**Variable description**

COPDcaco = "COPD case/control, 0=control, 1=case"

gender = "Gender 0=male, 1=female"

agecat = "1=<51.3, 2=51.3-60.8, 3=60.8-66.1, 4=>66.1 years, quartiles"

atopy = '> 1 positive on specific IgE AND/OR Total IgE 01, >= 100 Ku/L'

farmchild = 'Farm childhood, 0=no, 1=yes”

klngmdcn = "Used lung medication during intake medical examination, 0=no, 1=yes"

COPDgold = "COPD grade, GOLD"

symptom = "0=no acute resp sympt, 1= cold/flu/allergic/resp symp during swab"

season = "1=winter(Dec-Feb), 2=spring (Mar-May), 3=summer (Jun-Aug), 4=Fall (Sep-Nov)"

antibiotics = "0= no recent ab intake, 1=ab intake during or 4 wk before swab";

farms\_500\_cat = "0= no farms, 1= 1 or 2 farms, 2= >2 farms at 500m, tertiles"

farms\_1000\_cat = "0= 0-16 farms, 1= >16 farms at 1km"

poultry1km = "0= nearest poultry at >1km, 1=poultry (250 or more) within 1km"