**Supplementary Material 3. Results of mediation analysis between chronic periodontitis and the clinical variables for dementia**

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| **Clinical variables** | ***P*-valuefor interaction** | ***P*-valuefor ACME in clinical variable model (a)\*** | ***P*-valuefor ACME in chronic periodontitis model (b)\*** |
| Sex | 0.16 | 0.67 | 0.98 |
| Age | 0.99 | 0.74 | 0.98 |
| Hypertension | 0.71 | 0.27 | 0.99 |
| Diabetes | 0.27 | 0.76 | 0.97 |
| Dyslipidemia | 0.63 | 0.33 | 0.99 |
| Heart disease | 0.49 | 0.80 | 0.98 |
| Cerebrovascular disease | 0.50 | 0.86 | 0.93 |
| Depression | 0.34 | 0.85 | 0.95 |

ACME: average causal mediation effect

\*These mediation models were adjusted for age, sex, income level, hypertension, diabetes, dyslipidemia, heart disease, cerebrovascular disease, depression, smoking, alcohol consumption, regular exercise, Charlson Comorbidity Index, body mass index, blood pressure, fasting blood glucose and total cholesterol levels.