| Disease | IRR at 95th percentile | | |
| --- | --- | --- | --- |
| PM2.5 | Rainfall | No. rain days |
| Pneumonia, Severe | | | |
| Moshi | 1.18 (0.85, 1.60) | 0.87 (0.57, 1.28) | 1.16 (0.90, 1.57) |
| Siha | 0.84 (0.56, 1.16) | **0.63 (0.43, 0.92)**\* | 1.11 (0.86, 1.42) |
| Tuberculosis | | | |
| Moshi | 0.82 (0.50, 1.18) | 0.89 (0.51, 1.48) | 0.99 (0.68, 1.50) |
| Siha | **0.61 (0.32, 0.95)**\* | **0.47 (0.26, 0.86)**\* | 0.75 (0.48, 1.13) |
| Skin Infection - Fungal | | | |
| Moshi | 0.87 (0.75, 1.01) | 1.04 (0.88, 1.26) | 1.11 (0.99, 1.26) |
| Siha | **1.33 (1.14, 1.55)**\* | 0.88 (0.75, 1.03) | 1.05 (0.94, 1.18) |
| Malnutrition | | | |
| Moshi | 1.03 (0.71, 1.48) | 0.92 (0.56, 1.54) | 0.88 (0.62, 1.26) |
| Siha | 0.84 (0.44, 1.29) | **0.35 (0.20, 0.59)**\* | 1.00 (0.67, 1.50) |
| Peptic Ulcers | | | |
| Moshi | 1.05 (0.91, 1.24) | 1.05 (0.87, 1.26) | 0.97 (0.86, 1.09) |
| Siha | 0.94 (0.80, 1.10) | **0.80 (0.68, 0.95)**\* | **1.25 (1.12, 1.40)**\* |
| Epilepsy | | | |
| Moshi | 1.13 (0.90, 1.42) | 1.02 (0.76, 1.38) | 1.00 (0.81, 1.22) |
| Siha | 0.98 (0.75, 1.28) | **0.69 (0.52, 0.91)**\* | 0.84 (0.69, 1.03) |
| Neuroses | | | |
| Moshi | 0.96 (0.72, 1.30) | 0.92 (0.60, 1.38) | 0.79 (0.60, 1.10) |
| Siha | **0.63 (0.42, 0.88)**\* | 0.91 (0.61, 1.33) | 0.83 (0.61, 1.12) |
| Psychoses | | | |
| Moshi | 1.18 (0.90, 1.53) | 1.05 (0.75, 1.49) | 0.91 (0.70, 1.15) |
| Siha | 1.35 (0.94, 1.82) | 0.82 (0.57, 1.15) | 0.92 (0.73, 1.16) |
| Dysentery | | | |
| Moshi | 1.03 (0.74, 1.82) | 0.98 (0.61, 1.59) | 1.17 (0.85, 1.74) |
| Siha | **1.47 (1.01, 2.49)**\* | 1.43 (0.88, 2.31) | 1.13 (0.78, 1.66) |
| Intestinal Worms | | | |
| Moshi | 1.03 (0.90, 1.19) | 0.97 (0.81, 1.16) | 1.02 (0.91, 1.15) |
| Siha | 1.11 (0.95, 1.29) | **0.74 (0.62, 0.87)**\* | 0.96 (0.86, 1.08) |
| Neoplasms/Cancer | | | |
| Moshi | 0.95 (0.59, 1.37) | 0.77 (0.45, 1.29) | 1.11 (0.75, 1.64) |
| Siha | 1.53 (0.85, 2.80) | **0.35 (0.17, 0.66)**\* | 1.27 (0.80, 1.99) |
| Other Cardiovascular Diseases | | | |
| Moshi | 1.00 (0.80, 1.25) | 1.13 (0.85, 1.51) | 1.20 (0.98, 1.50) |
| Siha | 1.04 (0.83, 1.33) | 0.83 (0.63, 1.11) | 0.93 (0.75, 1.14) |
| Mild/Moderate Anemia | | | |
| Moshi | 1.01 (0.83, 1.28) | 1.06 (0.80, 1.40) | 0.95 (0.77, 1.15) |
| Siha | **0.76 (0.58, 0.97)**\* | 0.78 (0.58, 1.03) | **0.76 (0.62, 0.92)**\* |
| Caries | | | |
| Moshi | 1.06 (0.76, 1.53) | 1.31 (0.84, 2.11) | 1.25 (0.90, 1.84) |
| Siha | 0.71 (0.48, 1.11) | 0.93 (0.59, 1.45) | 0.96 (0.71, 1.35) |
| Poisoning | | | |
| Moshi | 0.88 (0.62, 1.17) | 0.91 (0.61, 1.34) | 0.92 (0.70, 1.22) |
| Siha | 1.23 (0.90, 1.80) | **0.57 (0.36, 0.85)**\* | **0.66 (0.47, 0.88)**\* |
| Snake and Insect Bites | | | |
| Moshi | **0.57 (0.40, 0.77)**\* | 0.94 (0.61, 1.48) | 0.76 (0.57, 1.07) |
| Siha | 1.06 (0.69, 1.45) | **1.56 (1.04, 2.25)**\* | **2.07 (1.59, 2.72)**\* |
| Substance Abuse | | | |
| Moshi | 0.99 (0.61, 2.23) | 1.02 (0.50, 2.25) | 1.24 (0.76, 2.59) |
| Siha | **1.87 (1.10, 3.72)**\* | 0.57 (0.24, 1.21) | 1.02 (0.62, 1.68) |
| Fractures | | | |
| Moshi | 0.93 (0.73, 1.19) | 1.01 (0.74, 1.41) | 1.02 (0.82, 1.29) |
| Siha | 0.90 (0.69, 1.18) | 1.02 (0.74, 1.38) | 1.12 (0.88, 1.41) |
| Road Traffic Accidents | | | |
| Moshi | 0.80 (0.62, 1.04) | 1.05 (0.74, 1.47) | 0.94 (0.74, 1.19) |
| Siha | 1.19 (0.90, 1.60) | **0.67 (0.49, 0.91)**\* | 0.86 (0.68, 1.07) |
| Typhoid | | | |
| Moshi | 0.85 (0.52, 1.64) | 0.83 (0.39, 1.69) | 1.15 (0.62, 2.03) |
| Siha | 0.96 (0.46, 4.51) | 0.52 (0.18, 1.28) | 0.69 (0.23, 1.31) |
| Leprosy | | | |
| Moshi | 1.65 (0.65, 4.78) | 1.20 (0.37, 4.76) | 1.22 (0.49, 4.07) |
| Siha | **21 755.06 (3 075.19, 235 579.40)**\* | 0.76 (0.06, 5.79) | 2.28 (0.57, 11.15) |
| Schistosomiasis | | | |
| Moshi | 0.98 (0.51, 1.67) | 0.64 (0.27, 1.37) | 1.47 (0.87, 2.76) |
| Siha | 1.69 (0.93, 4.39) | 0.72 (0.32, 1.58) | 0.71 (0.36, 1.41) |
| \*: 95% credibility interval excluding 1 | | | |