



```
1 .
2 . use "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER8E_ADPRSPROTDEM\
3 .
4 . **Main exposures of interest: LE8* infectionburden viralinfectionburden bacterialinfectionburden
5 . **Main outcomes of interest: Dementia and AD
6 . **Main covariates: AGE SEX RACE_ETHN (or Non_White) educationbr townsend householdincome householdsize
7 . **Main effect modifiers: sex and race
8 .
9 .
10 .
11 . capture drop zLE8*

12 . foreach x of varlist LE8* {
    2.     egen z`x'=std(`x') if sample_final==1
    3. }
(72 missing values generated)
(362 missing values generated)
(197 missing values generated)
(5,063 missing values generated)
(2,016 missing values generated)
(2,396 missing values generated)
(1 missing value generated)
(31 missing values generated)
(1 missing value generated)
(1 missing value generated)

13 .
14 .
15 .
16 . capture drop zLE8_LIFESTYLE

17 . capture drop zLE8_BIOLOGICAL

18 . egen zLE8_LIFESTYLE=std(LE8_LIFESTYLE) if sample_final==1

19 . egen zLE8_BIOLOGICAL=std(LE8_BIOLOGICAL) if sample_final==1
    (31 missing values generated)

20 .
21 .
22 . capture drop zLE8_LIFESTYLEinv

23 . capture drop zLE8_BIOLOGICALinv

24 . gen zLE8_LIFESTYLEinv=zLE8_LIFESTYLE*-1

25 . gen zLE8_BIOLOGICALinv=zLE8_BIOLOGICAL*-1

26 .
```

```
27 .
28 .
29 . capture drop zLE8_TOTALSCOREinv

30 . gen zLE8_TOTALSCOREinv=zLE8_TOTALSCORE*-1
    (1 missing value generated)

31 .
32 .
33 . capture drop AD_PGStert

34 . xtile AD_PGStert=AD_PGS if sample_final==1, nq(3)

35 .
36 .
37 . capture drop NonWhite

38 . gen NonWhite=.
    (40,139 missing values generated)

39 . replace NonWhite=RACE_ETHN
    (40,139 real changes made)

40 . recode NonWhite (0=0) (1=1) (2=1) (3=1)
    (1,423 changes made to NonWhite)

41 .
42 . capture drop LE8_TOTALSCOREtertinv

43 . gen LE8_TOTALSCOREtertinv=.
    (40,139 missing values generated)

44 . replace LE8_TOTALSCOREtertinv=1 if LE8_TOTALSCOREtert==3
    (13,311 real changes made)

45 . replace LE8_TOTALSCOREtertinv=2 if LE8_TOTALSCOREtert==2
    (12,856 real changes made)

46 . replace LE8_TOTALSCOREtertinv=3 if LE8_TOTALSCOREtert==1
    (13,971 real changes made)

47 .
48 .
49 . capture drop Agesq

50 . gen Agesq=AGE*AGE

51 .
52 . save, replace
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER8E_ADPRSPROTDEM\DAT
```

```

53 .
54 .
55 .
56 . *****AGE and SEX*****
57 .
58 . *****TABLE 1: OVERALL, BY SEX AND BY RACE *****
59 .
60 . ****OVERALL**
61 .
62 . foreach x1 of varlist AGE Agesq PC1-PC20 AD_PGS    {
      2.      mean `x1' if sample_final==1
      3. }

```

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| AGE | 60.85048 | .0275161 | 60.79654 | 60.90441 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-------|----------------|-----------------|----------------------|-----------------|
| Agesq | 3733.17 | 3.322327 | 3726.659 | 3739.682 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC1 | -1.902049 | .2687028 | -2.428713 | -1.375385 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC2 | 1.401258 | .1211092 | 1.163881 | 1.638635 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|----------------|----------------------|------------------|
| PC3 | -.172438 | .065218 | -.3002667 | -.0446093 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|----------------|----------------------|-----------------|
| PC4 | .1131923 | .052277 | .0107283 | .2156564 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|-----------------|
| PC5 | -.0549561 | .0379465 | -.1293321 | .0194198 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC6 | -.1344097 | .0207047 | -.1749914 | -.0938279 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC7 | .0467748 | .0250243 | -.0022735 | .0958231 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC8 | -.0830672 | .0225227 | -.1272123 | -.0389222 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC9 | .0984616 | .0223115 | .0547305 | .1421927 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC10 | .0179788 | .0201777 | -.0215699 | .0575276 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|----------------|
| PC11 | .1161172 | .0202848 | .0763585 | .155876 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC12 | .0240945 | .0187531 | -.0126621 | .0608511 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC13 | .0308531 | .0149811 | .0014899 | .0602163 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC14 | .0237796 | .0167293 | -.0090103 | .0565694 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC15 | .0189666 | .0164797 | -.0133339 | .0512672 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC16 | .0187892 | .0159408 | -.012455 | .0500335 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|----------------|
| PC17 | .0235781 | .0131809 | -.0022567 | .049413 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC18 | .0374299 | .0143479 | .0093076 | .0655521 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|------------------|-----------------|----------------------|-----------------|
| PC19 | -.0095422 | .0141069 | -.037192 | .0181077 |

Mean estimation Number of obs = **40,139**

| | Mean | Std. err. | [95% conf. interval] | |
|------|----------|-----------|----------------------|----------|
| PC20 | .0119912 | .0140367 | -.0155211 | .0395034 |

Mean estimation Number of obs = 40,139

| | Mean | Std. err. | [95% conf. interval] | |
|--------|----------|-----------|----------------------|----------|
| AD_PGS | .0647612 | .0050592 | .054845 | .0746775 |

```

63 .
64 .
65 .
66 . foreach x2 of varlist dem_diag ad_diag SEX NonWhite RACE_ETHN AD_PGStert {
    2.     prop `x2' if sample_final==1
    3. }

```

Proportion estimation Number of obs = 40,139

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|------------|-----------|-------------------------------|----------|
| dem_diag | | | | |
| 0 | .970926 | .0008386 | .9692365 | .9725254 |
| 1 | .029074 | .0008386 | .0274746 | .0307635 |

Proportion estimation Number of obs = 40,139

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|---------|------------|-----------|-------------------------------|----------|
| ad_diag | | | | |
| 0 | .9865717 | .0005745 | .9853978 | .9876524 |
| 1 | .0134283 | .0005745 | .0123476 | .0146022 |

Proportion estimation Number of obs = 40,139

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|-----|------------|-----------|-------------------------------|----------|
| SEX | | | | |
| 1 | .4625178 | .0024886 | .4576437 | .467399 |
| 2 | .5374822 | .0024886 | .532601 | .5423563 |

Proportion estimation Number of obs = 40,139

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|-----------------|-----------------|-------------------------------|-----------------|
| NonWhite | | | | |
| 0 | .9489026 | .0010991 | .9467049 | .9510143 |
| 1 | .0510974 | .0010991 | .0489857 | .0532951 |

Proportion estimation

Number of obs = **40,139**

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|-----------|-----------------|-----------------|-------------------------------|-----------------|
| RACE_ETHN | | | | |
| 0 | .9489026 | .0010991 | .9467049 | .9510143 |
| 1 | .0156456 | .0006194 | .0144768 | .0169072 |
| 2 | .015247 | .0006116 | .0140935 | .0164934 |
| 3 | .0202048 | .0007023 | .0188733 | .0216282 |

Proportion estimation

Number of obs = **40,139**

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|------------|-----------------|-----------------|-------------------------------|-----------------|
| AD_PGStert | | | | |
| 1 | .3333416 | .002353 | .3287459 | .3379693 |
| 2 | .3333416 | .002353 | .3287459 | .3379693 |
| 3 | .3333167 | .0023529 | .328721 | .3379443 |

```

67 .
68 .
69 . **Among Men**
70 .
71 . foreach x1 of varlist AGE Agesq PC1-PC20 AD_PGS {
    2.      mean `x1' if sample_final==1 & SEX==1
    3. }

```

Mean estimation

Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| AGE | 61.13478 | .0405994 | 61.05521 | 61.21436 |

Mean estimation

Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-------|-----------------|-----------------|----------------------|-----------------|
| Agesq | 3768.061 | 4.911475 | 3758.434 | 3777.688 |

Mean estimation

Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC1 | -2.563325 | .3781268 | -3.304489 | -1.822162 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC2 | 1.386196 | .1697053 | 1.053558 | 1.718834 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC3 | .1760519 | .0947731 | -.0097121 | .3618159 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC4 | .0664714 | .0788822 | -.0881449 | .2210878 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|----------------|
| PC5 | -.0529502 | .0555623 | -.1618573 | .055957 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC6 | -.2145441 | .0252743 | -.264084 | -.1650043 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|----------------|-----------------|----------------------|-----------------|
| PC7 | .199521 | .0378116 | .1254069 | .2736351 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|------------------|-----------------|----------------------|------------------|
| PC8 | -.1035829 | .0313396 | -.1650113 | -.0421545 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------------|-----------------|----------------------|-----------------|
| PC9 | .0867221 | .0328445 | .0223438 | .1511004 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC10 | .0325535 | .0320089 | -.0301868 | .0952939 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC11 | .1529098 | .0317384 | .0906996 | .2151201 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|----------------|
| PC12 | .0603712 | .0301658 | .0012434 | .119499 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC13 | .0238535 | .0178994 | -.0112309 | .0589379 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC14 | .0253703 | .0246185 | -.0228843 | .0736249 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|----------------|
| PC15 | .0681263 | .0235931 | .0218815 | .114371 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|------------------|-----------------|----------------------|-----------------|
| PC16 | -.0325366 | .0235954 | -.0787857 | .0137126 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC17 | .0003947 | .0189056 | -.036662 | .0374514 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC18 | .0491443 | .0210587 | .0078673 | .0904213 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|----------------|----------------------|-----------------|
| PC19 | -.003894 | .020741 | -.0445482 | .0367603 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC20 | .0242878 | .0206661 | -.0162197 | .0647952 |

Mean estimation Number of obs = **18,565**

| | Mean | Std. err. | [95% conf. interval] | |
|--------|-----------------|----------------|----------------------|-----------------|
| AD_PGS | .0721395 | .007491 | .0574564 | .0868226 |

```

72 .
73 .
74 .
75 . foreach x2 of varlist dem_diag ad_diag NonWhite RACE_ETHN AD_PGStert {
    2.     prop `x2' if sample_final==1 & SEX==1
    3. }

```

Proportion estimation Number of obs = **18,565**

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|------------|-----------|-------------------------------|----------|
| dem_diag | | | | |
| 0 | .9668193 | .0013145 | .9641438 | .9693015 |
| 1 | .0331807 | .0013145 | .0306985 | .0358562 |

Proportion estimation Number of obs = 18,565

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|---------|------------|-----------|-------------------------------|----------|
| ad_diag | | | | |
| 0 | .9865877 | .0008443 | .9848281 | .9881456 |
| 1 | .0134123 | .0008443 | .0118544 | .0151719 |

Proportion estimation Number of obs = 18,565

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|------------|-----------|-------------------------------|----------|
| NonWhite | | | | |
| 0 | .9493671 | .0016091 | .9461185 | .9524297 |
| 1 | .0506329 | .0016091 | .0475703 | .0538815 |

Proportion estimation Number of obs = 18,565

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|-----------|------------|-----------|-------------------------------|----------|
| RACE_ETHN | | | | |
| 0 | .9493671 | .0016091 | .9461185 | .9524297 |
| 1 | .0144896 | .000877 | .0128674 | .0163131 |
| 2 | .0175061 | .0009625 | .015716 | .019496 |
| 3 | .0186372 | .0009926 | .0167881 | .0206857 |

Proportion estimation Number of obs = 18,565

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|------------|------------|-----------|-------------------------------|----------|
| AD_PGStert | | | | |
| 1 | .3330999 | .0034592 | .3263545 | .3399144 |
| 2 | .3324535 | .0034575 | .3257116 | .3392648 |
| 3 | .3344465 | .0034626 | .3276941 | .3412675 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------|-----------|----------------------|-----------|
| PC6 | -.0654518 | .0317877 | -.127758 | -.0031456 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|-----|-----------|-----------|----------------------|-----------|
| PC7 | -.0846673 | .0332761 | -.149891 | -.0194436 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|-----|----------|-----------|----------------------|-----------|
| PC8 | -.065413 | .0320729 | -.1282782 | -.0025478 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|-----|----------|-----------|----------------------|----------|
| PC9 | .1085638 | .0304036 | .0489704 | .1681572 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|------|----------|-----------|----------------------|----------|
| PC10 | .0054369 | .025508 | -.0445607 | .0554345 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|------|----------|-----------|----------------------|----------|
| PC11 | .0844562 | .0260451 | .0334059 | .1355065 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------|-----------|----------------------|----------|
| PC12 | -.0071227 | .0233121 | -.052816 | .0385707 |

Mean estimation Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC13 | .0368764 | .0232304 | -.0086569 | .0824098 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC14 | .0224107 | .0228037 | -.0222863 | .0671077 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|------------------|-----------------|----------------------|-----------------|
| PC15 | -.0233365 | .0229727 | -.0683646 | .0216916 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|----------------|----------------------|-----------------|
| PC16 | .0629564 | .021614 | .0205914 | .1053214 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|----------------|-----------------|----------------------|-----------------|
| PC17 | .043528 | .0183494 | .0075619 | .0794942 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC18 | .0273493 | .0196016 | -.0110713 | .0657699 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|------------------|-----------------|----------------------|-----------------|
| PC19 | -.0144026 | .0192438 | -.0521218 | .0233166 |

Mean estimation Number of obs = **21,574**

| | Mean | Std. err. | [95% conf. interval] | |
|------|-----------------|-----------------|----------------------|-----------------|
| PC20 | .0014096 | .0191252 | -.0360772 | .0388964 |

Mean estimation

Number of obs = 21,574

| | Mean | Std. err. | [95% conf. interval] | |
|--------|---------|-----------|----------------------|----------|
| AD_PGS | .058412 | .006859 | .0449678 | .0718562 |

```

80 .
81 .
82 .
83 . foreach x2 of varlist dem_diag ad_diag NonWhite RACE_ETHN AD_PGStert {
      2.      prop `x2' if sample_final==1 & SEX==2
      3.
84 . }

```

Proportion estimation

Number of obs = 21,574

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|------------|-----------|-------------------------------|----------|
| dem_diag | | | | |
| 0 | .97446 | .0010741 | .9722681 | .9764828 |
| 1 | .02554 | .0010741 | .0235172 | .0277319 |

Proportion estimation

Number of obs = 21,574

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|---------|------------|-----------|-------------------------------|----------|
| ad_diag | | | | |
| 0 | .9865579 | .000784 | .9849313 | .9880111 |
| 1 | .0134421 | .000784 | .0119889 | .0150687 |

Proportion estimation

Number of obs = 21,574

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|----------|------------|-----------|-------------------------------|----------|
| NonWhite | | | | |
| 0 | .9485028 | .0015047 | .9454724 | .9513735 |
| 1 | .0514972 | .0015047 | .0486265 | .0545276 |

Proportion estimation

Number of obs = 21,574

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|-----------|------------|-----------|-------------------------------|----------|
| RACE_ETHN | | | | |
| 0 | .9485028 | .0015047 | .9454724 | .9513735 |
| 1 | .0166404 | .0008709 | .0150167 | .0184364 |
| 2 | .013303 | .00078 | .0118577 | .0149219 |
| 3 | .0215537 | .0009887 | .0196987 | .0235793 |

Proportion estimation

Number of obs = 21,574

| | Proportion | Std. err. | Logit [95% conf. interval] | |
|------------|------------|-----------|-------------------------------|----------|
| AD_PGStert | | | | |
| 1 | .3335496 | .00321 | .3272878 | .3398707 |
| 2 | .3341059 | .0032113 | .3278413 | .3404295 |
| 3 | .3323445 | .003207 | .3260886 | .3386601 |

```

85 .
86 .
87 . **Difference by sex**
88 .
89 .
90 . foreach x1 of varlist AGE Agesq PC1-PC20 AD_PGS {
    2.     reg `x1' SEX if sample_final==1
    3. }

```

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 2791.94952 | 1 | 2791.94952 | F(1, 40137) | = | 92.08 |
| Residual | 1217024.68 | 40,137 | 30.3217649 | Prob > F | = | 0.0000 |
| | | | | R-squared | = | 0.0023 |
| | | | | Adj R-squared | = | 0.0023 |
| Total | 1219816.63 | 40,138 | 30.3905682 | Root MSE | = | 5.5065 |

| AGE | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|--------|-------|----------------------|-----------|
| SEX | -.5289617 | .0551249 | -9.60 | 0.000 | -.6370078 | -.4209157 |
| _cons | 61.66375 | .0890987 | 692.08 | 0.000 | 61.48911 | 61.83838 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 42048800.7 | 1 | 42048800.7 | F(1, 40137) | = | 95.13 |
| Residual | 1.7741e+10 | 40,137 | 442011.962 | Prob > F | = | 0.0000 |
| | | | | R-squared | = | 0.0024 |
| | | | | Adj R-squared | = | 0.0023 |
| Total | 1.7783e+10 | 40,138 | 443048.556 | Root MSE | = | 664.84 |

| Agesq | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|--------|-------|----------------------|-----------|
| SEX | -64.91533 | 6.655604 | -9.75 | 0.000 | -77.96047 | -51.87019 |
| _cons | 3832.977 | 10.7575 | 356.31 | 0.000 | 3811.892 | 3854.061 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 15104.1638 | 1 | 15104.1638 | F(1, 40137) | = | 5.21 |
| Residual | 116308156 | 40,137 | 2897.77902 | Prob > F | = | 0.0224 |
| | | | | R-squared | = | 0.0001 |
| | | | | Adj R-squared | = | 0.0001 |
| Total | 116323261 | 40,138 | 2898.08313 | Root MSE | = | 53.831 |

| PC1 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|-----------|
| SEX | 1.230322 | .5388937 | 2.28 | 0.022 | .174078 | 2.286566 |
| _cons | -3.793647 | .8710174 | -4.36 | 0.000 | -5.500862 | -2.086433 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 7.8362207 | 1 | 7.8362207 | F(1, 40137) | = | 0.01 |
| Residual | 23630690.1 | 40,137 | 588.75078 | Prob > F | = | 0.9082 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 23630697.9 | 40,138 | 588.736307 | Root MSE | = | 24.264 |

| PC2 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|------|-------|----------------------|----------|
| SEX | .0280236 | .2429049 | 0.12 | 0.908 | -.4480755 | .5041227 |
| _cons | 1.358172 | .3926087 | 3.46 | 0.001 | .5886501 | 2.127694 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 4194.80042 | 1 | 4194.80042 | F(1, 40137) | = | 24.58 |
| Residual | 6848426.58 | 40,137 | 170.626269 | Prob > F | = | 0.0000 |
| | | | | R-squared | = | 0.0006 |
| | | | | Adj R-squared | = | 0.0006 |
| Total | 6852621.38 | 40,138 | 170.726528 | Root MSE | = | 13.062 |

| PC3 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|-----------|
| SEX | -.6483748 | .1307656 | -4.96 | 0.000 | -.9046783 | -.3920712 |
| _cons | .8244267 | .2113572 | 3.90 | 0.000 | .4101616 | 1.238692 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 75.3968342 | 1 | 75.3968342 | F(1, 40137) | = | 0.69 |
| Residual | 4402867.25 | 40,137 | 109.695972 | Prob > F | = | 0.4071 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 4402942.64 | 40,138 | 109.695118 | Root MSE | = | 10.474 |

| PC4 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | .0869255 | .1048494 | 0.83 | 0.407 | -.1185817 | .2924326 |
| _cons | -.020454 | .1694687 | -0.12 | 0.904 | -.3526166 | .3117086 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | .138985754 | 1 | .138985754 | F(1, 40137) | = | 0.00 |
| Residual | 2319877.21 | 40,137 | 57.7989687 | Prob > F | = | 0.9609 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 2319877.35 | 40,138 | 57.7975322 | Root MSE | = | 7.6026 |

| PC5 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0037321 | .076108 | -0.05 | 0.961 | -.1529056 | .1454414 |
| _cons | -.049218 | .1230139 | -0.40 | 0.689 | -.2903281 | .1918921 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 221.804073 | 1 | 221.804073 | F(1, 40137) | = | 12.89 |
| Residual | 690434.729 | 40,137 | 17.2019515 | Prob > F | = | 0.0003 |
| | | | | R-squared | = | 0.0003 |
| | | | | Adj R-squared | = | 0.0003 |
| Total | 690656.533 | 40,138 | 17.207049 | Root MSE | = | 4.1475 |

| PC6 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|------------------|-----------------|--------------|--------------|----------------------|------------------|
| SEX | .1490923 | .0415202 | 3.59 | 0.000 | .0677118 | .2304728 |
| _cons | -.3636364 | .0671094 | -5.42 | 0.000 | -.4951723 | -.2321005 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|-------------------|---------------|-------------------|---------------|---|---------------|
| Model | 805.88219 | 1 | 805.88219 | F(1, 40137) | = | 32.09 |
| Residual | 1008093.25 | 40,137 | 25.1163079 | Prob > F | = | 0.0000 |
| | | | | R-squared | = | 0.0008 |
| | | | | Adj R-squared | = | 0.0008 |
| Total | 1008899.13 | 40,138 | 25.1357599 | Root MSE | = | 5.0116 |

| PC7 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|------------------|-----------------|--------------|--------------|----------------------|-----------------|
| SEX | -.2841883 | .0501705 | -5.66 | 0.000 | -.3825237 | -.185853 |
| _cons | .4837094 | .0810909 | 5.97 | 0.000 | .3247693 | .6426494 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|-------------------|---------------|-------------------|---------------|---|----------------|
| Model | 14.5378452 | 1 | 14.5378452 | F(1, 40137) | = | 0.71 |
| Residual | 817253.681 | 40,137 | 20.3616035 | Prob > F | = | 0.3981 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 817268.219 | 40,138 | 20.3614584 | Root MSE | = | 4.5124 |

| PC8 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|------------------|-----------------|--------------|--------------|----------------------|-----------------|
| SEX | .0381699 | .0451727 | 0.84 | 0.398 | -.0503698 | .1267095 |
| _cons | -.1417527 | .073013 | -1.94 | 0.052 | -.2848599 | .0013544 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|-------------------|---------------|-------------------|---------------|---|----------------|
| Model | 4.7602766 | 1 | 4.7602766 | F(1, 40137) | = | 0.24 |
| Residual | 802006.862 | 40,137 | 19.9817341 | Prob > F | = | 0.6255 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 802011.623 | 40,138 | 19.9813549 | Root MSE | = | 4.4701 |

| PC9 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-----------------|-----------------|-------------|--------------|----------------------|-----------------|
| SEX | .0218417 | .0447494 | 0.49 | 0.625 | -.0658681 | .1095515 |
| _cons | .0648804 | .0723287 | 0.90 | 0.370 | -.0768856 | .2066463 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|-------------------|---------------|-------------------|---------------|---|----------------|
| Model | 7.33721363 | 1 | 7.33721363 | F(1, 40137) | = | 0.45 |
| Residual | 655934.315 | 40,137 | 16.3423852 | Prob > F | = | 0.5028 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 655941.652 | 40,138 | 16.3421609 | Root MSE | = | 4.0426 |

| PC10 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|------------------|-----------------|--------------|--------------|----------------------|-----------------|
| SEX | -.0271167 | .0404695 | -0.67 | 0.503 | -.1064379 | .0522046 |
| _cons | .0596702 | .0654112 | 0.91 | 0.362 | -.0685372 | .1878776 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 46.7576322 | 1 | 46.7576322 | F(1, 40137) | = | 2.83 |
| Residual | 662879.576 | 40,137 | 16.5154241 | Prob > F | = | 0.0925 |
| | | | | R-squared | = | 0.0001 |
| | | | | Adj R-squared | = | 0.0000 |
| Total | 662926.334 | 40,138 | 16.5161775 | Root MSE | = | 4.0639 |

| PC11 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0684537 | .0406832 | -1.68 | 0.092 | -.1481937 | .0112864 |
| _cons | .2213635 | .0657566 | 3.37 | 0.001 | .0924791 | .3502479 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 45.4556547 | 1 | 45.4556547 | F(1, 40137) | = | 3.22 |
| Residual | 566546.633 | 40,137 | 14.1153208 | Prob > F | = | 0.0727 |
| | | | | R-squared | = | 0.0001 |
| | | | | Adj R-squared | = | 0.0001 |
| Total | 566592.089 | 40,138 | 14.1161017 | Root MSE | = | 3.757 |

| PC12 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0674939 | .0376111 | -1.79 | 0.073 | -.1412125 | .0062247 |
| _cons | .1278651 | .060791 | 2.10 | 0.035 | .0087133 | .2470169 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 1.69229931 | 1 | 1.69229931 | F(1, 40137) | = | 0.19 |
| Residual | 361581.194 | 40,137 | 9.00867514 | Prob > F | = | 0.6647 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 361582.886 | 40,138 | 9.00849286 | Root MSE | = | 3.0014 |

| PC13 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|------|-------|----------------------|----------|
| SEX | .0130229 | .030047 | 0.43 | 0.665 | -.0458698 | .0719157 |
| _cons | .0108306 | .0485651 | 0.22 | 0.824 | -.0843582 | .1060194 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | .087404475 | 1 | .087404475 | F(1, 40137) | = | 0.01 |
| Residual | 450898.038 | 40,137 | 11.2339746 | Prob > F | = | 0.9297 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 450898.126 | 40,138 | 11.2336969 | Root MSE | = | 3.3517 |

| PC14 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0029596 | .0335534 | -0.09 | 0.930 | -.0687252 | .0628059 |
| _cons | .02833 | .0542327 | 0.52 | 0.601 | -.0779673 | .1346272 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 83.4733183 | 1 | 83.4733183 | F(1, 40137) | = | 7.66 |
| Residual | 437459.259 | 40,137 | 10.8991519 | Prob > F | = | 0.0057 |
| | | | | R-squared | = | 0.0002 |
| | | | | Adj R-squared | = | 0.0002 |
| Total | 437542.732 | 40,138 | 10.90096 | Root MSE | = | 3.3014 |

| PC15 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|-----------|
| SEX | -.0914628 | .0330496 | -2.77 | 0.006 | -.1562408 | -.0266847 |
| _cons | .159589 | .0534184 | 2.99 | 0.003 | .0548878 | .2642902 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 90.9917289 | 1 | 90.9917289 | F(1, 40137) | = | 8.92 |
| Residual | 409301.762 | 40,137 | 10.1976172 | Prob > F | = | 0.0028 |
| | | | | R-squared | = | 0.0002 |
| | | | | Adj R-squared | = | 0.0002 |
| Total | 409392.754 | 40,138 | 10.1996301 | Root MSE | = | 3.1934 |

| PC16 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | .095493 | .0319683 | 2.99 | 0.003 | .0328343 | .1581516 |
| _cons | -.1280295 | .0516706 | -2.48 | 0.013 | -.2293051 | -.026754 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 18.5645662 | 1 | 18.5645662 | F(1, 40137) | = | 2.66 |
| Residual | 279887.352 | 40,137 | 6.97330026 | Prob > F | = | 0.1028 |
| | | | | R-squared | = | 0.0001 |
| | | | | Adj R-squared | = | 0.0000 |
| Total | 279905.917 | 40,138 | 6.97358904 | Root MSE | = | 2.6407 |

| PC17 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | .0431333 | .0264356 | 1.63 | 0.103 | -.0086811 | .0949478 |
| _cons | -.0427386 | .0427281 | -1.00 | 0.317 | -.1264866 | .0410094 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 4.73996136 | 1 | 4.73996136 | F(1, 40137) | = | 0.57 |
| Residual | 331661.083 | 40,137 | 8.26322553 | Prob > F | = | 0.4488 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 331665.823 | 40,138 | 8.26313775 | Root MSE | = | 2.8746 |

| PC18 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.021795 | .028777 | -0.76 | 0.449 | -.0781986 | .0346085 |
| _cons | .0709394 | .0465124 | 1.53 | 0.127 | -.0202261 | .1621048 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 1.10192729 | 1 | 1.10192729 | F(1, 40137) | = | 0.14 |
| Residual | 320614.683 | 40,137 | 7.98800815 | Prob > F | = | 0.7103 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 320615.785 | 40,138 | 7.98783659 | Root MSE | = | 2.8263 |

| PC19 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0105087 | .0282937 | -0.37 | 0.710 | -.065965 | .0449477 |
| _cons | .0066147 | .0457313 | 0.14 | 0.885 | -.0830197 | .0962491 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|---------|
| Model | 5.22277322 | 1 | 5.22277322 | F(1, 40137) | = | 0.66 |
| Residual | 317428.123 | 40,137 | 7.90861608 | Prob > F | = | 0.4164 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | -0.0000 |
| Total | 317433.346 | 40,138 | 7.90854916 | Root MSE | = | 2.8122 |

| PC20 | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|-------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0228782 | .0281527 | -0.81 | 0.416 | -.0780582 | .0323019 |
| _cons | .0471659 | .0455035 | 1.04 | 0.300 | -.0420219 | .1363538 |

| Source | SS | df | MS | Number of obs | = | 40,139 |
|----------|------------|--------|------------|---------------|---|--------|
| Model | 1.88036166 | 1 | 1.88036166 | F(1, 40137) | = | 1.83 |
| Residual | 41235.7297 | 40,137 | 1.02737449 | Prob > F | = | 0.1761 |
| | | | | R-squared | = | 0.0000 |
| | | | | Adj R-squared | = | 0.0000 |
| Total | 41237.6101 | 40,138 | 1.02739574 | Root MSE | = | 1.0136 |

| AD_PGS | Coefficient | Std. err. | t | P> t | [95% conf. interval] | |
|--------|-------------|-----------|-------|-------|----------------------|----------|
| SEX | -.0137275 | .0101469 | -1.35 | 0.176 | -.0336157 | .0061607 |
| _cons | .085867 | .0164006 | 5.24 | 0.000 | .0537215 | .1180125 |

```

91 .
92 .
93 .
94 . foreach x2 of varlist dem_diag ad_diag NonWhite RACE_ETHN AD_PGStert {
95 .     2.      mlogit `x2' SEX if sample_final==1
96 .     3.
97 . }

```

Iteration 0: Log likelihood = -5278.6119
Iteration 1: Log likelihood = -5268.3727
Iteration 2: Log likelihood = -5268.3305
Iteration 3: Log likelihood = -5268.3305

Multinomial logistic regression
Log likelihood = -5268.3305
Number of obs = 40,139
LR chi2(1) = 20.56
Prob > chi2 = 0.0000
Pseudo R2 = 0.0019

| dem_diag | Coefficient | Std. err. | z | P> z | [95% conf. interval] | |
|----------|----------------|-----------|--------|-------|----------------------|-----------|
| 0 | (base outcome) | | | | | |
| 1 | | | | | | |
| SEX | -.2695948 | .0595108 | -4.53 | 0.000 | -.3862339 | -.1529557 |
| _cons | -3.102448 | .0926219 | -33.50 | 0.000 | -3.283983 | -2.920912 |

Iteration 0: Log likelihood = -2858.664
Iteration 1: Log likelihood = -2858.6636
Iteration 2: Log likelihood = -2858.6636

Multinomial logistic regression

Number of obs = **40,139**LR chi2(1) = **0.00**Prob > chi2 = **0.9794**Pseudo R2 = **0.0000**Log likelihood = **-2858.6636**

| ad_diag | Coefficient | Std. err. | z | P> z | [95% conf. interval] | |
|---------|----------------|-----------|--------|-------|----------------------|-----------|
| 0 | (base outcome) | | | | | |
| 1 | | | | | | |
| SEX | .0022474 | .0869823 | 0.03 | 0.979 | -.1682348 | .1727296 |
| _cons | -4.300325 | .1406339 | -30.58 | 0.000 | -4.575962 | -4.024687 |

Iteration 0: Log likelihood = **-8097.4005**Iteration 1: Log likelihood = **-8097.3236**Iteration 2: Log likelihood = **-8097.3236**

Multinomial logistic regression

Number of obs = **40,139**LR chi2(1) = **0.15**Prob > chi2 = **0.6949**Pseudo R2 = **0.0000**Log likelihood = **-8097.3236**

| NonWhite | Coefficient | Std. err. | z | P> z | [95% conf. interval] | |
|----------|----------------|-----------|--------|-------|----------------------|-----------|
| 0 | (base outcome) | | | | | |
| 1 | | | | | | |
| SEX | .0178359 | .045492 | 0.39 | 0.695 | -.0713269 | .1069987 |
| _cons | -2.94903 | .0736969 | -40.02 | 0.000 | -3.093473 | -2.804586 |

Iteration 0: Log likelihood = **-10333.245**Iteration 1: Log likelihood = **-10323.923**Iteration 2: Log likelihood = **-10323.891**Iteration 3: Log likelihood = **-10323.891**

Multinomial logistic regression

Number of obs = **40,139**LR chi2(3) = **18.71**Prob > chi2 = **0.0003**Pseudo R2 = **0.0009**Log likelihood = **-10323.891**

| RACE_ETHN | Coefficient | Std. err. | z | P> z | [95% conf. interval] | |
|-----------|----------------|-----------|--------|-------|----------------------|-----------|
| 0 | (base outcome) | | | | | |
| 1 | | | | | | |
| SEX | .139311 | .0812933 | 1.71 | 0.087 | -.0200209 | .2986428 |
| _cons | -4.321673 | .1339075 | -32.27 | 0.000 | -4.584127 | -4.059219 |
| 2 | | | | | | |
| SEX | -.273643 | .0816508 | -3.35 | 0.001 | -.4336756 | -.1136104 |
| _cons | -3.719605 | .126759 | -29.34 | 0.000 | -3.968048 | -3.471162 |
| 3 | | | | | | |
| SEX | .1462986 | .0717378 | 2.04 | 0.041 | .005695 | .2869022 |
| _cons | -4.076933 | .1182669 | -34.47 | 0.000 | -4.308732 | -3.845135 |

Iteration 0: Log likelihood = **-44097.199**
 Iteration 1: Log likelihood = **-44097.089**
 Iteration 2: Log likelihood = **-44097.089**

Multinomial logistic regression

Number of obs = **40,139**
 LR chi2(2) = **0.22**
 Prob > chi2 = **0.8958**
 Pseudo R2 = **0.0000**

Log likelihood = **-44097.089**

| AD_PGStert | Coefficient | Std. err. | z | P> z | [95% conf. interval] | |
|------------|----------------|-----------|-------|-------|----------------------|----------|
| 1 | (base outcome) | | | | | |
| 2 | | | | | | |
| SEX | .0036086 | .0245241 | 0.15 | 0.883 | -.0444577 | .0516749 |
| _cons | -.005551 | .0396563 | -0.14 | 0.889 | -.0832758 | .0721739 |
| 3 | | | | | | |
| SEX | -.0076542 | .0245194 | -0.31 | 0.755 | -.0557113 | .0404029 |
| _cons | .0116887 | .0396168 | 0.30 | 0.768 | -.0659588 | .0893363 |

```

96 .
97 .
98 . save, replace
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER8E_ADPRSPROTDEM\DAT
99 .
100 .
101 .
102 . capture log close
    
```