

Supplementary data

Supplementary Table S1. Crude and adjusted associations between CA125 test result, Age, presence/absence of a recorded symptom of possible ovarian cancer, Townsend score with Test-to-diagnosis intervals.

| | Unadjusted | | Adjusted | |
|--------------------------|---------------------|---------|--------------------|---------|
| | TR (95% CI) | p value | TR (95% CI) | p value |
| Abnormal CA125 | Reference | - | - | - |
| Normal CA125 | 2.0 (1.7-2.4) | <0.001 | 2.0 (1.6-2.4) | <0.001 |
| Age (years) | 0.99 (0.99-0.99) | 0.004 | 1.0 (1.0-1.0) | 0.16 |
| No symptom record | Reference | - | - | - |
| Symptom record | 0.95 (0.80-1.1) | 0.50 | 0.94 (0.81-1.1) | 0.46 |
| Townsend score | - | 0.75* | - | 0.77* |
| Townsend 1 | Reference | - | - | - |
| Townsend 2 | 1.0 (0.83-1.3) | 0.70 | 1.0 (0.82-1.3) | 0.87 |
| Townsend 3 | 1.1 (0.89-1.4) | 0.33 | 1.1 (0.86-1.3) | 0.51 |
| Townsend 4 | 0.97 (0.75-1.3) | 0.80 | 1.0 (0.77-1.2) | 0.85 |
| Townsend 5 | 1.1 (0.82-1.5) | 0.50 | 1.0 (0.77-1.4) | 0.81 |

*P value for effect of Townsend score as a whole.

Supplementary Table S2. Association between CA125 test result, age, presence/absence of a recorded symptom and Townsend score with early stage (I-II) at diagnosis for invasive tumours.

| | Unadjusted | | Adjusted | |
|--------------------------|---------------------|---------|---------------------|---------|
| | OR (95% CI) | p value | OR (95% CI) | p value |
| Abnormal CA125 | Reference | - | Reference | - |
| Normal CA125 | 8.6 (4.1-18.0) | <0.001 | 9.1 (4.1-20.2) | <0.001 |
| Age (years) | 0.95 (0.93-0.97) | <0.001 | 0.94 (0.92-0.97) | <0.001 |
| No symptom record | Reference | - | - | - |
| Symptom record | 0.50 (0.31-0.81) | 0.005 | 0.35 (0.19-0.63) | <0.001 |
| Townsend score | - | 0.39* | - | 0.77* |
| Townsend 1 | Reference | - | - | - |
| Townsend 2 | 1.9 (0.95-3.6) | 0.07 | 1.5 (0.70-3.4) | 0.28 |
| Townsend 3 | 1.3 (0.64-2.7) | 0.46 | 1.1 (0.47-2.5) | 0.85 |
| Townsend 4 | 1.4 (0.66-3.0) | 0.37 | 1.3 (0.53-3.0) | 0.60 |
| Townsend 5 | 0.92 (0.32-2.6) | 0.87 | 0.86 (0.26-2.8) | 0.80 |

*P value for effect of Townsend score as a whole.