

Review of: "A Novel Approach: The Akl-Ahmed Insulin Sensitivity Prediction Equation (AA-ISPE) as an Alternative to HOMA-IR for Predicting Insulin Resistance"

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Potential competing interests: No potential competing interests to declare.

Dear Gabri

Thank you for inviting me to review this manuscript.

After reviewing the idea and content of this manuscript, I would like to inform you that it cannot be published for the following reasons:

1-The suggested formula relied on three parameters indirectly related to insulin resistance. Two of these, CRP and IL6, change in many disease states unrelated to insulin resistance, so it is unreasonable to rely on them to estimate insulin resistance.

2-The suggested formula excluded the two main parameters of insulin resistance: the insulin level and the glucose concentration in the blood. This exclusion reduces the chances of adopting the formula in estimating insulin resistance.

3-The suggested formula multiplies each of the three new parameters by its coefficients, and the authors should have mentioned the nature of these coefficients, their values, and how to calculate them.

4- The authors needed to verify the reliability of the suggested formula and the extent of its validity with other insulin resistance-approved formulas like the HOMA formula. Moreover, it is not validated against the golden method for estimating insulin resistance, which is the hyperinsulinemic hyperglycemic clamp method.

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