**Supplementary Material**

A)



B)



C)



D)



E)



F)



G)



H)



I)



J)



**Supplementary Figure 1.** Random-effects meta-regression plots of the association between mean changes in A) TG; B) TC; C) LDL; D) HDL; E) FBG; F) fasting insulin; G) HbA1c; H) HOMA-IR; I) SBP; and J) DBP and Propolis dose.

A)



B)



C)



D)



E)



F)



G)



H)



I)



J)



**Supplementary Figure 2.** Random-effects meta-regression plots of the association between mean changes in A) TG; B) TC; C) LDL; D) HDL; E) FBG; F) fasting insulin; G) HbA1c; H) HOMA-IR; I) SBP; and J) DBP and intervention duration.

A)



B)



C)



D)



E)



F)



G)



H)



I)



J)



K)



L)



M)



N)



O)



P)



Q)



R)



S)



T)

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**Supplementary Figure 3.** Dose-response relations between Propolis dosage (mg/day) and duration (week) of Propolis supplementation and mean difference in TG (A, B), TC (C, D), LDL (E, F), HDL (G, H), FBG (I, J), fasting insulin (K, L), HbA1c (M, N), HOMA-IR (O, P), SBP (Q, R), and DBP (S, T).