

Table S1. Bogra significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
3SPI	NC	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	CD	temp	-0.04	-0.08	-0.01	0.01	0.96	0.92	0.99
	ID	temp	-0.06	-0.11	-0.01	0.01	0.94	0.90	0.99
	ID	humidity	0.04	0.01	0.07	0.01	1.04	1.01	1.07
12SPI	NC	temp	-0.04	-0.05	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	0.00	0.03	0.96	0.93	1.00
	RD	temp	-0.04	-0.07	0.00	0.03	0.96	0.93	1.00
	ID	temp	-0.07	-0.12	-0.02	0.00	0.93	0.89	0.98
	ID	humidity	0.03	0.00	0.06	0.03	1.03	1.00	1.07
3SPEI	NC	temp	-0.04	-0.05	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.01	0.02	0.96	0.93	0.99
	RD	temp	-0.04	-0.07	0.00	0.02	0.96	0.93	1.00
	ID	temp	-0.07	-0.12	-0.02	0.01	0.93	0.89	0.98
	ID	humidity	0.04	0.00	0.07	0.03	1.04	1.00	1.07
12SPEI	NC	temp	-0.04	-0.05	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.01	0.01	0.96	0.93	0.99
	RD	temp	-0.03	-0.07	0.00	0.05	0.97	0.93	1.00
	ID	temp	-0.07	0.03	-0.12	0.01	0.94	0.89	0.99

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature.

Table S2: Dinajpur significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
3SPI	NC	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	CD	humidity	-0.02	-0.04	0.00	0.03	0.96	0.93	1.00
	RD	temp	-0.04	-0.07	0.00	0.03	1.04	1.00	1.07
	ID	humidity	0.04	0.00	0.07	0.03	1.04	1.00	1.07
12SPI	NC	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	CD	humidity	-0.02	-0.04	0.00	0.03	0.98	0.96	1.00
	ID	humidity	0.04	0.00	0.07	0.03	1.04	1.00	1.07
3SPEI	NC	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	RD	temp	-0.03	-0.06	0.00	0.03	0.97	0.94	1.00
	ID	humidity	0.03	0.00	0.06	0.03	1.03	1.00	1.07
12SPEI	NC	temp	-0.03	-0.05	-0.01	0.01	0.97	0.95	0.99
	CD	humidity	-0.02	-0.04	0.00	0.03	0.98	0.96	1.00
	ID	humidity	0.04	0.00	0.07	0.03	1.04	1.00	1.07

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature

Table S3: Ishurdi significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	temp	-0.04	-0.06	-0.02	0.00	0.96	0.94	0.98
	CD	temp	-0.04	-0.07	-0.02	0.00	0.96	0.93	0.98
	RD	temp	-0.05	-0.09	-0.01	0.01	0.95	0.92	0.99
<b>12SPI</b>	NC	temp	-0.04	-0.06	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.01	0.01	0.96	0.94	0.99
	RD	temp	-0.05	-0.09	-0.01	0.02	0.95	0.92	0.99
<b>3SPEI</b>	NC	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	CD	temp	-0.04	-0.07	-0.01	0.01	0.96	0.93	0.99
	RD	temp	-0.04	-0.08	0.00	0.04	0.96	0.92	1.00
<b>12SPEI</b>	NC	temp	-0.04	-0.06	-0.02	0.00	0.97	0.95	0.98
	CD	temp	-0.04	-0.07	-0.01	0.01	0.96	0.94	0.99
	RD	temp	-0.05	-0.09	-0.01	0.02	0.95	0.92	0.99

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature

Table S4: Rajshahi significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	temp	-0.04	-0.05	-0.03	0.00	0.96	0.95	0.97
	CD	temp	-0.04	-0.06	-0.01	0.00	0.96	0.94	0.99
	RD	temp	-0.07	-0.09	-0.05	0.00	0.94	0.91	0.96
	ID	temp	-0.05	-0.08	-0.02	0.00	0.95	0.92	0.98
	SU	temp	0.10	0.01	0.19	0.03	1.10	1.01	1.21
<b>12SPI</b>	NC	temp	-0.04	-0.05	-0.03	0.00	0.96	0.95	0.98
	CD	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	RD	temp	-0.06	-0.08	-0.04	0.00	0.94	0.92	0.96
	ID	temp	-0.05	-0.08	-0.03	0.00	0.95	0.92	0.97
	SU	temp	0.11	0.02	0.20	0.02	1.11	1.02	1.22
<b>3SPEI</b>	NC	temp	-0.04	-0.05	-0.03	0.00	0.96	0.95	0.97
	CD	temp	-0.03	-0.05	-0.01	0.00	0.97	0.95	0.99
	RD	temp	-0.06	-0.08	-0.04	0.00	0.94	0.92	0.96
	ID	temp	-0.05	-0.08	-0.03	0.00	0.95	0.92	0.97
	SU	temp	0.10	0.02	0.19	0.02	1.11	1.02	1.21
<b>12SPEI</b>	NC	temp	-0.04	-0.05	-0.03	0.00	0.96	0.95	0.97
	CD	temp	-0.04	-0.06	-0.02	0.00	0.96	0.94	0.98
	RD	temp	-0.06	-0.09	-0.04	0.00	0.94	0.92	0.96
	ID	temp	-0.06	-0.09	-0.03	0.00	0.94	0.92	0.97
	ID	humidity	-0.02	-0.03	0.00	0.03	0.98	0.97	1.00
	SU	temp	0.10	0.01	0.19	0.03	1.11	1.01	1.21

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature

Table S5: Rangpur significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	temp	-0.04	-0.06	-0.03	0.00	0.96	0.95	0.97
	CD	temp	-0.05	-0.07	-0.03	0.00	0.95	0.93	0.97
	RD	temp	-0.05	-0.08	-0.02	0.00	0.95	0.92	0.98
<b>12SPI</b>	NC	temp	-0.04	-0.06	-0.03	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.02	0.00	0.96	0.93	0.98
<b>3SPEI</b>	NC	temp	-0.04	-0.05	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.02	0.00	0.96	0.93	0.98
	RD	temp	-0.05	-0.08	-0.02	0.00	0.95	0.93	0.98
<b>12SPEI</b>	NC	temp	-0.04	-0.06	-0.02	0.00	0.96	0.95	0.98
	CD	temp	-0.04	-0.07	-0.02	0.00	0.96	0.93	0.98
	RD	temp	-0.05	-0.07	-0.02	0.00	0.95	0.93	0.98

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature

Table S6. Syedpur significant results with covariates for Model 1

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	temp	-0.05	-0.07	-0.02	0.00	0.96	0.93	0.98
	CD	temp	-0.04	-0.07	0.00	0.04	0.97	0.93	1.00
	RD	temp	-0.06	-0.09	-0.02	0.00	0.94	0.91	0.98
	ID	temp	-0.05	-0.10	-0.01	0.02	0.95	0.91	0.99
	SU	Humidity	0.09	0.00	0.18	0.04	1.10	1.00	1.20
<b>12SPI</b>	NC	temp	-0.05	-0.07	-0.02	0.00	0.95	0.93	0.98
	RD	temp	-0.06	-0.09	-0.02	0.00	0.94	0.91	0.98
	ID	temp	-0.06	-0.11	-0.01	0.03	0.94	0.90	0.99
<b>3SPEI</b>	NC	temp	-0.05	-0.07	-0.03	0.00	0.95	0.93	0.97
	CD	temp	-0.04	-0.07	0.00	0.04	0.96	0.93	1.00
	RD	temp	-0.07	-0.10	-0.03	0.00	0.94	0.90	0.97
	ID	temp	-0.07	-0.12	-0.02	0.01	0.94	0.89	0.98
	NC	temp	-0.04	-0.07	-0.02	0.00	0.96	0.94	0.98
	RD	temp	-0.06	-0.09	-0.02	0.00	0.94	0.91	0.98

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature

Table S7: Bogra significant results with covariates for Model 2

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	Humidity	0.01	0.00	0.03	0.06	1.01	1.00	1.03
	NC	THE (\$)	-0.09	-0.14	-0.05	0.00	0.91	0.87	0.96
	RD	THE (\$)	-0.14	-0.24	-0.04	0.01	0.87	0.78	0.97
<b>12SPI</b>	NC	THE (\$)	-0.10	-0.15	-0.05	0.00	0.90	0.86	0.95
	RD	THE (\$)	-0.16	-0.26	-0.06	0.00	0.85	0.77	0.94
<b>3SPEI</b>	NC	Humidity	0.01	0.00	0.03	0.05	1.01	1.00	1.03
	NC	THE (\$)	-0.09	-0.14	-0.05	0.00	0.91	0.87	0.95
	RD	THE (\$)	-0.16	-0.27	-0.06	0.00	0.85	0.77	0.94
<b>12SPEI</b>	NC	THE (\$)	-0.10	-0.15	-0.05	0.00	0.90	0.86	0.95
	RD	THE (\$)	-0.16	-0.26	-0.05	0.00	0.86	0.77	0.95

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature, THE, total health expenditure.

Table S8: Ishurdi significant results with covariates for Model 2

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	THE (\$)	-0.08	-0.14	-0.02	0.01	0.92	0.87	0.98
	RD	THE (\$)	-0.13	-0.26	-0.01	0.03	0.87	0.77	0.99
	ID	THE (\$)	-0.19	-0.36	-0.01	0.04	0.83	0.70	0.99
<b>12SPI</b>	NC	THE (\$)	-0.10	-0.16	-0.04	0.00	0.90	0.85	0.96
	CD	temp	-0.07	-0.14	0.00	0.05	0.93	0.87	1.00
	CD	THE (\$)	-0.11	-0.20	-0.02	0.02	0.90	0.82	0.98
	ID	temp	-0.14	-0.26	-0.02	0.02	0.87	0.77	0.98
	ID	THE (\$)	-0.19	-0.36	-0.03	0.02	0.82	0.70	0.97
<b>3SPEI</b>	NC	THE (\$)	-0.08	-0.14	-0.01	0.02	0.93	0.87	0.99
	RD	THE (\$)	-0.14	-0.27	-0.01	0.03	0.87	0.77	0.99
	ID	temp	-0.13	-0.25	-0.01	0.03	0.88	0.78	0.99
	ID	THE (\$)	-0.18	-0.33	-0.03	0.02	0.83	0.72	0.97
<b>12SPEI</b>	NC	THE (\$)	-0.09	-0.15	-0.02	0.01	0.92	0.86	0.98
	CD	THE (\$)	-0.10	-0.19	0.00	0.04	0.91	0.83	1.00
	ID	temp	-0.14	-0.26	-0.03	0.02	0.87	0.77	0.98
	ID	THE (\$)	-0.18	-0.34	-0.01	0.04	0.84	0.71	0.99

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature, THE, total health expenditure

Table S9. Rajshahi significant results with covariates for Model 2

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	Temperature	-0.05	-0.08	-0.02	0.00	0.95	0.92	0.98
	NC	THE (\$)	-0.04	-0.08	0.00	0.05	0.96	0.92	1.00
	CD	THE (\$)	-0.07	-0.14	0.00	0.04	0.93	0.87	1.00
	RD	Temp	-0.16	-0.21	-0.10	0.00	0.85	0.81	0.90
	ID	Temp	-0.09	-0.16	-0.02	0.01	0.91	0.85	0.98
	ID	Humidity	-0.04	-0.07	-0.01	0.01	0.96	0.94	0.99
<b>12SPI</b>	NC	Temp	-0.06	-0.09	-0.03	0.00	0.94	0.92	0.97
	CD	THE (\$)	-0.07	-0.14	-0.01	0.03	0.93	0.87	0.99
	RD	Temp	-0.16	-0.21	-0.10	0.00	0.86	0.81	0.91
	ID	Temp	-0.10	-0.17	-0.03	0.00	0.91	0.85	0.97
	ID	Humidity	-0.04	-0.07	-0.01	0.00	0.96	0.94	0.99
<b>3SPEI</b>	NC	Temperature	-0.05	-0.08	-0.02	0.00	0.95	0.92	0.98
	NC	Humidity	-0.01	-0.02	0.00	0.03	0.99	0.98	1.00
	NC	THE (\$)	-0.04	-0.08	0.00	0.05	0.96	0.92	1.00
	CD	THE (\$)	-0.07	-0.14	-0.01	0.03	0.93	0.87	0.99
	RD	Tempe	-0.15	-0.21	-0.09	0.00	0.86	0.81	0.91
	ID	Temperature	-0.10	-0.16	-0.03	0.01	0.91	0.85	0.97
	ID	Humidity	-0.04	-0.07	-0.01	0.01	0.96	0.93	0.99
<b>12SPEI</b>	NC	Temperature	-0.06	-0.09	-0.03	0.00	0.94	0.92	0.97
	NC	Humidity	-0.01	-0.02	0.00	0.04	0.99	0.98	1.00
	CD	THE (\$)	-0.07	-0.13	0.00	0.05	0.94	0.88	1.00
	RD	Temp	-0.16	-0.22	-0.10	0.00	0.85	0.81	0.90
	ID	Temperature	-0.11	-0.18	-0.05	0.00	0.89	0.83	0.95
	ID	Humidity	-0.04	-0.07	-0.02	0.00	0.96	0.93	0.99
	ID	THE (\$)	-0.10	-0.21	0.00	0.05	0.90	0.81	1.00

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature, THE, total health expenditure

Table S10: Rangpur significant results with covariates for Model 2

Drought Index	Mortality Category	Factors	B	Lower	Upper	P	EXP(B)	Lower	Upper
<b>3SPI</b>	NC	Temp	-0.05	-0.08	-0.01	0.01	0.95	0.92	0.99
	CD	Temp	-0.06	-0.11	-0.01	0.02	0.94	0.89	0.99
<b>12SPI</b>	NC	Temp	-0.05	-0.08	-0.01	0.01	0.96	0.92	0.99
	RD	THE (\$)	0.15	0.01	0.30	0.04	1.17	1.01	1.35
<b>3SPEI</b>	NC	Temp	-0.05	-0.08	-0.01	0.01	0.96	0.92	0.99
	RD	THE (\$)	0.15	0.01	0.28	0.04	1.16	1.01	1.33
	SU	THE (\$)	-0.44	-0.86	-0.03	0.04	0.64	0.42	0.97
<b>12SPEI</b>	NC	Temp	-0.05	-0.08	-0.01	0.01	0.96	0.92	0.99
	RD	THE (\$)	0.16	0.01	0.31	0.03	1.17	1.01	1.36

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature, THE, total health expenditure

Table S11: Syedpur significant results with covariates for Model 2

<b>Drought Index</b>	<b>Mortality Category</b>	<b>Factors</b>	<b>B</b>	<b>Lower</b>	<b>Upper</b>	<b>P</b>	<b>EXP(B)</b>	<b>Lower</b>	<b>Upper</b>
<b>3SPI</b>	NC	Temp	-0.05	-0.10	0.00	0.04	0.95	0.90	1.00
<b>12SPI</b>	NC	Temp	-0.06	-0.11	-0.01	0.03	0.94	0.90	0.99
<b>3SPEI</b>	NC	Temp	-0.06	-0.11	-0.01	0.02	0.94	0.89	0.99
<b>12SPEI</b>	NC	Temp	-0.05	-0.10	0.00	0.03	0.95	0.90	1.00

<sup>1</sup>No drought used as reference. \*NC, natural cause, CD, cardiovascular disease, RD, respiratory disease, ID, infectious disease, SU, suicide, temp, temperature, THE, total health expenditure