**Appendix 1: STATA output of Model 1**

 **summarize $ylist $xlist**

 **Variable | Obs Mean Std. Dev. Min Max**

**-------------+--------------------------------------------------------**

 **pse | 1182 .3764805 .4847079 0 1**

 **pareduc | 1182 .1353638 .3422565 0 1**

 **wealth\_2 | 1182 .2208122 .4149697 0 1**

 **wealth\_3 | 1182 .5499154 .4977128 0 1**

 **wealth\_4 | 1182 .1912014 .3934137 0 1**

**-------------+--------------------------------------------------------**

 **wealth\_5 | 1182 .0067682 .0820248 0 1**

 **wealth\_6 | 1182 .000846 .0290865 0 1**

 **parexp4 | 1182 .5423012 .4984183 0 1**

 **arisan | 1182 .1818951 .3859213 0 1**

 **commeet | 1182 .4754653 .4996091 0 1**

**-------------+--------------------------------------------------------**

 **kerjabakti | 1182 .4331641 .4957226 0 1**

 **religgroup | 1182 .6505922 .4769848 0 1**

 **age\_18 | 1182 .1345178 .3413522 0 1**

 **age\_19 | 1182 .1827411 .3866177 0 1**

 **age\_20 | 1182 .1725888 .3780514 0 1**

**-------------+--------------------------------------------------------**

 **age\_21 | 1182 .1675127 .373591 0 1**

 **age\_22 | 1182 .1632826 .3697797 0 1**

 **age\_23 | 1182 .1573604 .3642944 0 1**

 **married | 1182 .1928934 .3947371 0 1**

 **sex | 1182 .4390863 .4964857 0 1**

**-------------+--------------------------------------------------------**

 **ethnic | 1182 .5972927 .4906504 0 1**

 **religion | 1182 .9027073 .2964814 0 1**

 **ebtanas | 1182 7.078304 1.907331 1.5 10**

 **jawa | 1182 .571066 .4951333 0 1**

 **urban | 1182 .7258883 .4462543 0 1**

**.**

**. tabulate $ylist**

 **PSE | Freq. Percent Cum.**

**------------+-----------------------------------**

 **0 | 737 62.35 62.35**

 **1 | 445 37.65 100.00**

**------------+-----------------------------------**

 **Total | 1,182 100.00**

**.**

**. \* Regression**

**. reg $ylist $xlist**

 **Source | SS df MS Number of obs = 1182**

**-------------+------------------------------ F( 24, 1157) = 15.08**

 **Model | 66.1065382 24 2.75443909 Prob > F = 0.0000**

 **Residual | 211.359621 1157 .182679015 R-squared = 0.2383**

**-------------+------------------------------ Adj R-squared = 0.2224**

 **Total | 277.466159 1181 .23494171 Root MSE = .42741**

**------------------------------------------------------------------------------**

 **pse | Coef. Std. Err. t P>|t| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .2273404 .0399055 5.70 0.000 .1490451 .3056357**

 **wealth\_2 | .1614381 .0765747 2.11 0.035 .0111973 .3116788**

 **wealth\_3 | .2266377 .0738473 3.07 0.002 .0817482 .3715272**

 **wealth\_4 | .2891564 .0781123 3.70 0.000 .1358987 .4424141**

 **wealth\_5 | .3336417 .1688434 1.98 0.048 .0023682 .6649152**

 **wealth\_6 | .7302701 .436829 1.67 0.095 -.1267955 1.587336**

 **parexp4 | .1989619 .0270577 7.35 0.000 .1458743 .2520496**

 **arisan | .0303633 .033335 0.91 0.363 -.0350405 .0957671**

 **commeet | .0233863 .0266813 0.88 0.381 -.0289629 .0757354**

 **kerjabakti | -.0066913 .0266344 -0.25 0.802 -.0589483 .0455658**

 **religgroup | -.0264962 .0276792 -0.96 0.339 -.0808032 .0278109**

 **age\_18 | -.0378977 .091498 -0.41 0.679 -.2174183 .1416229**

 **age\_19 | .0377877 .0898319 0.42 0.674 -.1384641 .2140394**

 **age\_20 | .0202229 .0905948 0.22 0.823 -.1575257 .1979715**

 **age\_21 | .0314026 .0908609 0.35 0.730 -.146868 .2096731**

 **age\_22 | .0619583 .0917772 0.68 0.500 -.1181101 .2420268**

 **age\_23 | .0689432 .0920581 0.75 0.454 -.1116762 .2495626**

 **married | -.2942291 .0355168 -8.28 0.000 -.3639136 -.2245445**

 **sex | -.1515983 .0264825 -5.72 0.000 -.2035574 -.0996392**

 **ethnic | -.1180086 .0416263 -2.83 0.005 -.1996801 -.0363371**

 **religion | -.0856818 .0451285 -1.90 0.058 -.1742246 .0028611**

 **ebtanas | .0203788 .0070635 2.89 0.004 .0065201 .0342374**

 **jawa | .0330333 .0406698 0.81 0.417 -.0467615 .1128281**

 **urban | .0399413 .0289137 1.38 0.167 -.0167878 .0966704**

 **\_cons | .0703846 .1255244 0.56 0.575 -.1758964 .3166655**

**------------------------------------------------------------------------------**

**.**

**. \* Probit model**

**. probit $ylist $xlist**

**note: wealth\_6 != 0 predicts success perfectly**

 **wealth\_6 dropped and 1 obs not used**

**Iteration 0: log likelihood = -781.87858**

**Iteration 1: log likelihood = -627.17194**

**Iteration 2: log likelihood = -625.42722**

**Iteration 3: log likelihood = -625.42077**

**Iteration 4: log likelihood = -625.42077**

**Probit regression Number of obs = 1181**

 **LR chi2(23) = 312.92**

 **Prob > chi2 = 0.0000**

**Log likelihood = -625.42077 Pseudo R2 = 0.2001**

**------------------------------------------------------------------------------**

 **pse | Coef. Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .6509508 .1299936 5.01 0.000 .396168 .9057337**

 **wealth\_2 | .749424 .3142407 2.38 0.017 .1335235 1.365325**

 **wealth\_3 | .9682173 .3045666 3.18 0.001 .3712777 1.565157**

 **wealth\_4 | 1.165302 .3155176 3.69 0.000 .5468985 1.783705**

 **wealth\_5 | 1.313777 .5640636 2.33 0.020 .2082328 2.419322**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | .6248343 .0873862 7.15 0.000 .4535605 .796108**

 **arisan | .093011 .1098253 0.85 0.397 -.1222427 .3082647**

 **commeet | .0578858 .0873469 0.66 0.508 -.1133109 .2290825**

 **kerjabakti | -.018331 .0874897 -0.21 0.834 -.1898077 .1531457**

 **religgroup | -.0712392 .090441 -0.79 0.431 -.2485004 .106022**

 **age\_18 | -.1353865 .2897184 -0.47 0.640 -.7032241 .432451**

 **age\_19 | .0897922 .2852445 0.31 0.753 -.4692768 .6488613**

 **age\_20 | .0249288 .2884493 0.09 0.931 -.5404214 .5902791**

 **age\_21 | .0628416 .2894259 0.22 0.828 -.5044227 .6301058**

 **age\_22 | .1507006 .2933538 0.51 0.607 -.4242623 .7256634**

 **age\_23 | .1950036 .294248 0.66 0.508 -.3817118 .771719**

 **married | -1.045667 .1307348 -8.00 0.000 -1.301902 -.7894316**

 **sex | -.4737075 .0868039 -5.46 0.000 -.64384 -.3035751**

 **ethnic | -.3792167 .1376977 -2.75 0.006 -.6490993 -.1093341**

 **religion | -.2599118 .1455895 -1.79 0.074 -.5452621 .0254385**

 **ebtanas | .066188 .0230292 2.87 0.004 .0210517 .1113244**

 **jawa | .10237 .1361051 0.75 0.452 -.164391 .3691311**

 **urban | .1230771 .09641 1.28 0.202 -.0658831 .3120372**

 **\_cons | -1.55296 .446371 -3.48 0.001 -2.427831 -.678089**

**------------------------------------------------------------------------------**

**.**

**. \* Logit model**

**. logit $ylist $xlist**

**note: wealth\_6 != 0 predicts success perfectly**

 **wealth\_6 dropped and 1 obs not used**

**Iteration 0: log likelihood = -781.87858**

**Iteration 1: log likelihood = -629.25363**

**Iteration 2: log likelihood = -625.24086**

**Iteration 3: log likelihood = -625.23493**

**Iteration 4: log likelihood = -625.23493**

**Logistic regression Number of obs = 1181**

 **LR chi2(23) = 313.29**

 **Prob > chi2 = 0.0000**

**Log likelihood = -625.23493 Pseudo R2 = 0.2003**

**------------------------------------------------------------------------------**

 **pse | Coef. Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | 1.062602 .218355 4.87 0.000 .6346339 1.49057**

 **wealth\_2 | 1.19596 .5400136 2.21 0.027 .137553 2.254367**

 **wealth\_3 | 1.575302 .5228177 3.01 0.003 .5505983 2.600006**

 **wealth\_4 | 1.908935 .5408726 3.53 0.000 .8488447 2.969026**

 **wealth\_5 | 2.17826 .9455745 2.30 0.021 .3249681 4.031552**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | 1.048282 .1487334 7.05 0.000 .7567695 1.339794**

 **arisan | .1697893 .1847786 0.92 0.358 -.1923702 .5319488**

 **commeet | .1201526 .1481008 0.81 0.417 -.1701196 .4104249**

 **kerjabakti | -.040639 .1478838 -0.27 0.783 -.3304858 .2492079**

 **religgroup | -.1433706 .153175 -0.94 0.349 -.4435881 .1568469**

 **age\_18 | -.2508688 .4939234 -0.51 0.612 -1.218941 .7172034**

 **age\_19 | .1418752 .485496 0.29 0.770 -.8096794 1.09343**

 **age\_20 | .0086762 .491422 0.02 0.986 -.9544932 .9718456**

 **age\_21 | .0966382 .4924638 0.20 0.844 -.8685732 1.06185**

 **age\_22 | .2343955 .4998816 0.47 0.639 -.7453544 1.214145**

 **age\_23 | .3020921 .5005524 0.60 0.546 -.6789726 1.283157**

 **married | -1.813329 .2352763 -7.71 0.000 -2.274462 -1.352196**

 **sex | -.8032466 .1479323 -5.43 0.000 -1.093189 -.5133047**

 **ethnic | -.6171835 .2341498 -2.64 0.008 -1.076109 -.1582583**

 **religion | -.4326154 .24474 -1.77 0.077 -.9122969 .0470661**

 **ebtanas | .1107837 .0392452 2.82 0.005 .0338646 .1877028**

 **jawa | .1699492 .2312706 0.73 0.462 -.2833329 .6232313**

 **urban | .221257 .1639234 1.35 0.177 -.1000271 .542541**

 **\_cons | -2.544799 .7603634 -3.35 0.001 -4.035084 -1.054514**

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**. \* Marginal effects (at the mean and average marginal effect)**

**. quietly reg $ylist $xlist**

**. margins, dydx(\*) atmeans**

**Conditional marginal effects Number of obs = 1182**

**Model VCE : OLS**

**Expression : Linear prediction, predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**at : pareduc = .1353638 (mean)**

 **wealth\_2 = .2208122 (mean)**

 **wealth\_3 = .5499154 (mean)**

 **wealth\_4 = .1912014 (mean)**

 **wealth\_5 = .0067682 (mean)**

 **wealth\_6 = .000846 (mean)**

 **parexp4 = .5423012 (mean)**

 **arisan = .1818951 (mean)**

 **commeet = .4754653 (mean)**

 **kerjabakti = .4331641 (mean)**

 **religgroup = .6505922 (mean)**

 **age\_18 = .1345178 (mean)**

 **age\_19 = .1827411 (mean)**

 **age\_20 = .1725888 (mean)**

 **age\_21 = .1675127 (mean)**

 **age\_22 = .1632826 (mean)**

 **age\_23 = .1573604 (mean)**

 **married = .1928934 (mean)**

 **sex = .4390863 (mean)**

 **ethnic = .5972927 (mean)**

 **religion = .9027073 (mean)**

 **ebtanas = 7.078304 (mean)**

 **jawa = .571066 (mean)**

 **urban = .7258883 (mean)**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. t P>|t| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .2273404 .0399055 5.70 0.000 .1490451 .3056357**

 **wealth\_2 | .1614381 .0765747 2.11 0.035 .0111973 .3116788**

 **wealth\_3 | .2266377 .0738473 3.07 0.002 .0817482 .3715272**

 **wealth\_4 | .2891564 .0781123 3.70 0.000 .1358987 .4424141**

 **wealth\_5 | .3336417 .1688434 1.98 0.048 .0023682 .6649152**

 **wealth\_6 | .7302701 .436829 1.67 0.095 -.1267955 1.587336**

 **parexp4 | .1989619 .0270577 7.35 0.000 .1458743 .2520496**

 **arisan | .0303633 .033335 0.91 0.363 -.0350405 .0957671**

 **commeet | .0233863 .0266813 0.88 0.381 -.0289629 .0757354**

 **kerjabakti | -.0066913 .0266344 -0.25 0.802 -.0589483 .0455658**

 **religgroup | -.0264962 .0276792 -0.96 0.339 -.0808032 .0278109**

 **age\_18 | -.0378977 .091498 -0.41 0.679 -.2174183 .1416229**

 **age\_19 | .0377877 .0898319 0.42 0.674 -.1384641 .2140394**

 **age\_20 | .0202229 .0905948 0.22 0.823 -.1575257 .1979715**

 **age\_21 | .0314026 .0908609 0.35 0.730 -.146868 .2096731**

 **age\_22 | .0619583 .0917772 0.68 0.500 -.1181101 .2420268**

 **age\_23 | .0689432 .0920581 0.75 0.454 -.1116762 .2495626**

 **married | -.2942291 .0355168 -8.28 0.000 -.3639136 -.2245445**

 **sex | -.1515983 .0264825 -5.72 0.000 -.2035574 -.0996392**

 **ethnic | -.1180086 .0416263 -2.83 0.005 -.1996801 -.0363371**

 **religion | -.0856818 .0451285 -1.90 0.058 -.1742246 .0028611**

 **ebtanas | .0203788 .0070635 2.89 0.004 .0065201 .0342374**

 **jawa | .0330333 .0406698 0.81 0.417 -.0467615 .1128281**

 **urban | .0399413 .0289137 1.38 0.167 -.0167878 .0966704**

**------------------------------------------------------------------------------**

**. margins, dydx(\*)**

**Average marginal effects Number of obs = 1182**

**Model VCE : OLS**

**Expression : Linear prediction, predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. t P>|t| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .2273404 .0399055 5.70 0.000 .1490451 .3056357**

 **wealth\_2 | .1614381 .0765747 2.11 0.035 .0111973 .3116788**

 **wealth\_3 | .2266377 .0738473 3.07 0.002 .0817482 .3715272**

 **wealth\_4 | .2891564 .0781123 3.70 0.000 .1358987 .4424141**

 **wealth\_5 | .3336417 .1688434 1.98 0.048 .0023682 .6649152**

 **wealth\_6 | .7302701 .436829 1.67 0.095 -.1267955 1.587336**

 **parexp4 | .1989619 .0270577 7.35 0.000 .1458743 .2520496**

 **arisan | .0303633 .033335 0.91 0.363 -.0350405 .0957671**

 **commeet | .0233863 .0266813 0.88 0.381 -.0289629 .0757354**

 **kerjabakti | -.0066913 .0266344 -0.25 0.802 -.0589483 .0455658**

 **religgroup | -.0264962 .0276792 -0.96 0.339 -.0808032 .0278109**

 **age\_18 | -.0378977 .091498 -0.41 0.679 -.2174183 .1416229**

 **age\_19 | .0377877 .0898319 0.42 0.674 -.1384641 .2140394**

 **age\_20 | .0202229 .0905948 0.22 0.823 -.1575257 .1979715**

 **age\_21 | .0314026 .0908609 0.35 0.730 -.146868 .2096731**

 **age\_22 | .0619583 .0917772 0.68 0.500 -.1181101 .2420268**

 **age\_23 | .0689432 .0920581 0.75 0.454 -.1116762 .2495626**

 **married | -.2942291 .0355168 -8.28 0.000 -.3639136 -.2245445**

 **sex | -.1515983 .0264825 -5.72 0.000 -.2035574 -.0996392**

 **ethnic | -.1180086 .0416263 -2.83 0.005 -.1996801 -.0363371**

 **religion | -.0856818 .0451285 -1.90 0.058 -.1742246 .0028611**

 **ebtanas | .0203788 .0070635 2.89 0.004 .0065201 .0342374**

 **jawa | .0330333 .0406698 0.81 0.417 -.0467615 .1128281**

 **urban | .0399413 .0289137 1.38 0.167 -.0167878 .0966704**

**------------------------------------------------------------------------------**

**.**

**. quietly logit $ylist $xlist**

**. margins, dydx(\*) atmeans**

**Conditional marginal effects Number of obs = 1181**

**Model VCE : OIM**

**Expression : Pr(pse), predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**at : pareduc = .1354784 (mean)**

 **wealth\_2 = .2209992 (mean)**

 **wealth\_3 = .550381 (mean)**

 **wealth\_4 = .1913633 (mean)**

 **wealth\_5 = .0067739 (mean)**

 **wealth\_6 = 0 (mean)**

 **parexp4 = .5419136 (mean)**

 **arisan = .1820491 (mean)**

 **commeet = .4758679 (mean)**

 **kerjabakti = .4335309 (mean)**

 **religgroup = .6502964 (mean)**

 **age\_18 = .1346317 (mean)**

 **age\_19 = .1820491 (mean)**

 **age\_20 = .172735 (mean)**

 **age\_21 = .1676545 (mean)**

 **age\_22 = .1634208 (mean)**

 **age\_23 = .1574936 (mean)**

 **married = .1930567 (mean)**

 **sex = .4394581 (mean)**

 **ethnic = .5969517 (mean)**

 **religion = .9026249 (mean)**

 **ebtanas = 7.077947 (mean)**

 **jawa = .5715495 (mean)**

 **urban = .7256562 (mean)**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .2380352 .0495449 4.80 0.000 .140929 .3351414**

 **wealth\_2 | .267909 .1206035 2.22 0.026 .0315306 .5042875**

 **wealth\_3 | .3528861 .1165274 3.03 0.002 .1244965 .5812756**

 **wealth\_4 | .4276238 .1204626 3.55 0.000 .1915215 .6637261**

 **wealth\_5 | .4879557 .2113377 2.31 0.021 .0737415 .9021699**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | .2348273 .0329326 7.13 0.000 .1702805 .2993741**

 **arisan | .0380348 .0413926 0.92 0.358 -.0430933 .1191628**

 **commeet | .0269156 .0331695 0.81 0.417 -.0380955 .0919267**

 **kerjabakti | -.0091036 .0331243 -0.27 0.783 -.0740261 .0558189**

 **religgroup | -.0321167 .0343024 -0.94 0.349 -.0993482 .0351148**

 **age\_18 | -.0561975 .1106473 -0.51 0.612 -.2730623 .1606673**

 **age\_19 | .0317817 .1087581 0.29 0.770 -.1813803 .2449437**

 **age\_20 | .0019436 .1100847 0.02 0.986 -.2138186 .2177057**

 **age\_21 | .0216481 .1103201 0.20 0.844 -.1945753 .2378715**

 **age\_22 | .0525073 .1119847 0.47 0.639 -.1669787 .2719934**

 **age\_23 | .0676722 .1121313 0.60 0.546 -.1521011 .2874454**

 **married | -.406207 .0512646 -7.92 0.000 -.5066837 -.3057302**

 **sex | -.1799366 .0331177 -5.43 0.000 -.244846 -.1150272**

 **ethnic | -.1382563 .0524613 -2.64 0.008 -.2410787 -.0354339**

 **religion | -.0969109 .0548698 -1.77 0.077 -.2044536 .0106319**

 **ebtanas | .0248168 .0087919 2.82 0.005 .0075851 .0420486**

 **jawa | .0380706 .0518177 0.73 0.463 -.0634903 .1396315**

 **urban | .0495641 .0366971 1.35 0.177 -.0223609 .1214892**

**------------------------------------------------------------------------------**

**. margins, dydx(\*)**

**Average marginal effects Number of obs = 1181**

**Model VCE : OIM**

**Expression : Pr(pse), predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .1881627 .0372227 5.06 0.000 .1152076 .2611179**

 **wealth\_2 | .2117775 .0950004 2.23 0.026 .0255802 .3979748**

 **wealth\_3 | .2789503 .0914408 3.05 0.002 .0997296 .458171**

 **wealth\_4 | .3380293 .094132 3.59 0.000 .153534 .5225245**

 **wealth\_5 | .3857206 .166236 2.32 0.020 .0599039 .7115372**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | .1856269 .0243222 7.63 0.000 .1379563 .2332976**

 **arisan | .0300658 .0326783 0.92 0.358 -.0339825 .0941142**

 **commeet | .0212763 .0261991 0.81 0.417 -.030073 .0726256**

 **kerjabakti | -.0071962 .0261843 -0.27 0.783 -.0585165 .044124**

 **religgroup | -.0253877 .0270896 -0.94 0.349 -.0784823 .0277069**

 **age\_18 | -.0444232 .0874337 -0.51 0.611 -.2157901 .1269437**

 **age\_19 | .0251229 .0859565 0.29 0.770 -.1433487 .1935945**

 **age\_20 | .0015364 .0870194 0.02 0.986 -.1690185 .1720912**

 **age\_21 | .0171124 .0871973 0.20 0.844 -.1537911 .188016**

 **age\_22 | .0415061 .0884832 0.47 0.639 -.1319177 .2149299**

 **age\_23 | .0534937 .0885851 0.60 0.546 -.12013 .2271174**

 **married | -.3210996 .0382476 -8.40 0.000 -.3960636 -.2461356**

 **sex | -.1422368 .0250233 -5.68 0.000 -.1912816 -.093192**

 **ethnic | -.1092892 .0410165 -2.66 0.008 -.18968 -.0288984**

 **religion | -.0766064 .0431331 -1.78 0.076 -.1611457 .0079329**

 **ebtanas | .0196173 .0068671 2.86 0.004 .0061579 .0330766**

 **jawa | .0300942 .040917 0.74 0.462 -.0501017 .11029**

 **urban | .0391796 .0289527 1.35 0.176 -.0175666 .0959258**

**------------------------------------------------------------------------------**

**.**

**. quietly probit $ylist $xlist**

**. margins, dydx(\*) atmeans**

**Conditional marginal effects Number of obs = 1181**

**Model VCE : OIM**

**Expression : Pr(pse), predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**at : pareduc = .1354784 (mean)**

 **wealth\_2 = .2209992 (mean)**

 **wealth\_3 = .550381 (mean)**

 **wealth\_4 = .1913633 (mean)**

 **wealth\_5 = .0067739 (mean)**

 **wealth\_6 = 0 (mean)**

 **parexp4 = .5419136 (mean)**

 **arisan = .1820491 (mean)**

 **commeet = .4758679 (mean)**

 **kerjabakti = .4335309 (mean)**

 **religgroup = .6502964 (mean)**

 **age\_18 = .1346317 (mean)**

 **age\_19 = .1820491 (mean)**

 **age\_20 = .172735 (mean)**

 **age\_21 = .1676545 (mean)**

 **age\_22 = .1634208 (mean)**

 **age\_23 = .1574936 (mean)**

 **married = .1930567 (mean)**

 **sex = .4394581 (mean)**

 **ethnic = .5969517 (mean)**

 **religion = .9026249 (mean)**

 **ebtanas = 7.077947 (mean)**

 **jawa = .5715495 (mean)**

 **urban = .7256562 (mean)**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .2404882 .0484007 4.97 0.000 .1456246 .3353518**

 **wealth\_2 | .2768683 .1158004 2.39 0.017 .0499036 .5038329**

 **wealth\_3 | .3576996 .1120901 3.19 0.001 .138007 .5773921**

 **wealth\_4 | .4305107 .1160643 3.71 0.000 .2030289 .6579924**

 **wealth\_5 | .4853637 .2080688 2.33 0.020 .0775564 .893171**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | .2308396 .0321174 7.19 0.000 .1678907 .2937886**

 **arisan | .0343621 .0405768 0.85 0.397 -.045167 .1138912**

 **commeet | .0213854 .0322749 0.66 0.508 -.0418722 .084643**

 **kerjabakti | -.0067722 .0323221 -0.21 0.834 -.0701223 .0565778**

 **religgroup | -.0263187 .0334117 -0.79 0.431 -.0918045 .039167**

 **age\_18 | -.0500174 .1070343 -0.47 0.640 -.2598007 .159766**

 **age\_19 | .033173 .1053851 0.31 0.753 -.1733781 .2397241**

 **age\_20 | .0092097 .1065671 0.09 0.931 -.1996579 .2180774**

 **age\_21 | .0232163 .1069301 0.22 0.828 -.1863628 .2327954**

 **age\_22 | .055675 .1083871 0.51 0.607 -.1567597 .2681098**

 **age\_23 | .0720424 .1087175 0.66 0.508 -.14104 .2851248**

 **married | -.3863127 .0477044 -8.10 0.000 -.4798117 -.2928137**

 **sex | -.1750072 .0321011 -5.45 0.000 -.2379242 -.1120901**

 **ethnic | -.1400983 .0508686 -2.75 0.006 -.2397989 -.0403978**

 **religion | -.0960222 .0538192 -1.78 0.074 -.2015059 .0094615**

 **ebtanas | .0244526 .0085086 2.87 0.004 .007776 .0411292**

 **jawa | .0378197 .0502927 0.75 0.452 -.0607521 .1363916**

 **urban | .0454698 .0356112 1.28 0.202 -.0243268 .1152664**

**------------------------------------------------------------------------------**

**. margins, dydx(\*)**

**Average marginal effects Number of obs = 1181**

**Model VCE : OIM**

**Expression : Pr(pse), predict()**

**dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet**

 **kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 married sex**

 **ethnic religion ebtanas jawa urban**

**------------------------------------------------------------------------------**

 **| Delta-method**

 **| dy/dx Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

 **pareduc | .1949918 .0376582 5.18 0.000 .1211832 .2688005**

 **wealth\_2 | .2244894 .0934566 2.40 0.016 .0413179 .407661**

 **wealth\_3 | .2900288 .0901037 3.22 0.001 .1134288 .4666288**

 **wealth\_4 | .3490652 .0929432 3.76 0.000 .1669 .5312305**

 **wealth\_5 | .393541 .1678849 2.34 0.019 .0644926 .7225894**

 **wealth\_6 | 0 (omitted)**

 **parexp4 | .1871686 .0245333 7.63 0.000 .1390843 .235253**

 **arisan | .0278614 .0328755 0.85 0.397 -.0365733 .0922961**

 **commeet | .0173396 .0261579 0.66 0.507 -.0339289 .0686082**

 **kerjabakti | -.005491 .0262071 -0.21 0.834 -.0568561 .045874**

 **religgroup | -.0213397 .0270802 -0.79 0.431 -.0744159 .0317366**

 **age\_18 | -.0405549 .0867683 -0.47 0.640 -.2106176 .1295077**

 **age\_19 | .0268972 .0854332 0.31 0.753 -.1405489 .1943433**

 **age\_20 | .0074674 .0864024 0.09 0.931 -.1618781 .176813**

 **age\_21 | .0188242 .0866911 0.22 0.828 -.1510872 .1887355**

 **age\_22 | .0451422 .0878407 0.51 0.607 -.1270223 .2173068**

 **age\_23 | .0584132 .0880869 0.66 0.507 -.114234 .2310603**

 **married | -.3132288 .0363853 -8.61 0.000 -.3845427 -.2419148**

 **sex | -.1418987 .0250829 -5.66 0.000 -.1910604 -.0927371**

 **ethnic | -.1135941 .0408464 -2.78 0.005 -.1936515 -.0335367**

 **religion | -.0778564 .0434406 -1.79 0.073 -.1629983 .0072855**

 **ebtanas | .0198266 .0068303 2.90 0.004 .0064395 .0332136**

 **jawa | .0306649 .0407415 0.75 0.452 -.0491869 .1105166**

 **urban | .0368676 .0288321 1.28 0.201 -.0196422 .0933775**

**------------------------------------------------------------------------------**

**.**

**.**

**. \*Logistic model gives odds ratio**

**. logistic $ylist $xlist**

**note: wealth\_6 != 0 predicts success perfectly**

 **wealth\_6 dropped and 1 obs not used**

**Logistic regression Number of obs = 1181**

 **LR chi2(23) = 313.29**

 **Prob > chi2 = 0.0000**

**Log likelihood = -625.23493 Pseudo R2 = 0.2003**

**------------------------------------------------------------------------------**

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

**-------------+----------------------------------------------------------------**

 **pareduc | 2.89389 .6318953 4.87 0.000 1.886331 4.439624**

 **wealth\_2 | 3.306731 1.78568 2.21 0.027 1.147462 9.529263**

 **wealth\_3 | 4.832201 2.52636 3.01 0.003 1.73429 13.46382**

 **wealth\_4 | 6.745904 3.648674 3.53 0.000 2.336945 19.47295**

 **wealth\_5 | 8.830928 8.3503 2.30 0.021 1.383986 56.3483**

 **wealth\_6 | 1 (omitted)**

 **parexp4 | 2.852745 .4242983 7.05 0.000 2.13138 3.818255**

 **arisan | 1.185055 .2189729 0.92 0.358 .8250014 1.702246**

 **commeet | 1.127669 .1670087 0.81 0.417 .8435639 1.507458**

 **kerjabakti | .9601757 .1419944 -0.27 0.783 .7185746 1.283009**

 **religgroup | .8664329 .1327159 -0.94 0.349 .6417297 1.169817**

 **age\_18 | .7781245 .3843339 -0.51 0.612 .295543 2.048696**

 **age\_19 | 1.152433 .5595015 0.29 0.770 .4450007 2.984493**

 **age\_20 | 1.008714 .4957042 0.02 0.986 .3850072 2.642817**

 **age\_21 | 1.101462 .5424301 0.20 0.844 .4195497 2.891715**

 **age\_22 | 1.264144 .6319225 0.47 0.639 .4745661 3.367415**

 **age\_23 | 1.352686 .6770902 0.60 0.546 .5071377 3.608012**

 **married | .1631102 .038376 -7.71 0.000 .1028522 .2586715**

 **sex | .4478725 .0662548 -5.43 0.000 .3351462 .5985144**

 **ethnic | .5394617 .1263148 -2.64 0.008 .3409196 .8536292**

 **religion | .64881 .1587897 -1.77 0.077 .4016007 1.048191**

 **ebtanas | 1.117153 .0438429 2.82 0.005 1.034444 1.206475**

 **jawa | 1.185245 .2741123 0.73 0.462 .753269 1.864945**

 **urban | 1.247644 .2045181 1.35 0.177 .9048129 1.720373**

 **\_cons | .0784888 .05968 -3.35 0.001 .0176842 .3483617**

**------------------------------------------------------------------------------**

**.**

**.**

**. \* Predicted probabilities**

**. quietly logit $ylist $xlist**

**. predict plogit, pr**

**(1 missing values generated)**

**.**

**. quietly probit $ylist $xlist**

**. predict pprobit, pr**

**(1 missing values generated)**

**.**

**. quietly regress $ylist $xlist**

**. predict pols, xb**

**.**

**. summarize $ylist plogit pprobit pols**

 **Variable | Obs Mean Std. Dev. Min Max**

**-------------+--------------------------------------------------------**

 **pse | 1182 .3764805 .4847079 0 1**

 **plogit | 1181 .3759526 .2399659 .0070756 .9347072**

 **pprobit | 1181 .3771796 .2392278 .0016285 .9466561**

 **pols | 1182 .3764805 .2365905 -.3242619 1.017598**

**.**

**.**

**. \* Percent correctly predicted values**

**. quietly logit $ylist $xlist**

**. estat classification**

**Logistic model for pse**

 **-------- True --------**

**Classified | D ~D | Total**

**-----------+--------------------------+-----------**

 **+ | 243 109 | 352**

 **- | 201 628 | 829**

**-----------+--------------------------+-----------**

 **Total | 444 737 | 1181**

**Classified + if predicted Pr(D) >= .5**

**True D defined as pse != 0**

**--------------------------------------------------**

**Sensitivity Pr( +| D) 54.73%**

**Specificity Pr( -|~D) 85.21%**

**Positive predictive value Pr( D| +) 69.03%**

**Negative predictive value Pr(~D| -) 75.75%**

**--------------------------------------------------**

**False + rate for true ~D Pr( +|~D) 14.79%**

**False - rate for true D Pr( -| D) 45.27%**

**False + rate for classified + Pr(~D| +) 30.97%**

**False - rate for classified - Pr( D| -) 24.25%**

**--------------------------------------------------**

**Correctly classified 73.75%**

**--------------------------------------------------**

**.**

**. quietly probit $ylist $xlist**

**. estat classification**

**Probit model for pse**

 **-------- True --------**

**Classified | D ~D | Total**

**-----------+--------------------------+-----------**

 **+ | 241 108 | 349**

 **- | 203 629 | 832**

**-----------+--------------------------+-----------**

 **Total | 444 737 | 1181**

**Classified + if predicted Pr(D) >= .5**

**True D defined as pse != 0**

**--------------------------------------------------**

**Sensitivity Pr( +| D) 54.28%**

**Specificity Pr( -|~D) 85.35%**

**Positive predictive value Pr( D| +) 69.05%**

**Negative predictive value Pr(~D| -) 75.60%**

**--------------------------------------------------**

**False + rate for true ~D Pr( +|~D) 14.65%**

**False - rate for true D Pr( -| D) 45.72%**

**False + rate for classified + Pr(~D| +) 30.95%**

**False - rate for classified - Pr( D| -) 24.40%**

**--------------------------------------------------**

**Correctly classified 73.67%**

**--------------------------------------------------**

**Appendix 2: STATA output of Model 2**

.

.

. \* Regression

. reg $ylist $xlist

 Source | SS df MS Number of obs = 3388

-------------+------------------------------ F( 23, 3364) = 62.51

 Model | 164.175255 23 7.13805457 Prob > F = 0.0000

 Residual | 384.11282 3364 .114183359 R-squared = 0.2994

-------------+------------------------------ Adj R-squared = 0.2946

 Total | 548.288076 3387 .161880152 Root MSE = .33791

------------------------------------------------------------------------------

 pse | Coef. Std. Err. t P>|t| [95% Conf. Interval]

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

 pareduc | .2252797 .0218297 10.32 0.000 .1824789 .2680805

 wealth\_2 | .0355731 .0287085 1.24 0.215 -.0207149 .091861

 wealth\_3 | .0811884 .0278219 2.92 0.004 .0266388 .135738

 wealth\_4 | .1342296 .0306266 4.38 0.000 .0741809 .1942782

 wealth\_5 | .1377108 .0944204 1.46 0.145 -.0474164 .322838

 wealth\_6 | .2850808 .141249 2.02 0.044 .0081382 .5620234

 parexp4 | .1675121 .0131741 12.72 0.000 .1416821 .1933421

 arisan | .0376183 .0164106 2.29 0.022 .0054426 .0697941

 commeet | .0138824 .0125479 1.11 0.269 -.0107198 .0384847

 kerjabakti | -.0081292 .0124485 -0.65 0.514 -.0325366 .0162781

 religgroup | -.0094719 .0127325 -0.74 0.457 -.0344361 .0154923

 age\_18 | .152653 .0213909 7.14 0.000 .1107126 .1945935

 age\_19 | .2608717 .0213211 12.24 0.000 .219068 .3026753

 age\_20 | .2977348 .0221201 13.46 0.000 .2543645 .341105

 age\_21 | .3064626 .0225416 13.60 0.000 .2622659 .3506593

 age\_22 | .3162424 .0220457 14.34 0.000 .2730181 .3594666

 age\_23 | .3382313 .022251 15.20 0.000 .2946044 .3818581

 marriage | -.2497834 .0150613 -16.58 0.000 -.2793137 -.2202531

 sex | -.1236314 .0125447 -9.86 0.000 -.1482275 -.0990354

 ethnic | -.0764589 .0176669 -4.33 0.000 -.1110979 -.0418198

 religion | -.0573647 .0212824 -2.70 0.007 -.0990925 -.0156369

 jawa | .0224752 .0172642 1.30 0.193 -.0113743 .0563246

 ruralurban | .0563132 .0126808 4.44 0.000 .0314503 .081176

 \_cons | -.0163763 .0364725 -0.45 0.653 -.0878868 .0551343

------------------------------------------------------------------------------

.

. \* Probit model

. probit $ylist $xlist

Iteration 0: log likelihood = -1709.6815

Iteration 1: log likelihood = -1166.9067

Iteration 2: log likelihood = -1138.3394

Iteration 3: log likelihood = -1137.6957

Iteration 4: log likelihood = -1137.6933

Iteration 5: log likelihood = -1137.6933

Probit regression Number of obs = 3388

 LR chi2(23) = 1143.98

 Prob > chi2 = 0.0000

Log likelihood = -1137.6933 Pseudo R2 = 0.3346

------------------------------------------------------------------------------

 pse | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | .6675236 .0951276 7.02 0.000 .4810768 .8539703

 wealth\_2 | .6168423 .2195161 2.81 0.005 .1865987 1.047086

 wealth\_3 | .8349957 .2137605 3.91 0.000 .4160328 1.253959

 wealth\_4 | 1.044784 .2217189 4.71 0.000 .6102232 1.479345

 wealth\_5 | 1.052821 .4648503 2.26 0.024 .1417313 1.963911

 wealth\_6 | 1.709258 .7025519 2.43 0.015 .3322812 3.086234

 parexp4 | .7697096 .0641166 12.00 0.000 .6440433 .8953759

 arisan | .2070313 .0801485 2.58 0.010 .049943 .3641195

 commeet | .0583578 .064089 0.91 0.363 -.0672543 .18397

 kerjabakti | -.0586555 .0636088 -0.92 0.356 -.1833264 .0660155

 religgroup | -.058753 .0653564 -0.90 0.369 -.1868491 .0693431

 age\_18 | 1.351784 .1650292 8.19 0.000 1.028333 1.675235

 age\_19 | 1.805657 .1634278 11.05 0.000 1.485345 2.12597

 age\_20 | 1.931536 .1670522 11.56 0.000 1.604119 2.258952

 age\_21 | 1.977064 .1676631 11.79 0.000 1.64845 2.305678

 age\_22 | 2.076734 .1679983 12.36 0.000 1.747463 2.406004

 age\_23 | 2.213407 .1688585 13.11 0.000 1.882451 2.544364

 marriage | -1.248746 .0862846 -14.47 0.000 -1.41786 -1.079631

 sex | -.5733191 .0640709 -8.95 0.000 -.6988959 -.4477424

 ethnic | -.389997 .0953785 -4.09 0.000 -.5769355 -.2030586

 religion | -.2233857 .100232 -2.23 0.026 -.4198367 -.0269347

 jawa | .1305969 .0950044 1.37 0.169 -.0556083 .3168021

 ruralurban | .2978847 .0686666 4.34 0.000 .1633005 .4324688

 \_cons | -3.166107 .2753491 -11.50 0.000 -3.705781 -2.626432

------------------------------------------------------------------------------

.

. \* Logit model

. logit $ylist $xlist

Iteration 0: log likelihood = -1709.6815

Iteration 1: log likelihood = -1220.7516

Iteration 2: log likelihood = -1134.5513

Iteration 3: log likelihood = -1130.3979

Iteration 4: log likelihood = -1130.3562

Iteration 5: log likelihood = -1130.3561

Logistic regression Number of obs = 3388

 LR chi2(23) = 1158.65

 Prob > chi2 = 0.0000

Log likelihood = -1130.3561 Pseudo R2 = 0.3388

------------------------------------------------------------------------------

 pse | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | 1.143015 .1651506 6.92 0.000 .819326 1.466704

 wealth\_2 | .9723947 .3964785 2.45 0.014 .1953111 1.749478

 wealth\_3 | 1.413699 .3843158 3.68 0.000 .6604544 2.166945

 wealth\_4 | 1.798795 .3977359 4.52 0.000 1.019247 2.578343

 wealth\_5 | 1.843549 .8171995 2.26 0.024 .2418676 3.445231

 wealth\_6 | 3.035585 1.211085 2.51 0.012 .6619019 5.409269

 parexp4 | 1.378574 .1157363 11.91 0.000 1.151735 1.605413

 arisan | .3692214 .1423099 2.59 0.009 .090299 .6481437

 commeet | .1162902 .1149814 1.01 0.312 -.1090692 .3416495

 kerjabakti | -.1190164 .1139707 -1.04 0.296 -.3423947 .104362

 religgroup | -.111303 .1173823 -0.95 0.343 -.341368 .118762

 age\_18 | 2.713394 .3606328 7.52 0.000 2.006567 3.420221

 age\_19 | 3.545753 .3576315 9.91 0.000 2.844808 4.246698

 age\_20 | 3.752131 .3627179 10.34 0.000 3.041217 4.463045

 age\_21 | 3.847727 .3635427 10.58 0.000 3.135197 4.560258

 age\_22 | 3.995815 .3656793 10.93 0.000 3.279097 4.712534

 age\_23 | 4.259364 .3668128 11.61 0.000 3.540425 4.978304

 marriage | -2.297375 .1650681 -13.92 0.000 -2.620902 -1.973847

 sex | -1.019075 .1147915 -8.88 0.000 -1.244062 -.7940879

 ethnic | -.6578494 .1725697 -3.81 0.000 -.9960797 -.319619

 religion | -.3999244 .1750596 -2.28 0.022 -.7430348 -.056814

 jawa | .2237171 .1717449 1.30 0.193 -.1128966 .5603308

 ruralurban | .5599176 .1253247 4.47 0.000 .3142857 .8055494

 \_cons | -5.874518 .5354646 -10.97 0.000 -6.92401 -4.825027

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. \* Marginal effects (at the mean and average marginal effect)

. quietly reg $ylist $xlist

. margins, dydx(\*) atmeans

Conditional marginal effects Number of obs = 3388

Model VCE : OLS

Expression : Linear prediction, predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

at : pareduc = .0932704 (mean)

 wealth\_2 = .2665289 (mean)

 wealth\_3 = .5168241 (mean)

 wealth\_4 = .1620425 (mean)

 wealth\_5 = .0041322 (mean)

 wealth\_6 = .001771 (mean)

 parexp4 = .4067296 (mean)

 arisan = .1596812 (mean)

 commeet = .4539551 (mean)

 kerjabakti = .4397875 (mean)

 religgroup = .6440378 (mean)

 age\_18 = .1431523 (mean)

 age\_19 = .1472845 (mean)

 age\_20 = .1342975 (mean)

 age\_21 = .1257379 (mean)

 age\_22 = .1478749 (mean)

 age\_23 = .1472845 (mean)

 marriage = .3081464 (mean)

 sex = .4453955 (mean)

 ethnic = .5882527 (mean)

 religion = .9046635 (mean)

 jawa = .5345336 (mean)

 ruralurban = .6201299 (mean)

------------------------------------------------------------------------------

 | Delta-method

 | dy/dx Std. Err. t P>|t| [95% Conf. Interval]

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

 pareduc | .2252797 .0218297 10.32 0.000 .1824789 .2680805

 wealth\_2 | .0355731 .0287085 1.24 0.215 -.0207149 .091861

 wealth\_3 | .0811884 .0278219 2.92 0.004 .0266388 .135738

 wealth\_4 | .1342296 .0306266 4.38 0.000 .0741809 .1942782

 wealth\_5 | .1377108 .0944204 1.46 0.145 -.0474164 .322838

 wealth\_6 | .2850808 .141249 2.02 0.044 .0081382 .5620234

 parexp4 | .1675121 .0131741 12.72 0.000 .1416821 .1933421

 arisan | .0376183 .0164106 2.29 0.022 .0054426 .0697941

 commeet | .0138824 .0125479 1.11 0.269 -.0107198 .0384847

 kerjabakti | -.0081292 .0124485 -0.65 0.514 -.0325366 .0162781

 religgroup | -.0094719 .0127325 -0.74 0.457 -.0344361 .0154923

 age\_18 | .152653 .0213909 7.14 0.000 .1107126 .1945935

 age\_19 | .2608717 .0213211 12.24 0.000 .219068 .3026753

 age\_20 | .2977348 .0221201 13.46 0.000 .2543645 .341105

 age\_21 | .3064626 .0225416 13.60 0.000 .2622659 .3506593

 age\_22 | .3162424 .0220457 14.34 0.000 .2730181 .3594666

 age\_23 | .3382313 .022251 15.20 0.000 .2946044 .3818581

 marriage | -.2497834 .0150613 -16.58 0.000 -.2793137 -.2202531

 sex | -.1236314 .0125447 -9.86 0.000 -.1482275 -.0990354

 ethnic | -.0764589 .0176669 -4.33 0.000 -.1110979 -.0418198

 religion | -.0573647 .0212824 -2.70 0.007 -.0990925 -.0156369

 jawa | .0224752 .0172642 1.30 0.193 -.0113743 .0563246

 ruralurban | .0563132 .0126808 4.44 0.000 .0314503 .081176

------------------------------------------------------------------------------

. margins, dydx(\*)

Average marginal effects Number of obs = 3388

Model VCE : OLS

Expression : Linear prediction, predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

------------------------------------------------------------------------------

 | Delta-method

 | dy/dx Std. Err. t P>|t| [95% Conf. Interval]

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

 pareduc | .2252797 .0218297 10.32 0.000 .1824789 .2680805

 wealth\_2 | .0355731 .0287085 1.24 0.215 -.0207149 .091861

 wealth\_3 | .0811884 .0278219 2.92 0.004 .0266388 .135738

 wealth\_4 | .1342296 .0306266 4.38 0.000 .0741809 .1942782

 wealth\_5 | .1377108 .0944204 1.46 0.145 -.0474164 .322838

 wealth\_6 | .2850808 .141249 2.02 0.044 .0081382 .5620234

 parexp4 | .1675121 .0131741 12.72 0.000 .1416821 .1933421

 arisan | .0376183 .0164106 2.29 0.022 .0054426 .0697941

 commeet | .0138824 .0125479 1.11 0.269 -.0107198 .0384847

 kerjabakti | -.0081292 .0124485 -0.65 0.514 -.0325366 .0162781

 religgroup | -.0094719 .0127325 -0.74 0.457 -.0344361 .0154923

 age\_18 | .152653 .0213909 7.14 0.000 .1107126 .1945935

 age\_19 | .2608717 .0213211 12.24 0.000 .219068 .3026753

 age\_20 | .2977348 .0221201 13.46 0.000 .2543645 .341105

 age\_21 | .3064626 .0225416 13.60 0.000 .2622659 .3506593

 age\_22 | .3162424 .0220457 14.34 0.000 .2730181 .3594666

 age\_23 | .3382313 .022251 15.20 0.000 .2946044 .3818581

 marriage | -.2497834 .0150613 -16.58 0.000 -.2793137 -.2202531

 sex | -.1236314 .0125447 -9.86 0.000 -.1482275 -.0990354

 ethnic | -.0764589 .0176669 -4.33 0.000 -.1110979 -.0418198

 religion | -.0573647 .0212824 -2.70 0.007 -.0990925 -.0156369

 jawa | .0224752 .0172642 1.30 0.193 -.0113743 .0563246

 ruralurban | .0563132 .0126808 4.44 0.000 .0314503 .081176

------------------------------------------------------------------------------

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. quietly logit $ylist $xlist

. margins, dydx(\*) atmeans

Conditional marginal effects Number of obs = 3388

Model VCE : OIM

Expression : Pr(pse), predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

at : pareduc = .0932704 (mean)

 wealth\_2 = .2665289 (mean)

 wealth\_3 = .5168241 (mean)

 wealth\_4 = .1620425 (mean)

 wealth\_5 = .0041322 (mean)

 wealth\_6 = .001771 (mean)

 parexp4 = .4067296 (mean)

 arisan = .1596812 (mean)

 commeet = .4539551 (mean)

 kerjabakti = .4397875 (mean)

 religgroup = .6440378 (mean)

 age\_18 = .1431523 (mean)

 age\_19 = .1472845 (mean)

 age\_20 = .1342975 (mean)

 age\_21 = .1257379 (mean)

 age\_22 = .1478749 (mean)

 age\_23 = .1472845 (mean)

 marriage = .3081464 (mean)

 sex = .4453955 (mean)

 ethnic = .5882527 (mean)

 religion = .9046635 (mean)

 jawa = .5345336 (mean)

 ruralurban = .6201299 (mean)

------------------------------------------------------------------------------

 | Delta-method

 | dy/dx Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | .0984027 .0152717 6.44 0.000 .0684707 .1283347

 wealth\_2 | .0837139 .0338754 2.47 0.013 .0173193 .1501084

 wealth\_3 | .121706 .0327858 3.71 0.000 .057447 .185965

 wealth\_4 | .1548591 .034024 4.55 0.000 .0881732 .2215449

 wealth\_5 | .158712 .0702229 2.26 0.024 .0210776 .2963463

 wealth\_6 | .2613348 .1044059 2.50 0.012 .056703 .4659667

 parexp4 | .118682 .0109023 10.89 0.000 .0973139 .1400501

 arisan | .0317864 .0122844 2.59 0.010 .0077094 .0558634

 commeet | .0100115 .0099063 1.01 0.312 -.0094046 .0294276

 kerjabakti | -.0102462 .0098113 -1.04 0.296 -.0294759 .0089836

 religgroup | -.0095821 .0100979 -0.95 0.343 -.0293737 .0102094

 age\_18 | .2335973 .0266273 8.77 0.000 .1814087 .2857858

 age\_19 | .3052554 .0257324 11.86 0.000 .2548209 .35569

 age\_20 | .3230225 .0263519 12.26 0.000 .2713737 .3746714

 age\_21 | .3312525 .0263547 12.57 0.000 .2795983 .3829068

 age\_22 | .3440015 .0263196 13.07 0.000 .2924159 .395587

 age\_23 | .3666905 .0261226 14.04 0.000 .3154911 .4178899

 marriage | -.197782 .0154972 -12.76 0.000 -.2281559 -.1674081

 sex | -.0877326 .0105301 -8.33 0.000 -.1083713 -.0670939

 ethnic | -.0566345 .0150421 -3.77 0.000 -.0861164 -.0271526

 religion | -.0344297 .0151579 -2.27 0.023 -.0641385 -.0047208

 jawa | .0192599 .0148089 1.30 0.193 -.0097651 .0482849

 ruralurban | .0482035 .0108399 4.45 0.000 .0269578 .0694493

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. margins, dydx(\*)

Average marginal effects Number of obs = 3388

Model VCE : OIM

Expression : Pr(pse), predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

------------------------------------------------------------------------------

 | Delta-method

 | dy/dx Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | .1192849 .0166832 7.15 0.000 .0865863 .1519834

 wealth\_2 | .1014789 .0412646 2.46 0.014 .0206018 .1823561

 wealth\_3 | .1475334 .0398475 3.70 0.000 .0694338 .2256331

 wealth\_4 | .187722 .0410878 4.57 0.000 .1071913 .2682526

 wealth\_5 | .1923925 .0850747 2.26 0.024 .0256491 .3591359

 wealth\_6 | .3167931 .1259538 2.52 0.012 .0699282 .5636581

 parexp4 | .1438677 .0110907 12.97 0.000 .1221304 .1656051

 arisan | .0385319 .0147963 2.60 0.009 .0095316 .0675322

 commeet | .012136 .0119927 1.01 0.312 -.0113692 .0356413

 kerjabakti | -.0124205 .0118863 -1.04 0.296 -.0357173 .0108762

 religgroup | -.0116156 .0122473 -0.95 0.343 -.0356197 .0123886

 age\_18 | .2831693 .0369681 7.66 0.000 .2107132 .3556254

 age\_19 | .3700342 .0359123 10.30 0.000 .2996474 .4404209

 age\_20 | .3915717 .0362239 10.81 0.000 .3205742 .4625692

 age\_21 | .4015482 .0362242 11.09 0.000 .33055 .4725464

 age\_22 | .4170026 .0363063 11.49 0.000 .3458435 .4881616

 age\_23 | .4445065 .0361761 12.29 0.000 .3736026 .5154104

 marriage | -.2397536 .0155399 -15.43 0.000 -.2702113 -.209296

 sex | -.1063505 .0114295 -9.30 0.000 -.1287519 -.083949

 ethnic | -.068653 .0178568 -3.84 0.000 -.1036517 -.0336544

 religion | -.041736 .0182087 -2.29 0.022 -.0774244 -.0060477

 jawa | .0233471 .0179045 1.30 0.192 -.011745 .0584392

 ruralurban | .0584329 .0129577 4.51 0.000 .0330362 .0838296

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. quietly probit $ylist $xlist

. margins, dydx(\*) atmeans

Conditional marginal effects Number of obs = 3388

Model VCE : OIM

Expression : Pr(pse), predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

at : pareduc = .0932704 (mean)

 wealth\_2 = .2665289 (mean)

 wealth\_3 = .5168241 (mean)

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 wealth\_6 = .001771 (mean)

 parexp4 = .4067296 (mean)

 arisan = .1596812 (mean)

 commeet = .4539551 (mean)

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 sex = .4453955 (mean)

 ethnic = .5882527 (mean)

 religion = .9046635 (mean)

 jawa = .5345336 (mean)

 ruralurban = .6201299 (mean)

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 | Delta-method

 | dy/dx Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | .1236319 .0184426 6.70 0.000 .0874851 .1597787

 wealth\_2 | .1142452 .0401115 2.85 0.004 .0356281 .1928624

 wealth\_3 | .1546494 .0389074 3.97 0.000 .0783922 .2309065

 wealth\_4 | .1935043 .0403432 4.80 0.000 .1144331 .2725754

 wealth\_5 | .1949928 .085746 2.27 0.023 .0269337 .3630518

 wealth\_6 | .3165712 .1299039 2.44 0.015 .0619642 .5711782

 parexp4 | .1425577 .0122497 11.64 0.000 .1185487 .1665668

 arisan | .0383442 .0148479 2.58 0.010 .0092428 .0674456

 commeet | .0108084 .0118751 0.91 0.363 -.0124664 .0340833

 kerjabakti | -.0108636 .0117791 -0.92 0.356 -.0339501 .012223

 religgroup | -.0108816 .0120969 -0.90 0.368 -.0345911 .0128278

 age\_18 | .2503636 .0278298 9.00 0.000 .1958182 .3049091

 age\_19 | .3344254 .0270779 12.35 0.000 .2813537 .387497

 age\_20 | .3577393 .0278984 12.82 0.000 .3030595 .4124191

 age\_21 | .3661716 .028007 13.07 0.000 .3112788 .4210644

 age\_22 | .3846314 .0276807 13.90 0.000 .3303782 .4388845

 age\_23 | .4099446 .027646 14.83 0.000 .3557595 .4641298

 marriage | -.2312799 .0165346 -13.99 0.000 -.2636872 -.1988726

 sex | -.1061843 .0121577 -8.73 0.000 -.130013 -.0823556

 ethnic | -.0722313 .0177351 -4.07 0.000 -.1069914 -.0374711

 religion | -.0413732 .018618 -2.22 0.026 -.0778639 -.0048825

 jawa | .0241878 .017605 1.37 0.169 -.0103174 .058693

 ruralurban | .0551712 .0127145 4.34 0.000 .0302512 .0800911

------------------------------------------------------------------------------

. margins, dydx(\*)

Average marginal effects Number of obs = 3388

Model VCE : OIM

Expression : Pr(pse), predict()

dy/dx w.r.t. : pareduc wealth\_2 wealth\_3 wealth\_4 wealth\_5 wealth\_6 parexp4 arisan commeet

 kerjabakti religgroup age\_18 age\_19 age\_20 age\_21 age\_22 age\_23 marriage sex

 ethnic religion jawa ruralurban

------------------------------------------------------------------------------

 | Delta-method

 | dy/dx Std. Err. z P>|z| [95% Conf. Interval]

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

 pareduc | .1260018 .0174921 7.20 0.000 .0917179 .1602857

 wealth\_2 | .1164352 .0412711 2.82 0.005 .0355453 .1973251

 wealth\_3 | .1576138 .0400742 3.93 0.000 .0790699 .2361577

 wealth\_4 | .1972135 .0414483 4.76 0.000 .1159762 .2784508

 wealth\_5 | .1987305 .0875572 2.27 0.023 .0271216 .3703394

 wealth\_6 | .3226395 .1322986 2.44 0.015 .0633389 .5819401

 parexp4 | .1452904 .0113682 12.78 0.000 .1230092 .1675716

 arisan | .0390792 .0150858 2.59 0.010 .0095116 .0686469

 commeet | .0110156 .012095 0.91 0.362 -.0126901 .0347214

 kerjabakti | -.0110718 .0120041 -0.92 0.356 -.0345994 .0124558

 religgroup | -.0110902 .0123341 -0.90 0.369 -.0352647 .0130843

 age\_18 | .2551628 .0305806 8.34 0.000 .195226 .3150996

 age\_19 | .3408359 .0297061 11.47 0.000 .282613 .3990588

 age\_20 | .3645967 .0301781 12.08 0.000 .3054487 .4237448

 age\_21 | .3731906 .0302435 12.34 0.000 .3139145 .4324667

 age\_22 | .3920043 .0300968 13.02 0.000 .3330156 .450993

 age\_23 | .4178028 .0300564 13.90 0.000 .3588934 .4767122

 marriage | -.2357133 .0149957 -15.72 0.000 -.2651043 -.2063222

 sex | -.1082197 .0116726 -9.27 0.000 -.1310976 -.0853419

 ethnic | -.0736158 .0178564 -4.12 0.000 -.1086138 -.0386179

 religion | -.0421663 .0188777 -2.23 0.026 -.0791658 -.0051667

 jawa | .0246515 .0179169 1.38 0.169 -.0104651 .059768

 ruralurban | .0562287 .0128795 4.37 0.000 .0309853 .0814721

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. \*Logistic model gives odds ratio

. logistic $ylist $xlist

Logistic regression Number of obs = 3388

 LR chi2(23) = 1158.65

 Prob > chi2 = 0.0000

Log likelihood = -1130.3561 Pseudo R2 = 0.3388

------------------------------------------------------------------------------

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

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

 pareduc | 3.13621 .5179469 6.92 0.000 2.26897 4.334925

 wealth\_2 | 2.644269 1.048396 2.45 0.014 1.215689 5.751601

 wealth\_3 | 4.111136 1.579975 3.68 0.000 1.935672 8.731565

 wealth\_4 | 6.042364 2.403265 4.52 0.000 2.771108 13.17529

 wealth\_5 | 6.318926 5.163823 2.26 0.024 1.273626 31.35052

 wealth\_6 | 20.81315 25.2065 2.51 0.012 1.938476 223.4681

 parexp4 | 3.969237 .4593846 11.91 0.000 3.163677 4.979915

 arisan | 1.446608 .2058667 2.59 0.009 1.094502 1.911988

 commeet | 1.123322 .1291611 1.01 0.312 .8966684 1.407267

 kerjabakti | .8877933 .1011824 -1.04 0.296 .7100679 1.110002

 religgroup | .8946676 .1050181 -0.95 0.343 .7107973 1.126102

 age\_18 | 15.08037 5.438476 7.52 0.000 7.437737 30.57618

 age\_19 | 34.66578 12.39758 9.91 0.000 17.19826 69.87431

 age\_20 | 42.61178 15.45606 10.34 0.000 20.93069 86.75124

 age\_21 | 46.88639 17.0452 10.58 0.000 22.99316 95.60815

 age\_22 | 54.37015 19.88204 10.93 0.000 26.55179 111.3339

 age\_23 | 70.765 25.95751 11.61 0.000 34.48156 145.2279

 marriage | .1005224 .016593 -13.92 0.000 .0727372 .1389213

 sex | .3609286 .0414315 -8.88 0.000 .2882111 .4519933

 ethnic | .5179641 .0893849 -3.81 0.000 .3693245 .7264258

 religion | .6703707 .1173548 -2.28 0.022 .4756681 .9447698

 jawa | 1.250717 .2148042 1.30 0.193 .893243 1.751252

 ruralurban | 1.750528 .2193844 4.47 0.000 1.369281 2.237926

 \_cons | .0028101 .0015047 -10.97 0.000 .0009839 .0080263

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. \* Predicted probabilities

. quietly logit $ylist $xlist

. predict plogit, pr

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. quietly probit $ylist $xlist

. predict pprobit, pr

.

. quietly regress $ylist $xlist

. predict pols, xb

.

. summarize $ylist plogit pprobit pols

 Variable | Obs Mean Std. Dev. Min Max

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

 pse | 3388 .2030697 .4023433 0 1

 plogit | 3388 .2030697 .2397697 .0001617 .9521084

 pprobit | 3388 .2044773 .2349215 1.59e-06 .9543865

 pols | 3388 .2030697 .220164 -.4210546 .879174

.

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. \* Percent correctly predicted values

. quietly logit $ylist $xlist

. estat classification

Logistic model for pse

 -------- True --------

Classified | D ~D | Total

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

 + | 343 132 | 475

 - | 345 2568 | 2913

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

 Total | 688 2700 | 3388

Classified + if predicted Pr(D) >= .5

True D defined as pse != 0

--------------------------------------------------

Sensitivity Pr( +| D) 49.85%

Specificity Pr( -|~D) 95.11%

Positive predictive value Pr( D| +) 72.21%

Negative predictive value Pr(~D| -) 88.16%

--------------------------------------------------

False + rate for true ~D Pr( +|~D) 4.89%

False - rate for true D Pr( -| D) 50.15%

False + rate for classified + Pr(~D| +) 27.79%

False - rate for classified - Pr( D| -) 11.84%

--------------------------------------------------

Correctly classified 85.92%

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. quietly probit $ylist $xlist

. estat classification

Probit model for pse

 -------- True --------

Classified | D ~D | Total

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

 + | 338 136 | 474

 - | 350 2564 | 2914

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

 Total | 688 2700 | 3388

Classified + if predicted Pr(D) >= .5

True D defined as pse != 0

--------------------------------------------------

Sensitivity Pr( +| D) 49.13%

Specificity Pr( -|~D) 94.96%

Positive predictive value Pr( D| +) 71.31%

Negative predictive value Pr(~D| -) 87.99%

--------------------------------------------------

False + rate for true ~D Pr( +|~D) 5.04%

False - rate for true D Pr( -| D) 50.87%

False + rate for classified + Pr(~D| +) 28.69%

False - rate for classified - Pr( D| -) 12.01%

--------------------------------------------------

Correctly classified 85.66%

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