Supplementary Material to article “A Test For Detecting Etiologic Heterogeneity In Epidemiological Studies”

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This supplemental contains further results for the breast cancer data analyzed in Section 4. Tables below give the results of the proposed score test testing the etiological heterogeneity for NA, PR, ER and Her2/neu statuses.

Table 1: Score test results for detecting etiologic heterogeneity for NA status.

Covariate	T_s	95-th sample quantile
Age at menopause	1.8730	4.3187
Age at first menstruation	0.6130	3.2219
Number of births	1.6844	3.5517
Age at first birth	0.0282	3.1568
Age at last birth	1.6267	3.5924
Duration of breast feeding	0.0012	2.8789
Duration of smoking	0.3945	4.4010

Table 2: Score test results for detecting etiologic heterogeneity for ER status.

Covariate	T_s	95-th sample quantile
Age at menopause	0.8211	4.2717
Age at first menstruation	0.6381	3.1836
Number of births	1.4669	3.6356
Age at first birth	0.0743	3.0320
Age at last birth	1.0058	3.7904
Duration of breast feeding	0.2837	3.1038
Duration of smoking	0.0669	4.4934

Table 3: Score test results for detecting etiologic heterogeneity for PR status.

Covariate	T_s	95-th sample quantile
Age at menopause	2.1657	4.2575
Age at first menstruation	0.9721	3.1081
Number of births	1.6946	3.6448
Age at first birth	1.3493	3.0475
Age at last birth	0.2577	3.8287
Duration of breast feeding	0.0266	3.0690
Duration of smoking	5.4369	4.4712

Table 4: Score test results for detecting etiologic heterogeneity for Her2/neu status.

Covariate	T_s	95-th sample quantile
Age at menopause	0.0221	4.2282
Age at first menstruation	0.1743	3.1073
Number of births	0.1180	3.5392
Age at first birth	2.8983	3.1104
Age at last birth	0.6100	3.8440
Duration of breast feeding	3.5999	3.5418
Duration of smoking	0.0523	4.4483