1. **Extract from stata log for f\_psnenub\_lw**

/\*modelling enumeration nonresponse among enumerated in prev wave \*/

. xi: stepwise, pr(.01): logistic enum${n} $ivs1\_1 ${w1}hhc\_\* /\*

> \*/ if ${w1}\_psnenub\_lw!=0 & ${w1}\_psnenub\_lw!=. // this is conditional on enumeration in the prev wave

i.ehh\_livpar \_Iehh\_livpa\_1-2 (naturally coded; \_Iehh\_livpa\_1 omitted)

i.ehh\_siblings \_Iehh\_sibli\_1-2 (naturally coded; \_Iehh\_sibli\_1 omitted)

i.ehh\_hhsize \_Iehh\_hhsiz\_2-5 (naturally coded; \_Iehh\_hhsiz\_2 omitted)

i.ehh\_origadd \_Iehh\_origa\_1-2 (naturally coded; \_Iehh\_origa\_1 omitted)

i.ehh\_hsownd \_Iehh\_hsown\_1-3 (naturally coded; \_Iehh\_hsown\_1 omitted)

i.ehh\_fuelhave2 \_Iehh\_fuelh\_0-1 (naturally coded; \_Iehh\_fuelh\_0 omitted)

i.ehh\_heatch \_Iehh\_heatc\_1-2 (naturally coded; \_Iehh\_heatc\_1 omitted)

i.ehh\_xphsdb \_Iehh\_xphsd\_0-1 (naturally coded; \_Iehh\_xphsd\_0 omitted)

i.ehh\_xphsdba \_Iehh\_xphsda0-1 (naturally coded; \_Iehh\_xphsda0 omitted)

i.ehh\_pcnet \_Iehh\_pcnet\_0-1 (naturally coded; \_Iehh\_pcnet\_0 omitted)

i.ehh\_xpfdout~3 \_Iehh\_xpfdo\_0-2 (naturally coded; \_Iehh\_xpfdo\_0 omitted)

i.ehh\_xpaltob~3 \_Iehh\_xpalt\_0-2 (naturally coded; \_Iehh\_xpalt\_0 omitted)

i.ehh\_ncars \_Iehh\_ncars\_0-3 (naturally coded; \_Iehh\_ncars\_0 omitted)

i.ehh\_sex \_Iehh\_sex\_1-2 (naturally coded; \_Iehh\_sex\_1 omitted)

i.ehh\_marstat \_Iehh\_marst\_1-4 (naturally coded; \_Iehh\_marst\_1 omitted)

i.ehh\_employ \_Iehh\_emplo\_1-2 (naturally coded; \_Iehh\_emplo\_1 omitted)

i.ehh\_gor\_dv \_Iehh\_gor\_d\_1-12 (naturally coded; \_Iehh\_gor\_d\_1 omitted)

i.ehh\_dvage \_Iehh\_dvage\_0-3 (naturally coded; \_Iehh\_dvage\_0 omitted)

 begin with full model

p = 0.9124 >= 0.0100 removing \_Iehh\_sibli\_2

p = 0.9034 >= 0.0100 removing \_Iehh\_hsown\_2

p = 0.8579 >= 0.0100 removing \_Iehh\_sex\_2

p = 0.8511 >= 0.0100 removing \_Iehh\_gor\_d\_4

p = 0.6879 >= 0.0100 removing \_Iehh\_gor\_d\_7

p = 0.5312 >= 0.0100 removing \_Iehh\_dvage\_1

p = 0.5191 >= 0.0100 removing \_Iehh\_hhsiz\_4

p = 0.3816 >= 0.0100 removing \_Iehh\_gor\_d\_9

p = 0.4183 >= 0.0100 removing \_Iehh\_ncars\_2

p = 0.3947 >= 0.0100 removing \_Iehh\_gor\_d\_6

p = 0.2744 >= 0.0100 removing \_Iehh\_xpfdo\_2

p = 0.2973 >= 0.0100 removing \_Iehh\_marst\_3

p = 0.3215 >= 0.0100 removing \_Iehh\_marst\_2

p = 0.2387 >= 0.0100 removing \_Iehh\_heatc\_2

p = 0.2267 >= 0.0100 removing \_Iehh\_gor\_d\_11

p = 0.2172 >= 0.0100 removing \_Iehh\_ncars\_3

p = 0.2176 >= 0.0100 removing \_Iehh\_xpfdo\_1

p = 0.1603 >= 0.0100 removing \_Iehh\_origa\_2

p = 0.1091 >= 0.0100 removing \_Iehh\_xphsd\_1

p = 0.0730 >= 0.0100 removing \_Iehh\_pcnet\_1

p = 0.0487 >= 0.0100 removing \_Iehh\_dvage\_3

p = 0.0426 >= 0.0100 removing \_Iehh\_xpalt\_1

p = 0.0882 >= 0.0100 removing \_Iehh\_xpalt\_2

p = 0.0195 >= 0.0100 removing \_Iehh\_hhsiz\_3

p = 0.0366 >= 0.0100 removing \_Iehh\_hhsiz\_5

p = 0.0116 >= 0.0100 removing \_Iehh\_marst\_4

Logistic regression Number of obs = 48,212

 LR chi2(11) = 473.30

 Prob > chi2 = 0.0000

Log likelihood = -17577.802 Pseudo R2 = 0.0133

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 enum6 | Odds Ratio Std. Err. z P>|z| [95% Conf. Interval]

---------------+----------------------------------------------------------------

 \_Iehh\_livpa\_2 | 1.184439 .0426885 4.70 0.000 1.103658 1.271133

ehhc\_amenities | 1.040551 .0061917 6.68 0.000 1.028486 1.052757

\_Iehh\_gor\_d\_12 | .6163443 .0322998 -9.23 0.000 .5561806 .6830162

 \_Iehh\_dvage\_2 | .7153936 .0273779 -8.75 0.000 .6636969 .771117

 \_Iehh\_ncars\_1 | 1.085496 .0313643 2.84 0.005 1.025731 1.148742

 \_Iehh\_emplo\_2 | 1.103112 .0353417 3.06 0.002 1.035974 1.174602

 ehhc\_hsrooms | 1.09969 .0320521 3.26 0.001 1.03863 1.16434

 \_Iehh\_hsown\_3 | .7953855 .0259299 -7.02 0.000 .7461534 .847866

 \_Iehh\_fuelh\_1 | .8630143 .0381239 -3.33 0.001 .7914362 .941066

 \_Iehh\_xphsda1 | .856541 .0492437 -2.69 0.007 .7652642 .9587048

\_Iehh\_gor\_d\_10 | .8620452 .0460325 -2.78 0.005 .7763841 .9571577

 \_cons | 5.195673 .4646464 18.43 0.000 4.36033 6.191051

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1. **Extract from stata log for f\_indpxub\_lw**

. xi: stepwise, pr(.01): logistic proxy${n} $ivs1\_1 ${w1}hhc\_\* /\*

> \*/ if ${w1}\_indpxub\_lw!=0 & ${w1}\_indpxub\_lw!=. // this is conditional on proxy in the prev waves

i.ehh\_livpar \_Iehh\_livpa\_1-2 (naturally coded; \_Iehh\_livpa\_1 omitted)

i.ehh\_siblings \_Iehh\_sibli\_1-2 (naturally coded; \_Iehh\_sibli\_1 omitted)

i.ehh\_hhsize \_Iehh\_hhsiz\_1-5 (naturally coded; \_Iehh\_hhsiz\_1 omitted)

i.ehh\_origadd \_Iehh\_origa\_1-2 (naturally coded; \_Iehh\_origa\_1 omitted)

i.ehh\_hsownd \_Iehh\_hsown\_1-3 (naturally coded; \_Iehh\_hsown\_1 omitted)

i.ehh\_fuelhave2 \_Iehh\_fuelh\_0-1 (naturally coded; \_Iehh\_fuelh\_0 omitted)

i.ehh\_heatch \_Iehh\_heatc\_1-2 (naturally coded; \_Iehh\_heatc\_1 omitted)

i.ehh\_xphsdb \_Iehh\_xphsd\_0-1 (naturally coded; \_Iehh\_xphsd\_0 omitted)

i.ehh\_xphsdba \_Iehh\_xphsda0-1 (naturally coded; \_Iehh\_xphsda0 omitted)

i.ehh\_pcnet \_Iehh\_pcnet\_0-1 (naturally coded; \_Iehh\_pcnet\_0 omitted)

i.ehh\_xpfdout~3 \_Iehh\_xpfdo\_0-2 (naturally coded; \_Iehh\_xpfdo\_0 omitted)

i.ehh\_xpaltob~3 \_Iehh\_xpalt\_0-2 (naturally coded; \_Iehh\_xpalt\_0 omitted)

i.ehh\_ncars \_Iehh\_ncars\_0-3 (naturally coded; \_Iehh\_ncars\_0 omitted)

i.ehh\_sex \_Iehh\_sex\_1-2 (naturally coded; \_Iehh\_sex\_1 omitted)

i.ehh\_marstat \_Iehh\_marst\_1-4 (naturally coded; \_Iehh\_marst\_1 omitted)

i.ehh\_employ \_Iehh\_emplo\_1-2 (naturally coded; \_Iehh\_emplo\_1 omitted)

i.ehh\_gor\_dv \_Iehh\_gor\_d\_1-12 (naturally coded; \_Iehh\_gor\_d\_1 omitted)

i.ehh\_dvage \_Iehh\_dvage\_0-3 (naturally coded; \_Iehh\_dvage\_0 omitted)

i.epx\_sf1 \_Iepx\_sf1\_1-5 (naturally coded; \_Iepx\_sf1\_1 omitted)

i.epx\_health \_Iepx\_healt\_1-2 (naturally coded; \_Iepx\_healt\_1 omitted)

i.epx\_hiqual\_dv \_Iepx\_hiqua\_1-9 (naturally coded; \_Iepx\_hiqua\_1 omitted)

i.epx\_fimngrs~v \_Iepx\_fimng\_1-4 (naturally coded; \_Iepx\_fimng\_1 omitted)

i.epx\_spouse \_Iepx\_spous\_0-2 (naturally coded; \_Iepx\_spous\_0 omitted)

i.epx\_nchild\_dv \_Iepx\_nchil\_0-3 (naturally coded; \_Iepx\_nchil\_0 omitted)

i.epx\_nunmpsp~v \_Iepx\_nunmp\_0-1 (naturally coded; \_Iepx\_nunmp\_0 omitted)

i.epx\_urban\_dv \_Iepx\_urban\_1-2 (naturally coded; \_Iepx\_urban\_1 omitted)

i.epx\_racel\_dv \_Iepx\_racel\_1-3 (naturally coded; \_Iepx\_racel\_1 omitted)

i.epx\_caruse \_Iepx\_carus\_0-1 (naturally coded; \_Iepx\_carus\_0 omitted)

i.epx\_mobuse \_Iepx\_mobus\_1-2 (naturally coded; \_Iepx\_mobus\_1 omitted)

 begin with full model

p = 0.9862 >= 0.0100 removing \_Iehh\_hhsiz\_4

p = 0.9559 >= 0.0100 removing \_Iehh\_gor\_d\_7

p = 0.8622 >= 0.0100 removing \_Iepx\_fimng\_2

p = 0.8457 >= 0.0100 removing \_Iepx\_spous\_2

p = 0.7843 >= 0.0100 removing \_Iehh\_hsown\_2

p = 0.7665 >= 0.0100 removing \_Iepx\_nchil\_2

p = 0.7446 >= 0.0100 removing \_Iehh\_ncars\_3

p = 0.7480 >= 0.0100 removing \_Iepx\_nchil\_3

p = 0.7233 >= 0.0100 removing \_Iehh\_xpalt\_1

p = 0.6393 >= 0.0100 removing \_Iehh\_xpalt\_2

p = 0.6057 >= 0.0100 removing \_Iehh\_origa\_2

p = 0.5846 >= 0.0100 removing \_Iehh\_gor\_d\_4

p = 0.5185 >= 0.0100 removing \_Iehh\_sex\_2

p = 0.5549 >= 0.0100 removing \_Iehh\_marst\_4

p = 0.4631 >= 0.0100 removing \_Iehh\_marst\_2

p = 0.4584 >= 0.0100 removing \_Iepx\_nchil\_1

p = 0.4128 >= 0.0100 removing \_Iehh\_xpfdo\_2

p = 0.3734 >= 0.0100 removing \_Iepx\_sf1\_4

p = 0.3213 >= 0.0100 removing \_Iehh\_gor\_d\_9

p = 0.2792 >= 0.0100 removing \_Iehh\_gor\_d\_11

p = 0.2485 >= 0.0100 removing \_Iehh\_pcnet\_1

p = 0.2379 >= 0.0100 removing \_Iehh\_sibli\_2

p = 0.2344 >= 0.0100 removing \_Iepx\_carus\_1

p = 0.2389 >= 0.0100 removing \_Iepx\_racel\_2

p = 0.1721 >= 0.0100 removing \_Iehh\_ncars\_2

p = 0.1662 >= 0.0100 removing \_Iepx\_spous\_1

p = 0.1928 >= 0.0100 removing \_Iehh\_marst\_3

p = 0.1421 >= 0.0100 removing \_Iepx\_nunmp\_1

p = 0.1366 >= 0.0100 removing \_Iehh\_heatc\_2

p = 0.1195 >= 0.0100 removing \_Iepx\_urban\_2

p = 0.0687 >= 0.0100 removing \_Iehh\_gor\_d\_6

p = 0.0500 >= 0.0100 removing \_Iepx\_sf1\_3

p = 0.1067 >= 0.0100 removing \_Iepx\_sf1\_2

p = 0.0374 >= 0.0100 removing \_Iepx\_fimng\_4

p = 0.1436 >= 0.0100 removing \_Iepx\_fimng\_3

p = 0.0378 >= 0.0100 removing \_Iehh\_hhsiz\_3

p = 0.0697 >= 0.0100 removing \_Iehh\_hhsiz\_5

p = 0.0311 >= 0.0100 removing \_Iehh\_fuelh\_1

p = 0.0248 >= 0.0100 removing \_Iehh\_xphsd\_1

p = 0.0337 >= 0.0100 removing \_Iehh\_xphsda1

Logistic regression Number of obs = 33,836

 LR chi2(20) = 762.75

 Prob > chi2 = 0.0000

Log likelihood = -13163.868 Pseudo R2 = 0.0282

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 proxy6 | Odds Ratio Std. Err. z P>|z| [95% Conf. Interval]

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 \_Iehh\_livpa\_2 | 1.335021 .0807388 4.78 0.000 1.185794 1.503026

 \_Iepx\_healt\_2 | .9032493 .0352775 -2.61 0.009 .8366868 .9751072

 \_Iehh\_emplo\_2 | 1.14344 .0462223 3.32 0.001 1.056342 1.23772

ehhc\_amenities | 1.037914 .0076884 5.02 0.000 1.022954 1.053093

\_Iehh\_gor\_d\_10 | .8398038 .0504904 -2.90 0.004 .7464525 .9448296

 \_Iepx\_mobus\_2 | .7890455 .0506984 -3.69 0.000 .6956807 .8949405

 \_Iepx\_racel\_3 | .7791653 .0361704 -5.38 0.000 .711402 .8533832

 \_Iehh\_hsown\_3 | .8882311 .0343362 -3.07 0.002 .8234197 .9581439

 \_Iehh\_dvage\_3 | .8543561 .0432006 -3.11 0.002 .7737449 .9433656

\_Iehh\_gor\_d\_12 | .6619664 .0373865 -7.30 0.000 .5926003 .7394522

 \_Iepx\_sf1\_5 | .7200342 .0486545 -4.86 0.000 .6307181 .8219984

 ehhc\_hsrooms | 1.111308 .035816 3.27 0.001 1.043281 1.18377

 \_Iepx\_hiqua\_2 | .8238799 .0507021 -3.15 0.002 .7302649 .9294957

 \_Iehh\_xpfdo\_1 | 1.096222 .0371743 2.71 0.007 1.02573 1.171558

 \_Iepx\_hiqua\_9 | .6656476 .0420059 -6.45 0.000 .5882054 .7532857

 \_Iehh\_dvage\_2 | .551036 .0390265 -8.41 0.000 .479617 .6330899

 \_Iepx\_hiqua\_5 | .6751704 .0439364 -6.04 0.000 .5943221 .767017

 \_Iehh\_ncars\_1 | 1.106299 .0365397 3.06 0.002 1.036952 1.180285

 \_Iepx\_hiqua\_4 | .7529251 .0389084 -5.49 0.000 .6804009 .8331797

 \_Iepx\_hiqua\_3 | .7876676 .0405206 -4.64 0.000 .7121212 .8712285

 \_cons | 5.389503 .7032754 12.91 0.000 4.173262 6.960203

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.

. predict ppxb${n}\_lw if proxy${n}==1 & ${w1}\_indpxub\_lw!=0 & ${w1}\_indpxub\_lw!=.