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

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 a correlation between the two associations.
- We see the value of R-squared is minimal because the dependent variable, i.e., the 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 an association, not causation.
- There is a correlation between the two factors.
- Cash transfer may not be the sole or direct cause for people to migrate.