```
/*libname Y "C:\Users\user\Desktop\마파즈\kyrbs_2005-2022";*/
libname Y"C:\Users\user\OneDrive - 경희대학교\바탕 화면\마파즈\kyrbs_2005-2022";
run;


/* 라이브러리 Y에 있는 20년도, 21년도 파일을 이용해서 데이터 all이라는 이름으로 work
파일에 저장함 */
data Y.year_all;
set Y.Kyrbs2005 Y.Kyrbs2006 Y.Kyrbs2007 Y.Kyrbs2008 Y.Kyrbs2009 Y.Kyrbs2010
Y.Kyrbs2011 Y.Kyrbs2012 Y.Kyrbs2013 Y.Kyrbs2014 Y.Kyrbs2015 Y.Kyrbs2016
Y.Kyrbs2017 Y.Kyrbs2018 Y.Kyrbs2019 Y.Kyrbs2020 Y.Kyrbs2021 Y.Kyrbs2022;
run;

data Y.pop_all;
set Y.pop05  Y.pop06      Y.pop07      Y.pop08      Y.pop09      Y.pop10
      Y.pop11      Y.pop12      Y.pop13      Y.pop14      Y.pop15
      Y.pop16      Y.pop17      Y.pop18      Y.pop19      Y.pop20
      Y.pop21      Y.pop22;
run;

data year_all;
set y.year_all;
run;
data pop_all;
set y.pop_all;
run;

proc freq data=year_all;
table bmi;
run;

data new_all_2;
set year_all;
keep YEAR grade sex CTYPE HT WT E_SES TC_LT AC_DAYS M_STR M_SAD E_EDU_F
E_EDU_M E_S_RCRD RH_DG_LT ECZ_DG_LT AS_DG_LT M_SUI_CON M_SUI_ATT W CLUSTER
STRATA;
run;

*age계산;
data new_all_2; set new_all_2;
if grade=1 then age=13;
else if grade=2 then age=14;
else if grade=3 then age=15;
else if grade=4 then age=16;
else if grade=5 then age=17;
else if grade=6 then age=18;run;


/*CTYPE변수를 city라는 변수로 바꾸면서 명목화 시키기*/
data new_all_2;
set new_all_2;
if CTYPE="대도시" then city=1;
```

```
else if CTYPE="군지역" then city=2;
else if CTYPE="중소도시" then city=2;
run;

/* city 명목화 된게 잘 되었는지 확인하기*/
proc freq data=new_all_2;
table City;
run;

 /*알코올 섭취 일수 명목화*/
data new_all_2;
set new_all_2;
if AC_DAYS in (0 1 . 8888 9999) then alc=0;
else if AC_DAYS=2 then alc=1;
else if AC_DAYS=3 then alc=2;
else if AC_DAYS=4 then alc=3;
else if AC_DAYS in (5 6 7) then alc=4;
run;

 /*알코올 섭취 일수 제대로 명목화 되었는지 확인하기*/
proc freq data=new_all_2;
table alc;
run;

/* 키랑 몸무게를 이용해서 bmi 만들어주기*/
data new_all_2;
set new_all_2;
if bmi=. then bmi=(wt/(ht**2))*10000 ;
run;

/* bmi 변수를 bmi_2 변수로 연속형 변수에서 이산형 변수로 바꾸어주기*/
data new_all_2;
set new_all_2;
if  0< bmi <18.5 then bmi_2=1;
else if 18.5<= bmi < 23 then bmi_2=2;
else if 23<= bmi < 25 then bmi_2=3;
else if 25<= bmi then bmi_2=4;
else if bmi in (0 1 . 8888 9999) then bmi_2=0;
run;


/*bmi_2 변수가 제대로 잘 바뀌었는지 확인해주기*/
proc freq data=new_all_2;
table bmi_2;
run;


proc freq data=new_all_2;
table bmi_2;
run;
```

```
/*경제상태 명목화 시켜주기*/
data new_all_2;
set new_all_2;
if E_SES=1 then economic=4;
else if E_SES=2 then economic=3;
else if E_SES=3 then economic=2;
else if E_SES=4 then economic=1;
run;

/*경제상태 결측 확인하기*/
proc freq data=new_all_2;
table economic;
run;

/*경제상태 결측 해주기*/
data new_all_2;
set new_all_2;
if economic="" then delete;
else if economic = . then delete;
run;

/*경제상태 결측 확인하기*/
proc freq data=new_all_2;
table economic;
run;


/*grade를 학력으로  명목화 시켜주기 중1,2,3,은1로 하고 고1,2,3은 2로해주기*/
data new_all_2;
set new_all_2;
if grade in (1 2 3) then ed=1;
else if grade in (4 5 6) then ed=2;
run;

/*학력 명목화  확인하기*/
proc freq data=new_all_2;
table ed;
run;


/*학업성취도 명목화 시켜주기*/
data new_all_2;
set new_all_2;
if E_S_RCRD=1 then study=10;
else if E_S_RCRD=2 then study=9;
else if E_S_RCRD=3 then study=8;
else if E_S_RCRD=4 then study=7;
else if E_S_RCRD=5 then study=6;
run;

proc freq data=new_all_2; table study; run;
```

```
/*스트레스 인지율 명목화 시키기*/
data new_all_2;
set new_all_2;
if M_STR=1 then stress=9;
else if M_STR=2 then stress=8;
else if M_STR=3 then stress=7;
else if M_STR=4 then stress=6;
else if M_STR in (. 5) then stress=6;
run;

/*스트레스 인지율 명목화 잘 됐는지 확인*/
proc freq data=new_all_2;
table stress;
run;

proc freq data=new_all_2; table stress; run;


/*담배 명목화 시키는거*/
data new_all_2;
set new_all_2;
if TC_LT in (. 9999 1) then smoking=0;
else if TC_LT=2 then smoking=1;
run;

/*담배 명목화 잘 됐는지 확인*/
proc freq data=new_all_2;
table smoking;
run;



/*알러지 명목화 시킨거*/
data new_all_2;
set new_all_2;
if RH_DG_LT in (. 1) then allergy=0;
else if RH_DG_LT=2 then allergy=1;
run;

/*알러지 결측치 확인*/
proc freq data=new_all_2;
table allergy;
run;

/*아토피피부염 명목화 시킨거*/
data new_all_2;
set new_all_2;
if ECZ_DG_LT in (. 1) then derma=0;
else if ECZ_DG_LT=2 then derma=1;
run;
```

```
/*아토피피부염 결측치 확인*/
proc freq data=new_all_2;
table derma;
run;

/*천식 명목화 시킨거*/
data new_all_2;
set new_all_2;
if AS_DG_LT in (. 1) then asthma=0;
else if AS_DG_LT=2 then asthma=1;
run;

/*천식 결측치 확인*/
proc freq data=new_all_2;
table asthma;
run;

*알러지 아토피 천식 결측치 제거 안해주고 0으로 변경하기;

/*우울감  명목화*/
data new_all_2;
set new_all_2;
if M_SAD in (. 9999 1) then depression=0;
else if M_SAD=2 then depression=1;
run;

/*우울감  결측치 확인*/
proc freq data=new_all_2;
table depression;
run;


/*자살 생각 명목화*/
data new_all_2;
set new_all_2;
if M_SUI_CON in (. 1) then suicidalthinking=0;
else if M_SUI_CON=2 then suicidalthinking=1;
run;

/*자살 생각 명목화 n수 확인*/
proc freq data=new_all_2;
table suicidalthinking;
run;


/*자살 시도 명목화*/
data new_all_2;
set new_all_2;
if M_SUI_ATT in (. 9999 1) then suicideattempts=0;
else if M_SUI_ATT=2 then suicideattempts=1;
run;
```

```
/*자살 시도 명목화 n수 확인해주기*/
proc freq data=new_all_2;
table suicideattempts;
run;



/* 아빠 학력 명목화 시켜주기 (unknown이 많아서 unknown 살려야함)*/
data new_all_2;
set new_all_2;
if E_EDU_F=1 then eduf=1;
else if E_EDU_F=2 then eduf=2;
else if E_EDU_F=3 then eduf=3;
else if E_EDU_F=4 then eduf=4;
else eduf=4;
run;

/*아빠 학력 명목화 잘 되었는지 확인하기*/
proc freq data=new_all_2;
table eduf;
run;

/* 엄마 학력 명목화 시켜주기 (unknown이 많아서 unknown 살려야함)*/
data new_all_2;
set new_all_2;
if E_EDU_m=1 then edum=1;
else if E_EDU_m=2 then edum=2;
else if E_EDU_m=3 then edum=3;
else if E_EDU_m=4 then edum=4;
else edum=4;
run;

/*엄마 학력 명목화 잘 되었는지 확인하기*/
proc freq data=new_all_2;
table edum;
run;


/*엄마 아빠 학력 명목화 잘 되었는지 확인*/
proc freq data=new_all_2;
table eduf edum;
run;    *결과는 아빠 학력이 높은 사람이 더 많았음;


/*최고학력으로 바꿔주려면 명목화 모름을 1로 하고 순서대로  바꾸기*/
data new_all_2;
set new_all_2;
if E_EDU_F=1 then eduf=4;
```

```
else if E_EDU_F=2 then eduf=3;
else if E_EDU_F=3 then eduf=2;
else if E_EDU_F=4 then eduf=1;
else eduf=4;
run;


/*엄마 학력을 max로 해줘야해서 잘모름을 1로 하기*/
data new_all_2;
set new_all_2;
if E_EDU_m=1 then edum=4;
else if E_EDU_m=2 then edum=3;
else if E_EDU_m=3 then edum=2;
else if E_EDU_m=4 then edum=1;
else edum=4;
run;

/*엄마 아빠 학력 명목화 잘 되었는지 확인*/
proc freq data=new_all_2;
table eduf edum;
run;    *결과는 아빠 학력이 높은 사람이 더 많았음;



/*아빠 엄마 최고학력으로 바꾸기*/
data new_all_2;
   set new_all_2;
   if E_EDU_F > E_EDU_M then Max_Var = E_EDU_F;
   else Max_Var = E_EDU_M;
run;

/*엄마아빠 학력 합쳐서 아빠로 해줬는데 잘 되었는지 확인하기*/
proc freq data=new_all_2;
table Max_Var;
run;

/*Max_Var를 만들어줬으니까 부모님 학력 합침 epf라는 변수에 명목화 시켜주기*/
data new_all_2;
set new_all_2;
if Max_Var=1 then edp=4;
else if Max_Var=2 then edp=3;
else if Max_Var=3 then edp=2;
else if Max_Var in (. 9999 8888 4) then edp=1;
run;

/*결측치 확인*/
proc freq data=new_all_2;
table edp;
run;

/*결측치 제거*/
```

```
data new_all_2;
set new_all_2;
if edp="" then delete;
else if edp = . then delete;
run;

*new_all_2 까지는 변수들마다 조건에 맞게 명목화 시켜주고 결측치 처리해줬음;


*년도별 명목화 시켜줌;
*2005-2008 2009-2012 2013-2015 2016-2019 2020-2021 2022;
data new_all_3; set new_all_2;
if  2005<= year <2009 then year_2=1;
else if 2009<= year <2013 then year_2=2;
else if 2013<= year <2016 then year_2=3;
else if 2016<= year <2020 then year_2=4;
else if 2020<= year<2022 then year_2=5;
else if year=2022 then year_2=6;
run;




/*W는 결측 확인해주기*/
data allergy_test; set new_all_3;
run;

data allergy_test;
set new_all_3;
keep YEAR STRATA CLUSTER W SEX GRADE age city alc bmi bmi_2 economic ed study
stress smoking allergy derma      asthma depression suicidalthinking
suicideattempts edp year_2;
run;
proc freq data=allergy_test;
table bmi_2;
run;


/*음주 일수 bin*/
data allergy_test; set allergy_test;
if alc in (0 1 2) then alc_2 =0;
else if alc in (3 4) then alc_2=1;
run;

/*지역 bin*/
data allergy_test; set allergy_test;
if city in (1) then city_2 =0;
else if city in (2) then city_2=1;
run;

/*BMI bin*/
data allergy_test; set allergy_test;
if bmi_2 in (1 2) then bmi_bi =0;
```

```
else if bmi_2 in (3 4) then bmi_bi=1;
run;

/*가구소득 bin*/
data allergy_test; set allergy_test;
if economic in (1 2) then economic_2 =0;
else if economic in (3 4) then economic_2=1;
run;

/*학력 bin*/
data allergy_test; set allergy_test;
if ed in (1) then education =0;
else if ed in (2) then education=1;
run;

/*학업성취도 bin*/
data allergy_test; set allergy_test;
if study in (6 7) then study_2 =0;
else if study in (8 9 10) then study_2=1;
run;

/*스트레스 인지율 bin*/
data allergy_test; set allergy_test;
if stress in (6 7) then stress_2 =0;
else if stress in (8 9) then stress_2=1;
run;


/*흡연 여부 bin*/
data allergy_test; set allergy_test;
if smoking in (0) then smoking_2 =0;
else if smoking in (1) then smoking_2=1;
run;


/*알러지 bin*/
data allergy_test; set allergy_test;
if allergy in (0) then allergy_2 =0;
else if allergy in (1) then allergy_2=1;
run;

/*아토피피부염 bin*/
data allergy_test; set allergy_test;
if derma in (0) then derma_2 =0;
else if derma in (1) then derma_2=1;
run;

/*부모님 학력 bin*/
data allergy_test; set allergy_test;
if edp in (1 2) then parental_education =0;
else if edp in (3 4) then parental_education=1;
```

```
run;

/*우울감 bin*/
data allergy_test; set allergy_test;
if depression in (0) then depression_2 =0;
else if depression in (1) then depression_2=1;
run;

/*자살생각 bin*/
data allergy_test; set allergy_test;
if suicidalthinking in (0) then suicidalthinking_2 =0;
else if suicidalthinking in (1) then suicidalthinking_2=1;
run;

/*자살 시도 bin*/
data allergy_test; set allergy_test;
if suicideattempts in (0) then suicideattempts_2 =0;
else if suicideattempts in (1) then suicideattempts_2=1;
run;
/*
data allergy_test; set allergy_test;
w_all = w/18;
run;
*/
/*분석 여부 변수 생성*/
data allergy_test;
set allergy_test;
if age^=. or grade^=. or city^=. or bmi_bi^=. or study^=. or education^=. or
edp^=. or economic^=. or alc^=. or smoking^=. or stress=^. or depression=^.
or suicideattempts=^. or suicidalthinking^=. then aaa=1;
else aaa=0;
run;

/*table 2랑 table 3를 위한 변수 생성*/
/*관찰 항목과 derma랑 일치*/;
data allergy_test; set allergy_test; if aaa=1  and  derma=1 then AD=1; else if
aaa=1  and  derma=0 then AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and sex=1 and derma=1 then
sex1_AD=1; else if aaa=1 and sex=1 and derma=0 then sex1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and sex=2 and derma=1 then
sex2_AD=1; else if aaa=1 and sex=2 and derma=0 then sex2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and education=0 and  derma=1
then age1_AR=1; else if aaa=1 and education=0 and  derma=0 then age1_AR=0;
run;
data allergy_test; set allergy_test; if aaa=1 and education=1 and  derma=1
then age2_AR=1; else if aaa=1 and education=1 and  derma=0 then age2_AR=0;
run;
data allergy_test; set allergy_test; if aaa=1 and city_2=0 and  derma=1 then
region1_AD=1; else if aaa=1 and city_2=0 and  derma=0 then region1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and city_2=1 and  derma=1 then
region2_AD=1; else if aaa=1 and city_2=1 and  derma=0 then region2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and bmi_bi=0 and  derma=1 then
```

```
bmi1_AD=1; else if aaa=1 and bmi_bi=0 and  derma=0 then bmi1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and bmi_bi=1 and  derma=1 then
bmi2_AD=1; else if aaa=1 and bmi_bi=1 and  derma=0 then bmi2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and study_2=0 and  derma=1 then
study1_AD=1; else if aaa=1 and study_2=0 and  derma=0 then study1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and study_2=1 and  derma=1 then
study2_AD=1; else if aaa=1 and study_2=1 and  derma=0 then study2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and parental_education=0 and
derma=1 then parental_education1_AD=1; else if aaa=1 and parental_education=0
and  derma=0 then parental_education1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and parental_education=1 and
derma=1 then parental_education2_AD=1; else if aaa=1 and parental_education=1
and  derma=0 then parental_education2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and economic_2=0 and  derma=1
then economic1_AD=1; else if aaa=1 and economic_2=0 and  derma=0 then
economic1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and economic_2=1 and  derma=1
then economic2_AD=1; else if aaa=1 and economic_2=1 and  derma=0 then
economic2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and alc_2=0 and  derma=1 then
alc1_AD=1; else if aaa=1 and alc_2=0 and  derma=0 then alc1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and alc_2=1 and  derma=1 then
alc2_AD=1; else if aaa=1 and alc_2=1 and  derma=0 then alc2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and smoking_2=0 and  derma=1
then smoking1_AD=1; else if aaa=1 and smoking_2=0 and  derma=0 then
smoking1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and smoking_2=1 and  derma=1
then smoking2_AD=1; else if aaa=1 and smoking_2=1 and  derma=0 then
smoking2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and stress_2=0 and  derma=1 then
stress1_AD=1; else if aaa=1 and stress_2=0 and  derma=0 then stress1_AD=0;
run;
data allergy_test; set allergy_test; if aaa=1 and stress_2=1 and  derma=1 then
stress2_AD=1; else if aaa=1 and stress_2=1 and  derma=0 then stress2_AD=0;
run;
data allergy_test; set allergy_test; if aaa=1 and depression_2 =0 and  derma=1
then depression1_AD=1; else if aaa=1 and depression_2 =0 and  derma=0 then
depression1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and depression_2 =1 and  derma=1
then depression2_AD=1; else if aaa=1 and depression_2 =1 and  derma=0 then
depression2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and suicidalthinking_2=0 and
derma=1 then suicialthinking1_AD=1; else if aaa=1 and suicidalthinking_2=0
and  derma=0 then suicialthinking1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and suicidalthinking_2=1 and
derma=1 then suicialthinking2_AD=1; else if aaa=1 and suicidalthinking_2=1
and  derma=0 then suicialthinking2_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and suicideattempts_2=0 and
derma=1 then suicidalattempts1_AD=1; else if aaa=1 and suicideattempts_2=0
and  derma=0 then suicidalattempts1_AD=0; run;
data allergy_test; set allergy_test; if aaa=1 and suicideattempts_2=1 and
derma=1 then suicidalattempts2_AD=1; else if aaa=1 and suicideattempts_2=1
and  derma=0 then suicidalattempts2_AD=0; run;

proc freq data=allergy_test;
table bmi_bi;
```

```
run;
/*개별가중치*/
data new_allergy_test;
set allergy_test;
/*year_2=1*/
if year=2005 then wt_indi=(1/4)*w;
if year=2006 then wt_indi=(1/4)*w;
if year=2007 then wt_indi=(1/4)*w;
if year=2008 then wt_indi=(1/4)*w;
/*year_2=2*/
if year=2009 then wt_indi=(1/4)*w;
if year=2010 then wt_indi=(1/4)*w;
if year=2011 then wt_indi=(1/4)*w;
if year=2012 then wt_indi=(1/4)*w;
/*year_2=3*/
if year=2013 then wt_indi=(1/3)*w;
if year=2014 then wt_indi=(1/3)*w;
if year=2015 then wt_indi=(1/3)*w;
/*year_2=4*/
if year=2016 then wt_indi=(1/4)*w;
if year=2017 then wt_indi=(1/4)*w;
if year=2018 then wt_indi=(1/4)*w;
if year=2019 then wt_indi=(1/4)*w;
/*year_2=5*/
if year=2020 then wt_indi=(1/2)*w;
if year=2021 then wt_indi=(1/2)*w;
/*year_2=6*/
if year=2022 then wt_indi=1*w;
run;
/*전체년도  통합가중치*/
data new_allergy_test;
set new_allergy_test;
/*year_2=1*/
if year=2005 then wt_all=(1/4)*w;
if year=2006 then wt_all=(1/4)*w;
if year=2007 then wt_all=(1/4)*w;
if year=2008 then wt_all=(1/4)*w;
/*year_2=2*/
if year=2009 then wt_all=(1/4)*w;
if year=2010 then wt_all=(1/4)*w;
if year=2011 then wt_all=(1/4)*w;
if year=2012 then wt_all=(1/4)*w;
/*year_2=3*/
if year=2013 then wt_all=(1/3)*w;
if year=2014 then wt_all=(1/3)*w;
if year=2015 then wt_all=(1/3)*w;
/*year_2=4*/
if year=2016 then wt_all=(1/4)*w;
if year=2017 then wt_all=(1/4)*w;
if year=2018 then wt_all=(1/4)*w;
if year=2019 then wt_all=(1/4)*w;
/*year_2=5*/
if year=2020 then wt_all=(1/2)*w;
if year=2021 then wt_all=(1/2)*w;
```

```
/*year_2=6*/
if year=2022 then wt_all=1*w;
run;


/*Crude Table1 total*/
proc surveyfreq data=new_allergy_test
nomcar;
table
age
sex
GRADE
city
bmi_2
study
education
edp
economic
alc
smoking
stress
derma
depression
suicideattempts
suicidalthinking /cl row column;
run;

/*Crude Table1 detail (year group)*/
proc surveyfreq data=new_allergy_test
nomcar;
table
year_2
year_2*age
year_2*sex
year_2*GRADE
year_2*city
year_2*bmi_2
year_2*study
year_2*education
year_2*EDP
year_2*economic
year_2*alc
year_2*smoking
year_2*stress
year_2*derma
year_2*depression
year_2*suicideattempts
year_2*suicidalthinking /cl row column;
run;


/*Weighted Table1 total*/
/*weighted & crude 의 차이는 strata~weight까지의 문장 유무 차이*/
proc surveyfreq data=new_allergy_test
nomcar;
```

```
strata strata;
cluster year cluster;
weight wt_all;
table
age
sex
GRADE
city
bmi_2
study
edp
economic
alc
smoking
stress
derma
depression
suicideattempts
suicidalthinking /cl row column;
run;

/*Weighted Table1 detail (year group)*/
proc surveyfreq data=new_allergy_test
nomcar;
strata strata;
cluster year cluster;
weight wt_all;
table
year_2*age
year_2*sex
year_2*GRADE
year_2*city
year_2*bmi_2
year_2*study
year_2*EDP
year_2*economic
year_2*alc
year_2*smoking
year_2*stress
year_2*derma
year_2*depression
year_2*suicideattempts
year_2*suicidalthinking /cl row column;
run;



data before_pan19 before_pan19_2 during_pan19 while_pan19 period5 period6;
set new_allergy_test;
if year_2 in (1 2 3 4) then output before_pan19;
if year_2 in (1 2 3 4 5) then output before_pan19_2;
if year_2 in (4 5 6) then output during_pan19;
if year_2 in (5 6) then output while_pan19;
if year_2 in (5) then output period5;
if year_2 in (6) then output period6;
```

```
run;

proc freq data=before_pan19;
table ad;
run;

/*table2 베타값*/
/*Weighted Table2 시기별 AD 유병률 구하기*/

data pop_all;
set y.pop_all;
run;

proc surveyfreq data=new_allergy_test nomcar total=pop_all;
strata strata;
cluster year cluster;
weight wt_all;
table
year_2*AD
year_2*education*AD/* education 중딩 고딩? 이여서 나이라고 침*/
year_2*sex*AD
year_2*city_2*AD
year_2*bmi_bi*AD
year_2*study_2*AD
year_2*parental_education*AD
year_2*economic_2*AD
year_2*alc_2*AD
year_2*smoking_2*AD
year_2*stress_2*AD
year_2*depression_2*AD
year_2*suicideattempts_2*AD
year_2*suicidalthinking_2*AD /cl row column;
run;
/*prevalence 옆에 들어가는 베타값 산출 AD 05~19년도*/
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age1_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age2_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
```

```
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education1_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education2_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
```

```
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;

/*베타값 산출 AD 05~20년도*/
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age1_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age2_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education1_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education2_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc1_AD=year_2 / stb clparm ;
```

```
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19_2 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;

/*베타값 산출 AD 19~22년도*/
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age1_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL age2_AR=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL sex2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
```

```
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL region2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL bmi2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL study2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education1_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL parental_education2_AD=year_2
/ stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL economic2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL alc2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL smoking2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL stress2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL depression2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicialthinking2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
```

```
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts1_AD=year_2 /
stb clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts2_AD=year_2 /
stb clparm ;  RUN; ods graphics off;

/*베타값 산출 AD 20~22년도*/
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL sex1_AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL sex2_AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL age1_AR=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL age2_AR=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL region1_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL region2_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL bmi1_AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL bmi2_AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL study1_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL study2_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL parental_education1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL parental_education2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL economic1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL economic2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL alc1_AD=year_2 / stb clparm ;  RUN; ods
```

```
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL alc2_AD=year_2 / stb clparm ;  RUN; ods
graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL smoking1_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL smoking2_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL stress1_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL stress2_AD=year_2 / stb clparm ;  RUN;
ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL depression1_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL depression2_AD=year_2 / stb clparm ;
RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL suicialthinking1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL suicialthinking2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts1_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
PROC SURVEYreg DATA=while_pan19 NOMCAR total=pop_all; STRATA strata;  CLUSTER
year cluster;  WEIGHT wt_indi;  MODEL suicidalattempts2_AD=year_2 / stb
clparm ;  RUN; ods graphics off;
```

```
/*재유네집 베타값
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL both=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL m_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL w_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL u_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL r_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL a1_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL a2_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL e1_b=period_2 / stb clparm  ;  RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
```

```
WEIGHT wt_ind;  MODEL e2_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL i1_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=before_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL i2_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL both=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL m_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL w_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL u_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL r_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL a1_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL a2_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL e1_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL e2_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL i1_b=period_2 / stb clparm  ; RUN; ods graphics off;
PROC SURVEYreg DATA=during_pan19 NOMCAR;  STRATA kstrata;  CLUSTER PSU;
WEIGHT wt_ind;  MODEL i2_b=period_2 / stb clparm  ; RUN; ods graphics off;
*/
proc freq data=new_allergy_test; table sex1_AD;
run;

/*table3 risk factor 값 구하기*/

/*구하기 위한 전제 조건 1. overall 2. before covid 3. during covid*/
/*overall AD*/
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class sex (ref='1') / param=ref;
model AD (event='1')=sex; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class sex (ref='2') / param=ref;
model AD (event='1')=sex; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class education (ref='0') /
param=ref; model AD (event='1')=education; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class education (ref='1') /
param=ref; model AD (event='1')=education; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class city_2 (ref='0') /
param=ref; model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class city_2 (ref='1') /
param=ref; model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class bmi_bi (ref='0') /
param=ref; model AD (event='1')=bmi_bi; run;
```

```
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class bmi_bi (ref='1') /
param=ref; model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class study_2 (ref='0') /
param=ref; model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class study_2 (ref='1') /
param=ref; model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class parental_education
(ref='0') / param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class parental_education
(ref='1') / param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class economic_2 (ref='0') /
param=ref; model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class economic_2 (ref='1') /
param=ref; model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class alc_2 (ref='0') /
param=ref; model AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class alc_2 (ref='1') /
param=ref; model AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class smoking_2 (ref='0') /
param=ref; model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class smoking_2 (ref='1') /
param=ref; model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class stress_2 (ref='0') /
param=ref; model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class stress_2 (ref='1') /
param=ref; model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class depression_2 (ref='0') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class depression_2 (ref='1') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class suicidalthinking_2
(ref='0') / param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class suicidalthinking_2
(ref='1') / param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class suicideattempts_2
(ref='0') / param=ref; model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=new_allergy_test NOMCAR total=pop_all; STRATA
strata; CLUSTER year cluster; weight wt_all; class suicideattempts_2
```

```
(ref='1') / param=ref; model AD (event='1')=suicideattempts_2; run;


/*before AD*/
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='1') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='2') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='0') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='1') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='0') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='1') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='0') / param=ref;
model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='1') / param=ref;
model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='0') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='1') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='0') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='1') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='0') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='1') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='0') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='1') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='0') / param=ref;
model AD (event='1')=smoking_2; run;
```

```
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='1') / param=ref;
model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='0') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='1') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='0') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='1') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='0') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='1') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='0') /
param=ref; model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=before_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='1') /
param=ref; model AD (event='1')=suicideattempts_2; run;
```

```
/*during AD*/
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='1') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='2') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='0') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='1') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='0') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='1') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='0') / param=ref;
model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='1') / param=ref;
model AD (event='1')=bmi_bi; run;
```

```
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='0') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='1') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='0') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='1') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='0') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='1') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='0') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='1') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='0') / param=ref;
model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='1') / param=ref;
model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='0') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='1') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='0') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='1') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='0') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='1') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='0') /
param=ref; model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='1') /
param=ref; model AD (event='1')=suicideattempts_2; run;
```

```
/*table4 risk factor 값 구하기*/
/*구하기 위한 전제 조건 1. overall 2. before covid 3. during covid*/
/*overall AD*/
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='1') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class sex (ref='2') / param=ref; model
AD (event='1')=sex; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='0') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class education (ref='1') / param=ref;
model AD (event='1')=education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='0') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class city_2 (ref='1') / param=ref;
model AD (event='1')=city_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='0') / param=ref;
model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class bmi_bi (ref='1') / param=ref;
model AD (event='1')=bmi_bi; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='0') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class study_2 (ref='1') / param=ref;
model AD (event='1')=study_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='0') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class parental_education (ref='1') /
param=ref; model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='0') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class economic_2 (ref='1') / param=ref;
model AD (event='1')=economic_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='0') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class alc_2 (ref='1') / param=ref; model
AD (event='1')=alc_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='0') / param=ref;
model AD (event='1')=smoking_2; run;
```

```
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class smoking_2 (ref='1') / param=ref;
model AD (event='1')=smoking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='0') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class stress_2 (ref='1') / param=ref;
model AD (event='1')=stress_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='0') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class depression_2 (ref='1') /
param=ref; model AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='0') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicidalthinking_2 (ref='1') /
param=ref; model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='0') /
param=ref; model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=while_pan19 NOMCAR total=pop_all; STRATA strata;
CLUSTER year cluster; weight wt_all; class suicideattempts_2 (ref='1') /
param=ref; model AD (event='1')=suicideattempts_2; run;



/*before AD*/
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class sex (ref='1') / param=ref; model AD
(event='1')=sex; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class sex (ref='2') / param=ref; model AD
(event='1')=sex; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class education (ref='0') / param=ref; model AD
(event='1')=education; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class education (ref='1') / param=ref; model AD
(event='1')=education; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class city_2 (ref='0') / param=ref; model AD
(event='1')=city_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class city_2 (ref='1') / param=ref; model AD
(event='1')=city_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class bmi_bi (ref='0') / param=ref; model AD
(event='1')=bmi_bi; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class bmi_bi (ref='1') / param=ref; model AD
(event='1')=bmi_bi; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
```

```
year cluster; weight wt_all; class study_2 (ref='0') / param=ref; model AD
(event='1')=study_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class study_2 (ref='1') / param=ref; model AD
(event='1')=study_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class parental_education (ref='0') / param=ref;
model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class parental_education (ref='1') / param=ref;
model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class economic_2 (ref='0') / param=ref; model AD
(event='1')=economic_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class economic_2 (ref='1') / param=ref; model AD
(event='1')=economic_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class alc_2 (ref='0') / param=ref; model AD
(event='1')=alc_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class alc_2 (ref='1') / param=ref; model AD
(event='1')=alc_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class smoking_2 (ref='0') / param=ref; model AD
(event='1')=smoking_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class smoking_2 (ref='1') / param=ref; model AD
(event='1')=smoking_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class stress_2 (ref='0') / param=ref; model AD
(event='1')=stress_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class stress_2 (ref='1') / param=ref; model AD
(event='1')=stress_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class depression_2 (ref='0') / param=ref; model
AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class depression_2 (ref='1') / param=ref; model
AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicidalthinking_2 (ref='0') / param=ref;
model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicidalthinking_2 (ref='1') / param=ref;
model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicideattempts_2 (ref='0') / param=ref;
model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=period5 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicideattempts_2 (ref='1') / param=ref;
model AD (event='1')=suicideattempts_2; run;
```

```
/*during AD*/
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class sex (ref='1') / param=ref; model AD
(event='1')=sex; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class sex (ref='2') / param=ref; model AD
(event='1')=sex; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class education (ref='0') / param=ref; model AD
(event='1')=education; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class education (ref='1') / param=ref; model AD
(event='1')=education; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class city_2 (ref='0') / param=ref; model AD
(event='1')=city_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class city_2 (ref='1') / param=ref; model AD
(event='1')=city_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class bmi_bi (ref='0') / param=ref; model AD
(event='1')=bmi_bi; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class bmi_bi (ref='1') / param=ref; model AD
(event='1')=bmi_bi; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class study_2 (ref='0') / param=ref; model AD
(event='1')=study_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class study_2 (ref='1') / param=ref; model AD
(event='1')=study_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class parental_education (ref='0') / param=ref;
model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class parental_education (ref='1') / param=ref;
model AD (event='1')=parental_education; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class economic_2 (ref='0') / param=ref; model AD
(event='1')=economic_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class economic_2 (ref='1') / param=ref; model AD
(event='1')=economic_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class alc_2 (ref='0') / param=ref; model AD
(event='1')=alc_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class alc_2 (ref='1') / param=ref; model AD
(event='1')=alc_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class smoking_2 (ref='0') / param=ref; model AD
(event='1')=smoking_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class smoking_2 (ref='1') / param=ref; model AD
(event='1')=smoking_2; run;
```

```
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class stress_2 (ref='0') / param=ref; model AD
(event='1')=stress_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class stress_2 (ref='1') / param=ref; model AD
(event='1')=stress_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class depression_2 (ref='0') / param=ref; model
AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class depression_2 (ref='1') / param=ref; model
AD (event='1')=depression_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicidalthinking_2 (ref='0') / param=ref;
model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicidalthinking_2 (ref='1') / param=ref;
model AD (event='1')=suicidalthinking_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicideattempts_2 (ref='0') / param=ref;
model AD (event='1')=suicideattempts_2; run;
PROC SURVEYLogistic data=period6 NOMCAR total=pop_all; STRATA strata; CLUSTER
year cluster; weight wt_all; class suicideattempts_2 (ref='1') / param=ref;
model AD (event='1')=suicideattempts_2; run;
```

```
/*알러지 없는사람=0 알러지있는데 천식 아토피피부염 둘다 있는사람=1, 알러지있는데 천식
아토피피부염 둘다 없는사람=2 */;
data new_all_2; set new_all_2;
if allergy=1 then do;
       if asthma=1 or derma=1 then aad=1;
       else aad=2; end;
else aad=0; run;

/*확인해주기*/
proc freq data=new_all_2; table aad; run;
```

```
*all3부터는 내가 보고싶은 알러지,천식,우울증 관련 table1 값 분석하기;

/*drop문을 이용해서 내가 원하는 변수들을 제외한 필요없는 변수들을 제거해준다.예를들어
담배 , 우울감, 학업성취도 등등 이건 이미 리네임 해줬기 때문에 지워주기*/
data all_3;
set new_all_2;
drop CTYPE HT WT AC_DAYS E_S_RCRD E_SES E_EDU_F E_EDU_m M_STR bmi he_ht he_wt
Max_Var M_SAD TC_LT AS_DG_LT E_S_RCRD RH_DG_LT eduf edum all_2 M_SUI_ATT
```

```
M_SUI_CON add ECZ_DG_LT;
run;


/* 알러지 있는 사람과 없는 사람에 대한 table1 만들기 이전 정렬해주는 단계 proc survey
freq를 사용해주기 위해서는 먼저 정렬을 필수로 해주어야함*/
proc sort data=all_3;
by allergy; run;


/* 알러지 있는 사람과 없는 사람에 대한 table1 만들기*/
proc surveyfreq data=all_3;
by allergy;
table GRADE age sex study city pig economic smoking alc stress derma
depression ed edp suicideattempts suicidalthinking;
run;




/*table1 95%ci구해야 되는데 천식 있고 없고 기준으로 변수별로 상한값 구하기*/
proc surveyfreq data=all_3; table
allergy*GRADE/cl row column; run;
proc surveyfreq data=all_3; table
allergy*sex/cl row column; run;
proc surveyfreq data=all_3; table
allergy*city/cl row column; run;
proc surveyfreq data=all_3; table
allergy*pig/cl row column; run;
proc surveyfreq data=all_3; table
allergy*economic/cl row column; run;
proc surveyfreq data=all_3; table
allergy*smoking/cl row column; run;
proc surveyfreq data=all_3; table
allergy*alc/cl row column; run;
proc surveyfreq data=all_3; table
allergy*stress/cl row column; run;
proc surveyfreq data=all_3; table
allergy*asthma/cl row column; run;
proc surveyfreq data=all_3; table
allergy*study/cl row column; run;
proc surveyfreq data=all_3; table
allergy*derma/cl row column; run;
proc surveyfreq data=all_3; table
allergy*depression/cl row column; run;
proc surveyfreq data=all_3; table
allergy*ed/cl row column; run;
proc surveyfreq data=all_3; table
allergy*edp/cl row column; run;
proc surveyfreq data=all_3; table
allergy*suicidalthinking/cl row column; run;
proc surveyfreq data=all_3; table
```

```
allergy*suicideattempts/cl row column; run;


/*Age, mean (SD) total */
proc means data= all_3 mean stddev;  *평균값mean 표준편차값stddev 구할게;
var age; run;


/*Age, mean (SD) 알러지 있는 사람 기준으로 본것 */
proc means data= all_3 mean stddev; *평균값mean 표준편차값stddev 구할게;
var age;
class allergy; run;

/*총 n수 알러지 있는 사람 없는 사람 n수 확인하기*/
proc surveyfreq data=all_3;
by allergy;
table GRADE age sex study city pig economic smoking alc stress asthma derma
depression ed edp suicideattempts suicidalthinking;
run;

/*table2 구하는 or 질병은 우울감 요인은 알러지 이다. 알러지  아닌 사람 기준으로 알러지인
사람 우울감 or 보여주기*/
/*crude 우울감 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  depression (event='1')=allergy; *insurance는 거의 전체가 있으므로 모델에서
제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 우울감 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  depression (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 우울감 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  depression (event='1')=allergy sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
```

```
연속형 변수 둘다 포함;
run;
```

```
/*table2 구하는 or 질병은 우울감 요인은 알러지 이다. 알러지 아닌 사람 기준으로 (알러지인 있는데(천식 아토피피부염 있는 사람 같이) (알러지 있는데 천식이나 아토피 피부염 없는사람 그룹)우울감 or 보여주기*/
/*crude 우울감 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=aad; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 우울감 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 우울감 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;
```

```
/*table2 구하는 or 코드 질병은 자살생각  요인은 알러지이다. 알러지 아닌 사람 기준으로 알러지인 사람 자살생각 or 보여주기*/
/*crude 자살생각 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=allergy; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살생각 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살생각 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade pig ed edp smoking study alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;
```

```
/*table2 구하는 or 코드 질병은 자살생각 알러지 아닌 사람 기준으로 (알러지인 있는데(천식 아토피피부염 있는 사람 같이)  (알러지 있는데 천식이나 아토피 피부염 없는사람 그룹)우울감 or 보여주기*/
```

```
/*crude 자살생각 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=aad; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살생각 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살생각 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=aad sex grade pig ed edp smoking study alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;
```

```
/*table2 구하는 or 코드 질병은 자살시도  요인은 알러지이다. 알러지 아닌 사람 기준으로 알러지인 사람 자살시도 or 보여주기*/
/*crude 자살시도 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
```

```
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicideattempts (event='1')=allergy; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살시도 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicideattempts (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살시도 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicideattempts (event='1')=allergy sex grade pig ed edp smoking study alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;


/*table2 구하는 or 코드 질병은 자살시도 알러지 아닌 사람 기준으로 (알러지인 있는데(천식 아토피피부염 있는 사람 같이)  (알러지 있는데 천식이나 아토피 피부염 없는사람 그룹)우울감 or 보여주기*/
/*crude 자살시도 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;


/*table2 구하는 or 코드 질병은 자살시도  요인은 알러지이다. 알러지 아닌 사람 기준으로 알러지인 사람 자살시도 or 보여주기*/
/*crude 자살시도 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
```

```
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살시도 OR in model 1*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicideattempts (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*adjusted 자살시도 OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicideattempts (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
run;

/*table3 구하는 or*/
/*crude allergy 우울감 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
```

```
model  depression (event='1')=allergy ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=allergy ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=allergy ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;


/*table3 구하는 or*/
/*crude add 우울감 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  depression (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
```

```
run;



/*adjusted OR in model 1 allergy*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 1 aad*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
```

```
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  depression (event='1')=aad sex grade; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 2*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=allergy sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=allergy sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=allergy sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 2 aad */
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=aad sex grade pig ed edp smoking study alc;
```

```
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  depression (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;
```

```
/*table3 구하는 or*/
/*crude allergy 자살생각 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시 class 에 포함;
model  suicidalthinking (event='1')=allergy ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
```

```
class 에 포함;
model  suicidalthinking (event='1')=allergy ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  suicidalthinking (event='1')=allergy ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;


/*crude aad 자살생각 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class
에 포함;
model  suicidalthinking (event='1')=aad ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class
에 포함;
model  suicidalthinking (event='1')=aad ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class
에 포함;
model  suicidalthinking (event='1')=aad ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 1 allergy */
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
```

```
반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;
```

```
/*adjusted OR in model 1 aad */
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade; *insurance는 거의 전체가
```

```
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 2 allergy*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 2 aad*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
```

```
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicidalthinking (event='1')=aad sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain economic;
run;
```

```
/*table3 구하는 or*/
/*crude allergy 자살시도 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  suicideattempts (event='1')=allergy ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  suicideattempts (event='1')=allergy ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시
class 에 포함;
model  suicideattempts (event='1')=allergy ; *insurance는 거의 전체가 있으므로
모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
```

```
domain economic;
run;



/*crude aad 자살시도 OR*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0')  / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad ; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 1 allergy*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade; *insurance는 거의 전체가
```

```
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;


/*adjusted OR in model 1 aad*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade / param=ref;*covariate를 넣을 경우 범주형 변수는
반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade; *insurance는 거의 전체가
있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형, 연속형 변수 둘다 포함;
domain economic;
run;


/*adjusted OR in model 2 allergy*/
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain sex;
```

```
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class allergy (ref='0') sex grade pig ed edp smoking alc /
param=ref;*covariate를 넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=allergy sex grade pig ed edp smoking study
alc; *insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우
범주형, 연속형 변수 둘다 포함;
domain economic;
run;



/*adjusted OR in model 2 aad*/
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain sex;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain ed;
run;
PROC SURVEYLogistic data=all_3 nomcar;
class aad (ref='0') sex grade pig ed edp smoking alc / param=ref;*covariate를
넣을 경우 범주형 변수는 반드시  class 에 포함;
model  suicideattempts (event='1')=aad sex grade pig ed edp smoking study alc;
*insurance는 거의 전체가 있으므로 모델에서 제외함, model에 covariate를 넣을 경우 범주형,
연속형 변수 둘다 포함;
domain economic;
run;
```

```
data all2019 all2021;
set all_3;
if 2005 <= YEAR <= 2019 then output all2019;
if 2020 <= YEAR <= 2021 then output all2021;
run;

data Y.all2019;
set all2019;
run;

data Y.all2021;
set all2021;
run;

/*Y라이브러리에 지금까지 한거 저장해보리기*/
data Y.all_3;
set all_3;
run;
```