

Type of Article: Original Research

Title: The Causal Effect and Impact of Reproductive Factors on Breast Cancer Using Super Learner and Targeted Maximum Likelihood Estimation: A Case-Control Study in Fars Province, Iran

Running Title: Reproductive Factors and Breast Cancer Risk

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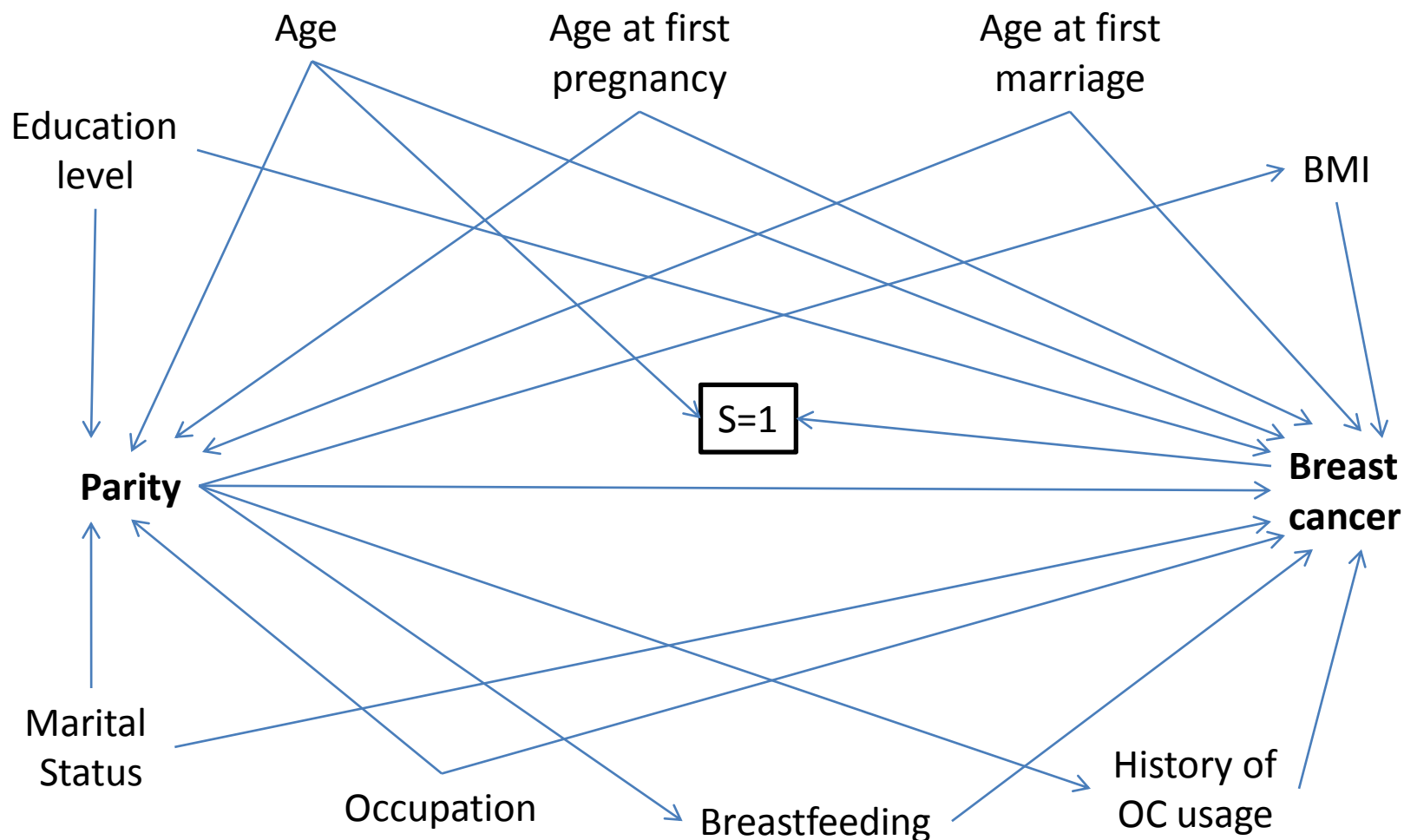
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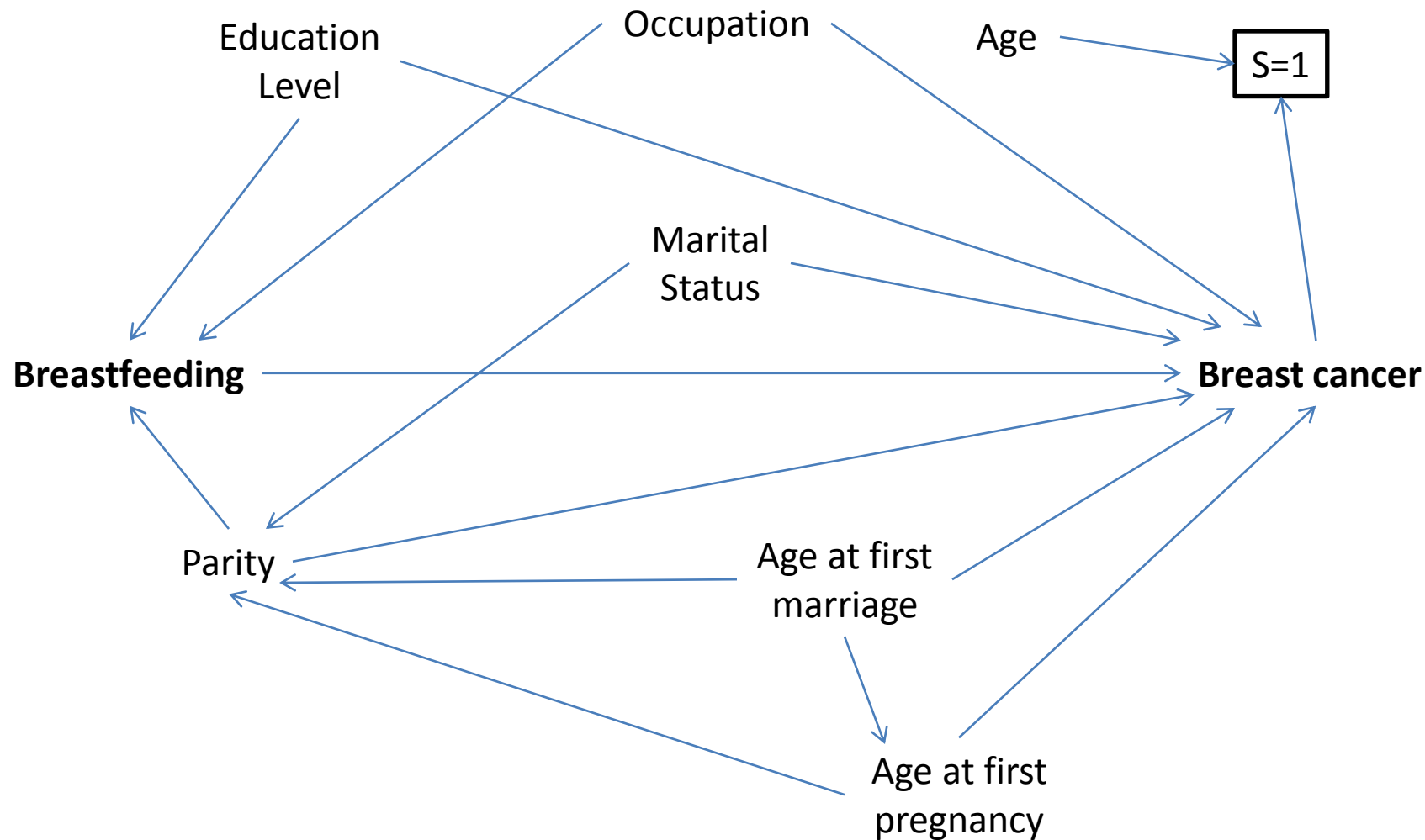
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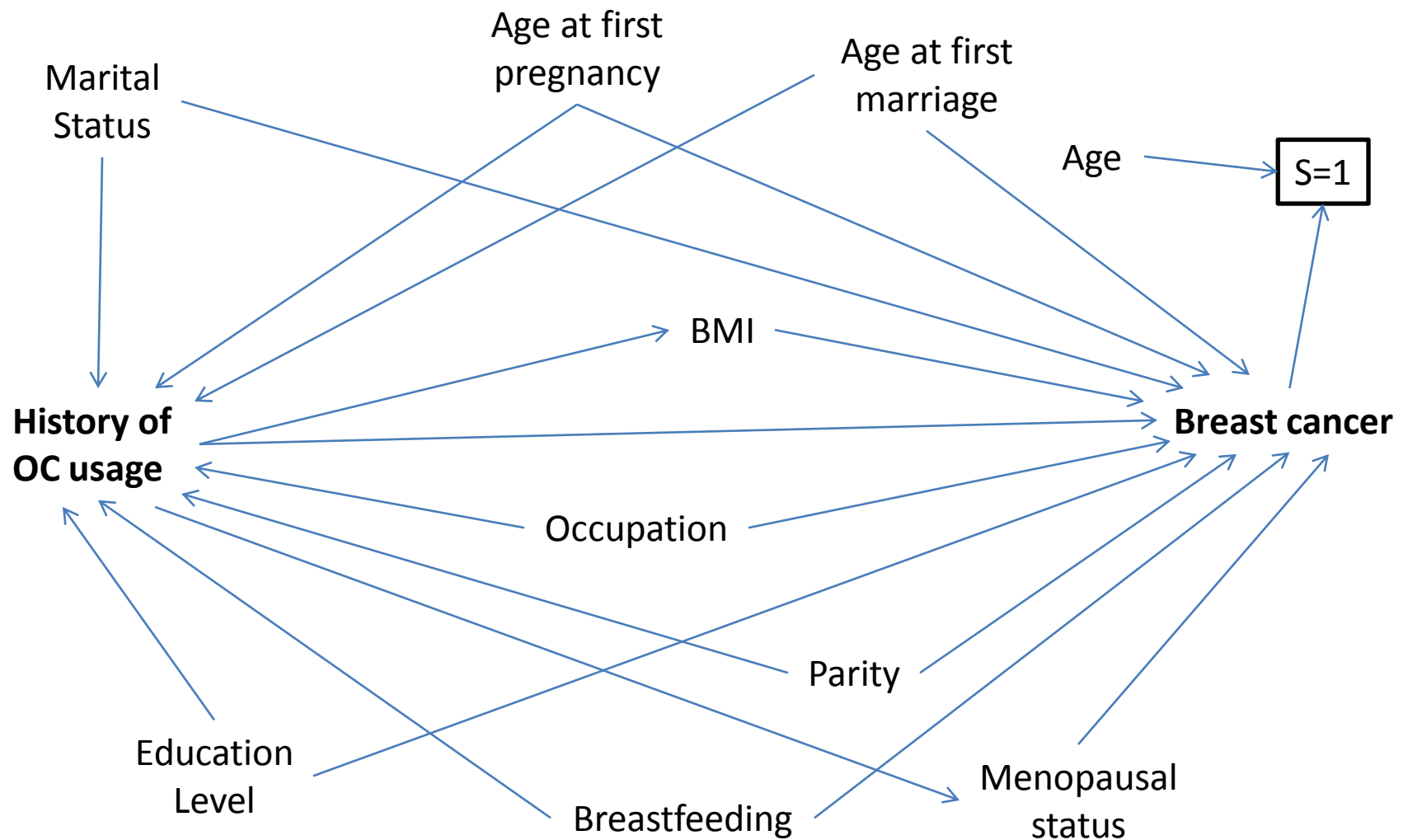
MSS: Age, Age at first pregnancy, Age at first marriage, Occupation, Education and marital status

Figure s1: A causal diagram representing the effect of parity on BC in the source population



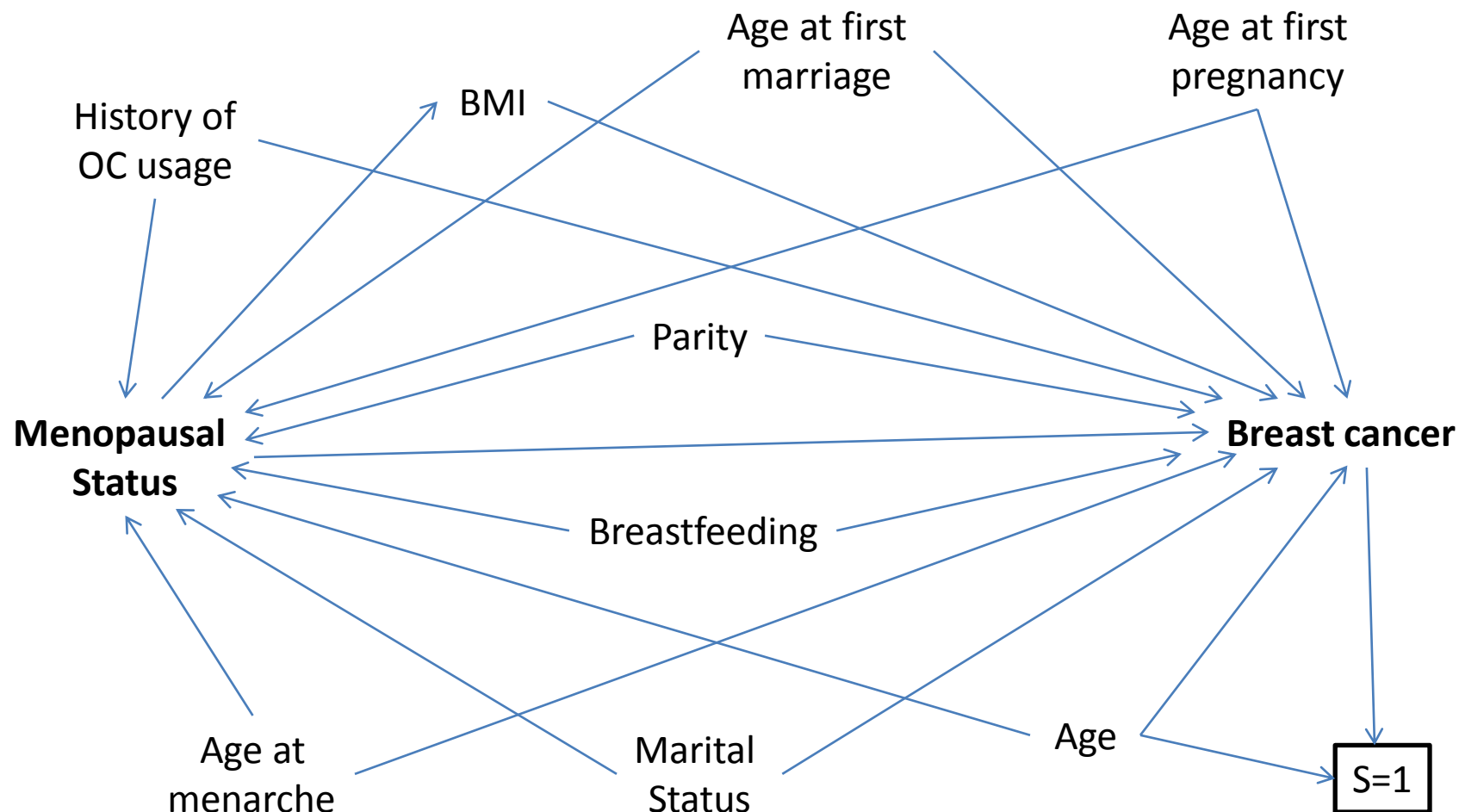
MSS: Occupation, Parity and Education level

Figure s2: A causal diagram representing the effect of breastfeeding on BC in the source population



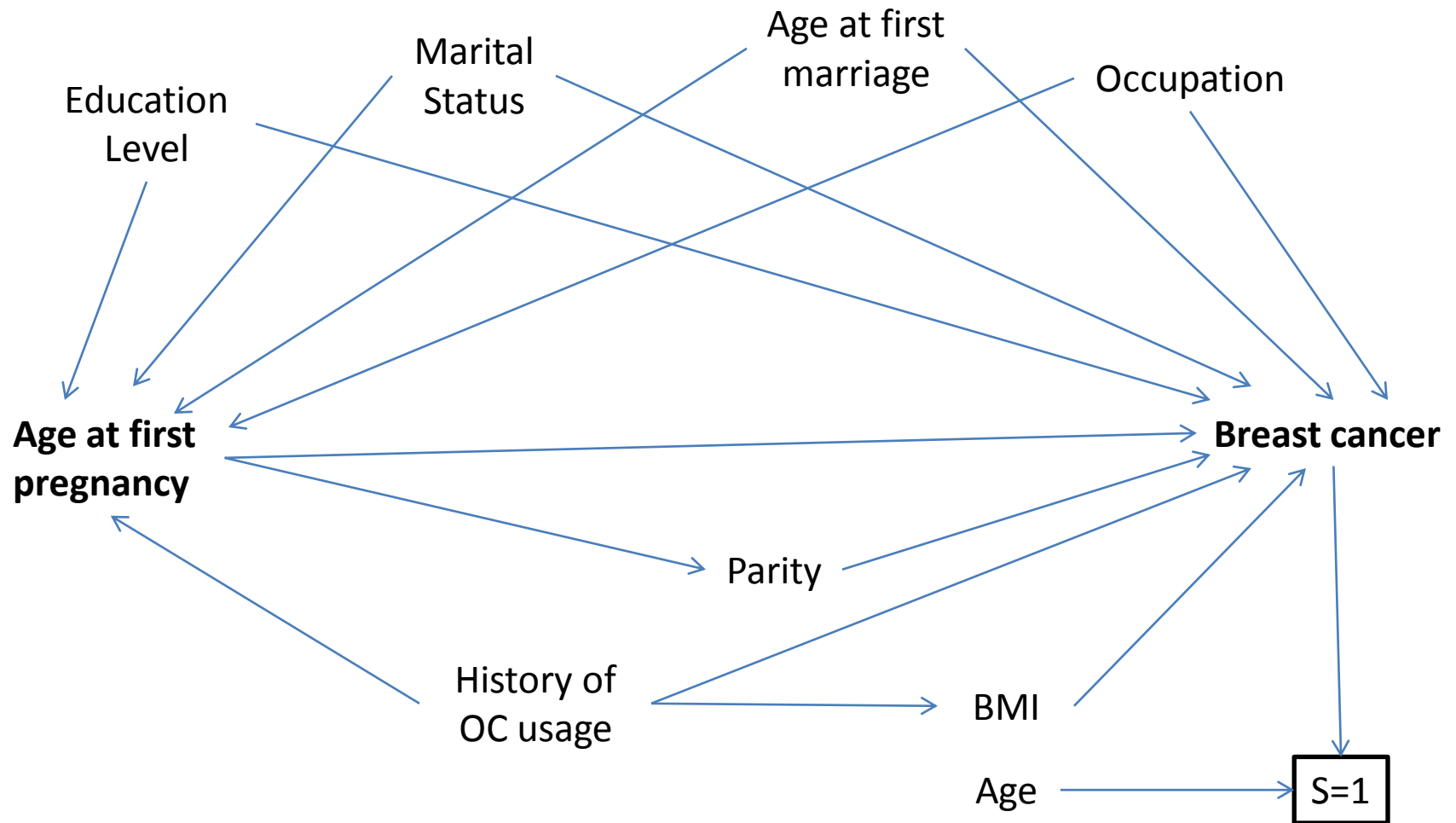
MSS: Age at first pregnancy, Age at first marriage, Parity, Occupation, Marital Status, Education Level and Breastfeeding

Figure s3: A causal diagram representing the effect of history of OC usage on BC in the source population



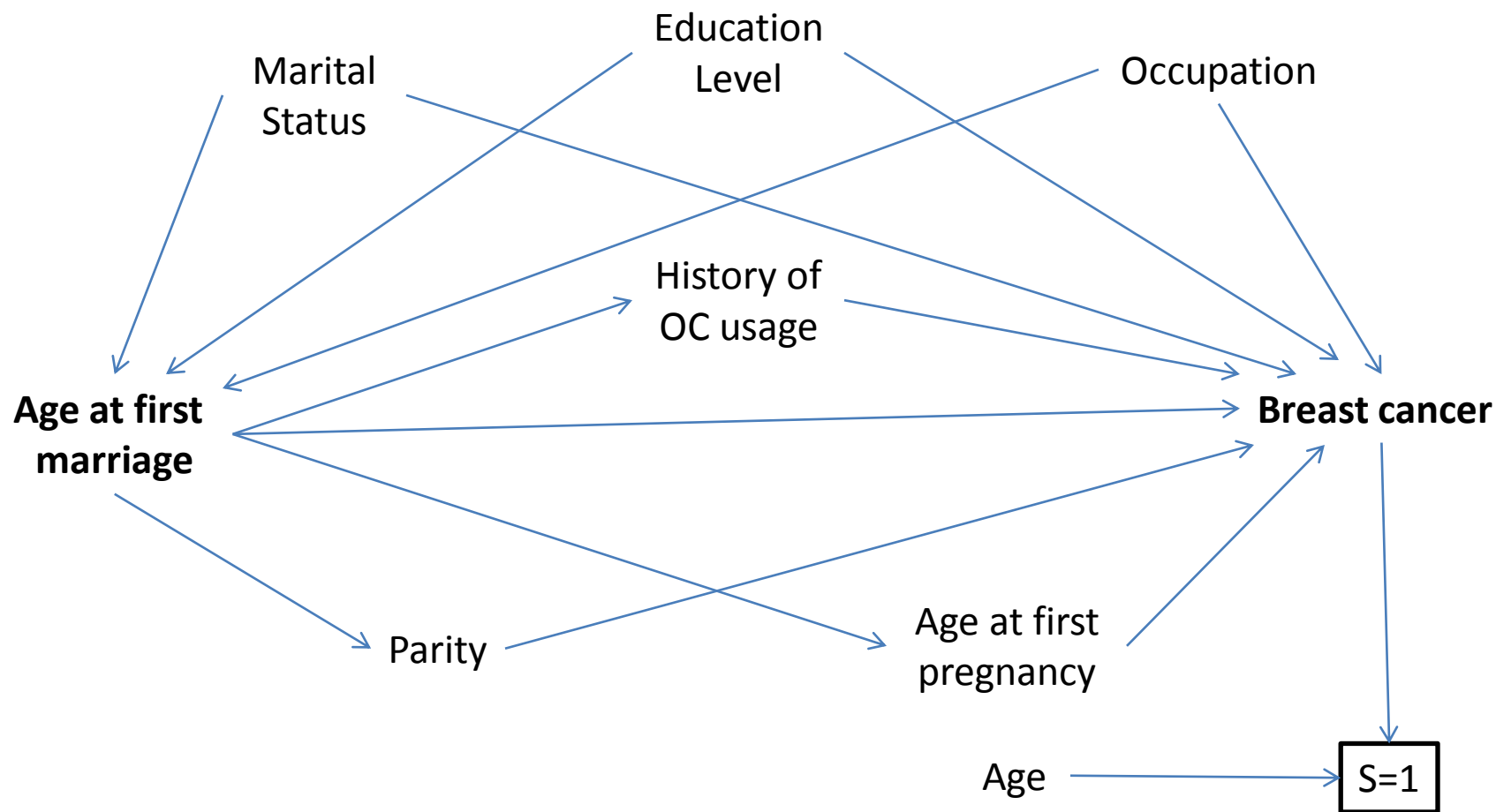
MSS: Parity, Breastfeeding, Age, Age at first marriage, Age at first pregnancy, Age at menarche, Marital Status and History of OC usage

Figure s4: A causal diagram representing the effect of menopausal status on BC in the source population



MSS: Age at first marriage, Occupation, Marital Status, Education Level and History of OC usage

Figure s5: A causal diagram representing the effect of age at first pregnancy on BC in the source population



MSS: Occupation, Marital Status, and Education Level

Figure s6: A causal diagram representing the effect of age at first marriage on BC in the source population