Table-6:Results of fixed coefficient and random coefficient logistic regression model

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fixed effect  | Β | S.E. | Z-value  | P-value  |
| Intercept | -2.08744  | 0.19090 | -10.935  | < 2e-16 \*\*\* |
| Type of place of residence(ref=Urban)  |
| Rural | 0.19923  | 0.12493  | 1.595 | 0.110776  |
| Smokes cigarettes(ref=No)  |
| Yes |  0.62640  | 0.29294  | 2.138 | 0.032491 \* |
| Current marital status (ref= Married or Living with partner) |
| Widowed /divorced/separated | 0.34914  | 0.10355  | 3.372 | 0.000747 \*\*\* |
| Number of other wives (ref = No other wives) |
| 1-6 other wives | 0.46090  | 0.10368  | 4.446 | 8.77e-06 \*\*\* |
| Respondent's occupation (grouped) (ref = Not working) |
| Employed (salary paid) | -0.52629  | 0.23435  | -2.246 | 0.024721 \*  |
| Merchant | 0.12909  | 0.10713  | 1.205 | 0.228219  |
| Farmer | 0.07638  | 0.09692  | 0.788 | 0.430616  |
| Others | 0.08785  | 0.11901  | 0.738  | 0.460437  |
| Husband/partner drinks alcohol (ref= No) |
| Yes | 1.00979  | 0.10101  | 9.997  | < 2e-16 \*\*\* |
| Have you ever chewed Chat? (ref= No) |
| Yes | 0.30463  | 0.11073  | 2.751 | 0.005938 \*\* |
| Number of living children (ref= 0) |
| 1-2 | 0.31399  | 0.12975  | 2.420 | 0.015521 \*  |
| 3-4  | 0.26024  | 0.13607  | 1.913 | 0.055811. |
| 5+ | 0.51657  | 0.13776  | 3.750 | 0.000177 \*\*\* |
| Husband's desire for children (ref= Both want same) |
| Husband wants more | 0.15736  | 0.08867  | 1.775 | 0.075936. |
| Husband wants fewer | 0.39764  | 0.13497  | 2.946 | 0.003216 \*\* |
| Don't know | -0.15890  | 0.09026  | -1.760 | 0.078346. |
| Random part  | Estimate  | S.E.  |  Wald test of 95% CI |
| Between – region variance (Intercept) | 0.04988725 | 0.002029563 | 0.02243430  | 0.1109345 |
| var(Reside) | 0.03109996 | 0.001484111 | 0.00691362 | 0.1398988 |
| var(HusDA) | 0.05286027 | 0.003422666 | 0.01591493 | 0.1755715 |
| cor(Intercept,Reside) | 0.44351492 | 41.09899 | -0.9870394 | 0.9980632 |
| cor(Intercept,aHusDA) | 0.41141831 | 20.61896 | -0.8666899 | 0.9754663 |
| cor(Reside,HusDA) | 0.65623186 | 138.9003 | -0.9730110 | 0.9988221 |

 Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1