

ONLINE RESOURCE 1

Supplementary Figures S1 and S2

A multi-scale quantitative systems pharmacology model of the Pharmaco-Nutritional Kinetic Paradox: GLP-1 receptor agonists, colonic fibre fermentation and endogenous GLP-1 signalling

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Authors: Arbind Kumar Choudhary, PhD; Sudhanshu Sahu, PhD

Affiliations: 1. Department of Pharmacology, Government Erode Medical College and Hospital, Erode, Tamil Nadu 638052, India; 2. Department of Pharmacology, DRIEMS Institute of Health Sciences and Hospital, Tangi, Cuttack, Odisha 754022, India

Corresponding author: Sudhanshu Sahu, PhD; sudhanshussahu@driems.ac.in; +91-9178626576

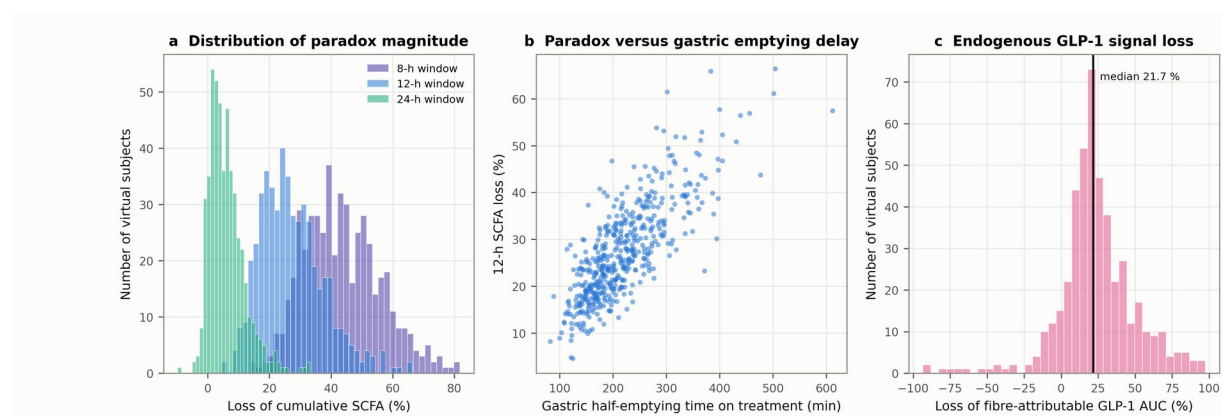


Fig. S1 Virtual population (n = 500). (a) Overlaid histograms of the percentage loss of cumulative SCFA over 8-h, 12-h, and 24-h windows. (b) Individual subjects plotted as 12-h SCFA loss against gastric half-emptying time on treatment. (c) Distribution of the loss of fibre-attributable endogenous GLP-1 area under the curve, with the population median marked

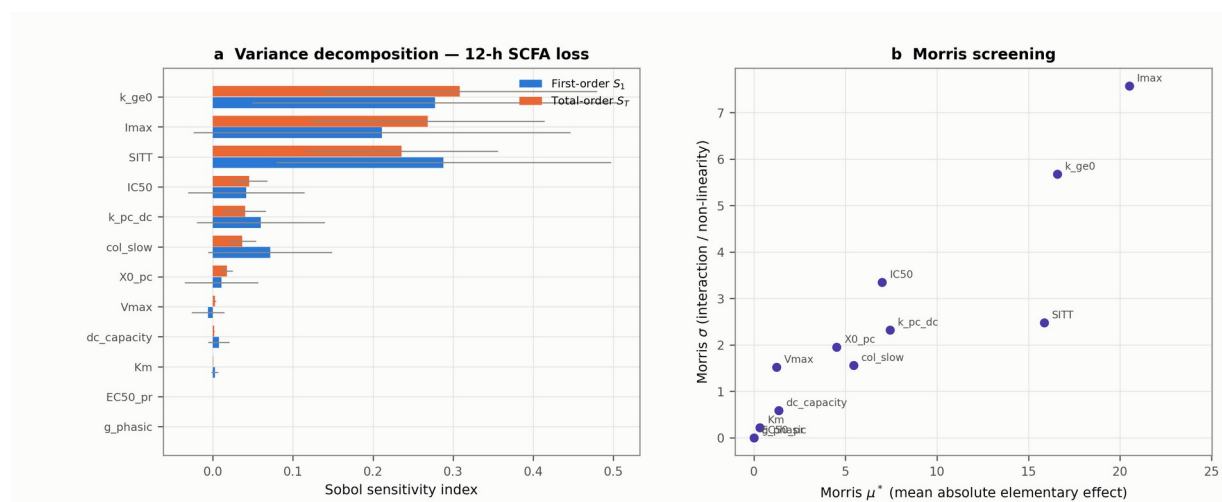


Fig. S2 Global sensitivity analysis. (a) Sobol first-order and total-order indices for the 12-h SCFA-loss endpoint with bootstrap 95% confidence intervals, ordered by total-order index. (b) Morris screening plot of the mean absolute elementary effect against its standard deviation