Quantitative Team | Findings and Conclusion

Summary Statistics Table:

		Help Received				
	count	mean	std	min	median	max
female	642	0.145	0.352	0	0	1
hh_age	642	46.154	12.793	16	45	100
married	642	0.922	0.268	0	0	1
region	642	2.798	1.646	1	3	5
hh_size	642	5.840	2.293	1	5	18

		Help Not Received				
	count	mean	std	min	median	max
female	5381	0.148	0.355	0	0	1
hh_age	5381	46.905	13.839	14	45	93
married	5381	0.928	0.258	0	0	1
region	5381	2.751	1.594	1	3	5
hh_size	5381	5.644	2.471	1	5	25

`Help Received: Cash transfer from governmental or non-governmental organizations`

- 642 households have received some form of help whereas 5381 households haven't received any help.
- 14.5% of the households that have received help have a female as their head and 92% of them are married.
- Same are the percentages for households that haven't received help.
- The average household size is about the same among households that have received help and not received any help.
- We include regions to control for location characteristics. The region, in itself, does not have quantitative significance.
- These similarities within the socioeconomic characteristics infer that for the help received, socio-economic factors do not play a huge role.

Regression Table:

```
Bivariate Regression
================================================================================
Independent Variable   R-squared  Intercept  Coefficient  Standard Error   P-value
--------------------------------------------------------------------------------
female                 0.009      0.093      0.039        0.005            0.000
hh_age                 0.009      0.052      0.001        0.0001           0.000
hh_size                0.011      0.135      -0.006       0.001            0.000
married                0.0002     0.090      0.009        0.007            0.390
region                 0.003      0.112      -0.005       0.001            0.000
help_received          0.001      0.100      -0.012       0.006            0.058
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Multivariate Regression
================================================================================
                coef       std err          t       P>|t|      [0.025      0.975]
--------------------------------------------------------------------------------
Intercept       0.0212     0.012        1.737      0.082      -0.003       0.045
female          0.0500     0.006        8.611      0.000       0.039       0.061
hh_age          0.0014     0.000        9.586      0.000       0.001       0.002
married         0.0556     0.008        6.904      0.000       0.040       0.071
region          -0.0016    0.001       -1.371      0.170      -0.004       0.001
hh_size         -0.0069    0.001       -8.697      0.000      -0.008      -0.005
help_received   -0.0088    0.006       -1.453      0.146      -0.021       0.003
================================================================================
Adj. R-squared:            0.037
```

- From the tables we can infer correlation between two associations.
- We see value of R-sqaured is very minimum because the dependent variable i.e Ratio of Migration is very lowly explained by independent variables.
- There is a strong association among variables but they are lowly affected quantitatively.

Conclusion:

- Cash transfer is association not causation.
- There is a correlation between the two factors.
- Cash transfer itself may not be the sole or direct cause people decide to migrate.