**Role of circulating ARID1A mRNA as a potential biomarker in female breast cancer patients**

**Short title:** ARID1A mRNA in breast cancer.

**Journal Name:** Asian Pacific Journal of Cancer Prevention

**Eman Mohamed Abdellatif \*, Mahmoud A. Alhussini , Inass Ibrahim Ahmed Zaki , Eman Saad Nassar.**

\* **Corresponding author:**

**Eman Mohamed Abdellatif**

**Email:** Eman.ibrahim@alexmed.edu.eg

**Tel:** +201285576661

**Table S2. Univariate and multivariate logistic regression analysis for the serum ARID1A mRNA to discriminate breast cancer patients from control subjects**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Univariate** | | **#Multivariate** | |
| **P** | **OR (LL – UL 95%C.I)** | **p** | **OR (LL – UL 95%C.I)** |
| Age (years) | 0.681 | 1.008 (0.969 – 1.049) | 0.403 | 1.038 (0.951 – 1.134) |
| BMI (kg/m2) | 0.079 | 0.886 (0.774 – 1.014) | 0.909 | 1.010 (0.851 – 1.198) |
| Menopause | 0.584 | 0.818 (0.399 – 1.677) | 0.279 | 0.425 (0.091 – 1.998) |
| Presence of DM | 0.580 | 1.227 (0.594 – 2.534) | 0.199 | 1.900 (0.713 – 5.064) |
| Presence of HTN | 0.699 | 1.162 (0.544 – 2.484) | 0.744 | 0.837 (0.288 – 2.431) |
| Presence of IHD | 0.822 | 0.904 (0.374 – 2.183) | 0.992 | 0.994 (0.283 – 3.486) |
| ARID1A mRNA | <0.001\* | 0.071 (0.025 – 0.202) | <0.001\* | 0.066 (0.022 – 0.204) |

Hosmer and Lemeshow Test (χ2=19.714; p=0.011\*)

OR: Odd`s ratio C.I: Confidence interval LL: Lower limit UL: Upper Limit

#: Adjusted by Age, BMI (body mass index), Menopause, DM (diabetes mellitus), HTN (hypertension) and IHD (ischemic heart disease)

\*: Statistically significant at p ≤ 0.05