

<unnamed> name:

/nas/longleaf/home/rayrayc/hrs_margins_final.smcl log:

log type: smcl

opened on: 27 Nov 2022, 23:45:13

1 . * Look at all margins.

2 . margins, dydx(*)

Average marginal effects

Model VCE: Robust

Number of obs = 94,720

Expression: Linear prediction, predict()
dy/dx wrt: {res:5.wave 6.wave 7.wave 8.wave 9.wave 10.wave 11.wave 12.wave 13.wave 14.wave 2.cendiv 3.cendiv 4.cendiv 5.cendiv 6.cendiv 7.cendiv 8.cendiv 9.cendiv 11.cendiv 2.gender 2.raracem 3.raracem 1.rahispan 1.hibp 3.hibp

4.hibp 5.hibp 1.bmi_miss 1.smoken_new 1.smokev_new 1.smokev_miss raedyrs 1.shltc_miss shltc_new drinkn 2.pstmem 3.pstmem 2.mstat 3.mstat 4.mstat 1.Shitc_miss shitc_new drinkh 2.pstmem 3.pstmem 2.mstat 3.mstat 4.mstat 5.mstat 6.mstat 7.mstat 8.mstat 1.depres 1.effort 1.sleepr 1.arthr 3.arthr 4.arthr 5.arthr 1.heart 3.heart 4.heart 5.heart 6.heart 1.strok 2.strok 3.strok 4.strok 5.strok 1.psych 3.psych 4.psych 5.psych 1.lung 3.lung 4.lung 5.lung 1.diab 3.diab 4.diab 5.diab 2.slfmem 3.slfmem 4.slfmem 5.slfmem 2.lbrf 3.lbrf 4.lbrf 5.lbrf 6.lbrf 7.lbrf loghatotb loghspti logearn timwlk_new puff_new 1.puffpos_new 2.puffpos_new 3.puffpos_new 3.alzhe_new 4.alzhe_new 7.alzhe_new 3.puffpos_new 1.domen_new 1.domen_ne

1.demen_new 3.demen_new 4.demen_new 1.fsad 1.going 1.enlife 1.whappy 1.cancr 3.cancr 4.cancr 5.cancr 1.phone 2.phone 9.phone 1.meds_miss 1.meds_new 2.meds_new 9.meds_new 1.money 2.money 9.money 1.shop 2.shop 9.shop 1.meals 2.meals 9.meals 1.map 2.map 9.map oopmdo_new agey_m

bmi_new}

			dy /dy	Delta-method		D> 1 = 1	[OF9/ oon
> f.	. interval]		dy/dx	std. err.	Z	P> z	[95% con
		wave					
	4040044	wave 5	2935244	.0521249	-5.63	0.000	3956874
>	1913614	6	2902034	. 05395	-5.38	0.000	3959435
>	1844633	7	5406542	. 0557148	-9.70	0.000	6498531
>	4314552	8	5135157	. 0588397	-8.73	0.000	6288394
>	398192	9	4837999	. 0602962	-8.02	0.000	6019784
>	3656215	10	9190802	. 0629135	-14.61	0.000	-1.042388
>	795772	11	- , 8629895	.0643754	-13.41	0.000	9891629
>	736816	12	6794074	.0669131	-10.15	0.000	8105547
>	5482602	13	6172317	.0686722	-8.99	0.000	7518268
>	4826367	_					
>	1323625	14	2766354	.07361	-3.76	0.000	4209082
		cendiv 2.mid atlantic	. 4122437	. 1199125	3.44	0.001	.1772196
>	. 6472678	3.en central	.1101777	.1162705	0.95	0.343	1177083
>	. 3380637	4.wn central		.1266277	1.64	0.101	0407143
>	. 4556573		. 2074715				
>	. 2731172	5.s atlantic	.0550471	.1112623	0.49	0.621	163023
>	. 0257754	6.es central	2381862	. 1346767	-1.77	0.077	5021477

>	.2379083	7.ws central	0081542	. 1255444	-0.06	0.948	2542167
>	. 4075115	8.mountain	.1415219	. 1357115	1.04	0.297	1244677
>	.4651374	9.pacific	. 22791	.1210366	1.88	0.060	0093174
>		ot us/inc us terr	2086466	. 4452677	-0.47	0.639	-1.081355
>	1.043378	gender 2.female	.9436424	. 0508863	18.54	0.000	.8439071
		raracem ⁄african american	-2.425884	. 0753262	-32.21	0.000	-2.573521
>	-2.278247 7999995	3.other	-1.046158	.1255933	-8.33	0.000	-1.292316
>	1498435	rahispan 1.hispanic	3522478	.1032694	-3.41	0.001	554652
	0722205	hibp 1.yes	0049748	. 0399524	-0.12	0.901	0832801
	.0733305 lisp prev red 1.113732	cord and has cond	. 2418994	. 4448209	0.54	0.587	6299335
	disp prev re	ecord and no cond	2755033	.1011574	-2.72	0.006	4737682
> 5.d >	0772385 lisp prev red 1482015	cord (dk if cond)	8248655	.3452431	-2.39	0.017	-1.501529
>	2.547855	1.bmi_miss	2.015726	. 2714995	7.42	0.000	1.483597
>	.0451804	1.smoken_new	0824182	.0651025	-1.27	0.206	2100167
>	.0958991	1.smokev_new	.0000131	.0489224	0.00	1.000	095873
>	.8314542	1.smokev_miss	. 2193511	.3123032	0.70	0.482	392752
>	. 4928591	raedyrs	.4759107	.0086473	55.04	0.000	. 4589624
>	1672185	1.shltc_miss	-1.023968	. 4371253	-2.34	0.019	-1.880718
>	.0537801	shltc_new	.0308407	.011704	2.64	0.008	.0079014
>	.0789833	drinkn	. 0504557	.0145552	3.47	0.001	.021928
	1070000	pstmem					
>	.9446349	2.same	.7545503	.0969837	7.78	0.000	. 5644657
>	.8650718	3.worse	. 6691715	. 099951	6.69	0.000	. 4732711
	10000710	mstat					
>	2.marri . 2943302	ied, spouse absent	.0191581	.1403965	0.14	0.891	256014
>	0294626	3.partnered	2286802	.1016435	-2.25	0.024	4278979
		4.separated	3744608	.1495331	-2.50	0.012	6675404
>	0813813	5.divorced	.0729701	.0718353	1.02	0.310	0678246
>		eparated/divorced	.0027371	.9226422	0.00	0.998	-1.805608
>	1.811083	7.widowed	0021045	.0461207	-0.05	0.964	0924995
>	.0882904	8.never married	2638073	. 1346727	-1.96	0.050	5277609
>	.0001464						

>3107202	depres 1.yes	398158	.0446119	-8.92	0.000	4855958
>1246605	effort 1.yes	1921901	. 0344545	-5.58	0.000	2597196
> .1827429	sleepr 1.yes	.1260394	. 0289309	4.36	0.000	. 0693359
	arthr 1.yes	. 202318	. 0401227	5.04	0.000	.1236789
> .2809571 3.disp prev record and ha	s cond	1189112	. 5872224	-0.20	0.840	-1.269846
> 1.032024 4.disp prev record and r	no cond	2263444	. 097349	-2.33	0.020	4171449
>0355439 5.disp prev record (dk if > .4307471		1572339	. 2999958	-0.52	0.600	7452148
	heart 1.yes	.0341907	. 0393624	0.87	0.385	0429582
> .1113397 3.disp prev record and ha	s cond	1128856	. 8908605	-0.13	0.899	-1.85894
> 1.633169 4.disp prev record and r	no cond	2128443	.1247985	-1.71	0.088	4574448
> .0317561 5.disp prev record (dk if	cond)	3387269	. 4994982	-0.68	0.498	-1.317725
<pre>> .6402715 6.preld prob:prev had/ > .5019903</pre>	'no new	. 1433234	.1829967	0.78	0.434	2153434
	strok					
>607822	1.yes	7435222	.0692361	-10.74	0.000	8792224
2.tia/possible > .3597899	stroke	.087421	.1389663	0.63	0.529	1849479
3.disp prev record and ha	is cond	8707069	.8249081	-1.06	0.291	-2.487497
4.disp prev record and r >3860501	no cond	9056299	.2650966	-3.42	0.001	-1.42521
5.disp prev record (dk if > 1.672305	cond)	.0271442	.8393831	0.03	0.974	-1.618017
>0729624	psych 1.yes	1788346	. 0540174	-3.31	0.001	2847067
3.disp prev record and ha	s cond	0972782	. 5659723	-0.17	0.864	-1.206564
4.disp prev record and r	no cond	0950656	.1159854	-0.82	0.412	3223928
> .1322617 5.disp prev record (dk if > .8337391	cond)	.0949344	.3769481	0.25	0.801	6438704
	lung					
> .2565756	1.yes	.1481199	. 0553356	2.68	0.007	. 0396642
3.disp prev record and ha > 1.040176		.0059443	. 5276789	0.01	0.991	-1.028287
4.disp prev record and r > .2391202		0411092	.1429768	-0.29	0.774	3213386
5.disp prev record (dk if > .5721127	cond)	2724897	. 4309275	-0.63	0.527	-1.117092
>1755845	diab 1.yes	2628366	. 0445172	-5.90	0.000	3500888
3.disp prev record and ha	s cond	3363794	.7355001	-0.46	0.647	-1.777933
> 1.105174 4.disp prev record and r	no cond	3351524	. 1399547	-2.39	0.017	6094586

		I					
>	. 0397543	enlife 1.yes	0713692	. 0566967	-1.26	0.208	1824926
>	. 0242592	whappy 1.yes	0655291	. 0458112	-1.43	0.153	1553175
		cancr					
>	.3530711	1.yes	. 260884	.0470351	5.55	0.000	.1686968
3.di >	isp prev recor 7274693	rd and has cond	-2.788052	1.051337	-2.65	0.008	-4.848635
>	. 2210356	ord and no cond	1809247	. 2050856	-0.88	0.378	582885
5.di >	isp prev recor 1.613711	rd (dk if cond)	.3614438	. 6389236	0.57	0.572	8908234
		phone					
>	5634375	1.yes	7269894	. 0834464	-8.71	0.000	8905413
>	-1.005599	2.can't do	-1.802971	.4068299	-4.43	0.000	-2.600343
>	8638598	9.don't do	-1.307356	. 2262779	-5.78	0.000	-1.750853
		1.meds_miss	0831236	. 0945588	-0.88	0.379	2684556
>	.1022083	11005100	10001200		0.00	0.0.0	1200.000
		meds_new 1	9009932	.0960127	-9.38	0.000	-1.089175
>	7128118	2	-2.451134	.5526838	-4.43	0.000	-3.534375
>	-1.367894	9	5628584	.5385242	-1.05	0.296	-1.618346
>	. 4926296	9 1	5020504	. 5365242	-1.05	0.290	-1.010340
		money	4 40474	0700405	20. 20	0.000	4 604000
>	-1.338538	1.yes	-1.48171	. 0730485	-20.28	0.000	-1.624883
>	-1.509115	2.can't do	-1.967298	. 2337712	-8.42	0.000	-2.425481
>	7046426	9.don't do	8435905	.0708931	-11.90	0.000	9825384
		shop					
>	1397367	1.yes	2508846	. 0567092	-4.42	0.000	3620325
>	0818537	2.can't do	4287521	.1769923	-2.42	0.015	7756506
>	3769504	9.don't do	5417942	. 0841055	-6.44	0.000	706638
		meals					
>	4516209	1.yes	5847184	.0679081	-8.61	0.000	7178159
>	1659956	2.can't do	5243948	.1828601	-2.87	0.004	882794
>	2549629	9.don't do	3783146	.0629357	-6.01	0.000	5016664
		map					
>	4754692	1.yes	5703531	. 048411	-11.78	0.000	665237
>	5282196	2.can't do	6965826	.0859011	-8.11	0.000	8649456
>	4413178	9.don't do	5322553	.0463976	-11.47	0.000	6231929
	44131/0	oopmdo_new	-4.46e-06	2.14e-06	-2.09	0.037	-8.64e-06
>	-2.73e-07	oopiiido_new i	-4.406-00	2.14C-UD	-2.09	U.U3/	-0.046-00

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```
agey_m
                                           -.1955513
                                                         .0032513
                                                                     -60.15
                                                                               0.000
                                                                                          -.2019237
        -.1891789
                               bmi_new
                                             .0557174
                                                         .0044212
                                                                       12.60
                                                                                0.000
                                                                                            .047052
         .0643828
  Note: dy/dx for factor levels is the discrete change from the base level.
3 . marginsplot
  Variables that uniquely identify margins: _deriv
4 . graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi > ns_all.gph", as(png) replace option as() not allowed
  r(198);
6 . * Look at average marginal effects of age from 18 to 100.
7 . margins, dydx(agey_m) at (age = (18 (1) 100))
                                                                  Number of obs = 94,720
  Average marginal effects
  Model VCE: Robust
  Expression: Linear prediction, predict()
  dy/dx wrt: agey_m
  1._at:
          agey_m =
           agey_m =
  2._at:
                      19
  3._at:
           agey_m =
                      20
  4._at:
           agey_m =
                       21
           agey_m =
                      22
  5._at:
           agey_m =
  6._at:
                      23
  7._at:
           agey_m =
                      24
           agey_m =
  8._at:
                      25
           agey_m =
  9._at:
                       26
  10._at: agey_m =
                      27
  11._at: agey_m =
                       28
  12._at: agey_m =
                      29
  13._at: agey_m =
                      30
  14._at: agey_m =
                       31
  15._at: agey_m =
                      32
  16._at: agey_m =
                      33
  17._at: agey_m = 
18._at: agey_m =
                       34
                      35
  19._at: ağey_m =
                      36
  20._at: agey_m =
                      37
  21._at: agey_m =
                       38
  22._at: agey_m =
                      39
  23._at: agey_m =
                       40
  24._at: agey_m = 25._at: agey_m =
                       41
                      42
  26._at: agey_m =
                       43
  27._at: agey_m =
                      44
  28.\_at: agey\_m =
                       45
  29._at: ağey_m =
                       46
  30._at: agey_m =
                       47
  31._at: agey_m =
                       48
  32._at: ağey_m =
                       49
  33._at: agey_m =
                      50
  34._at: agey_m = 35._at: agey_m =
                      51
                      52
  36._at: ağey_m =
                      53
  37._at: agey_m =
                      54
  38._at: agey_m =
                       55
  39._at: agey_m =
                      56
  40._at: agey_m =
                      57
  41._at: agey_m = 42._at: agey_m =
                      58
                      59
  43._at: agey_m =
                      60
  44._at: agey_m = 45._at: agey_m =
                      61
```

```
46.\_at: agey\_m =
                        63
47._at: agey_m =
48._at: agey_m =
                         65
49._at: agey_m = 50._at: agey_m =
                         66
                         67
51._at: agey_m =
                         68
52._at: agey_m = 53._at: agey_m =
                         69
                         70
54._at: agey_m =
                         71
55._at: agey_m = 56._at: agey_m =
                         72
73
57._at: agey_m =
                         74
58._at: ağey_m =
                         75
59._at: agey_m = 60._at: agey_m =
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                         77
61._at: agey_m =
                         78
62._at: agey_m = 63._at: agey_m =
                         79
                         80
64._at: agey_m =
                         81
65._at: agey_m = 66._at: agey_m =
                         82
                         83
67._at: agey_m =
                         84
68._at: agey_m =
                         85
69._at: agey_m = 70._at: agey_m =
                         86
                         87
71._at: agey_m =
                         88
72._at: agey_m = 73._at: agey_m =
                         89
                         90
74._at: agey_m =
                         91
75._at: ağey_m =
                         92
76._at: agey_m = 77._at: agey_m =
                         93
                         94
78.\_at: agey\_m =
                         95
79._at: agey_m = 80._at: agey_m =
                         96
                         97
81._at: agey_m =
82._at: agey_m = 99
83._at: agey_m = 100
```

		I	Delta-method				
		dy/dx	std. err.	Z	P> z	[95% conf.	interval]
agey_m							
	_at						
	1	.9024971	. 2266195	3.98	0.000	. 4583311	1.346663
	2	.8741538	. 218995	3.99	0.000	. 4449314	1.30337
	3	.8461306	. 2115006	4.00	0.000	. 4315971	1.26066
	4	.8184274	. 204136	4.01	0.000	. 4183281	1.21852
	5 6	.7910443	.1969015	4.02	0.000	. 4051245	1.17696
	6	.7639811	.1897969	4.03	0.000	.3919861	1.13597
	7	.737238	.1828222	4.03	0.000	.378913	1.09556
	8	.7108149	.1759776	4.04	0.000	. 3659053	1.05572
	9	.6847119	.1692628	4.05	0.000	. 3529628	1.01646
	10	. 6589288	.1626781	4.05	0.000	. 3400856	.97777
	11	. 6334658	. 1562233	4.05	0.000	.3272737	. 939657
	12	.6083228	.1498985	4.06	0.000	.3145271	.902118
	13	. 5834998	.1437037	4.06	0.000	.3018458	. 865153
	14	. 5589969	.1376388	4.06	0.000	. 2892297	. 82876
	15	.5348139	. 131704	4.06	0.000	. 2766789	.79294
	16	.510951	.1258991	4.06	0.000	. 2641933	. 757708
	17	. 4874082	.1202243	4.05	0.000	. 2517729	. 723043
	18	. 4641853	.1146794	4.05	0.000	. 2394178	. 688952
	19	. 4412825	.1092646	4.04	0.000	. 2271278	. 655437
	20	. 4186997	.1039798	4.03	0.000	.214903	. 622496
	21	. 3964369	. 098825	4.01	0.000	. 2027433	. 590130
	22	.3744941	.0938004	3.99	0.000	.1906488	. 558339
	23	.3528714	. 0889057	3.97	0.000	.1786193	. 527123
	24	.3315686	.0841412	3.94	0.000	. 1666548	. 496482
	25	.310586	.0795069	3.91	0.000	. 1547554	. 466416
	26	. 2899233	.0750026	3.87	0.000	.1429208	. 436925
	27	. 2695806	. 0706286	3.82	0.000	. 1311511	. 408010

28	. 249558	.0663848	3.76	0.000	.1194461	.3796699
_						
29	. 2298554	.0622713	3.69	0.000	. 1078058	. 351905
30	.2104729	.0582882	3.61	0.000	.0962301	.3247156
31	.1914103	. 0544355	3.52	0.000	.0847187	. 2981019
32	.1726678	.0507133	3.40	0.001	.0732716	. 2720639
33	.1542453	.0471217	3.27	0.001	.0618885	.2466021
		-	-			
34	.1361428	. 0436608	3.12	0.002	.0505691	. 2217165
35	.1183603	.0403309	2.93	0.003	.0393131	. 1974075
36	.1008979	.0371322	2.72	0.007	.0281202	.1736756
37	. 0837555	.0340648	2.46	0.014	.0169897	. 1505213
38	.0669331	.0311291	2.15	0.032	.0059211	. 1279451
39	.0504308	.0283256	1.78	0.075	0050864	.1059479
			_			
40	. 0342484	. 0256547	1.33	0.182	0160339	. 0845308
41	.0183861	.0231172	0.80	0.426	0269228	. 063695
42	.0028438	.020714	0.14	0.891	0377549	.0434425
			-			
43	0123785	.0184463	-0.67	0.502	0485325	. 0237756
44	0272807	. 0163157	-1.67	0.095	059259	. 0046976
45	0418629	.0143246	-2.92	0.003	0699387	0137872
-						
46	0561251	.0124761	-4.50	0.000	0805778	0316725
47	0700673	.0107745	-6.50	0.000	091185	0489496
48	0836894	.0092263	-9.07	0.000	1017726	0656062
_						
49	0969916	.0078404	-12.37	0.000	1123584	0816247
50	1099737	. 0066295	-16.59	0.000	1229672	0969801
51	1226357	.0056106	-21.86	0.000	1336324	1116391
-						
52	1349778	.0048042	-28.10	0.000	1443938	1255618
53	1469998	.0042279	-34.77	0.000	1552863	1387134
54	1587018	.0038842	-40.86	0.000	1663147	151089
55	1700838	.0037472	-45.39	0.000	1774281	1627395
					_	
56	1811458	. 0037635	-48.13	0.000	1885221	1737694
57	1918877	.0038708	-49.57	0.000	1994743	1843011
58	2023096	.0040158	-50.38	0.000	2101805	1944387
59	2124115	.0041625	-51.03	0.000	2205698	2042532
60	2221934	.0042909	-51.78	0.000	2306034	2137833
61	2316552	.0043952	-52.71	0.000	2402696	2230408
			-			
62	240797	.0044807	-53.74	0.000	2495791	2320149
63	2496188	.0045636	-54.70	0.000	2585632	2406744
64	2581206	.0046692	-55.28	0.000	267272	2489692
65	2663023	.0048313	-55.12	0.000	2757714	2568332
66	2741641	. 0050877	-53.89	0.000	2841358	2641923
67	2817058	.0054749	-51.45	0.000	2924363	2709752
68	2889274	.0060208	-47.99	0.000	300728	2771268
69	2958291	.0067422	-43.88	0.000	3090436	2826146
70	3024107	.0076446	-39.56	0.000	3173939	2874275
71	3086723	.0087261	-35.37	0.000	3257752	2915694
				7 7 7 7 7		
72	3146139	.009981	-31.52	0.000	3341763	2950516
73	3202355	.0114023	-28.09	0.000	3425836	2978873
74	325537	.0129836	-25.07	0.000	3509844	3000896
75			-22.45		3593677	
	3305185	.0147193		0.000		3016693
76	33518	.0166046	-20.19	0.000	3677244	3026356
77	3395215	.0186358	-18.22	0.000	376047	3029959
78	3435429	.0208101	-16.51		38433	3027559
				0.000		
79	3472443	. 023125	-15.02	0.000	3925685	3019201
80	3506257	. 0255787	-13.71	0.000	4007591	3004924
81	3536871	.0281697	-12.56	0.000	4088987	2984755
82	3564284	.0308968	-11.54	0.000	416985	2958718
83	3588498	.0337591	-10.63	0.000	4250163	2926832

Variables that uniquely identify margins: ${\bf agey_m}$

96

```
9 . graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi > ns_age_18_100.gph", as(png) replace
  option as() not allowed
  r(198);
11. * Look at average marginal effects of age from 40 to 100.
12. margins, dydx(agey_m) at (age = (40 (1) 100))
  Average marginal effects
                                                                 Number of obs = 94,720
  Model VCE: Robust
  Expression: Linear prediction, predict()
  dy/dx wrt: agey_m
  1._at: agey_m =
                     40
  2._at:
           agey_m =
                      41
           agey_m =
  3._at:
                      42
  4._at:
           agey_m =
                      43
  5._at:
           agey_m =
                      44
  6._at:
           agey_m =
                      45
           agey_m =
  7._at:
                      46
  8._at:
           agey_m =
                      47
  9._at:
           agey_m =
                      48
  10._at: agey_m =
                      49
  11._at: agey_m =
                      50
  12._at: ağey_m =
                      51
  13.\_at: agey\_m =
                      52
  14._at: agey_m =
                      53
  15._at: agey_m =
                      54
  16._at: agey_m =
                      55
  17._at: ağeý_m =
                      56
  18._at: agey_m =
                      57
  19._at: agey_m = 20._at: agey_m =
                      58
                      59
  21._at: agey_m =
                      60
  22._at: agey_m =
                      61
  23._at: agey_m =
                      62
  24._at: agey_m =
                      63
  25._at: agey_m =
                      64
  26._at: agey_m =
                      65
  27._at: agey_m =
                      66
  28._at: agey_m =
                      67
  29._at: agey_m = 30._at: agey_m =
                      68
                      69
  31._at: ağey_m =
                      70
  32._at: agey_m =
                      71
  33._at: agey_m =
                      72
  34._at: agey_m =
                      73
  35._at: agey_m =
                      74
  36._at: agey_m =
                      75
  37._at: agey_m =
                      76
  38.\_at: agey\_m =
                      77
  39._at: agey_m =
                      78
  40._at: agey_m =
                      79
  41._at: agey_m =
                      80
  42._at: agey_m =
                      81
  43._at: agey_m =
                      82
  44._at: agey_m =
                      83
  45._at: agey_m =
                      84
  46._at: agey_m = 47._at: agey_m =
                      85
                      86
  48.\_at: agey\_m =
  49._at: agey_m =
                      88
  50._at: agey_m =
                      89
  51._at: agey_m =
                      90
  52._at: agey_m =
                      91
  53._at: agey_m = 
54._at: agey_m =
                      92
                      93
  55._at: agey_m =
                      94
  56._at: agey_m = 57._at: agey_m =
                      95
```

58._at: agey_m = 97 59._at: agey_m = 98 60._at: agey_m = 99 61._at: agey_m = 100

		dy/dx	Delta-method		DSIFI	[Q5% conf	interval]
		uy/ux	std. err.	Z	P> z	[95% COIII.	THE NAT
agey_m	_at						
	_at 1	. 3528714	. 0889057	3.97	0.000	.1786193	. 5271234
	2	.3315686	.0841412	3.94	0.000	. 1666548	. 4964825
	3	.310586	.0795069	3.91	0.000	. 1547554	. 4664165
	4	. 2899233	.0750026	3.87	0.000	.1429208	. 4369258
	5 6	. 2695806 . 249558	.0706286 .0663848	3.82 3.76	0.000 0.000	. 1311511 . 1194461	. 4080102 . 3796699
	7	. 2298554	.0622713	3.69	0.000	.1078058	.351905
	8	.2104729	.0582882	3.61	0.000	.0962301	. 3247156
	9	.1914103	. 0544355	3.52	0.000	.0847187	. 2981019
	10	.1726678	.0507133	3.40	0.001	.0732716	. 2720639
	11	.1542453	.0471217	3.27	0.001	.0618885	. 2466021
	12	.1361428	.0436608	3.12 2.93	0.002	.0505691 .0393131	. 2217165
	13 14	.1183603 .1008979	.0403309 .0371322	2.93	0.003 0.007	.0281202	. 1974075 . 1736756
	15	.0837555	.0340648	2.46	0.014	.0169897	.1505213
	16	.0669331	.0311291	2.15	0.032	.0059211	.1279451
	17	. 0504308	.0283256	1.78	0.075	0050864	. 1059479
	18	. 0342484	. 0256547	1.33	0.182	0160339	. 0845308
	19	.0183861	.0231172	0.80	0.426	0269228	.063695
	20	.0028438	.020714	0.14	0.891	0377549	. 0434425
	21 22	0123785 0272807	.0184463 .0163157	-0.67 -1.67	0.502 0.095	0485325 059259	.0237756 .0046976
	23	0418629	.0143246	-2.92	0.003	0699387	0137872
	24	0561251	.0124761	-4.50	0.000	0805778	0316725
	25	0700673	.0107745	-6.50	0.000	091185	0489496
	26	0836894	.0092263	-9.07	0.000	1017726	0656062
	27	0969916	.0078404	-12.37	0.000	1123584	0816247
	28	1099737	.0066295	-16.59	0.000	1229672	0969801
	29 30	1226357 1349778	.0056106 .0048042	-21.86 -28.10	0.000 0.000	1336324 1443938	1116391 1255618
	31	1469998	.0042279	-34.77	0.000	1552863	1387134
	32	1587018	.0038842	-40.86	0.000	1663147	151089
	33	1700838	.0037472	-45.39	0.000	1774281	1627395
	34	1811458	.0037635	-48.13	0.000	1885221	1737694
	35	1918877	.0038708	-49.57	0.000	1994743	1843011
	36	2023096	.0040158	-50.38	0.000	2101805	1944387
	37 38	2124115 2221934	.0041625 .0042909	-51.03 -51.78	0.000 0.000	2205698 2306034	2042532 2137833
	39	2316552	.0042909	-51.76	0.000	2402696	2230408
	40	240797	.0044807	-53.74	0.000	2495791	2320149
	41	2496188	.0045636	-54.70	0.000	2585632	2406744
	42	2581206	.0046692	-55.28	0.000	267272	2489692
	43	2663023	.0048313	-55.12	0.000	2757714	2568332
	44	2741641	.0050877	-53.89	0.000	2841358	2641923
	45 46	2817058 2889274	.0054749	-51.45	0.000	2924363 300728	2709752
	46 47	2889274	.0060208 .0067422	-47.99 -43.88	0.000 0.000	300728	2771268 2826146
	48	3024107	.0076446	-39.56	0.000	3173939	2874275
	49	3086723	.0087261	-35.37	0.000	3257752	2915694
	50	3146139	.009981	-31.52	0.000	3341763	2950516
	51	3202355	.0114023	-28.09	0.000	3425836	2978873
	52	325537	.0129836	-25.07	0.000	3509844	3000896
	53 54	3305185	.0147193	-22.45	0.000	3593677	3016693
	54 55	33518 3395215	.0166046 .0186358	-20.19 -18.22	0.000 0.000	3677244 376047	3026356 3029959
	56	3435429	.0208101	-18.22 -16.51	0.000	376047	3029959
	57	3472443	.023125	-15.02	0.000	3925685	3019201
	58	3506257	.0255787	-13.71	0.000	4007591	3004924
	59	3536871	.0281697	-12.56	0.000	4088987	2984755
	60	3564284	.0308968	-11.54	0.000	416985	2958718
	61	3588498	.0337591	-10.63	0.000	4250163	2926832

40._at:

bmi_new =

40

13. marginsplot Variables that uniquely identify margins: agey_m 14. graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi > ns_age_40_100.gph", as(png) replace option as() not allowed r(198); 16. * Look at average marginal effects of having high blood pressure at ages 40 through > 100. 17. *margins, dydx(hibp) at (age = (40 (1) 100)) 18. *marginsplot 19. *graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/marg > ins_hibp_40_100.gph", as(png) replace 21. * Look at average marginal effects of bmi from 40 through 100. 22. margins, $dydx(bmi_new)$ at $(bmi_new = (1 (1) 100))$ Average marginal effects Number of obs = 94,720Model VCE: Robust Expression: Linear prediction, predict() dy/dx wrt: bmi_new 1._at: bmi_new = 2._at: bmi_new = 2 bmi_new = 3._at: 3 bmi_new = 4._at: 4 5._at: bmi_new = 5 6._at: bmi_new = 6 7._at: bmi_new = 7 bmi_new = 8._at: 8 bmi_new = 9._at: bmi_new = 10._at: 10 11._at: bmi_new = 11 12._at: bmi_new = 12 13._at: bmi_new = 13 14._at: bmi_new = 14 bmi_new = 15._at: 15 16._at: bmi_new = 16 17._at: bmi_new = 17 18._at: bmi_new = 18 19._at: bmi_new = 19 bmi_new = 20._at: 20 21._at: bmi_new = 21 22._at: bmi_new = 22 23._at: bmi_new = 23 24._at: bmi_new = 24 bmi_new = 25._at: 25 26._at: bmi_new = 26 27._at: bmi_new = 27 28._at: bmi_new = 28 29._at: bmi_new = 29 bmi_new = 30._at: 30 31._at: bmi_new = 31 bmi_new = 32._at: 32 33._at: bmi_new = 33 34._at: bmi_new = 34 35._at: bmi_new = 35 36._at: bmi_new = 36 37._at: bmi_new = 37 38._at: bmi_new = 38 bmi_new = 39._at: 39

```
41._at:
           bmi_new =
                        41
42._at:
           bmi_new =
                        42
           bmi_new =
43._at:
                        43
44._at:
           bmi_new =
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45._at:
           bmi_new =
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           bmi_new =
46._at:
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47._at:
48._at:
           bmi_new = bmi_new =
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                        48
49._at:
           bmi_new =
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           bmi_new =
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                        50
           bmi_new =
51._at:
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52._at:
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54._at:
55._at:
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56._at:
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59._at:
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74._at:
75._at:
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76._at:
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78._at:
           bmi_new =
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           bmi_new =
79._at:
                        79
80._at:
           bmi_new =
                        80
81._at:
82._at:
           bmi_new =
bmi_new =
                        81
                        82
83._at:
           bmi_new =
                        83
84._at:
85._at:
                        84
           bmi_new =
           bmi_new =
                        85
86._at:
           bmi_new =
                        86
87._at:
88._at:
           bmi_new =
                        87
           bmi_new =
                        88
89._at:
           bmi_new =
                        89
           bmi_new =
90._at:
                        90
           bmi_new = bmi_new =
91._at:
92._at:
                        91
                        92
93._at:
           bmi_new =
                        93
94._at:
           bmi_new =
                        94
           bmi_new =
95._at:
                        95
96._at:
           bmi_new =
                        96
97._at:
           bmi_new =
                        97
98._at:
99._at:
           bmi_new =
                        98
           bmi_new =
                        99
100._at: bmi_new = 100
```

		Delta-method				
	dy/dx	std. err.	Z	P> z	[95% conf.	
bmi_new						
_at	.1391965	. 0144427	0.04	0.000	1100004	1075020
1 2	.1359789	.0144427	9.64 9.71	0.000	.1108894 .1085312	. 1675036 . 1634267
3	.1327614	.0135669	9.79	0.000	.1061707	.159352
4	.1295438	.0131308	9.87	0.000	.1038078	. 1552798
5	.1263262	.0126962	9.95	0.000	.1014421	.1512103
6 7	.1231086 .1198911	.0122631 .0118317	10.04 10.13	0.000 0.000	.0990734 .0967013	.1471439 .1430808
8	.1166735	.0114023	10.13	0.000	.0943254	. 1390215
9	.1134559	.010975	10.34	0.000	.0919454	.1349664
10	.1102383	.01055	10.45	0.000	.0895606	.1309161
11	.1070208	.0101278	10.57	0.000	.0871706	.126871
12 13	.1038032 .1005856	.0097087 .009293	10.69 10.82	0.000 0.000	. 0847745 . 0823717	. 1228319 . 1187996
14	.097368	.0088813	10.02	0.000	.0799611	.114775
15	.0941505	.0084741	11.11	0.000	.0775416	.1107593
16	.0909329	.0080721	11.27	0.000	.0751119	. 1067539
17	.0877153	.0076762	11.43	0.000	. 0726703	.1027603
18 19	.0844977	.0072873 .0069066	11.60 11.77	0.000 0.000	.070215 .0677436	.0987805 .0948168
20	.0780626	.0065355	11.77	0.000	. 0652532	.090872
21	.074845	.0061758	12.12	0.000	.0627406	. 0869495
22	.0716274	.0058297	12.29	0.000	.0602015	. 0830534
23	. 0684099	.0054995	12.44	0.000	.057631	.0791888
24	.0651923	.0051885	12.56	0.000	.055023	. 0753616
25 26	.0619747 .0587571	.0049002 .004639	12.65 12.67	0.000 0.000	. 0523704 . 049665	.071579 .0678493
27	.0555396	.0044094	12.60	0.000	.0468972	.0641819
28	. 052322	.0042169	12.41	0.000	.044057	.060587
29	.0491044	.0040666	12.07	0.000	.041134	. 0570749
30	. 0458869	.0039634	11.58	0.000	.0381188	. 0536549
31 32	.0426693	.0039109 .0039112	10.91 10.09	0.000 0.000	.035004 .0317858	.0503345 .0471176
33	.0362341	.0039112	9.14	0.000	.0284641	.0440042
34	.0330166	.0040683	8.12	0.000	.0250429	.0409902
35	.029799	.0042191	7.06	0.000	.0215297	. 0380683
36	.0265814	.0044121	6.02	0.000	.0179338	.035229
37 38	.0233638	.0046421 .0049037	5.03 4.11	0.000 0.000	.0142655 .0105351	. 0324621 . 0297574
39	.0169287	.0043037	3.26	0.001	.0067519	.0271055
40	.0137111	.0055036	2.49	0.013	.0029242	.024498
41	.0104935	. 005834	1.80	0.072	0009409	.0219279
42	.007276	.0061803	1.18	0.239	0048373	.0193892
43 44	.0040584	.0065402 .0069113	0.62 0.12	0.535 0.903	0087601 0127052	.0168769 .0143868
45	0023768	.0072921	-0.33	0.744	0166691	.0119156
46	0055943	.0076812	-0.73	0.466	0206491	.0094604
47	0088119	.0080772	-1.09	0.275	0246429	.007019
48	0120295	.0084792	-1.42	0.156	0286484	. 0045895
49 50	0152471 0184646	.0088865 .0092982	-1.72 -1.99	0.086 0.047	0326642 0366889	.0021701
51	0216822	.0092982	-2.23	0.047	0407213	0002404
52	0248998	.0101332	-2.46	0.014	0447604	0050391
53	0281174	.0105554	-2.66	0.008	0488056	0074291
54	0313349	.0109804	-2.85	0.004	0528561	0098138
55 56	0345525 0377701	.0114077	-3.03 -3.10	0.002	0569112	0121938
56 57	0409877	.0118372 .0122686	-3.19 -3.34	0.001 0.001	0609706 0650337	0145696 0169417
58	0442052	.0127017	-3.48	0.001	0691001	0193103
59	0474228	.0131364	-3.61	0.000	0731696	021676
60	0506404	.0135724	-3.73	0.000	0772419	0240389
61 62	053858	.0140098	-3.84	0.000	0813166	0263993
62 63	0570755 0602931	.0144483 .0148878	-3.95 -4.05	0.000 0.000	0853936 0894726	0287575 0311136
64	0635107	.0153283	-4.05	0.000	0935536	0334678
65	0667282	.0157697	-4.23	0.000	0976362	0358203
66	0699458	.0162119	-4.31	0.000	1017205	0381712

```
67
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                      .0166548
                                    -4.39
                                            0.000
                                                       -.1058062
                                                                    - . 0405206
                                    -4.47
                                            0.000
 68
          -.076381
                      .0170984
                                                       -.1098933
                                                                    -.0428687
                                            0.000
 69
         -.0795985
                      .0175427
                                    -4.54
                                                       - . 1139815
                                                                    -.0452155
                                                        -.118071
 70
         -.0828161
                      .0179875
                                    -4.60
                                            0.000
                                                                    -.0475612
 71
                      .0184329
                                    -4.67
                                            0.000
                                                                    -.0499059
         -.0860337
                                                       - . 1221615
 72
         -.0892513
                      .0188788
                                    -4.73
                                            0.000
                                                        - . 126253
                                                                    - . 0522495
 73
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                      .0193252
                                    -4.78
                                            0.000
                                                       -.1303455
                                                                    -.0545922
 74
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                        .019772
                                    -4.84
                                            0.000
                                                       -.1344388
                                                                    -.0569341
                                                       -.1385329
 75
          -.098904
                      .0202192
                                    -4.89
                                            0.000
                                                                    -.0592751
 76
                                    -4.94
                                            0.000
                                                                    -.0616154
         -.1021216
                      .0206668
                                                       -.1426277
 77
         -.1053391
                      .0211147
                                    -4.99
                                            0.000
                                                       - . 1467233
                                                                     -.063955
 78
         -.1085567
                       .021563
                                    -5.03
                                            0.000
                                                       -.1508195
                                                                      -.066294
 79
         - . 1117743
                       .0220116
                                    -5.08
                                            0.000
                                                       -.1549163
                                                                    -.0686323
                                    -5.12
                                            0.000
 80
         - . 1149919
                      .0224606
                                                       -.1590137
                                                                       -.07097
                                    -5.16
                                            0.000
                                                                    -.0733072
 81
         -.1182094
                      .0229097
                                                       -.1631117
 82
          - . 121427
                      .0233592
                                    -5.20
                                            0.000
                                                       -.1672102
                                                                    -.0756438
 83
         -.1246446
                      .0238089
                                    -5.24
                                            0.000
                                                       -.1713092
                                                                       -.07798
 84
         - .1278622
                      .0242588
                                    -5.27
                                            0.000
                                                       - . 1754086
                                                                    -.0803157
 85
         - . 1310797
                       .024709
                                    -5.30
                                            0.000
                                                       -.1795085
                                                                     -.082651
                                            0.000
 86
                      .0251594
         - .1342973
                                    -5.34
                                                       -.1836087
                                                                    -.0849859
 87
         -.1375149
                      .0256099
                                    -5.37
                                            0.000
                                                       -.1877094
                                                                    -.0873204
 88
         -.1407325
                      .0260607
                                    -5.40
                                            0.000
                                                       -.1918104
                                                                    -.0896545
 89
           - . 14395
                      .0265116
                                    -5.43
                                            0.000
                                                       - . 1959118
                                                                    -.0919882
 90
                                            0.000
         -.1471676
                      .0269627
                                    -5.46
                                                       -.2000136
                                                                    -.0943217
                                    -5.49
 91
         -.1503852
                        .027414
                                            0.000
                                                       -.2041156
                                                                    -.0966548
 92
         -.1536028
                      .0278654
                                    -5.51
                                            0.000
                                                       -.2082179
                                                                    -.0989876
 93
                                    -5.54
                                            0.000
                                                                    -.1013201
         -.1568203
                       .028317
                                                       -.2123206
 94
         - .1600379
                      .0287687
                                    -5.56
                                            0.000
                                                       - . 2164235
                                                                    - . 1036523
 95
         -.1632555
                      .0292205
                                    -5.59
                                            0.000
                                                       -.2205266
                                                                    -.1059843
                                            0.000
 96
         -.1664731
                       .0296725
                                    -5.61
                                                       -.2246301
                                                                    -.1083161
 97
         -.1696906
                      .0301246
                                    -5.63
                                            0.000
                                                       -.2287337
                                                                    - . 1106475
                                            0.000
 98
         - . 1729082
                      .0305768
                                    -5.65
                                                       -.2328376
                                                                    -.1129788
 99
         - . 1761258
                      .0310291
                                    -5.68
                                            0.000
                                                       -.2369417
                                                                    - . 1153099
100
         -.1793433
                      .0314815
                                    -5.70
                                            0.000
                                                        -.241046
                                                                    -.1176407
```

 $17._at: agey_m =$

Variables that uniquely identify margins: bmi_new

```
24. graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi
 > ns_bmi_0_100.gph", as(png) replace
 option as() not allowed
 r(198);
```

26. * Look at average marginal effects of bmi from age 40 through 100.

27. margins, $dydx(bmi_new)$ at (age = (40 (1) 100))

```
Average marginal effects
                                                         Number of obs = 94,720
Model VCE: Robust
```

Expression: Linear prediction, predict() dy/dx wrt: bmi_new $1._at: agey_m =$ 2._at: $agey_m =$ 41 3._at: $agey_m =$ 42 $agey_m =$ 43 4._at: 5._at: $agey_m =$ 44 <u>6</u>._at: $agey_m =$ 45 $agey_m =$ 7._at: 46 $agey_m =$ 8._at: 47 9._at: $agey_m =$ 48 $10._at: agey_m =$ 49 11._at: ağeý_m = 50 12._at: agey_m = 51 13._at: agey_m = 52 $14._at: agey_m =$ 53 $15._at: agey_m =$ 54 16._at: agey_m = 55

56

```
18._at: agey_m =
19._at: agey_m =
                          58
20._at: agey_m =
                         59
21._at: agey_m = 22._at: agey_m =
                          60
                          61
23._at: agey_m =
                          62
24._at: agey_m = 25._at: agey_m =
                          63
                          64
26._at: agey_m =
                          65
27._at: agey_m = 28._at: agey_m =
                          66
                          67
29._at: agey_m =
                          68
30._at: agey_m =
                          69
31._at: agey_m = 32._at: agey_m =
                          70
                         71
33._at: ağey_m =
                         72
34._at: agey_m = 35._at: agey_m =
                          73
                          74
36._at: agey_m = 37._at: agey_m = 38._at: agey_m =
                         75
                         76
                          77
39._at: agey_m =
                         78
40._at: agey_m =
                         79
41._at: agey_m = 42._at: agey_m =
                          80
                          81
43._at: agey_m =
                          82
44._at: agey_m = 45._at: agey_m =
                          83
                          84
46._at: agey_m =
                          85
47._at: agey_m = 48._at: agey_m = 49._at: agey_m =
                          86
                          87
                          88
50._at: agey_m =
                          89
51._at: agey_m = 52._at: agey_m =
                          90
                          91
53._at: agey_m =
                          92
54._at: agey_m = 55._at: agey_m =
                          93
                          94
56._at: agey_m =
                         95
57._at: agey_m =
                         96
58._at: agey_m = 59._at: agey_m =
                          97
                         98
60._{at}: agey_{m} = 99
61._at: agey_m = 100
```

			Delta-method				
		dy/dx	std. err.	Z	P> z	[95% conf.	interval]
bmi_new							
	_at						
	1	0109111	. 005088	-2.14	0.032	0208834	0009387
	1 2 3	0090164	.0049364	-1.83	0.068	0186917	. 0006588
	3	0071218	.0047882	-1.49	0.137	0165066	.002263
	4 5 6 7	0052272	.0046438	-1.13	0.260	0143287	. 0038744
	5	0033325	.0045033	-0.74	0.459	0121589	. 0054938
	6	0014379	.0043674	-0.33	0.742	0099978	.007122
	7	. 0004568	.0042363	0.11	0.914	0078462	. 0087598
	8	.0023514	.0041106	0.57	0.567	0057052	. 010408
		.004246	.0039908	1.06	0.287	0035757	. 0120678
	10	.0061407	.0038773	1.58	0.113	0014588	. 0137401
	11	. 0080353	.0037709	2.13	0.033	.0006445	. 0154262
	12	. 00993	.0036721	2.70	0.007	. 0027328	. 0171271
	13	. 0118246	.0035815	3.30	0.001	.0048051	.0188441
	14	.0137192	.0034997	3.92	0.000	. 0068599	. 0205785
	15	. 0156139	.0034275	4.56	0.000	.0088962	.0223316
	16	.0175085	.0033653	5.20	0.000	.0109126	. 0241045
	17	.0194032	.0033139	5.86	0.000	.0129081	. 0258983
	18	.0212978	.0032736	6.51	0.000	.0148816	.027714
	19	.0231924	.003245	7.15	0.000	.0168325	. 0295524
	20	.0250871	.0032282	7.77	0.000	.0187599	.0314142
	21	.0269817	.0032235	8.37	0.000	. 0206637	. 0332997

```
22
         .0288764
                      .003231
                                   8.94
                                           0.000
                                                      .0225437
                                                                    .0352091
23
                     .0032506
                                           0.000
          .030771
                                   9.47
                                                          .0244
                                                                     .037142
                      .003282
                                           0.000
                                                                    .0390982
24
         .0326656
                                   9.95
                                                      .0262331
25
         .0345603
                     .0033249
                                  10.39
                                           0.000
                                                      .0280436
                                                                     .041077
26
         .0364549
                     .0033789
                                  10.79
                                           0.000
                                                      .0298324
                                                                    .0430774
27
         .0383496
                     .0034434
                                  11.14
                                           0.000
                                                      .0316005
                                                                    .0450986
28
         .0402442
                      .003518
                                  11.44
                                           0.000
                                                      .0333491
                                                                    .0471393
29
         .0421388
                     .0036018
                                  11.70
                                           0.000
                                                      .0350794
                                                                    .0491983
                                                                    .0512744
30
         .0440335
                     .0036944
                                  11.92
                                           0.000
                                                      .0367926
                                           0.000
31
         .0459281
                     .0037951
                                  12.10
                                                      .0384899
                                                                    .0533663
32
         .0478228
                     .0039032
                                  12.25
                                           0.000
                                                      .0401726
                                                                    .0554729
33
         .0497174
                     .0040182
                                  12.37
                                           0.000
                                                      .0418419
                                                                    .0575929
34
          .051612
                     .0041394
                                  12.47
                                           0.000
                                                      .0434989
                                                                    .0597252
                                           0.000
35
                     .0042664
                                  12.54
                                                      .0451446
         .0535067
                                                                    .0618687
         .0554013
                     .0043987
                                  12.60
                                           0.000
                                                      .0467801
36
                                                                    .0640226
37
          .057296
                     .0045357
                                  12.63
                                           0.000
                                                      .0484061
                                                                    .0661858
38
         .0591906
                     .0046771
                                  12.66
                                           0.000
                                                      .0500236
                                                                    .0683576
39
         .0610852
                     .0048225
                                  12.67
                                           0.000
                                                      .0516333
                                                                    .0705372
40
         .0629799
                     .0049715
                                  12.67
                                           0.000
                                                      .0532359
                                                                    .0727239
41
                                           0.000
                     .0051239
         .0648745
                                  12.66
                                                      .0548319
                                                                    .0749171
42
         .0667692
                     .0052792
                                  12.65
                                           0.000
                                                       .056422
                                                                    .0771163
43
         .0686638
                     .0054374
                                  12.63
                                           0.000
                                                      .0580067
                                                                    .0793209
44
         .0705584
                     .0055981
                                  12.60
                                           0.000
                                                      .0595865
                                                                    .0815304
45
                                           0.000
         .0724531
                     .0057611
                                  12.58
                                                      .0611616
                                                                    .0837445
46
                                  12.55
         .0743477
                     .0059262
                                           0.000
                                                      .0627326
                                                                    .0859628
47
         .0762424
                     .0060933
                                  12.51
                                           0.000
                                                      .0642998
                                                                     .088185
48
                     .0062622
                                  12.48
                                           0.000
          .078137
                                                      .0658634
                                                                    .0904106
49
         .0800316
                     .0064327
                                  12.44
                                           0.000
                                                      .0674237
                                                                    .0926395
50
         .0819263
                     .0066048
                                  12.40
                                           0.000
                                                      .0689811
                                                                    .0948715
                                           0.000
51
                     .0067783
         .0838209
                                  12.37
                                                      .0705357
                                                                    .0971061
52
         .0857156
                     .0069531
                                  12.33
                                           0.000
                                                                    .0993434
                                                      .0720877
53
         .0876102
                                  12.29
                                           0.000
                     .0071291
                                                      .0736374
                                                                     .101583
54
         .0895048
                     .0073063
                                  12.25
                                           0.000
                                                      .0751848
                                                                    .1038249
55
         .0913995
                     .0074845
                                  12.21
                                           0.000
                                                      .0767302
                                                                    .1060687
56
                     .0076636
                                  12.17
         .0932941
                                           0.000
                                                      .0782737
                                                                    .1083145
57
         .0951888
                     .0078437
                                  12.14
                                           0.000
                                                      .0798154
                                                                    .1105621
58
                                           0.000
                     .0080246
                                                      .0813555
         .0970834
                                  12.10
                                                                    .1128113
59
          .098978
                     .0082063
                                  12.06
                                           0.000
                                                        .082894
                                                                    .1150621
60
         .1008727
                     .0083887
                                  12.02
                                           0.000
                                                      .0844311
                                                                    .1173143
         .1027673
                     .0085718
                                           0.000
                                                      .0859668
61
                                  11.99
                                                                    .1195678
```

Variables that uniquely identify margins: agey_m

```
29. graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi
  > ns_bmi_age_40_100 gph", as(png) replace
 option as() not allowed
 r(198);
```

31. * Look at average marginal effects of years of education at every year of education.

Number of obs = 94,720

32. margins, dydx(raedyrs) at (raedyrs = (0(1)17))

```
Average marginal effects
Model VCE: Robust
Expression: Linear prediction, predict()
dy/dx wrt:
            raedvrs
        raedyrs =
1._at:
        raedyrs =
2._at:
        raedyrs =
                   2
3._at:
4._at:
        raedyrs =
                    3
        raedyrs =
                    4
5._at:
6._at:
        raedyrs =
                   5
7._at:
        raedyrs =
                    6
        raedyrs =
8._at:
                   7
        raedyrs =
9._at:
                   8
10._at: raedyrs =
                   9
```

11._at: raedyrs = **10**

```
12._at: raedyrs = 11

13._at: raedyrs = 12

14._at: raedyrs = 13

15._at: raedyrs = 14

16._at: raedyrs = 15

17._at: raedyrs = 16

18._at: raedyrs = 17
```

] dy/dx	Delta-method std. err.	Z	P> z	[95% conf	interval]
raedyrs						
_at 1	.4759107	.0086473	55.04	0.000	. 4589624	. 4928591
2	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
2 3	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
4	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
5	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
6	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
6 7	.4759107	.0086473	55.04	0.000	.4589624	.4928591
, 8	.4759107	.0086473	55.04	0.000	. 4589624	.4928591
8 9	.4759107	.0086473	55.04	0.000	.4589624	.4928591
10	.4759107	.0086473	55.04	0.000	.4589624	.4928591
11	.4759107	.0086473	55.04	0.000	.4589624	.4928591
12	.4759107	.0086473	55.04	0.000	.4589624	.4928591
13	.4759107	.0086473	55.04	0.000	.4589624	.4928591
14	.4759107	.0086473	55.04	0.000	.4589624	.4928591
15	.4759107	.0086473	55.04	0.000	.4589624	.4928591
16	.4759107	.0086473	55.04	0.000	. 4589624	. 4928591
17	.4759107	.0086473	55.04	0.000	. 4589624	. 4928591
18	.4759107	.0086473	55.04	0.000	.4589624	.4928591

Variables that uniquely identify margins: raedyrs

```
34. graph save "Graph" "/nas/longleaf/home/rayrayc/HRS/Cognition_Prediction/Graphs/margi > ns_raedyrs.gph", as(png) replace option as() not allowed r(198);
```

```
35.
36. *** Save log as pdf.
```

37. log close

name: <unnamed>

log: /nas/longleaf/home/rayrayc/hrs_margins_final.smcl

log type: **smcl**

closed on: 28 Nov 2022, 00:38:41