

Supplementary Table (Reference Group: Formal Care Only)

Table 1. Individual and County Predictors Associated with Informal and Formal Care in Rural Appalachian Counties of Virginia

| | No Care vs. Formal Care Only | Informal Care vs. Formal Care Only | Formal and Informal Care vs. Formal Care Only |
|-------------------------------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------------------|
| | <i>RR (Robust SE)</i> | <i>RR (Robust SE)</i> | <i>RR (Robust SE)</i> |
| Individual-Level Predictors | | | |
| <u>Predisposing</u> | | | |
| Age category | | | |
| 65-79 (<i>Ref.</i>) | | | |
| 80 and older | 0.44 (0.23) | 0.86 (0.39) | 0.88 (0.35) |
| Sex | | | |
| Male (<i>Ref.</i>) | | | |
| Female | 3.36 (1.38) ** | 2.23 (1.03) † | 0.97 (0.52) |
| Education | | | |
| Grade school completion or less (<i>Ref.</i>) | | | |
| Postsecondary education | 0.43 (0.24) | 0.30 (0.15) ** | 0.73 (0.44) |
| High school diploma/GED | 1.02 (0.47) | 1.18 (0.60) | 1.08 (0.94) |
| Some high school | 0.82 (0.35) | 1.00 (0.42) | 0.82 (0.50) |
| <u>Enabling</u> | | | |
| Belief in filial responsibility | 1.85 (0.63) † | 1.59 (0.49) | 2.23 (0.80) * |
| Attitude towards Community Services | 0.57 (0.57) | 0.44 (0.25) | 1.44 (1.22) |
| <u>Need</u> | | | |
| Functional Limitations | | | |
| Only instrumental limitations (<i>Ref.</i>) | | | |
| Physical limitations regardless of instrumental limitations | 1.26 (0.54) | 1.25 (0.53) | 3.75 (1.58) ** |
| Microsystem: Social Context | | | |
| Availability of kin | | | |
| Married, with or without living children (<i>Ref.</i>) | | | |
| Not currently married, living with someone | 0.95 (0.84) | 1.36 (0.97) | 2.64 (1.40) † |

| | No Care vs. Formal Care Only | Informal Care vs. Formal Care Only | Formal and Informal Care vs. Formal Care Only |
|------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------------------|
| | <i>RR (Robust SE)</i> | <i>RR (Robust SE)</i> | <i>RR (Robust SE)</i> |
| <i>Lives alone, has living children</i> | 0.84 (0.68) | 0.53 (0.35) | 1.51 (0.78) |
| <i>Lives alone, no living children</i> | 0.13 (0.13) * | 0.22 (0.17) * | 0.78 (0.62) |
| Macrosystem: County-Level Predictors | | | |
| 65+ population who are community dwelling with a disability (%) | 0.99 (0.02) | 1.02 (0.03) | 1.02 (0.03) |
| Total population age 65+ (%) | 1.09 (0.06) | 1.06 (0.06) | 1.03 (0.05) |
| 65+ population who are at or below poverty level (%) | 0.99 (0.07) | 1.00 (0.09) | 1.01 (0.07) |
| Personal property and real estate tax rate (per \$100 assessed value) ^a | 1.03 (0.35) | 1.42 (0.51) | 1.55 (0.49) |
| Total LTSS catering to older adults | 1.00 (0.06) | 1.07 (0.07) | 1.04 (0.06) |
| Constant | 0.53 (2.13) | 1.56 (6.90) | 0.01 (0.02) |
| Interaction Effects | | | |
| Functional Limitations × Percentage of 65+ at or below Poverty | | | |
| <i>Only instrumental limitations (Ref.)</i> | | | |
| <i>Physical limitations regardless of instrumental limitations</i> | 0.81 (0.06) ** | 0.92 (0.08) | 1.03 (0.07) |
| Sex × Percentage of 65+ at or below Poverty | | | |
| <i>Male (Ref.)</i> | | | |
| <i>Female</i> | 1.29 (0.07) ** | 1.02 (0.06) | 1.01 (0.09) |
| Age Categories × Percentage of 65+ at or below Poverty | | | |
| <i>65-79 (Ref.)</i> | | | |
| <i>80 and older</i> | 0.86 (0.06) * | 0.90 (0.04) * | 0.93 (0.06) |
| Belief in Filial Responsibility × Total LTSS in county | 0.77 (0.06) ** | 0.84 (0.06) * | 0.86 (0.06) * |

Note: † $p < 0.10$ * $p < 0.05$ ** $p < 0.01$ ^alog transformed; Ref.=Reference group; RR=Risk Ratio; Robust SE = Robust Standard Error