Appendix

Measuring burden of comorbidity for ischemic heart disease and four common non-communicable diseases in Iran, 1990-2017: An analysis of data from the Global Burden of Disease Study

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Based on the formula the sensitivity analysis was done:

\[ DW_C = DW_1 \beta_1 + DW_2 \beta_2 - DW_1 \beta_1 * DW_2 \beta_2 \quad (1) \]

In this calculation, \( \beta_1 \) and \( \beta_2 \) show how much the presence of disease one and two might change the DW of the other one. Any number more than one means that the added DW of the second disease in a patient with disease one would be more than the rule of multiplication.

\[ YLD = (P_1 - P_1 P_2 \rho) * DW_1 + (P_2 - P_1 P_2 \rho) * DW_2 + P_1 P_2 \rho * DW_C \quad (2) \]

Which

\( (P_1 - P_1 P_2 \rho) \) shows the prevalence of only disease one (the frequency of people who have only disease 1), and \( (P_2 - P_1 P_2 \rho) \) shows the prevalence of only disease two (the frequency of people who have only disease 2). Based on the presented concept, \( P_1 P_2 \rho \) is the prevalence of comorbidity of disease 1 and 2.
Table 1: Sensitivity analysis for parameter $\rho$ (multiplier for comorbidity prevalence)

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Table 3: Sensitivity analysis for parameter β₂ (multiplier for DW for comorbid condition)

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Footnote to Table 3

DWc = Disability weight for two diseases together; ρ = multiplier for prevalence of comorbidity; β1 = multiplier for IHD; β2 = multiplier for the comorbid condition; Pc (%) = prevalence (%) of comorbidity; Total YLDs = YLDs for both conditions adjusted for comorbidity; ComYLDs = YLDs due to comorbidity; %YLDs = proportion (%) of total YLDs attributed to comorbidity.

IHD = Ischemic heart disease; DM = diabetes mellitus; MDD = major depressive disorder; OA = osteoarthritis; IS = ischemic stroke