

## Concept Paper Addendum

**Paper Title:** Intimate Partner Violence and Lower Relationship Quality Are Associated with Faster Biological Aging

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### **Changes to study:**

Two changes were made to the analysis plan in the period from when the concept paper was first submitted to when the paper was prepared for submission. Both changes are described below and were made to simplify the presentation of the study results.

#### **Change 1: Analysis of number of waves in a romantic relationship**

We analyzed the difference between people who were in a relationship at either 0 or 1 phase to those in relationships at 2 or more phases, to simplify the interpretation of the model results as compared to a “dosage variable” for number of study phases people were in a relationship. However, this dosage variable was still included in the relationship covariates in all later analyses, as originally described in the concept paper, and we included a figure illustrating the pace of aging across the relationship “dosages.”

#### **Change 2: Sensitivity analysis**

We originally planned to conduct a sensitivity analysis looking at people who were in the same romantic relationship for at least 20 years to determine if these participants evidenced the same patterns of association as the larger sample. Our current approach included length of relationship as a control variable—which addressed the concerns that prompted us to originally propose this sensitivity analysis in a more parsimonious way. As a result, we did not include this sensitivity analysis in the manuscript.

#### **Change 3: Covariates**

We originally described “number of relationships” as a potential covariate and created a variable measuring number of divorces to assess this. However, the number of divorces was not correlated with the study aging outcomes and the base rate of divorce was low (due to the low prevalence of marriage in New Zealand). It was not included as a covariate as a result. Notably, all analyses replicated when including number of divorces as a relationship covariate.