**Appendix**

 Table A1: Bivariate association between women’s empowerment and selected indicators

|  |  |
| --- | --- |
|  | Women empowered |
|  | No (%) | Yes (%) | P-Value |
| Women’s asset ownership |  |  |  |
| Does not possess (n=74,458) | 23 | 77 | P < 0.000 |
| Possesses (n=71,690) | 19.2 | 80.8 |  |
| Did her father ever beat her mother |  |  |  |
| No (n=111,578) | 22.5 | 77.5 | P < 0.000 |
| Yes (n=34,570) | 17.1 | 82.9 |  |
| Woman’s occupation |  |  |  |
| Not working (n=73,609) | 22.1 | 77.9 | P < 0.000 |
| Working (n=72,539) | 20.1 | 79.9 |  |
| Summary educational achievement |  |  |  |
| No education (n=44,820) | 33.9 | 66.1 | P < 0.000 |
| Primary (n=41,495) | 19.2 | 80.8 |  |
| Higher (n=59,833) | 13 | 87 |  |
| Husband’s summary educational achievement |  |  |  |
| No education (n=30,261) | 36.8 | 63.2 | P < 0.000 |
| Primary (n=38,841) | 20 | 80 |  |
| Higher (n=77,046) | 15.4 | 84.6 |  |
| Household wealth terciles |  |  |  |
| Poor (n=59,261) | 27.7 | 72.3 | P < 0.000 |
| Middle (n=29,428) | 20.9 | 79.1 |  |
| Rich (n=57,459) | 15 | 85 |  |
| Age of husband/partner |  |  |  |
| <21 (n=1,282) | 33.5 | 66.5 | P < 0.000 |
| 21-39 (n=84,506) | 21.6 | 78.4 |  |
| 40+ (n=60,360) | 20.3 | 79.7 |  |
| Woman’s age |  |  |  |
| <18 (n=63,586) | 26.1 | 73.9 | P < 0.000 |
| 18-34 (n=82,041) | 17.1 | 82.9 |  |
| 35+ (n=521) | 13.5 | 86.5 |  |
| Total children ever born |  |  |  |
| No child (n=11,178) | 27.6 | 72.4 | P < 0.000 |
| 1-4 (n=102,619) | 18.6 | 81.4 |  |
| 5+ (n=32,351) | 27.3 | 72.7 |  |
| Acceptance of violence |  |  |  |
| No (n=83,449) | 18.9 | 81.1 | P < 0.000 |
| Yes (n=62,699) | 23.9 | 76.1 |  |
| Urban-rural status |  |  |  |
| Rural (n=100,321) | 23.6 | 76.4 | P < 0.000 |
| Urban (n=45,827) | 16.1 | 83.9 |  |
| Year of sample |  |  |  |
| 2010 (n=12,361) | 19.7 | 80.3 | P < 0.000 |
| 2011 (n=11,181) | 27.6 | 72.4 |  |
| 2012 (n=5,450) | 49.2 | 50.8 |  |
| 2013 (n=30,535) | 35.7 | 64.3 |  |
| 2014 (n=11,017) | 9.4 | 90.6 |  |
| 2015 (n=68,089) | 14.4 | 85.6 |  |
| 2016 (n=7,515) | 11.8 | 88.2 |  |

Table A2: Disaggregating women’s empowerment by their constituents: multivariate regression analysis

|  |  |  |  |
| --- | --- | --- | --- |
|  | (1) | (2) | (3) |
|  | Health | HH Purchases | Family visit |
| Woman owns house or land (Ref: No) |  |  |  |
| Possesses | 1.128\*\*\* | 1.186\*\*\* | 1.109\*\*\* |
|  | [1.090,1.168] | [1.147,1.226] | [1.073,1.146] |
| Father beat mother of respondent (Ref: No) |  |  |  |
| Yes | 1.023 | 0.993 | 0.948\*\* |
|  | [0.985,1.062] | [0.957,1.029] | [0.914,0.983] |
| Woman’s working status (Ref: Not working) |  |  |  |
| Working | 1.661\*\*\* | 1.687\*\*\* | 1.557\*\*\* |
|  | [1.604,1.721] | [1.630,1.746] | [1.506,1.611] |
| Woman’s education (Ref: No education) |  |  |  |
| Primary | 1.281\*\*\* | 1.298\*\*\* | 1.286\*\*\* |
|  | [1.227,1.338] | [1.244,1.354] | [1.233,1.343] |
| Higher | 1.593\*\*\* | 1.590\*\*\* | 1.581\*\*\* |
|  | [1.518,1.672] | [1.516,1.668] | [1.508,1.659] |
| Husband’s education (Ref: No education) |  |  |  |
| Primary | 1.201\*\*\* | 1.152\*\*\* | 1.151\*\*\* |
|  | [1.146,1.258] | [1.101,1.206] | [1.100,1.204] |
| Higher | 1.230\*\*\* | 1.180\*\*\* | 1.155\*\*\* |
|  | [1.173,1.291] | [1.126,1.236] | [1.102,1.211] |
| Household wealth terciles (Ref: Poor) |  |  |  |
| Middle | 1.078\*\*\* | 1.104\*\*\* | 1.082\*\*\* |
|  | [1.036,1.123] | [1.062,1.149] | [1.040,1.125] |
| Rich | 1.229\*\*\* | 1.247\*\*\* | 1.284\*\*\* |
|  | [1.176,1.286] | [1.194,1.302] | [1.230,1.341] |
| Husband’s age (Ref: <21) |  |  |  |
| 21-39 | 1.121 | 1.298\*\*\* | 1.354\*\*\* |
|  | [0.970,1.296] | [1.115,1.510] | [1.169,1.568] |
| 40+ | 1.435\*\*\* | 1.708\*\*\* | 1.716\*\*\* |
|  | [1.238,1.663] | [1.465,1.992] | [1.478,1.992] |
| Woman’s age (Ref: <18) |  |  |  |
| 18-34 | 1.147\*\*\* | 1.127\*\*\* | 1.120\*\*\* |
|  | [1.111,1.184] | [1.093,1.163] | [1.086,1.156] |
| 35+ | 1.392\* | 1.678\*\*\* | 1.768\*\*\* |
|  | [1.055,1.835] | [1.272,2.214] | [1.326,2.359] |
| Number of children (Ref: No child) |  |  |  |
| 1-4 | 1.380\*\*\* | 1.352\*\*\* | 1.327\*\*\* |
|  | [1.302,1.462] | [1.276,1.433] | [1.255,1.403] |
| 5+ | 1.296\*\*\* | 1.261\*\*\* | 1.268\*\*\* |
|  | [1.212,1.386] | [1.180,1.347] | [1.189,1.352] |
| Woman accepts violence? (Ref: No) |  |  |  |
| Yes | 0.711\*\*\* | 0.706\*\*\* | 0.724\*\*\* |
|  | [0.688,0.734] | [0.684,0.728] | [0.702,0.746] |
| Residence (Ref: Rural) |  |  |  |
| Urban | 1.169\*\*\* | 1.228\*\*\* | 1.233\*\*\* |
|  | [1.120,1.221] | [1.179,1.279] | [1.183,1.285] |
| Country (Ref: Cameroon) |  |  |  |
| DRC | 1.645\*\*\* | 1.997\*\*\* | 1.095 |
|  | [1.462,1.850] | [1.777,2.243] | [0.973,1.232] |
| Ethiopia | 12.86\*\*\* | 7.472\*\*\* | 7.243\*\*\* |
|  | [11.05,14.97] | [6.467,8.633] | [6.203,8.457] |
| India | 6.982\*\*\* | 4.792\*\*\* | 3.287\*\*\* |
|  | [6.362,7.662] | [4.381,5.243] | [3.001,3.601] |
| Cote d’Ivoire | 1.161\* | 0.957 | 0.899 |
|  | [1.029,1.309] | [0.850,1.077] | [0.799,1.011] |
| Kenya | 5.707\*\*\* | 2.938\*\*\* | 2.124\*\*\* |
|  | [4.981,6.538] | [2.582,3.344] | [1.860,2.426] |
| Malawi | 2.665\*\*\* | 0.855\*\* | 2.063\*\*\* |
|  | [2.403,2.955] | [0.772,0.946] | [1.855,2.293] |
| Mali | 0.419\*\*\* | 0.386\*\*\* | 0.335\*\*\* |
|  | [0.356,0.494] | [0.331,0.451] | [0.288,0.390] |
| Mozambique | 4.549\*\*\* | 2.145\*\*\* | 3.330\*\*\* |
|  | [4.034,5.129] | [1.914,2.404] | [2.939,3.773] |
| Nigeria | 1.295\*\*\* | 0.865\*\* | 0.881\*\* |
|  | [1.180,1.420] | [0.790,0.947] | [0.804,0.966] |
| Pakistan | 3.436\*\*\* | 2.061\*\*\* | 1.525\*\*\* |
|  | [3.009,3.923] | [1.809,2.347] | [1.337,1.739] |
| Rwanda | 7.742\*\*\* | 2.895\*\*\* | 4.912\*\*\* |
|  | [6.565,9.129] | [2.500,3.352] | [4.125,5.850] |
| Zimbabwe | 9.625\*\*\* | 8.774\*\*\* | 6.549\*\*\* |
|  | [8.616,10.75] | [7.844,9.813] | [5.842,7.342] |
| Uganda | 2.954\*\*\* | 1.823\*\*\* | 1.197\* |
|  | [2.505,3.484] | [1.550,2.144] | [1.021,1.404] |
| Egypt | 11.51\*\*\* | 3.602\*\*\* | 3.524\*\*\* |
|  | [10.18,13.01] | [3.222,4.027] | [3.138,3.959] |
| Tanzania | 3.824\*\*\* | 0.959 | 1.078 |
|  | [3.461,4.226] | [0.870,1.056] | [0.977,1.189] |
| Burkina Faso | 0.734\*\*\* | 0.433\*\*\* | 1.243\*\*\* |
|  | [0.662,0.813] | [0.391,0.480] | [1.125,1.373] |
| Zambia | 5.399\*\*\* | 2.573\*\*\* | 2.714\*\*\* |
|  | [4.863,5.994] | [2.326,2.845] | [2.443,3.016] |
| N | 156729 | 156729 | 156729 |
| ll | -89017.2 | -91460.8 | -90627.2 |
| chi2 | 15848.9 | 15239.0 | 10401.7 |
| p | 0 | 0 | 0 |

Exponentiated coefficients; 95% confidence intervals in brackets

\* *p* < 0.05, \*\* *p* < 0.01, \*\*\* *p* < 0.001