a continuous variable), o, $p^{\prime}$-DDT ( $\log _{2}$-transformed as a continuous variable), year of blood draw, parity and a product term for continuous $\log _{2}\left(p, p^{\prime}\right.$-DDT) with age at first exposure, dichotomized as $<3$ vs. 3+ years.
    ${ }^{\ddagger}$ Tertile Model includes indicator variables for tertiles 2 and 3 of $p, p^{\prime}$-DDT where tertile 1 was the reference category (described in Table 2), o', $p^{\prime}$-DDT represented as a 3-cateogry ordinal variable coded at tertile medians (described in Table 2), year of blood draw (continuous), parity (continuous), and two product terms for each $p, p^{\prime}$-DDT tertile with age at exposure, dichotomized as $<3 \mathrm{vs}$. $3+$ years

