

List of variables:

/\*\*Set up\*\*/

DHSClust = clustering variable  
Weight = individual sampling weight  
del = place of delivery (0 for home delivery and 1 for facility delivery)  
del2 = place of delivery (1 for home delivery and 0 for facility delivery)  
v021 = primary sampling unit  
v022 = stratification used  
residence = urban/rural (1 for rural and 0 for urban)

/\*\*Outcomes\*\*/

binarympnc1 = maternal postnatal care within 1 day  
binarympnc7 = maternal postnatal care within 7 days  
binarypnc1 = newborn postnatal care within 1 day  
binarypnc7 = newborn postnatal care within 7 days

/\*\*Facility Indicators\*\*/

clinic5\_pnc = clinic-level facilities providing postnatal care within 5 km of household cluster  
hc5\_pnc = health centers providing postnatal care within 5 km of household cluster  
hosp5\_pnc = hospitals providing postnatal care within 5 km of household cluster  
clinic10\_pnc = clinic-level facilities providing postnatal care between 5 km and 10 km of household cluster  
hc10\_pnc = health centers providing postnatal care between 5 km and 10 km of household cluster  
hosp10\_pnc = hospitals providing postnatal care between 5 km and 10 km of household cluster  
clinic15\_pnc = clinic-level facilities providing postnatal care between 10 km and 15 km of household cluster  
hc15\_pnc = health centers providing postnatal care between 10 km and 15 km of household cluster  
hosp15\_pnc = hospitals providing postnatal care between 10 km and 15 km of household cluster

/\*\*Covariates\*\*/

religion = women's religion  
v024 = region of the country where women live  
seasons = seasons in which women gave birth  
tvradio = ownership of TV or radio  
moneyfortreat = cost of treatment being a perceived problem  
age = women's age  
education = women's education  
employment = women's employment  
wealthrural = rural-specific household wealth quintile  
birthnum = women's number of births  
nsize = newborn size  
nsex = newborn sex  
mhealthcheckb4 = maternal health checked before facility discharge (for facility births)  
newborncheckb4 = newborn health checked before facility discharge (for facility births)  
csect = receipt of cesarean section

```

. /*****
> sensitivity analysis:
> running
>
> svy:logit
>
> for comparison with xtgee
> *****/
.
. /*****
> Home
> Delivery
> Only
> *****/
.
. ****Survey weights
. gen weight = v005/1000000
(1 missing value generated)

. svyset [pweight=weight], psu(v021) strata(v022)

      pweight: weight
             VCE: linearized
Single unit: missing
  Strata 1: v022
        SU 1: v021
        FPC 1: <zero>

.
. ****Analysis commands
. svy, subpop(del2 if residence == 1):logit binarympnc1 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.v024 i.seasons i.tvradio i.moneyfortreat i.age i.education i.employment
i.wealthrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)

```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,931
Number of PSUs	=	677	Population size	=	11,371.089
			Subpop. no. obs	=	665
			Subpop. size	=	771.762269
			Design df	=	649
			F( 33, 617)	=	2.47
			Prob > F	=	0.0000

binarympnc1	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]
clinic5_pnc	.4689543	.7146189	0.66	0.512	-.93429 1.872199
hc5_pnc	.8037216	.3017	2.66	0.008	.2112956 1.396148
hosp5_pnc	.2826816	.4181037	0.68	0.499	-.5383176 1.103681

clinic10_pnc	-.3227672	.4059522	-0.80	0.427	-1.119905	.4743711
hc10_pnc	.392799	.346284	1.13	0.257	-.2871733	1.072771
hosp10_pnc	.633105	.3239283	1.95	0.051	-.002969	1.269179
clinic15_pnc	-.6292756	.3794965	-1.66	0.098	-1.374465	.1159135
hc15_pnc	-.1185838	.4212724	-0.28	0.778	-.9458053	.7086377
hosp15_pnc	.2730744	.3114736	0.88	0.381	-.3385432	.884692
religion						
other christian	.4941307	.5273263	0.94	0.349	-.5413409	1.529602
muslim/no religion	.8281798	.6082934	1.36	0.174	-.3662809	2.02264
v024						
central region	-.5605679	.49082	-1.14	0.254	-1.524355	.403219
southern region	-.6426761	.472115	-1.36	0.174	-1.569733	.2843813
seasons						
winter-dry season	-1.333253	.4478779	-2.98	0.003	-2.212717	-.453788
hot-dry season	-.3137807	.4660865	-0.67	0.501	-1.229	.6014388
1.tvradio	.7963471	.296584	2.69	0.007	.213967	1.378727
1.moneyfortreat	-.1847489	.3113118	-0.59	0.553	-.7960489	.4265511
age						
25-34	.2439738	.4325908	0.56	0.573	-.6054727	1.09342
35-49	.1996337	.660266	0.30	0.762	-1.096882	1.496149
education						
primary	.7224109	.4830036	1.50	0.135	-.2260276	1.670849
secondary	.0301387	1.064968	0.03	0.977	-2.06106	2.121337
1.employment	.8265339	.3362284	2.46	0.014	.1663071	1.486761
wealthrural						
2	-1.527109	.4902645	-3.11	0.002	-2.489805	-.5644125
3	-.1969838	.3300693	-0.60	0.551	-.8451165	.4511488
4	-.8908902	.4495559	-1.98	0.048	-1.77365	-.0081306
5	-1.690299	.665144	-2.54	0.011	-2.996393	-.3842046
birthnum						
2-3	-.8887321	.6028721	-1.47	0.141	-2.072547	.2950831
4+	-.5611786	.6960806	-0.81	0.420	-1.928021	.8056632
nsize						
2	.6988296	.5989976	1.17	0.244	-.4773776	1.875037
3	1.121127	.5238846	2.14	0.033	.0924132	2.14984
4	-.1057045	.6301303	-0.17	0.867	-1.343045	1.131636
5	.0920459	.9426445	0.10	0.922	-1.758955	1.943047
nsex						
female	.3744744	.3664653	1.02	0.307	-.3451264	1.094075
_cons	-3.03974	.847856	-3.59	0.000	-4.704612	-1.374868

-----  
Note: 28 strata omitted because they contain no subpopulation members.

. margins, dydx(\*)



4	-.1078314	.0536285	-2.01	0.045	-.2131377	-.0025251
5	-.168184	.0557598	-3.02	0.003	-.2776755	-.0586925
birthnum						
2-3	-.0961441	.0733938	-1.31	0.191	-.2402621	.0479739
4+	-.0657786	.0854176	-0.77	0.442	-.2335068	.1019497
nsize						
2	.0568726	.0460358	1.24	0.217	-.0335245	.1472696
3	.1042727	.0392052	2.66	0.008	.0272885	.181257
4	-.0065223	.0391764	-0.17	0.868	-.0834502	.0704056
5	.00609	.0635255	0.10	0.924	-.1186502	.1308302
nsex						
female	.0382554	.0374969	1.02	0.308	-.0353745	.1118854

Note: dy/dx for factor levels is the discrete change from the base level.

```
.
. svy, subpop(del2 if residence == 1):logit binarympnc7 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.v024 i.seasons i.tvradio i.moneyfortreat i.age i.education i.employment
i.wealthrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,931
Number of PSUs	=	677	Population size	=	11,371.089
			Subpop. no. obs	=	665
			Subpop. size	=	771.762269
			Design df	=	649
			F( 33, 617)	=	1.83
			Prob > F	=	0.0036

binarympnc7	Linearized					[95% Conf. Interval]
	Coef.	Std. Err.	t	P> t		
clinic5_pnc	1.010565	.5679035	1.78	0.076	-.1045847	2.125715
hc5_pnc	.5799468	.2602093	2.23	0.026	.0689931	1.090901
hosp5_pnc	-.0438926	.3557276	-0.12	0.902	-.7424086	.6546233
clinic10_pnc	-.0400707	.3032325	-0.13	0.895	-.6355058	.5553645
hc10_pnc	.2300665	.2702491	0.85	0.395	-.3006017	.7607347
hosp10_pnc	.5833298	.2672668	2.18	0.029	.0585178	1.108142
clinic15_pnc	-.6066854	.3237301	-1.87	0.061	-1.24237	.0289994
hc15_pnc	-.291712	.3539768	-0.82	0.410	-.98679	.4033661
hosp15_pnc	.2083065	.276439	0.75	0.451	-.3345163	.7511293
religion						
other christian	.3857305	.4442921	0.87	0.386	-.486693	1.258154
muslim/no religion	.5223289	.5140244	1.02	0.310	-.4870228	1.531681



2.birthnum 3.birthnum 2.nsize 3.nsize 4.nsize 5.nsize 1.nsex

	Delta-method					[95% Conf. Interval]	
	dy/dx	Std. Err.	t	P> t			
clinic5_pnc	.1282709	.0724998	1.77	0.077	-.0140915	.2706333	
hc5_pnc	.0736126	.033853	2.17	0.030	.007138	.1400871	
hosp5_pnc	-.0055713	.0452215	-0.12	0.902	-.0943694	.0832268	
clinic10_pnc	-.0050862	.0385311	-0.13	0.895	-.0807468	.0705744	
hc10_pnc	.0292023	.0342889	0.85	0.395	-.0381282	.0965328	
hosp10_pnc	.074042	.0339088	2.18	0.029	.0074578	.1406261	
clinic15_pnc	-.0770065	.0418068	-1.84	0.066	-.1590995	.0050865	
hc15_pnc	-.037027	.0446509	-0.83	0.407	-.1247047	.0506508	
hosp15_pnc	.0264403	.0351017	0.75	0.452	-.0424863	.0953669	
religion							
other christian	.0451919	.0483457	0.93	0.350	-.0497409	.1401247	
muslim/no religion	.0634917	.0607699	1.04	0.297	-.0558377	.1828211	
v024							
central region	-.0219297	.0555521	-0.39	0.693	-.1310132	.0871538	
southern region	-.0432455	.0538751	-0.80	0.422	-.1490361	.0625451	
seasons							
winter-dry season	-.099645	.0428263	-2.33	0.020	-.1837397	-.0155502	
hot-dry season	-.0284497	.0584503	-0.49	0.627	-.1432243	.0863249	
1.tvradio	.0652734	.0386027	1.69	0.091	-.0105279	.1410746	
1.moneyfortreat	-.0009922	.0369204	-0.03	0.979	-.07349	.0715056	
age							
25-34	-.0346672	.0586702	-0.59	0.555	-.1498736	.0805391	
35-49	-.0279146	.085002	-0.33	0.743	-.1948268	.1389976	
education							
primary	.1298332	.0751711	1.73	0.085	-.0177747	.2774412	
secondary	-.0221665	.11065	-0.20	0.841	-.2394418	.1951087	
1.employment	.0784521	.0311495	2.52	0.012	.0172862	.1396181	
wealthrural							
2	-.1417127	.0603833	-2.35	0.019	-.2602829	-.0231424	
3	-.0327464	.0491345	-0.67	0.505	-.1292281	.0637353	
4	-.06647	.0696855	-0.95	0.341	-.2033063	.0703663	
5	-.1642446	.0647513	-2.54	0.011	-.2913919	-.0370972	
birthnum							
2-3	-.1143512	.0721603	-1.58	0.114	-.2560471	.0273446	
4+	-.0724184	.0921112	-0.79	0.432	-.2532903	.1084535	
nsize							
2	-.0166103	.0859209	-0.19	0.847	-.1853269	.1521063	
3	-.0007393	.0756204	-0.01	0.992	-.1492295	.1477509	
4	-.0684348	.0762685	-0.90	0.370	-.2181976	.081328	

5	-.0896721	.0904308	-0.99	0.322	-.2672444	.0879003
nsex						
female	.0569735	.0439342	1.30	0.195	-.0292968	.1432438

Note: dy/dx for factor levels is the discrete change from the base level.

```
. svy, subpop(del2 if residence == 1):logit binarypnc1 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.v024 i.seasons i.tvradio i.moneyfortreat i.age i.education i.employment
i.wealthrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,930
Number of PSUs	=	677	Population size	=	11,369.917
			Subpop. no. obs	=	664
			Subpop. size	=	770.591103
			Design df	=	649
			F( 33, 617)	=	1.58
			Prob > F	=	0.0221

binarypnc1	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	-.3307765	.6829086	-0.48	0.628	-1.671754	1.010201
hc5_pnc	.6283333	.3056533	2.06	0.040	.0281446	1.228522
hosp5_pnc	1.274421	.5728891	2.22	0.026	.1494806	2.399361
clinic10_pnc	.2810775	.2988207	0.94	0.347	-.3056947	.8678496
hc10_pnc	.2579889	.3348703	0.77	0.441	-.3995712	.915549
hosp10_pnc	.278517	.2838075	0.98	0.327	-.2787748	.8358088
clinic15_pnc	-.0780185	.328598	-0.24	0.812	-.7232621	.567225
hc15_pnc	.464243	.4128062	1.12	0.261	-.3463539	1.27484
hosp15_pnc	-.0023731	.2796953	-0.01	0.993	-.5515901	.5468438
religion						
other christian	.3394777	.4191723	0.81	0.418	-.4836199	1.162575
muslim/no religion	.671941	.5342402	1.26	0.209	-.3771068	1.720989
v024						
central region	-.8275759	.4482294	-1.85	0.065	-1.707731	.0525789
southern region	-1.458329	.5393457	-2.70	0.007	-2.517402	-.3992554
seasons						
winter-dry season	-.5308535	.3678137	-1.44	0.149	-1.253102	.1913951
hot-dry season	-.0220792	.3594674	-0.06	0.951	-.7279387	.6837803
1.tvradio	.3235816	.2803122	1.15	0.249	-.2268467	.8740099
1.moneyfortreat	.1965356	.3001651	0.65	0.513	-.3928763	.7859475





hosp10_pnc	.0334964	.0339459	0.99	0.324	-.0331605	.1001534
clinic15_pnc	-.0093831	.039679	-0.24	0.813	-.0872978	.0685317
hc15_pnc	.0558332	.0492919	1.13	0.258	-.0409577	.1526241
hosp15_pnc	-.0002854	.0336425	-0.01	0.993	-.0663466	.0657758
religion						
other christian	.0373268	.0433931	0.86	0.390	-.0478811	.1225346
muslim/no religion	.0809398	.0651453	1.24	0.215	-.0469811	.2088608
v024						
central region	-.1315806	.0764672	-1.72	0.086	-.2817336	.0185724
southern region	-.2022867	.0810867	-2.49	0.013	-.3615106	-.0430628
seasons						
winter-dry season	-.0607054	.0398364	-1.52	0.128	-.1389292	.0175185
hot-dry season	-.002887	.0468676	-0.06	0.951	-.0949174	.0891433
1.tvradio	.0396234	.0349761	1.13	0.258	-.0290566	.1083034
1.moneyfortreat	.0234543	.0353501	0.66	0.507	-.0459601	.0928687
age						
25-34	.1137246	.0444886	2.56	0.011	.0263656	.2010835
35-49	.0707946	.0671124	1.05	0.292	-.060989	.2025782
education						
primary	-.0200914	.0406646	-0.49	0.621	-.0999415	.0597587
secondary	-.1168236	.0647534	-1.80	0.072	-.2439751	.0103279
1.employment	.0651955	.031985	2.04	0.042	.0023889	.1280021
wealthrural						
2	.0849796	.0452978	1.88	0.061	-.0039682	.1739275
3	.1115359	.0519835	2.15	0.032	.0094597	.213612
4	.0699088	.0505561	1.38	0.167	-.0293645	.1691821
5	.0834728	.0540009	1.55	0.123	-.0225647	.1895103
birthnum						
2-3	-.1321057	.0830073	-1.59	0.112	-.295101	.0308895
4+	-.1791818	.0962826	-1.86	0.063	-.3682448	.0098812
nsize						
2	-.0635262	.0749911	-0.85	0.397	-.2107806	.0837282
3	-.0986173	.0719012	-1.37	0.171	-.2398044	.0425698
4	-.1453921	.0784517	-1.85	0.064	-.2994419	.0086577
5	-.1934661	.0786953	-2.46	0.014	-.3479942	-.038938
nsex						
female	.0003482	.0390675	0.01	0.993	-.0763658	.0770622

Note: dy/dx for factor levels is the discrete change from the base level.

```
.
. svy, subpop(del2 if residence == 1):logit binarypnc7 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
```

```

> i.religion i.v024 i.seasons i.tvradio i.moneyfortreat i.age i.education i.employment
i.wealthrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)

```

Survey: Logistic regression

```

Number of strata = 28
Number of PSUs = 677
Number of obs = 10,930
Population size = 11,369.917
Subpop. no. obs = 664
Subpop. size = 770.591103
Design df = 649
F( 33, 617) = 1.00
Prob > F = 0.4688

```

binarypnc7	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	.2440603	.5101461	0.48	0.633	-.7576759	1.245796
hc5_pnc	.3724995	.2353896	1.58	0.114	-.0897177	.8347167
hosp5_pnc	.6846773	.4711668	1.45	0.147	-.2405181	1.609873
clinic10_pnc	.1950144	.2300091	0.85	0.397	-.2566374	.6466662
hc10_pnc	.2251459	.2219502	1.01	0.311	-.2106812	.6609731
hosp10_pnc	.3799208	.2321174	1.64	0.102	-.075871	.8357125
clinic15_pnc	.0184957	.24624	0.08	0.940	-.4650275	.5020188
hc15_pnc	-.1153795	.2870314	-0.40	0.688	-.6790018	.4482429
hosp15_pnc	.0610503	.221403	0.28	0.783	-.3737023	.4958029
religion						
other christian	.0815087	.3226888	0.25	0.801	-.5521315	.7151489
muslim/no religion	-.0291353	.423732	-0.07	0.945	-.8611864	.8029158
v024						
central region	-.2804139	.3482708	-0.81	0.421	-.9642875	.4034597
southern region	-.5468548	.3541319	-1.54	0.123	-1.242237	.1485279
seasons						
winter-dry season	-.2276981	.3168302	-0.72	0.473	-.8498342	.394438
hot-dry season	-.2747952	.2860364	-0.96	0.337	-.8364636	.2868733
1.tvradio	.0388962	.2398108	0.16	0.871	-.4320026	.509795
1.moneyfortreat	.2288167	.2253334	1.02	0.310	-.2136538	.6712872
age						
25-34	.3605479	.3498309	1.03	0.303	-.3263892	1.047485
35-49	.3117922	.4228843	0.74	0.461	-.5185944	1.142179
education						
primary	.061771	.3345601	0.18	0.854	-.5951799	.7187219
secondary	-1.459007	.9081137	-1.61	0.109	-3.242202	.324189
1.employment	.2581898	.2629074	0.98	0.326	-.2580621	.7744417
wealthrural						



southern region	-.1050912	.0712816	-1.47	0.141	-.2450616	.0348791
seasons						
winter-dry season	-.042557	.0583988	-0.73	0.466	-.1572304	.0721163
hot-dry season	-.0508736	.051538	-0.99	0.324	-.152075	.0503279
1.tvradio	.0072412	.0447568	0.16	0.872	-.0806444	.0951267
1.moneyfortreat	.0422259	.0413739	1.02	0.308	-.039017	.1234688
age						
25-34	.0658161	.0631116	1.04	0.297	-.0581114	.1897436
35-49	.056373	.0772666	0.73	0.466	-.0953497	.2080957
education						
primary	.0118427	.0646502	0.18	0.855	-.115106	.1387914
secondary	-.1925346	.0753518	-2.56	0.011	-.3404973	-.0445718
1.employment	.0470784	.0468576	1.00	0.315	-.0449323	.1390891
wealthrural						
2	.1214012	.0565197	2.15	0.032	.0104176	.2323849
3	.1209385	.0611421	1.98	0.048	.0008784	.2409986
4	.1189006	.0615573	1.93	0.054	-.001975	.2397762
5	.0678605	.0697002	0.97	0.331	-.0690046	.2047256
birthnum						
2-3	-.077358	.0874767	-0.88	0.377	-.2491294	.0944134
4+	-.1373767	.1010995	-1.36	0.175	-.3358983	.0611448
nsize						
2	-.1142897	.0886015	-1.29	0.198	-.28827	.0596906
3	-.1322783	.0895722	-1.48	0.140	-.3081646	.043608
4	-.1159939	.0924745	-1.25	0.210	-.2975793	.0655915
5	-.1175348	.1207227	-0.97	0.331	-.3545891	.1195195
nsex						
female	.025013	.0482086	0.52	0.604	-.0696507	.1196768

Note: dy/dx for factor levels is the discrete change from the base level.

```

.
. /*****
> Facility
> Delivery
> Only
> *****/
.
. ****Survey weights
. gen weight = v005/1000000
(1 missing value generated)

. svyset [pweight=weight], psu(v021) strata(v022)

      pweight: weight
      VCE: linearized

```

Single unit: missing  
 Strata 1: v022  
 SU 1: v021  
 FPC 1: <zero>

```
. ***Analysis commands
. svy, subpop(del if residence == 1):logit specialmpnc7 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.mhealthcheckb4 i.v024 i.csect i.seasons i.tvradio i.moneyfortreat i.age
i.education i.employment i.wealt
> hrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,774
Number of PSUs	=	677	Population size	=	11,193.203
			Subpop. no. obs	=	10,083
			Subpop. size	=	10,394.781
			Design df	=	649
			F( 35, 615)	=	8.38
			Prob > F	=	0.0000

specialmpnc7	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	-.1713843	.2521968	-0.68	0.497	-.6666045	.3238358
hc5_pnc	.2877873	.1240143	2.32	0.021	.0442695	.531305
hosp5_pnc	.2992524	.1804548	1.66	0.098	-.0550932	.6535981
clinic10_pnc	-.0002366	.1540629	-0.00	0.999	-.3027585	.3022854
hc10_pnc	.4077845	.1317325	3.10	0.002	.1491112	.6664579
hosp10_pnc	-.3143191	.1357553	-2.32	0.021	-.5808917	-.0477466
clinic15_pnc	-.003234	.1436078	-0.02	0.982	-.285226	.2787581
hc15_pnc	.0831673	.1562004	0.53	0.595	-.2235518	.3898864
hosp15_pnc	-.0333368	.1334811	-0.25	0.803	-.2954436	.2287701
religion						
other christian	-.1521579	.0986293	-1.54	0.123	-.3458289	.0415131
muslim/no religion	-.3150643	.1525993	-2.06	0.039	-.6147123	-.0154164
1.mhealthcheckb4	1.167813	.0812546	14.37	0.000	1.008259	1.327367
v024						
central region	-.6765987	.1658213	-4.08	0.000	-1.00221	-.3509877
southern region	-.3003476	.1605883	-1.87	0.062	-.615683	.0149878
1.csect	.0679381	.1324842	0.51	0.608	-.1922113	.3280875
seasons						
winter-dry season	-.0302841	.0764426	-0.40	0.692	-.1803887	.1198206
hot-dry season	.0690617	.0956194	0.72	0.470	-.118699	.2568224



clinic5_pnc	-.0192471	.028343	-0.68	0.497	-.0749021	.0364078
hc5_pnc	.0323196	.0138848	2.33	0.020	.0050551	.0595842
hosp5_pnc	.0336072	.0204014	1.65	0.100	-.0064535	.073668
clinic10_pnc	-.0000266	.0173019	-0.00	0.999	-.034001	.0339479
hc10_pnc	.0457958	.0150406	3.04	0.002	.0162618	.0753298
hosp10_pnc	-.0352993	.015333	-2.30	0.022	-.0654076	-.0051909
clinic15_pnc	-.0003632	.0161292	-0.02	0.982	-.0320348	.0313084
hc15_pnc	.00934	.0175674	0.53	0.595	-.0251558	.0438358
hosp15_pnc	-.0037438	.014966	-0.25	0.803	-.0331314	.0256437
religion						
other christian	-.0179044	.0119663	-1.50	0.135	-.0414017	.0055928
muslim/no religion	-.0352706	.0168611	-2.09	0.037	-.0683795	-.0021617
1.mhealthcheckb4	.130677	.009676	13.51	0.000	.111677	.149677
v024						
central region	-.0799752	.0207653	-3.85	0.000	-.1207504	-.0391999
southern region	-.0396011	.0219927	-1.80	0.072	-.0827866	.0035844
1.csect	.0077714	.0153973	0.50	0.614	-.022463	.0380059
seasons						
winter-dry season	-.0033614	.0084798	-0.40	0.692	-.0200125	.0132897
hot-dry season	.0079066	.0109906	0.72	0.472	-.0136749	.0294881
1.tvradio	-.0036004	.0095702	-0.38	0.707	-.0223926	.0151918
1.moneyfortreat	.0081266	.0098056	0.83	0.408	-.011128	.0273811
age						
25-34	.0073065	.0112183	0.65	0.515	-.0147221	.0293352
35-49	.0194492	.015073	1.29	0.197	-.0101486	.0490469
education						
primary	.0118626	.0107865	1.10	0.272	-.0093179	.0330432
secondary	.0456694	.0230566	1.98	0.048	.0003948	.0909441
1.employment	.0438846	.0093979	4.67	0.000	.0254306	.0623386
wealthrural						
2	.0152595	.0117217	1.30	0.193	-.0077575	.0382765
3	.0063066	.0113466	0.56	0.579	-.0159739	.0285871
4	.0150795	.0134122	1.12	0.261	-.0112571	.0414161
5	.020778	.0159108	1.31	0.192	-.0104649	.0520208
birthnum						
2-3	.0249585	.0119408	2.09	0.037	.0015113	.0484057
4+	.0122931	.0148323	0.83	0.408	-.016832	.0414182
nsize						
2	-.0044108	.017532	-0.25	0.801	-.038837	.0300155
3	-.0161621	.0155438	-1.04	0.299	-.0466844	.0143602
4	-.0083325	.0183818	-0.45	0.650	-.0444275	.0277625
5	-.062973	.0193413	-3.26	0.001	-.1009521	-.024994



nsex							
female		.0020704	.007877	0.26	0.793	-.013397	.0175378

-----  
Note: dy/dx for factor levels is the discrete change from the base level.

```
.
. svy, subpop(del if residence == 1):logit specialpnc7 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.newborncheckb4 i.v024 i.csect i.seasons i.tvradio i.moneyfortreat i.age
i.education i.employment i.wealt
> hrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,720
Number of PSUs	=	677	Population size	=	11,143.466
			Subpop. no. obs	=	10,029
			Subpop. size	=	10,345.044
			Design df	=	649
			F( 35, 615)	=	6.52
			Prob > F	=	0.0000

specialpnc7	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	-.7972276	.2244289	-3.55	0.000	-1.237922	-.3565332
hc5_pnc	.0694486	.0909467	0.76	0.445	-.1091367	.2480338
hosp5_pnc	.1815618	.1307986	1.39	0.166	-.0752778	.4384013
clinic10_pnc	-.2507205	.1271165	-1.97	0.049	-.5003297	-.0011113
hc10_pnc	.3851476	.0996665	3.86	0.000	.1894399	.5808553
hosp10_pnc	-.0651567	.0937966	-0.69	0.488	-.2493381	.1190248
clinic15_pnc	.1727465	.1162374	1.49	0.138	-.0555004	.4009933
hc15_pnc	.1280178	.1199678	1.07	0.286	-.1075542	.3635898
hosp15_pnc	-.0715044	.0911826	-0.78	0.433	-.250553	.1075441
religion						
other christian	-.0870707	.0807371	-1.08	0.281	-.2456081	.0714667
muslim/no religion	-.1483652	.1354283	-1.10	0.274	-.4142959	.1175654
1.newborncheckb4	.5879751	.0758647	7.75	0.000	.4390052	.736945
v024						
central region	-.8264429	.1231042	-6.71	0.000	-1.068174	-.5847122
southern region	-.6545487	.1256078	-5.21	0.000	-.9011954	-.4079019
1.csect	-.3920524	.13414	-2.92	0.004	-.6554532	-.1286515
seasons						
winter-dry season	-.0018992	.0630699	-0.03	0.976	-.1257449	.1219466
hot-dry season	-.0497317	.0831904	-0.60	0.550	-.2130866	.1136232



hc5_pnc	.0120453	.0157414	0.77	0.444	-.0188649	.0429555
hosp5_pnc	.0314904	.0227019	1.39	0.166	-.0130877	.0760684
clinic10_pnc	-.0434853	.0219244	-1.98	0.048	-.0865367	-.000434
hc10_pnc	.0668006	.0173388	3.85	0.000	.0327538	.1008474
hosp10_pnc	-.0113009	.016294	-0.69	0.488	-.0432963	.0206945
clinic15_pnc	.0299614	.0201963	1.48	0.138	-.0096966	.0696194
hc15_pnc	.0222036	.0208396	1.07	0.287	-.0187176	.0631248
hosp15_pnc	-.0124018	.0158295	-0.78	0.434	-.0434851	.0186814
religion						
other christian	-.0153791	.0144532	-1.06	0.288	-.0437598	.0130016
muslim/no religion	-.0258356	.0233601	-1.11	0.269	-.0717061	.020035
1.newborncheckb4	.0975287	.0120471	8.10	0.000	.0738726	.1211847
v024						
central region	-.1590754	.0248363	-6.40	0.000	-.2078446	-.1103062
southern region	-.1303944	.0262167	-4.97	0.000	-.1818742	-.0789147
1.csect	-.0623722	.0195298	-3.19	0.001	-.1007214	-.024023
seasons						
winter-dry season	-.0003308	.0109875	-0.03	0.976	-.0219062	.0212445
hot-dry season	-.0085666	.0142961	-0.60	0.549	-.0366389	.0195057
1.tvradio	-.0134992	.0108907	-1.24	0.216	-.0348845	.0078861
1.moneyfortreat	.0017591	.011466	0.15	0.878	-.020756	.0242741
age						
25-34	-.0220782	.015651	-1.41	0.159	-.0528109	.0086544
35-49	-.0402362	.020195	-1.99	0.047	-.0798916	-.0005809
education						
primary	.0196743	.0139295	1.41	0.158	-.0076779	.0470266
secondary	.0380163	.026941	1.41	0.159	-.0148858	.0909184
1.employment	.067877	.0115029	5.90	0.000	.0452897	.0904644
wealthrural						
2	.0174049	.016749	1.04	0.299	-.0154839	.0502938
3	.0304523	.0172714	1.76	0.078	-.0034623	.0643668
4	.037664	.0174288	2.16	0.031	.0034404	.0718876
5	.0529382	.0189081	2.80	0.005	.0158097	.0900667
birthnum						
2-3	.0350953	.0151343	2.32	0.021	.0053772	.0648134
4+	.0502606	.0190068	2.64	0.008	.0129384	.0875827
nsize						
2	.0297394	.0195669	1.52	0.129	-.0086827	.0681616
3	.0107398	.0184608	0.58	0.561	-.0255104	.0469899
4	.0025887	.0217606	0.12	0.905	-.040141	.0453184
5	-.0327587	.0257407	-1.27	0.204	-.0833039	.0177864
nsex						

female | -.013678 .0090093 -1.52 0.129 -.0313688 .0040129

-----  
 Note: dy/dx for factor levels is the discrete change from the base level.

```
.
. ***Appendix analysis
. svy, subpop(del if residence == 1):logit binarympnc1 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.mhealthcheckb4 i.v024 i.csect i.seasons i.tvradio i.moneyfortreat i.age
i.education i.employment i.wealt
> hrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,774
Number of PSUs	=	677	Population size	=	11,193.203
			Subpop. no. obs	=	10,083
			Subpop. size	=	10,394.781
			Design df	=	649
			F( 35, 615)	=	3.62
			Prob > F	=	0.0000

binarympnc1	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	.6902585	.4632379	1.49	0.137	-.2193675	1.599884
hc5_pnc	-.1427565	.2071828	-0.69	0.491	-.5495861	.264073
hosp5_pnc	-.8636086	.3499622	-2.47	0.014	-1.550804	-.1764138
clinic10_pnc	.1737064	.2927978	0.59	0.553	-.4012389	.7486517
hc10_pnc	.0075948	.2364449	0.03	0.974	-.4566945	.4718842
hosp10_pnc	-.1110662	.2197209	-0.51	0.613	-.5425158	.3203834
clinic15_pnc	-.4459529	.2342792	-1.90	0.057	-.9059897	.0140839
hc15_pnc	-.2770907	.2328956	-1.19	0.235	-.7344105	.1802292
hosp15_pnc	-.4099068	.2138935	-1.92	0.056	-.8299137	.0101001
religion						
other christian	.1252275	.2164145	0.58	0.563	-.2997296	.5501845
muslim/no religion	-.9873748	.3815415	-2.59	0.010	-1.73658	-.2381701
1.mhealthcheckb4	1.156496	.1830431	6.32	0.000	.7970683	1.515925
v024						
central region	-1.267796	.2990112	-4.24	0.000	-1.854942	-.6806496
southern region	-.1300683	.2731065	-0.48	0.634	-.6663472	.4062106
1.csect	.1728796	.3299634	0.52	0.601	-.475045	.8208042
seasons						
winter-dry season	-.4740604	.1814635	-2.61	0.009	-.8303869	-.1177339
hot-dry season	-.3086193	.2202082	-1.40	0.162	-.7410259	.1237872



hc5_pnc	-.0028674	.0041612	-0.69	0.491	-.0110385	.0053036
hosp5_pnc	-.0173466	.0072646	-2.39	0.017	-.0316116	-.0030815
clinic10_pnc	.0034891	.0059298	0.59	0.556	-.0081549	.015133
hc10_pnc	.0001526	.0047511	0.03	0.974	-.0091769	.009482
hosp10_pnc	-.0022309	.00444	-0.50	0.616	-.0109494	.0064876
clinic15_pnc	-.0089575	.0049599	-1.81	0.071	-.0186969	.0007819
hc15_pnc	-.0055657	.0046706	-1.19	0.234	-.0147369	.0036056
hosp15_pnc	-.0082335	.0043514	-1.89	0.059	-.0167779	.000311
religion						
other christian	.0027593	.0045821	0.60	0.547	-.0062382	.0117568
muslim/no religion	-.0134087	.0052703	-2.54	0.011	-.0237576	-.0030598
1.mhealthcheckb4	.0221677	.0037591	5.90	0.000	.0147863	.0295492
v024						
central region	-.0232597	.0074043	-3.14	0.002	-.0377989	-.0087204
southern region	-.0038151	.0082522	-0.46	0.644	-.0200194	.0123892
1.csect	.0037169	.0076257	0.49	0.626	-.0112571	.0186909
seasons						
winter-dry season	-.0092688	.0034888	-2.66	0.008	-.0161194	-.0024182
hot-dry season	-.006481	.0044427	-1.46	0.145	-.0152048	.0022428
1.tvradio	.0062964	.0039514	1.59	0.112	-.0014627	.0140556
1.moneyfortreat	.0058825	.0035745	1.65	0.100	-.0011364	.0129014
age						
25-34	-.0017803	.0043474	-0.41	0.682	-.010317	.0067564
35-49	-.0024486	.0061335	-0.40	0.690	-.0144925	.0095953
education						
primary	-.0021465	.0036468	-0.59	0.556	-.0093075	.0050146
secondary	-.0010015	.0107415	-0.09	0.926	-.0220938	.0200908
1.employment	-.0027087	.0034063	-0.80	0.427	-.0093974	.00398
wealthrural						
2	.0049418	.0051898	0.95	0.341	-.0052489	.0151326
3	.0014009	.0050998	0.27	0.784	-.0086132	.011415
4	-.0040219	.0051773	-0.78	0.438	-.0141882	.0061444
5	-.0005622	.0059831	-0.09	0.925	-.0123108	.0111864
birthnum						
2-3	.0006535	.0045356	0.14	0.885	-.0082528	.0095598
4+	-.0011257	.0056756	-0.20	0.843	-.0122705	.0100192
nsize						
2	-.0008052	.0061746	-0.13	0.896	-.0129297	.0113194
3	.0043828	.006072	0.72	0.471	-.0075404	.016306
4	-.000498	.0074128	-0.07	0.946	-.0150541	.014058
5	.0023097	.0095528	0.24	0.809	-.0164484	.0210678
nsex						

female | .0015027 .0030808 0.49 0.626 -.0045468 .0075522

-----  
 Note: dy/dx for factor levels is the discrete change from the base level.

```
. svy, subpop(del if residence == 1):logit binarypnc1 clinic5_pnc hc5_pnc hosp5_pnc ///
> clinic10_pnc hc10_pnc hosp10_pnc ///
> clinic15_pnc hc15_pnc hosp15_pnc ///
> i.religion i.newborncheckb4 i.v024 i.csect i.seasons i.tvradio i.moneyfortreat i.age
i.education i.employment i.wealt
> hrural ///
> i.birthnum i.nsize i.nsex
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	28	Number of obs	=	10,720
Number of PSUs	=	677	Population size	=	11,143.466
			Subpop. no. obs	=	10,029
			Subpop. size	=	10,345.044
			Design df	=	649
			F( 35, 615)	=	2.26
			Prob > F	=	0.0001

binarypnc1	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
clinic5_pnc	.1273111	.4504968	0.28	0.778	-.7572961	1.011918
hc5_pnc	-.0981596	.2094017	-0.47	0.639	-.5093462	.313027
hosp5_pnc	-.4227043	.3100487	-1.36	0.173	-1.031524	.1861154
clinic10_pnc	.3026479	.2660244	1.14	0.256	-.2197245	.8250203
hc10_pnc	.0001427	.2240476	0.00	0.999	-.439803	.4400885
hosp10_pnc	-.2390088	.2111028	-1.13	0.258	-.6535357	.1755181
clinic15_pnc	-.2210003	.2337769	-0.95	0.345	-.6800506	.2380501
hc15_pnc	.0043599	.2748253	0.02	0.987	-.5352942	.544014
hosp15_pnc	-.4983598	.2125228	-2.34	0.019	-.9156751	-.0810445
religion						
other christian	-.0224034	.240471	-0.09	0.926	-.4945985	.4497917
muslim/no religion	-.9726906	.3827261	-2.54	0.011	-1.724221	-.2211597
1.newborncheckb4	.8862694	.2173108	4.08	0.000	.4595522	1.312987
v024						
central region	-.1434647	.3397785	-0.42	0.673	-.8106626	.5237333
southern region	.7502831	.317386	2.36	0.018	.1270558	1.37351
1.csect	-.8385553	.5223252	-1.61	0.109	-1.864207	.1870962
seasons						
winter-dry season	-.0510674	.1684633	-0.30	0.762	-.3818662	.2797315
hot-dry season	-.3306809	.2212887	-1.49	0.136	-.7652092	.1038474
1.tvradio	.5376109	.1647877	3.26	0.001	.2140295	.8611923

1.moneyfortreat	.2377566	.1825438	1.30	0.193	-.1206912	.5962043
age						
25-34	-.0750642	.245106	-0.31	0.760	-.5563607	.4062323
35-49	-.0073627	.3122698	-0.02	0.981	-.6205438	.6058185
education						
primary	-.2246152	.2168105	-1.04	0.301	-.65035	.2011195
secondary	-.5194271	.4823611	-1.08	0.282	-1.466604	.4277497
1.employment	.2425661	.1870795	1.30	0.195	-.1247881	.6099203
wealthrural						
2	.1009932	.2310206	0.44	0.662	-.3526449	.5546313
3	-.0798653	.2300369	-0.35	0.729	-.5315717	.3718411
4	.0595342	.2551008	0.23	0.816	-.4413883	.5604568
5	-.5595173	.2893864	-1.93	0.054	-1.127764	.0087293
birthnum						
2-3	-.0201103	.2350157	-0.09	0.932	-.4815932	.4413726
4+	-.2064249	.2945802	-0.70	0.484	-.7848702	.3720203
nsize						
2	.2131295	.3146183	0.68	0.498	-.4046632	.8309222
3	.0938037	.2929898	0.32	0.749	-.4815186	.669126
4	.3092759	.3369274	0.92	0.359	-.3523235	.9708753
5	-.0210719	.4610583	-0.05	0.964	-.926418	.8842742
nsex						
female	-.0918444	.1525318	-0.60	0.547	-.3913598	.207671
_cons	-4.881232	.6187807	-7.89	0.000	-6.096286	-3.666178

Note: 28 strata omitted because they contain no subpopulation members.

. margins, dydx(\*)

Average marginal effects  
Model VCE : Linearized

Number of obs = 10,029

Expression : Pr(binarypnc1), predict()

dy/dx w.r.t. : clinic5\_pnc hc5\_pnc hosp5\_pnc clinic10\_pnc hc10\_pnc hosp10\_pnc clinic15\_pnc  
hc15\_pnc hosp15\_pnc

2.religion 3.religion 1.newborncheckb4 2.v024 3.v024 1.csect 2.seasons  
3.seasons 1.tvradio

1.moneyfortreat 2.age 3.age 2.education 3.education 1.employment

2.wealthrural 3.wealthrural

4.wealthrural 5.wealthrural 2.birthnum 3.birthnum 2.nsize 3.nsize 4.nsize  
5.nsize 1.nsex

	dy/dx	Delta-method Std. Err.	t	P> t	[95% Conf. Interval]
clinic5_pnc	.0022669	.0080168	0.28	0.777	-.0134751 .018009
hc5_pnc	-.0017479	.0037304	-0.47	0.640	-.0090729 .0055772



hosp5_pnc	-.0075268	.0055626	-1.35	0.176	-.0184496	.0033961
clinic10_pnc	.005389	.0048174	1.12	0.264	-.0040706	.0148487
hc10_pnc	2.54e-06	.0039895	0.00	0.999	-.0078313	.0078363
hosp10_pnc	-.0042558	.0038341	-1.11	0.267	-.0117846	.0032729
clinic15_pnc	-.0039352	.0042139	-0.93	0.351	-.0122097	.0043393
hc15_pnc	.0000776	.004894	0.02	0.987	-.0095324	.0096877
hosp15_pnc	-.0088739	.0038854	-2.28	0.023	-.0165034	-.0012444
religion						
other christian	-.0004551	.0049197	-0.09	0.926	-.0101155	.0092052
muslim/no religion	-.0130618	.0053426	-2.44	0.015	-.0235527	-.0025709
1.newborncheckb4	.0132626	.0029341	4.52	0.000	.0075011	.0190241
v024						
central region	-.0017412	.0042496	-0.41	0.682	-.0100859	.0066035
southern region	.0141958	.0052039	2.73	0.007	.0039772	.0244143
1.csect	-.0106279	.0045656	-2.33	0.020	-.019593	-.0016628
seasons						
winter-dry season	-.0009511	.0031207	-0.30	0.761	-.0070791	.0051768
hot-dry season	-.0054227	.0033769	-1.61	0.109	-.0120536	.0012083
1.tvradio	.0101063	.0034884	2.90	0.004	.0032564	.0169561
1.moneyfortreat	.0041382	.0031424	1.32	0.188	-.0020324	.0103088
age						
25-34	-.0013296	.0043747	-0.30	0.761	-.0099199	.0072608
35-49	-.0001346	.0057055	-0.02	0.981	-.0113381	.0110689
education						
primary	-.0038125	.0034626	-1.10	0.271	-.0106118	.0029868
secondary	-.0077317	.0057359	-1.35	0.178	-.0189949	.0035315
1.employment	.0041182	.003072	1.34	0.181	-.001914	.0101505
wealthrural						
2	.0019902	.0045483	0.44	0.662	-.006941	.0109213
3	-.0014462	.0041681	-0.35	0.729	-.0096307	.0067383
4	.0011505	.0049412	0.23	0.816	-.0085522	.0108532
5	-.0081693	.0042134	-1.94	0.053	-.0164429	.0001044
birthnum						
2-3	-.0003865	.0045297	-0.09	0.932	-.0092811	.0085081
4+	-.0036422	.0052859	-0.69	0.491	-.0140217	.0067373
nsize						
2	.0036813	.00523	0.70	0.482	-.0065884	.013951
3	.00153	.0046492	0.33	0.742	-.0075993	.0106592
4	.0055974	.0060523	0.92	0.355	-.006287	.0174819
5	-.0003255	.007099	-0.05	0.963	-.0142652	.0136143
nsex						
female	-.0016337	.0027312	-0.60	0.550	-.0069967	.0037293

-----  
Note:  $dy/dx$  for factor levels is the discrete change from the base level.

.  
end of do-file

-----  
-----