

**Supplemental Figure 1.** Participant flow diagram



**Supplemental Figure S2.** Pre and post vaccination level of distress according to sex



**Supplemental Figure S3.** Dotplot of repeated measure analysis of distress according to educational level

**Supplemental Table 1.** Comparison of vaccine non-responders between assay methods

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Dimeric AU**(N = 175) | **Trimeric BAU**(N = 218) | *p value* |
| **Non responders** | 18 (10.2) | 31 (14.2) | 0.31 |
| **Responders** | 157 (89.8) | 187 (85.8) |

n (%)

**Supplemental Table 2.** Univariable analyses describing the association between high and low psychological symptoms and cancer sites.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **High**n (%) | **Low**n (%) | *p value* |
| 80 (30.1) | 186 (69.9) |
| **Anxiety,** by Tumor site Digestive Lung Breast Genitourinary and gynecologic Other | 7 (41.2)17 (32.1)10 (25.6)46 (29.3)46 (29.3) | 10 (58.8)36 (67.9)29 (74.4)111 (70.7)46 (29.3) | 0.68 |
| **Depressive symptoms,** by Tumor site Digestive Lung Breast Genitourinary and gynecologic Other | 19 (32.2)37 (35.9)17 (26.1)4 (21.0)3 (15.0) | 40 (67.8)66 (64.1)48 (73.9)15 (79.0)17 (85.0) | 0.27 |
| **Distress,** by Tumor site Digestive Lung Breast Genitourinary and gynecologic Other | 29 (31.9)9 (32.1)23 (35.9)17 (23.6)2 (18.2) | 62 (68.1)19 (67.9)41 (64.1)55 (76.4)9 (81.8) | 0.50 |