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# THE IMPACT OF COVID-19 PANDEMIC ON CARDIOVASCULAR DISEASES HOSPITALIZATION AND  
# MORTALITY IN SWITZERLAND  
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# Data Base = Hospital_Discharge_Data_2017_to_2020  
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#####  
# Annex 1  
#####  
  
#Simple linear regression for CVD admissions for the year 2020  
  LR_adm<- lm(CVD_adm_MD~Year, data=summ002)  
  
  predict(LR_adm, data.frame(Year=2020))  
  
#Simple linear regression for CVD admissions with interventions for the year 2020  
  LR_tot_proc <- lm(Tot_Proc~Year, data=summ002)  
  LR_ptca<- lm(PTCA~Year, data=summ002)  
  LR_cabg <- lm(CABG~Year, data=summ002)  
  LR_oth <- lm(OTH~Year, data=summ002)  
  
  predict(LR_tot_proc, data.frame(Year=2020))  
  predict(LR_ptca, data.frame(Year=2020))  
  predict(LR_cabg, data.frame(Year=2020))  
  predict(LR_oth, data.frame(Year=2020))  
  
#Simple linear regression for CVD deaths for the year 2020  
  LR_tot_mtl <- lm(Tot_MTL~Year, data=summ002)  
  LR_inhsp_mtl <- lm(InHsp_MTL~Year, data=summ002)  
  LR_outhsp_mtl <- lm(OutHsp_MTL~Year, data=summ002)
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predict(LR_tot_mtl, data.frame(Year=2020))  
predict(LR_inhsp_mtl, data.frame(Year=2020))  
predict(LR_outhsp_mtl, data.frame(Year=2020))
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