Reviewer’s report

**Title:** Androgen receptors and serum testosterone levels identify different subsets of postmenopausal breast cancers

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**Reviewer:** Zeina Nahleh

**Reviewer’s report:**

The manuscript evaluates the role of Abdrogen receptors and testosterone leveles in Menopausal breast cancer woemn. AR expression correlates with high testosterone level and ER - with low levels.

The authors also propose an andogen excess theory of breast cancer

The topic of androgen effect , AR and circulating androgens have been studied and significant controversies exist that we don’t feel have been adequately addressed in this manuscript. Also he conclui=usions appear simplistic such as asking for testosterone levels to be routinely determined.

A clear associationbetween androgens and breast cancer and otehr clincial situations have remained elusive, in the light of absence of a reliable testosterone level for measurement Measuring the totl pool of androgens by the serum levels of androsterone glucurnoinde ADT-G and 3 adiol-g IS MORE RELIABLE . Also ANDROGEN INSUFFICIENCY(due to adrenopause) and a relative imbalance of sex steroids hormones in favor of estrogenss may be the main contibutory breast risk factor ; in contradiction with the author's suggestions. This should be considered in the conclusion

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Acceptable

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.