Supplementary Table 1: Lack of association of clinical covariates with performance of the reduced marker model for BE prediction.

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|  | Covariate | No | Yes | P-value |
| Predicted Probability | Age >= 63 | 0.95 (0.9-0.99) | 0.97 (0.93-1) | 0.9867 |
| Predicted Probability | Female | 0.9 (0.8-1) | 0.98 (0.96-1) | 0.9484 |
| Predicted Probability | BMI >= 30 | 0.97 (0.94-1) | 0.95 (0.9-1) | 0.9836 |
| Predicted Probability | Smoke:Ever | 0.98 (0.95-1) | 0.93 (0.87-1) | 0.9707 |