Household expenditure heterogeneity in retirement

1 Income by Duration of Retirement

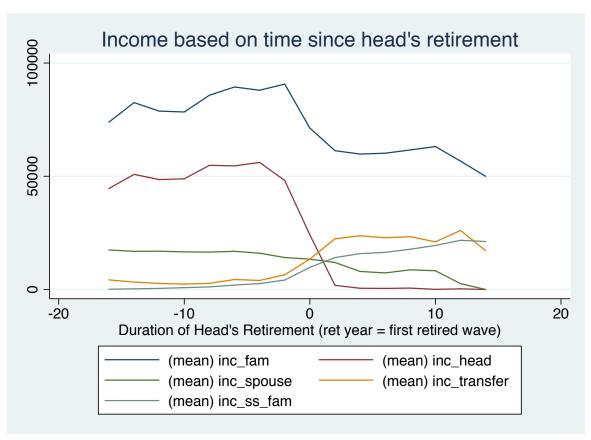


Figure 1: Income Around Retirement

Here we use the full sample - we do not select HHs based on spouse behavior. Though of course the results vary greatly if we look at households where the spouse does not work, always works, etc.

2 Expenditure Breakdown by Duration of Retirement

Figure 2: Expenditure Breakdown for the Bottom Tertile - for categories before 2005

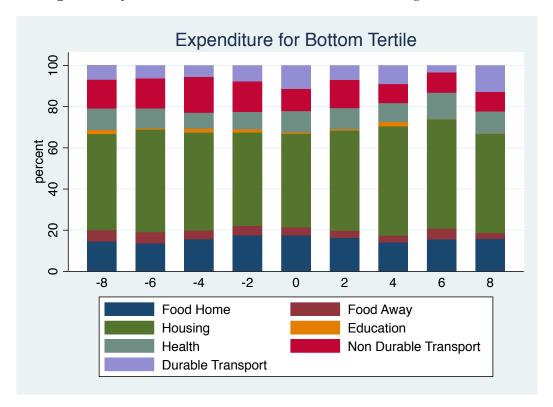
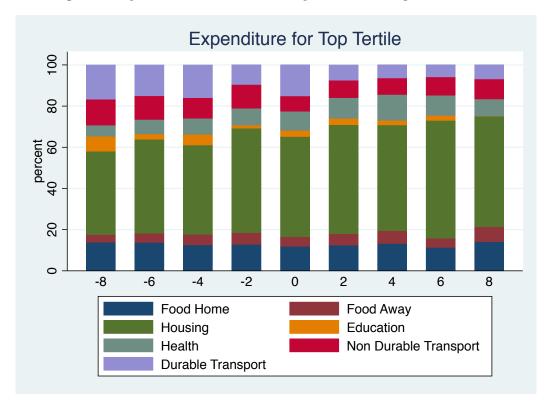
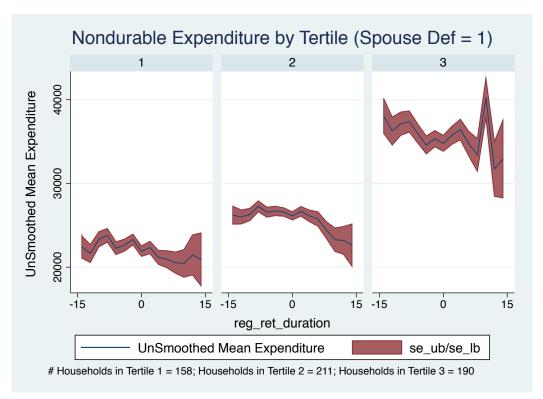


Figure 3: Expenditure Breakdown for the Top Tertile - for categories before 2005

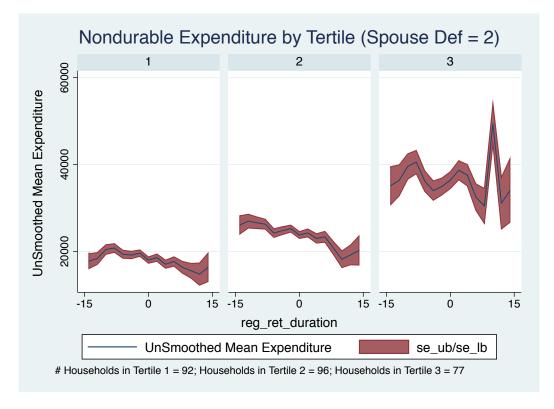


3 Total Nondurable expenditure (unsmoothed)

 ${\bf Figure~4:~Full~Sample~-~Total~Nondurable~expenditure}$



 ${\bf Figure~5:~Spouse~Never~Works-~Total~Nondurable~expenditure}$



Nondurable Expenditure by Tertile (Spouse Def = 3)

Proposed Mean Expenditure by Tertile (Spouse Def = 3)

Output

Out

Figure 6: Spouse Always Works- Total Nondurable expenditure

Full sample: Expenditure falls slightly for all three tertiles $\,$

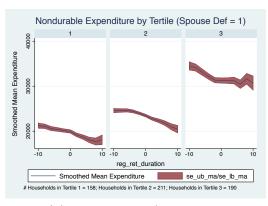
Spouse never works: Expenditure falls slightly for all three tertiles $\,$

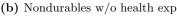
Spouse always works: Expenditure rises slightly for the rich

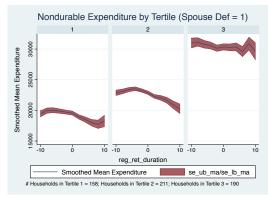
4 Expenditure based on tertiles (smoothed)

Figure 7: Expenditure based on tertile

(a) Nondurable expenditure







(c) Nondurables w/o health and educ exp

Here we use the full sample - we do not select HHs based on spouse behavior.

Expenditure is roughly flat for the top tertile, once you take away education expenditure.

If spouse always works it's similar, if spouse different it looks similar, if spouse never works looks different

5 Expenditure Regressions

Here we use the full sample - we do not select households based upon spouse behavior

5.1 Regression table with nondurables expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1.retired	5,461***	-398.1	-883.5**	-914.0***	-839.1**	-670.1	-398.1	-752.7	-720.5	-264.4
	(372.4)	(324.0)	(350.1)	(347.0)	(344.1)	(545.4)	(342.4)	(503.1)	(498.8)	(496.8)
Observations	69,862	69,862	69,862	69,862	69,862	4,489	4,489	4,489	4,489	4,489
R-squared	0.003	0.000	0.040	0.057	0.073	0.000	0.000	0.094	0.111	0.142
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085		582	582	582	582

^{***} p<0.01, ** p<0.05, * p<0.1

5.2 Regression table with nondurables expenditure w/o health expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1.retired	4,089*** (343.6)	-1,571*** (297.3)	-1,390*** (322.9)	-1,419*** (319.7)	-1,349*** (317.0)	-1,695*** (513.8)	-1,571*** (327.5)	-1,249*** (481.4)	-1,216** (477.6)	-786.0* (475.9)
Observations	69,862	69,862	69,862	69,862	69,862	4,489	4,489	4,489	4,489	4,489
R-squared	0.002	0.001	0.030	0.049	0.066	0.002	0.006	0.099	0.114	0.144
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085		582	582	582	582

^{***} p<0.01, ** p<0.05, * p<0.1

5.3 Regression table with nondurables expenditure without Health and Education Expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1.retired	4,649***	-721.5***	-1,210***	-1,231***	-1,163***	-624.0	-721.5**	-1,441***	-1,421***	-1,004**
	(311.3)	(266.0)	(289.1)	(287.4)	(284.5)	(462.0)	(289.8)	(419.1)	(417.0)	(414.2)
Observations	69,862	69,862	69,862	69,862	69,862	4,489	4,489	4,489	4,489	4,489
R-squared	0.003	0.000	0.028	0.040	0.060	0.000	0.002	0.124	0.134	0.169
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085		582	582	582	582

^{***} p<0.01, ** p<0.05, * p<0.1

6 Expenditure Regressions: interact retirement with tertiles

Here we use the full sample - we do not select households based upon spouse behavior Note: smaller sample size is due to the approximately 20k HHs who do not have tertile defined (due to no social security observations)

6.1 Regression table with nondurables expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1. retired #1 b. tertile	5,646***	-1,072*	-1,269**	-1,248**	-1,467**	-2,519**	-1,072*	-1,212	-1,296*	-788.9
	(659.8)	(590.6)	(632.6)	(624.8)	(619.0)	(988.8)	(650.7)	(737.4)	(731.4)	(722.9)
1. retired # 2. tertile	5,343***	18.38	-461.0	-339.2	-527.3	-400.6	18.38	-396.0	-349.2	251.4
	(567.1)	(517.5)	(559.1)	(552.2)	(547.0)	(863.6)	(570.2)	(669.9)	(664.0)	(660.6)
1. retired # 3. tertile	4,445***	-141.6	-500.8	-368.6	-638.7	-105.7	-141.6	-428.2	-375.9	86.90
	(583.3)	(532.5)	(585.8)	(578.6)	(573.3)	(896.0)	(586.8)	(691.3)	(685.2)	(676.7)
Observations	49,144	49,144	49,144	49,144	49,144	4,419	4,419	4,419	4,419	4,419
R-squared	0.132	0.000	0.060	0.083	0.101	0.089	0.001	0.096	0.112	0.144
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		12,027	12,027	12,027	12,027		557	557	557	557

^{***} p<0.01, ** p<0.05, * p<0.1

6.2 Regression table with nondurables expenditure w/o health expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1. retired #1b. tertile	4,268***	-1,578***	-1,101*	-1,081*	-1,322**	-2,768***	-1,578**	-1,097	-1,166*	-690.7
	(619.4)	(560.3)	(605.1)	(597.2)	(591.2)	(933.6)	(622.8)	(706.0)	(700.7)	(693.0)
1. retired # 2. tertile	3,625***	-1,385***	-1,054**	-934.9*	-1,128**	-1,657**	-1,385**	-1,056*	-1,012	-434.3
	(532.4)	(491.0)	(534.7)	(527.8)	(522.4)	(815.4)	(545.8)	(641.3)	(636.2)	(633.2)
1. retired # 3. tertile	2,729***	-1,655***	-1,307**	-1,177**	-1,467***	-1,493*	-1,655***	-1,297*	-1,250*	-812.8
	(547.6)	(505.3)	(560.3)	(553.0)	(547.6)	(846.0)	(561.6)	(661.9)	(656.6)	(648.7)
Observations	49,144	49,144	49,144	49,144	49,144	4,419	4,419	4,419	4,419	4,419
R-squared	0.126	0.001	0.045	0.070	0.089	0.087	0.006	0.099	0.115	0.145
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		12,027	12,027	12,027	12,027		557	557	557	557

^{***} p<0.01, ** p<0.05, * p<0.1

6.3 Regression table with nondurables expenditure without Health and Education Expenditure

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
VARIABLES	OLS	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9	test 10
1. retired #1 b. tertile	4,388***	-929.0*	-1,095**	-1,083**	-1,318**	-1,969**	-929.0*	-1,470**	-1,521**	-1,068*
	(553.4)	(486.3)	(525.1)	(520.9)	(514.4)	(838.7)	(551.6)	(615.1)	(612.3)	(603.8)
1. retired # 2. tertile	4,007***	-833.3*	-1,323***	-1,242***	-1,428***	-1,099	-833.3*	-1,706***	-1,675***	-1,126**
	(475.6)	(426.2)	(464.1)	(460.4)	(454.5)	(732.5)	(483.3)	(558.8)	(555.8)	(551.7)
1. retired # 3. tertile	4,451***	-451.1	-818.7*	-729.2	-1,012**	343.1	-451.1	-1,186**	-1,155**	-738.8
	(489.2)	(438.5)	(486.3)	(482.4)	(476.4)	(759.9)	(497.4)	(576.7)	(573.7)	(565.2)
Observations	49,144	49,144	49,144	49,144	49,144	4,419	4,419	4,419	4,419	4,419
R-squared	0.117	0.000	0.045	0.061	0.085	0.086	0.002	0.125	0.135	0.170
HH FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Time	No	No	No	No	Yes	No	No	No	No	Yes
Number of pid		$12,\!027$	12,027	12,027	12,027		557	557	557	557

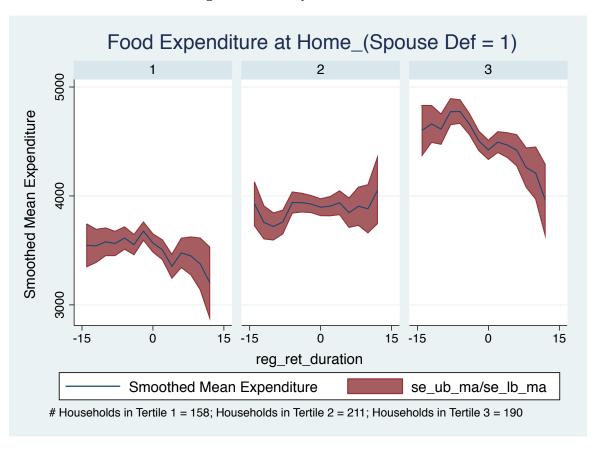
^{***} p<0.01, ** p<0.05, * p<0.1

7 Expenditure Breakdown Before and After Retirement

7.1 Food at Home Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	482.7***	-84.32	-41.39	-42.03	-43.99
	(51.34)	(56.68)	(62.29)	(62.27)	(62.24)
Observations	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$
R-squared	0.001	0.000	0.007	0.008	0.009
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

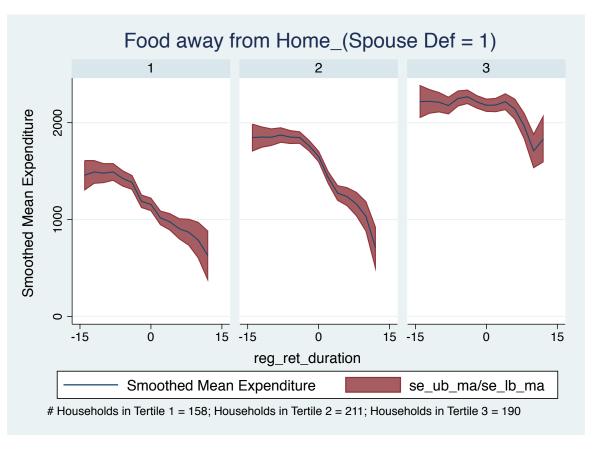
Figure 8: Food Expenditure at Home



7.2 Food Away from Home Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	98.45** (41.60)	-240.9*** (43.16)	-137.8*** (47.48)	-141.0*** (47.27)	-140.9*** (47.19)
Observations	69,862	69,862	69,862	69,862	69,862
R-squared	0.000	0.001	0.005	0.014	0.018
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

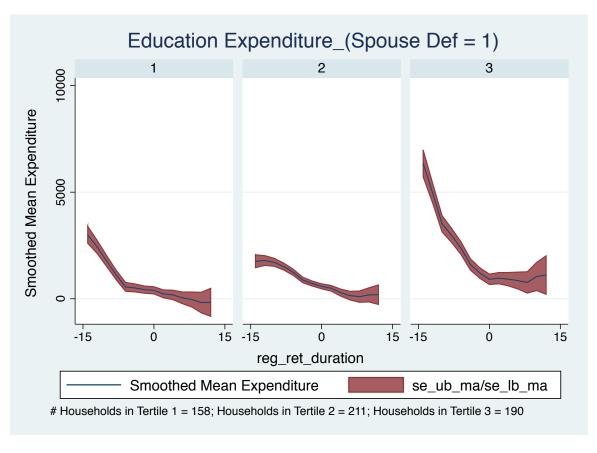
Figure 9: Food Expenditure Away from Home



7.3 Education Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	-560.5***	-849.8***	-179.7	-188.1	-186.0
	(94.33)	(119.0)	(130.2)	(129.5)	(129.5)
Observations	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$
R-squared	0.001	0.001	0.016	0.026	0.026
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

Figure 10: Expenditure on Education

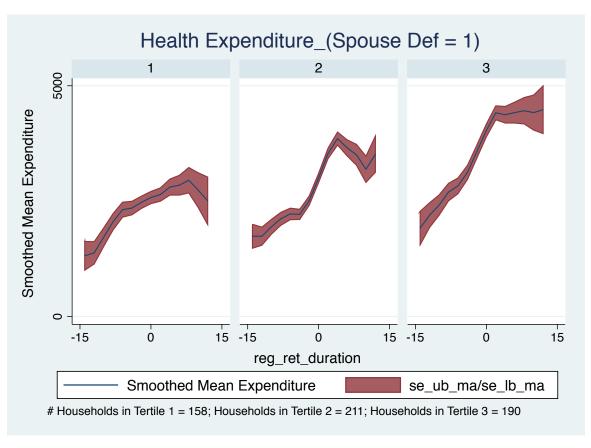


7.4 Health Expenditure

(Previously labeled recreation expenditure. But the tex file says health expenditure.)

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
					dodot
1.retired	1,372***	1,173***	506.5***	505.0***	509.9***
	(93.19)	(119.2)	(129.3)	(129.3)	(129.2)
Observations	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$
R-squared	0.003	0.002	0.033	0.033	0.034
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

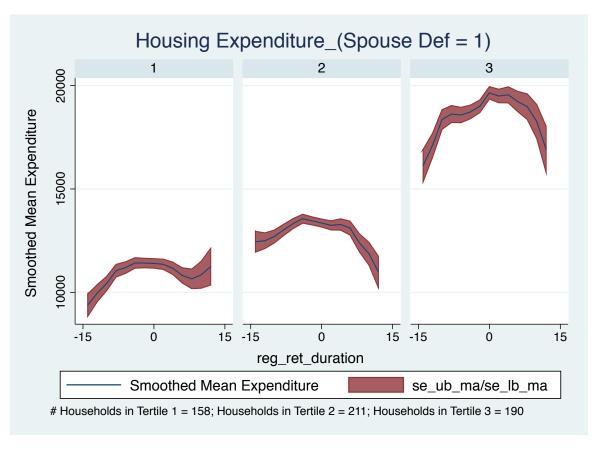
Figure 11: Expenditure on Health



7.5 Housing Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	4,127***	324.6	-641.7***	-652.1***	-595.3***
	(237.6)	(197.7)	(214.4)	(213.8)	(211.7)
Observations	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$
R-squared	0.004	0.000	0.032	0.038	0.057
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

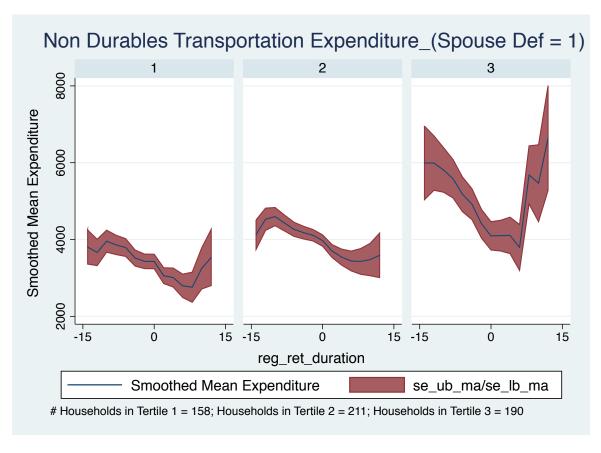
Figure 12: Expenditure on Housing



7.6 Nondurable Transportation Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	ÒĹS	test 2	test 3	test 4	test 5
1.retired	-58.66	-720.9***	-389.5**	-395.7***	-382.8**
	(103.0)	(137.7)	(151.3)	(151.0)	(150.5)
Observations	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$	$69,\!862$
R-squared	0.000	0.001	0.007	0.011	0.018
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		18,085	18,085	18,085	18,085

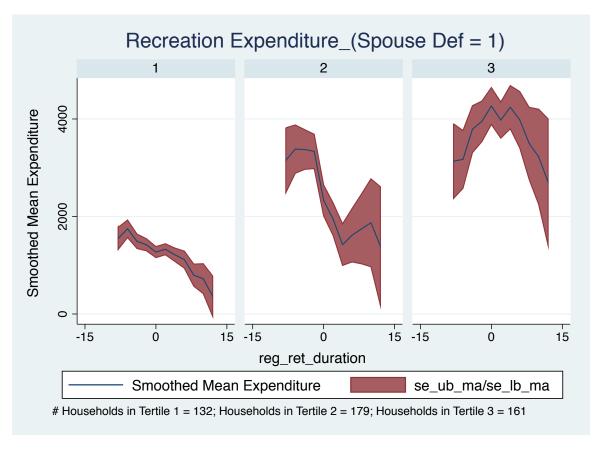
Figure 13: Expenditure on Nondurable Transport



7.7 Recreation Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	799.4***	-412.0***	-268.6	-274.1*	-273.6*
	(102.8)	(153.3)	(166.2)	(166.1)	(166.1)
Observations	48,410	48,410	48,410	48,410	48,410
0 .0.000 . 0.0000	0.001	0.000	0.004	0.005	0.005
R-squared					
$_{ m HH~FE}$	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		14,664	14,664	14,664	14,664
Number of pid	O: 1 1	14,664	14,664	14,664	14,664

Figure 14: Expenditure on total recreation (post 2005)



7.8 Clothing Expenditure

	(1)	(2)	(3)	(4)	(5)
VARIABLES	OLS	test 2	test 3	test 4	test 5
1.retired	-272.4***	-417.2***	-122.2	-123.6	-123.2
	(51.04)	(76.86)	(83.04)	(83.02)	(82.98)
Observations	$48,\!410$	48,410	48,410	48,410	48,410
R-squared	0.001	0.001	0.012	0.012	0.014
HH FE	No	Yes	Yes	Yes	Yes
Age Dummies	No	No	Yes	Yes	Yes
Dummy Children	No	No	No	Yes	Yes
Time	No	No	No	No	Yes
Number of pid		14,664	14,664	14,664	$14,\!664$

Figure 15: Expenditure on total clothing (post 2005)

