### Table S1 Baseline characteristics of the participants

| Items                               | N  |
|-------------------------------------|----|
| Age (years)                         |    |
| 20–29                               | 23 |
| 30–39                               | 46 |
| 40–49                               | 102|
| 50–59                               | 39 |
| 60–69                               | 12 |
| ≥70                                 | 7  |
| Clinical Symptoms                   |    |
| Self-detected breast masses         | 127|
| Nipple discharge                    | 11 |
| Pain                                | 13 |
| More than one symptom               | 33 |
| None                                | 45 |
| Origin of the participants          |    |
| Screening                           | 21 |
| Clinical symptoms                   | 184|
| Requested by physician after mammography | 24 |
| Ultrasound based BI-RADS classification |    |
| 3                                   | 41 |
| 4A                                  | 113|
| 4B                                  | 41 |
| 4C                                  | 20 |
| 5                                   | 14 |

### Table S2 Results of the PCA

| Variables                           | PC1   | PC2   | PC3   | PC4   | PC5   | PC6   |
|-------------------------------------|-------|-------|-------|-------|-------|-------|
| Age                                 | −0.3709| −0.1718| 0.0034| 0.8282| −0.3809| −0.0435|
| Symptoms                            | 0.3828| 0.4524| −0.0830| 0.5246| 0.5821| −0.1669|
| Orientation                         | 0.1070| −0.1917| 0.9104| 0.1067| 0.1909| 0.2741|
| Echo pattern                        | 0.6137| −0.2417| 0.1455| 0.0132| −0.3868| −0.6277|
| Calcification                       | −0.5428| 0.3706| 0.3393| −0.1647| 0.0801| −0.6476|
| Adler classification                | 0.1823| 0.7303| 0.1672| −0.0142| −0.5688| 0.2860|
| Importance of components            |       |       |       |       |       |       |
| Standard deviation                  | 1.2392| 1.0925| 1.0181| 0.9704| 0.8570| 0.7471|
| Proportion of variance              | 0.2559| 0.1989| 0.1728| 0.1570| 0.1224| 0.0930|
| Cumulative proportion               | 0.2559| 0.4549| 0.6276| 0.7846| 0.9070| 1.0000|

PCA, principal component analysis.

### Table S3 Results of the VIF measurements

| Variables                        | Age | Symptoms | Orientation | Echo pattern | Calcification | Adler classification |
|----------------------------------|-----|----------|-------------|--------------|---------------|----------------------|
| VIF                              | 1.0437| 1.0771 | 1.0342 | 1.2244 | 1.2069 | 1.0827 |

VIF, variance inflation factor.

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