Title: Modeling the random effects covariance matrix for longitudinal data with covariates measurement error

Authors: Md Erfanul Hoque and Mahmoud Torabi

Emails: hoqueme@myumanitoba.ca
        Mahmoud.Torabi@umanitoba.ca
Software: R software, version: r/3.3.1

This is the Manitoba Follow-up Study (MFUS) data.
The data set name is: "Data_MFUS.txt"

Y= Hypertension status (HBP)

Z_{ij}= age at experiment (px_age)

Zistar= Ischaemic heasrt disease status (IHD_new)

W_{ij}= Body mass index (bmi)

VARIABLE NAME AND DESCRIPTIONS:

COL 01 -- ID = individual id number
COL 02 -- followup = follow-up number of each individual
COL 03 -- px_age = age at the time of experiment
COL 04 -- bmi = body mass index in each follow-up
COL 05 -- IHD_new = ischaemic heart disease status
COL 06 -- HBP = hypertension status

Code description:
The "Data Analysis code_Table3.R" will provide the results of Tables 5 and 6 in Application Section of the paper (Section 6.1.1). One needs to read the data file named "Data_MFUS.txt" and run the R code to get the outputs.