## Health consequences of patriarchal kinship system for the elderly: Evidence from India

Table 1S: Logit and LPM models for Chronic illness on standardized number of daughters

| Table 13. Logit and LFM model   | (1)          | (2)         | (3)                 | (4)                 | (5)                  | (6)                  | (7)                  | (8)                  |
|---|--------------|-------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
|   | Logistic     | OLS         | Logistic            | OLS                 | Logistic             | OLS                  | Logistic             | OLS                  |
|   | b/se         | b/se        | b/se                | b/se                | b/se                 | b/se                 | b/se                 | b/se                 |
| Standardized number of daughters (Z-score)                                | 0.062**      | 0.009**     | 0.059**             | 0.009**             | 0.060**              | 0.009**              | 0.054**              | 0.008**              |
|   | (0.025)      | (0.004)     | (0.025)             | (0.004)             | (0.025)              | (0.004)              | (0.025)              | (0.004)              |
| Average Marginal Effects (for Logistic models)                            | 0.0102**     |             | 0.0096**            |                     | 0.0097**             |                      | 0.0088**             |                      |
|   | (0.004)      |             | (0.004)             |                     | (0.004)              |                      | (0.004)              |                      |
| Total children alive  | $0.024^{*}$  | $0.004^{*}$ | 0.017               | 0.003               | 0.022                | 0.004                | $0.029^{*}$          | $0.005^{*}$          |
|   | (0.014)      | (0.002)     | (0.014)             | (0.002)             | (0.015)              | (0.002)              | (0.015)              | (0.002)              |
| Gender (Base- Female): Male   |              |             | 0.016               | 0.002               | 0.008                | 0.001                | 0.085**              | 0.013**              |
| Acc   |              |             | (0.035)<br>0.167*** | (0.005)<br>0.025*** | (0.039)<br>0.170***  | (0.006)<br>0.025***  | (0.041)<br>0.148***  | (0.006)              |
| Age   |              |             | (0.032)             | (0.005)             | (0.033)              | (0.005)              | (0.033)              | 0.022***<br>(0.005)  |
| $Age^2$   |              |             | -0.001***           | -0.000***           | -0.001***            | -0.000***            | -0.001***            | -0.000***            |
| 1150  |              |             | (0.000)             | (0.000)             | (0.000)              | (0.000)              | (0.000)              | (0.000)              |
| Marital status (Base-   |              |             | 0.016               | 0.003               | 0.045                | 0.007                | 0.006                | 0.002                |
| Never/Widowed/Divorced/Separated): Currently                              |              |             |                     |                     |                      |                      |                      |                      |
| Married   |              |             |                     |                     |                      |                      |                      |                      |
|   |              |             | (0.042)             | (0.006)             | (0.056)              | (0.009)              | (0.095)              | (0.014)              |
| Social group (Base- Others/Upper Caste): Scheduled                        |              |             |                     |                     | -0.608***            | -0.076***            | -0.627***            | -0.078***            |
| Tribe   |              |             |                     |                     |                      |                      |                      |                      |
|   |              |             |                     |                     | (0.113)              | (0.014)              | (0.113)              | (0.014)              |
| Scheduled Caste   |              |             |                     |                     | -0.253***            | -0.041***            | -0.259***            | -0.043***            |
| Other Backward Caste  |              |             |                     |                     | (0.061)              | (0.009)              | (0.061)              | (0.009)<br>-0.024*** |
| Other Backward Caste  |              |             |                     |                     | -0.155***<br>(0.047) | -0.024***<br>(0.007) | -0.156***<br>(0.047) | (0.007)              |
| Religion (Base-Hindu): Muslim   |              |             |                     |                     | 0.131*               | 0.007)               | 0.137**              | 0.023*               |
| Rengion (Buse Hinda). Washin  |              |             |                     |                     | (0.071)              | (0.012)              | (0.070)              | (0.012)              |
| Others  |              |             |                     |                     | 0.192**              | 0.034**              | 0.193**              | 0.034**              |
|   |              |             |                     |                     | (0.081)              | (0.015)              | (0.083)              | (0.015)              |
| Region (Base-Urban): Rural  |              |             |                     |                     | -0.347***            | -0.054***            | -0.370***            | -0.057***            |
|   |              |             |                     |                     | (0.044)              | (0.007)              | (0.045)              | (0.007)              |
| Type of household (Base-Regular wage/salaried):                           |              |             |                     |                     | -0.032               | -0.005               | -0.070               | -0.010               |
| Non-Regular wage/salaried   |              |             |                     |                     | (0.047)              | (0.008)              | (0.047)              | (0.008)              |
| Source of water (Base-Tap/tubewell/handpump):                             |              |             |                     |                     | 0.156**              | 0.029**              | (0.047)<br>0.165**   | 0.030**              |
| Others  |              |             |                     |                     | 0.130                | 0.029                | 0.103                | 0.030                |
| Others  |              |             |                     |                     | (0.073)              | (0.012)              | (0.072)              | (0.012)              |
| Multiple elderly respondents from same household                          |              |             |                     |                     | -0.066               | -0.009               | -0.080               | -0.012               |
| (Base-No): Yes  |              |             |                     |                     |                      |                      |                      |                      |
|   |              |             |                     |                     | (0.052)              | (0.008)              | (0.052)              | (0.008)              |
| Economic independence (Base-Independent):                                 |              |             |                     |                     |                      |                      | 0.227***             | 0.035***             |
| Dependent   |              |             |                     |                     |                      |                      |                      |                      |
|   |              |             |                     |                     |                      |                      | (0.043)              | (0.007)              |
| Health insurance (Base-any Govt. scheme) Any non                          |              |             |                     |                     |                      |                      | -0.174               | -0.026               |
| govt. insurance   |              |             |                     |                     |                      |                      | (0.100)              | (0.020)              |
| Not covered   |              |             |                     |                     |                      |                      | (0.108)<br>-0.395*** | (0.020)<br>-0.068*** |
| Not covered   |              |             |                     |                     |                      |                      | (0.056)              | (0.010)              |
| Living arrangement (Base- Alone or only with                              |              |             |                     |                     |                      |                      | -0.464***            | -0.077***            |
| spouse): Spouse & other members   |              |             |                     |                     |                      |                      | 0.101                | 0.077                |
|   |              |             |                     |                     |                      |                      | (0.054)              | (0.009)              |
| W/O spouse but with children and/or others                                |              |             |                     |                     |                      |                      | -0.453***            | -0.075***            |
|   |              |             |                     |                     |                      |                      | (0.089)              | (0.014)              |
| Constant  | -2.618***    | 0.064***    | -9.170***           | -0.921***           | -9.160***            | -0.901***            | -7.717***            | -0.675***            |
|   |              |             |                     | (0.4=0)             | (1.107)              | (0.102)              | (1.100)              | (0.40=)              |
|   | (0.029)      | (0.005)     | (1.142)             | (0.178)             | (1.187)              | (0.183)              | (1.198)              | (0.185)              |
| District Fixed Effects  | (0.029)<br>✓ | <b>√</b>    | ✓                   | <b>√</b>            | ✓                    | <b>√</b>             | ✓                    | ✓                    |
| District Fixed Effects R <sup>2</sup> /Pseudo R <sup>2</sup> Observations | (0.029)      |             |                     |                     |                      |                      |                      |                      |

Notes: Author's calculations using NSSO's 71st round; Clustered standard errors at district level, \*\*\* p<0.01, \*\* p<0.05, \* p<0.10.

Table 2S: Logit and LPM models: Own perception of health on standardized number of daughters with chronic, short term ailment, hospitalization and physical mobility in control

| emonie, snort term annient, nospitanzation and physical                      |                     |                     | (2)                 | (4)                 |
|--|---------------------|---------------------|---------------------|---------------------|
|  | (1)                 | (2)                 | (3)                 | (4)                 |
|  | Without             |                     |                     | cal wellbeing       |
|  | wellbeing n         |                     | measures            | as controls         |
|  | cont                |                     |                     |                     |
|  | 1 Logistical        | 2 OLS               | 3 Logistical        | 4 OLS               |
|  | b/se                | b/se                | b/se                | b/se                |
|  | 0.055**             | 0.042***            | 0.054**             | 0.040**             |
| Standardized share of girls in total children (Z-score)                      | $0.066^{**}$        | 0.012***            | 0.064**             | $0.010^{**}$        |
|  | (0.027)             | (0.004)             | (0.030)             | (0.004)             |
| Average Marginal Effects (for Logistic models)                               | $0.0107^{**}$       |                     | $0.0085^{**}$       |                     |
|  | (0.004)             |                     | (0.004)             |                     |
| Total children alive   | -0.003              | -0.001              | -0.015              | -0.003              |
|  | (0.015)             | (0.003)             | (0.017)             | (0.002)             |
| Gender (Base- Female): Male  | -0.025              | -0.004              | -0.055              | -0.006              |
|  | (0.036)             | (0.006)             | (0.039)             | (0.005)             |
| Age  | 0.134***            | 0.009               | 0.138***            | 0.013**             |
|  | (0.034)             | (0.006)             | (0.040)             | (0.006)             |
| $Age^2$  | -0.000**            | 0.000               | -0.001**            | -0.000              |
|  | (0.000)             | (0.000)             | (0.000)             | (0.000)             |
| Marital status (Base-Never/Widowed/Divorced/Separated):                      | -0.170*             | -0.029*             | -0.138              | -0.018              |
| Currently Married  | 0.170               | 0.02)               | 0.130               | 0.010               |
| Culterity Married  | (0.089)             | (0.015)             | (0.107)             | (0.015)             |
| Social group (Base- Others/Upper Caste): Scheduled Tribe                     | 0.119               | 0.017               | 0.262**             | 0.033*              |
| Social group (Base-Officis/Opper Caste). Scheduled Tibe                      | (0.119)             | (0.017)             | (0.123)             | (0.017)             |
| Sahadulad Casta  | 0.164***            | 0.018)              | 0.123)              | 0.017)              |
| Scheduled Caste  |                     |                     |                     |                     |
| O.1 P. 1 . 1 C   | (0.059)             | (0.010)             | (0.068)             | (0.009)             |
| Other Backward Caste   | 0.123**             | 0.021***            | 0.195***            | 0.027***            |
|  | (0.049)             | (0.008)             | (0.057)             | (0.008)             |
| Religion (Base-Hindu): Muslim  | 0.315***            | 0.056***            | 0.309***            | 0.046***            |
|  | (0.064)             | (0.012)             | (0.077)             | (0.012)             |
| Others   | -0.027              | -0.005              | -0.117              | -0.017              |
|  | (0.093)             | (0.015)             | (0.100)             | (0.013)             |
| Region (Base-Urban): Rural   | -0.006              | 0.001               | $0.092^{*}$         | $0.014^{*}$         |
|  | (0.048)             | (0.008)             | (0.055)             | (0.007)             |
| Type of household (Base-Regular wage/salaried): Non-Regular wage/salaried    | -0.015              | -0.002              | 0.024               | 0.005               |
|  | (0.046)             | (0.007)             | (0.051)             | (0.007)             |
| Source of water (Base-Tap/tubewell/handpump): Others                         | -0.026              | -0.005              | -0.108              | -0.014              |
| someter of water (Base Tap tues were manaparap). Suites                      | (0.066)             | (0.011)             | (0.076)             | (0.011)             |
| Multiple elderly members in same household (Base-No):                        | -0.060              | -0.015*             | 0.015               | -0.002              |
| Yes  | 0.000               | 0.013               | 0.015               | 0.002               |
| 105  | (0.051)             | (0.008)             | (0.058)             | (0.007)             |
| Economic independence (Base-Independent): Dependent                          | 0.827***            | 0.121***            | 0.709***            | 0.087***            |
| Economic independence (Base-Independent). Dependent                          |                     | (0.007)             |                     |                     |
| Health in surger on (Page one Control of the control American                | (0.050)<br>-0.277** | (0.007)<br>-0.042** | (0.053)<br>-0.287** | (0.006)<br>-0.035** |
| Health insurance (Base-any Govt. scheme) Any non govt. insurance             |                     |                     |                     |                     |
|  | (0.129)             | (0.019)             | (0.139)             | (0.017)             |
| Not covered  | $-0.110^*$          | -0.019*             | 0.007               | -0.001              |
|  | (0.064)             | (0.011)             | (0.070)             | (0.010)             |
| Living arrangement (Base- Alone or only with spouse): Spouse & other members | -0.356***           | -0.051***           | -0.135*             | -0.014              |
| -  | (0.062)             | (0.010)             | (0.073)             | (0.009)             |
| W/O spouse but with children and/or others                                   | -0.349***           | -0.054***           | -0.126              | -0.017              |
| 1  |                     |                     |                     |                     |

|   | (0.085)   | (0.015) | (0.103)       | (0.015)       |
|---|-----------|---------|---------------|---------------|
| Chronic Illness (Base-No): Yes                            | , ,       | , ,     | 1.144***      | 0.167***      |
|   |           |         | (0.052)       | (0.008)       |
| Short term Illness in past 15 days (Base-No): Yes         |           |         | $0.797^{***}$ | $0.120^{***}$ |
|   |           |         | (0.071)       | (0.012)       |
| Hospitalization in past 12 months (Base-Yes): No          |           |         | -0.874***     | -0.128***     |
|   |           |         | (0.039)       | (0.006)       |
| Physical mobility (Base-Mobile): Partially/fully Immobile |           |         | 2.347***      | 0.433***      |
|   |           |         | (0.083)       | (0.012)       |
| District Fixed Effects                                    | ✓         | ✓       | ✓             | $\checkmark$  |
| Constant  | -6.774*** | -0.181  | -6.147***     | -0.191        |
|   | (1.217)   | (0.216) | (1.447)       | (0.205)       |
| Observations  | 26905     | 27217   | 26905         | 27217         |

Observations 26905 27217 26905

Notes: Author's calculations using NSSO's 71st round; Clustered standard errors at district level, \*\*\* p<0.01, \*\* p<0.05, \* p <0.10.

Table 3S: Logit and LPM models for chronic ailments among different age cohorts of elderly

|   | (1)       | (2) OLS:     | (3)          | (4) OLS:  | (5)           | (6)      |
|---|-----------|--------------|--------------|-----------|---------------|----------|
|   | Logistic: | >=62         | Logistic:    | >=65      | Logistic:>=71 | OLS:>=71 |
|   | >=62      | years        | >=65 years   | years     | years         | years    |
|   | years     |              |              |           |               |          |
|   | b/se      | b/se         | b/se         | b/se      | b/se          | b/se     |
| Coefficients (Standardized number of daughters) | 0.056**   | 0.009**      | 0.070**      | 0.011**   | $0.084^{*}$   | 0.014    |
|   | (0.028)   | (0.004)      | (0.031)      | (0.005)   | (0.049)       | (0.009)  |
| Average Marginal Effects (for Logistic models)  | 0.009**   |              | 0.0117**     |           | $0.0154^{*}$  |          |
| ,   | (0.005)   |              | (0.005)      |           | (0.0090)      |          |
| Individual level characteristics                | <b>√</b>  | <b>√</b>     | <b>√</b>     | ✓         | <b>√</b>      | <b>√</b> |
| Availability of old-age support                 | ✓         | $\checkmark$ | ✓            | ✓         | ✓             | ✓        |
| HH level controls                               | ✓         | $\checkmark$ | $\checkmark$ | ✓         | ✓             | ✓        |
| District Fixed Effects                          | ✓         | ✓            | ✓            | ✓         | ✓             | ✓        |
| Constant  | -8.495*** | -0.820***    | -11.034***   | -1.213*** | -3.593        | -0.516   |
|   | (1.544)   | (0.234)      | (1.968)      | (0.289)   | (4.720)       | (0.698)  |
| Observations                                    | 20568     | 22350        | 15945        | 17648     | 6002          | 7067     |

Notes: Author's calculations using NSSO's 71st round; Clustered standard errors at district level, \*\*\* p<0.01, \*\* p<0.05, \* p<0.10.

Table 4S: Falsification test- NEDV approach

|                                  | 0                               | Logistic regression: Average<br>Marginal Effects (b/se) |              | robability Model<br>(b/se) |
|----------------------------------|---------------------------------|---|--------------|----------------------------|
|                                  | (1)                             | (2)   | (3)          | (4)                        |
| Dependent varial                 | ole: Any transient ailment in p | past 15 days (=1)                                       |              |                            |
| Standardized share of daughters  | -0.001                          | -0.001  | -0.001       | -0.001                     |
|                                  | (0.003)                         | (0.003)   | (0.003)      | (0.003)                    |
| Dependent variable: Own percepti | on of change in health from p   | east year (worse=1, san                                 | ne/better=0) |                            |
| Standardized share of daughters  | 0.002                           | 0.001   | 0.003        | 0.002                      |
|                                  | (0.005)                         | (0.005)   | (0.005)      | (0.005)                    |
| Dependent variable: Own percepti | on of change in health from p   | ast year (same/worse=                                   | 1, better=0) |                            |
| Standardized share of daughters  | 0.004                           | 0.003   | 0.003        | 0.003                      |
|                                  | (0.004)                         | (0.004)   | (0.004)      | (0.004)                    |

Notes: Author's calculations using NSSO's 71st round; \*\*\* p<0.01, \*\* p<0.05, \* p<0.10, Clustered standard errors at district level. Detailed are results available on request. Columns (1) and (3) are from full models in equation 1. Modified model (2) and (4) above additionally controls for co-morbidity by controlling for chronic ailments.

Table 5S: Results with alternate classification of variable of interest

|  | Model 1 (Chronic ailment as dependent variable)     |                   | Model 2 (Self-reporte<br>dependent variable wi<br>wellbeing indicators con | th physical |
|--|---|-------------------|--|-------------|
|  | (1) Average<br>Marginal Effects<br>(Logistic model) | (2) OLS           | (3) Average Marginal<br>Effects (Logistic model)                           | (4) OLS     |
| Coefficient of standardize                                     | d number of daughte                                 | rs at district le | evel (Z-scores) (b/se)   |             |
| Standardized deviation from mean                               | 0.0088**  | 0.0084**          | 0.0085**   | 0.0098**    |
|  | (0.0041)  | (0.0039)          | (0.0040)   | (0.0042)    |
| Standardized deviation from median                             | 0.0088**  | 0.0084**          | 0.0085**   | 0.0098**    |
|  | (0.0041)  | (0.0039)          | (0.0040)   | (0.0042)    |
| Standardized deviation from mean within social group           | 0.0075*   | 0.0074**          | 0.0047   | 0.0056      |
|  | (0.0039)  | (0.0038)          | (0.0039)   | (0.0041)    |
| Standardized deviation from mean within religion               | 0.0087**  | 0.0083**          | 0.0069*  | 0.0081*     |
|  | (0.0040)  | (0.0039)          | (0.0040)   | (0.0041)    |
| Standardized deviation from mean within location (rural/urban) | 0.0078*   | 0.0077**          | 0.0041   | 0.0058      |
|  | (0.0040)  | (0.0039)          | (0.0038)   | (0.0040)    |
| Standardized number of sons                                    | -0.0066*  | -0.0068*          | -0.0081**  | -0.0087**   |
|  | (0.0036)  | (0.0035)          | (0.0036)   | (0.0038)    |
| Standardized daughters to sons ratio                           | 0.0070**  | 0.0064**          | 0.0029   | 0.0033      |
|  | (0.0030)  | (0.0029)          | (0.0028)   | (0.0030)    |
| Coefficient of share of  | of daughters in total c                             | hildren (raw ı    | measure) (b/se)  |             |
| Share of daughters in total children (0-100)                   | 0.0003***   | 0.0003***         | $0.0002^*$   | 0.0002**    |
|  | (0.0001)  | (0.0001)          | (0.0001)   | (0.0001)    |

Notes: Author's calculations using NSSO's 71st round; \*\*\* p<0.01, \*\* p<0.05, \* p<0.10, Clustered standard errors at PSU level. Detailed results are available on request.

Table 6S: Results for quantiles of standardized number of daughters

| Variable   | (1) Q2            | (2) Q3                   | (3) Q4              | (4) Q5       |  |  |  |  |
|--|-------------------|--------------------------|---------------------|--------------|--|--|--|--|
|  | b/se              | b/se                     | b/se                | b/se         |  |  |  |  |
| Model 1 (Chronic ailment at dependent variable)        |                   |                          |                     |              |  |  |  |  |
| Standardized number of daughters (Logistic Regression) | 0.0260            | 0.0493                   | 0.1559**            | 0.1392*      |  |  |  |  |
|  | (0.0630)          | (0.0661)                 | (0.0639)            | (0.0753)     |  |  |  |  |
| Average Marginal Effects                               | 0.0041            | 0.0078                   | 0.0252**            | $0.0224^{*}$ |  |  |  |  |
|  | (0.0010)          | (0.0105)                 | (0.0103)            | (0.0121)     |  |  |  |  |
| Standardized number of daughters (OLS regression)      | 0.0050            | 0.0077                   | 0.0243**            | 0.0210*      |  |  |  |  |
|  | (0.0097)          | (0.0100)                 | (0.0099)            | (0.0117)     |  |  |  |  |
| Model 2 (Self-reported health at dependent             | variable with phy | sical wellbeing indicate | ors controlled for) |              |  |  |  |  |
|  | b/se              | b/se                     | b/se                | b/se         |  |  |  |  |
| Standardized number of daughters (Logistic Regression) | -0.0937           | -0.0216                  | 0.0032              | 0.0414       |  |  |  |  |
|  | (0.0763)          | (0.0671)                 | (0.0774)            | (0.0885)     |  |  |  |  |
| Average Marginal Effects                               | -0.0123           | -0.0029                  | 0.0004              | 0.0056       |  |  |  |  |
|  | (0.0101)          | (0.0090)                 | (0.0104)            | (0.0119)     |  |  |  |  |
| Standardized number of daughters (OLS                  | -0.0139           | -0.0025                  | 0.0007              | 0.0070       |  |  |  |  |
| regression)  | (0.0100)          | (0.0089)                 | (0.0104)            | (0.0120)     |  |  |  |  |
|  | 5,439             | 5,442                    | 5,466               | 5,424        |  |  |  |  |
|  |                   |                          |                     |              |  |  |  |  |

Note: Base category Q1, Author's calculations using NSSO's 71st round; \*\*\* p<0.01, \*\* p<0.05, \* p <0.10, Clustered standard errors at district level.

Table7S: Results for different age cohorts across gender

| Variable  | (1) Model 1 | (2) Model 2 |  |
|---|-------------|-------------|--|
|   | b/se        | b/se        |  |
| Standardized number of daughters  |             |             |  |
| Average Marginal Effects  | 0.0089**    | 0.0084**    |  |
|   | (0.0041)    | (0.0040)    |  |
| OLS   | 0 .0084**   | 0.0097***   |  |
|   | (0.0039)    | (0.0042)    |  |
| Age cohort >=70 years (Base: 60 to 69 years) (Average Marginal Effects) | 0.0251***   | 0.0851***   |  |
|   | (0.0075)    | (0.0079)    |  |
| Age cohort >=70 years (Base: 60 to 69 years) (OLS)                      | 0.0245***   | 0.0903***   |  |
|   | (0.0073)    | (0.0087)    |  |
| Males >=70 years (Base: Females 60-69 years) (Average Marginal Effects) | 0.0350***   | -0.0097     |  |
|   | (0.0108)    | (0.0096)    |  |
| Males >=70 years (Base: Females 60-69 years) (OLS)                      | 0.0316***   | -0.0182*    |  |
|   | (0.0105)    | (0.0106)    |  |
|   |             |             |  |

Note: Author's calculations using NSSO's 71st round; \*\*\* p<0.01, \*\* p<0.05, \* p<0.10, Clustered standard errors at district level, Control scheme same as the full model in Table 2. Models 1 & 2 have chronic ailment as dependent variable and Self-reported health at dependent variable with physical wellbeing indicators controlled for, respectively

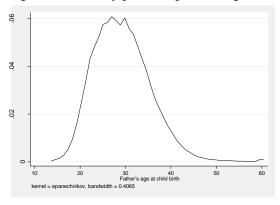
Table 8S: Logit and LPM models for Chronic illness on standardized number of daughters, rural and urban

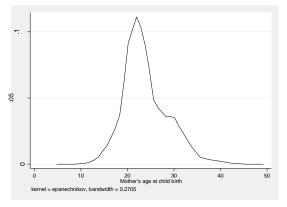
|  | (1)                     | (2)                     | (3)            | (4)          |
|--|-------------------------|-------------------------|----------------|--------------|
|  | Rural                   | Rural OLS               | Urban Logistic | Urban OLS    |
|  | Logistic<br>b/se        | b/se                    | b/se           | b/se         |
|  | U/ SE                   | U/ SC                   | U/ SE          | U/SC         |
| Standardized share of girls in total children (Z-core)                             | 0.086**                 | 0.015**                 | 0.102***       | 0.021***     |
| ,  | (0.036)                 | (0.006)                 | (0.038)        | (0.008)      |
| Average Marginal Effects (for Logistic models)                                     | 0.013**                 |                         | $0.020^{***}$  |              |
|  | (0.006)                 |                         | (0008)         |              |
| Total children alive   | -0.002                  | -0.001                  | -0.022         | -0.004       |
|  | (0.021)                 | (0.003)                 | (0.026)        | (0.005)      |
| Gender (Base- Female): Male  | 0.101**                 | 0.016**                 | -0.070         | -0.015       |
|  | (0.050)                 | (0.008)                 | (0.050)        | (0.010)      |
| Age  | 0.142***                | 0.021***                | 0.163***       | 0.032***     |
| 2  | (0.041)                 | (0.007)                 | (0.041)        | (0.008)      |
| $Age^2$  | -0.001***               | -0.000***               | -0.001***      | -0.000***    |
|  | (0.000)                 | (0.000)                 | (0.000)        | (0.000)      |
| Marital status (Base-  | 0.096                   | 0.018                   | 0.016          | 0.002        |
| Wever/Widowed/Divorced/Separated): Currently Married                               |                         |                         |                |              |
|  | (0.112)                 | (0.019)                 | (0.131)        | (0.027)      |
| ocial group (Base- Others/Upper Caste): cheduled Tribe                             | -0.964***               | -0.139***               | -1.307***      | -0.213***    |
|  | (0.179)                 | (0.022)                 | (0.273)        | (0.035)      |
| Scheduled Caste  | -0.225***               | -0.039***               | -0.244**       | -0.047***    |
|  | (0.085)                 | (0.014)                 | (0.095)        | (0.018)      |
| Other Backward Caste   | -0.156**                | -0.026**                | 0.055          | 0.011        |
|  | (0.074)                 | (0.013)                 | (0.086)        | (0.018)      |
| Religion (Base-Hindu): Muslim  | $0.286^{**}$            | $0.050^{**}$            | 0.167          | 0.034        |
|  | (0.127)                 | (0.024)                 | (0.104)        | (0.022)      |
| Others   | $0.430^{***}$           | 0.069***                | 0.267**        | $0.050^{**}$ |
|  | (0.140)                 | (0.024)                 | (0.124)        | (0.025)      |
| Type of household (Base-Regular wage/salaried):  Jon-Regular wage/salaried         | -0.299***               | -0.050***               | -0.088         | -0.017       |
|  | (0.078)                 | (0.014)                 | (0.056)        | (0.011)      |
| ource of water (Base-Tap/tubewell/handpump): Others                                | 0.463***                | 0.083***                | 0.744***       | 0.168***     |
|  | (0.132)                 | (0.026)                 | (0.139)        | (0.033)      |
| Aultiple elderly members in same household (Base-<br>No): Yes                      | -0.067                  | -0.011                  | -0.077         | -0.016       |
|  | (0.064)                 | (0.010)                 | (0.062)        | (0.012)      |
| Economic independence (Base-Independent): Dependent                                | 0.182***                | 0.029***                | 0.132**        | 0.026**      |
| -  | (0.063)                 | (0.010)                 | (0.059)        | (0.012)      |
| <i>Health insurance</i> (Base-any Govt. scheme) Any on govt. insurance             | -0.427 <sup>**</sup>    | -0.084**                | -0.137         | -0.030       |
|  | (0.217)                 | (0.042)                 | (0.123)        | (0.028)      |
| Not covered  | -0.770***               | -0.143***               | -0.600***      | -0.128***    |
|  | (0.090)                 | (0.019)                 | (0.081)        | (0.018)      |
| <i>Living arrangement</i> (Base- Alone or only with pouse): Spouse & other members | -0.623***               | -0.109***               | -0.503***      | -0.106***    |
| • • •  | (0.073)                 | (0.014)                 | (0.085)        | (0.019)      |
| V/O spouse but with children/Others  | -0.521* <sup>*</sup> ** | -0.091* <sup>**</sup> * | -0.392***      | -0.085***    |

|   | (0.106)   | (0.019)    | (0.139)   | (0.030)  |
|---|-----------|------------|-----------|----------|
| Allopathic hospitals per million HH in district | -0.001    | $-0.000^*$ | -0.001    | -0.000   |
|   | (0.001)   | (0.000)    | (0.001)   | (0.000)  |
| Allopathic doctors per million HH in district   | -0.000    | -0.000     | 0.000     | 0.000    |
|   | (0.000)   | (0.000)    | (0.000)   | (0.000)  |
| Constant  | -5.744*** | -0.418*    | -6.310*** | -0.759** |
|   | (1.519)   | (0.244)    | (1.505)   | (0.303)  |
| Observations                                    | 14593     | 14593      | 11793     | 11793    |

Note: Author's calculations using NSSO's 71st round; \*\*\* p<0.01, \*\* p<0.05, \* p <0.10.

Figure 1S: Density plots for parental age at childbirth





Note: Authors' calculations from NFHS-4