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| *Table S1*: Frequency of nodding syndrome cases and village controls with positive exposures. Adjusted odds of positive exposure in a case versus control.  |
|  |  **Positive Cases** **%\*** | **Positive Controls %** | **AOR Model 2¶****(95%CI)** | **AOR Model 3§****(95%CI)** |
| **Exposure** |  |  |  |  |
| Ever treated for Onchocerciasis | 33·3 | 24·5 | 1·0 (0·2, 4·7) | 1·7 (0·4, 7·1) |
| Family member abducted | 58·8 | 49·0 | 0·8 (0·2, 3·6) | 1·0 (0·3, 3·3) |
| *History of* |  |  |  |  |  |  |
|  Measles  | 23·5 | 6·1 | 1·7 (0·4, 7·9) | **4·6 (1·0, 21·9)** |
|  Malaria^ | 43·1 | 59·2 | 0·9 (0·3, 3·1) | 0·9 (0·2, 3·1) |
|  Malnutrition^ | 3·9 | 4·1 | 10·3 (0·8, 127·8) | 1·3 (0·2, 7·7) |
|  Pneumonia^ | 0·0 | 2·0 | 0·6 (0·0, 37·4)+ | 1·0 (0·0, 66·1)+ |
|  Diarrhea^ | 2·0 | 4·1 | 2·1 (0·0, 154·6)+ | 1·5 (0·3, 9·1) |
|  Head injury^ | 2·0 | 0·0 | 3·9 (0·0, 406·0)+ | 0·3 (0·0, 3·2)+ |
|  Tapeworm | 0·0 | 0·0 | --- | --- |
| *Consumption of* |  |  |  |  |  |  |
|  Red sorghum | 98·0 | 100 | 1·8 (0·0, 184·8)+ | 1·4 (0·0, 149·1)+ |
|  Spoiled relief foods | 243·1 | 46·9 | 0·5 (0·1, 2·5) | 0·6 (0·1, 2·8) |
|  Supplementary foods | 21·6 | 12·2 | 0·9 (0·2, 4·8) | 2·2 (0·5, 9·5) |
|  Seeds meant for planting | 60·8 | 65·3 | 0·3 (0·1, 1·5) | 0·6 (0·1, 2·7) |
|  River Fish | 96·1 | 100 | 1·8 (0·0, 124·7)+ | 0·1 (0·0, 15·0)+ |
|  Insects | 41·2 | 32·7 | 1·1 (0·2, 5·8) | 0·6 (0·1, 2·5) |
|  Rodent brain | 54·9 | 51·0 | 1·7 (0·2, 12·3) | 3·7 (0·4, 33·4) |
|  Guinea fowl brain | 7·8 | 4·1 | 0·9 (0·1, 8·3) | 7·5 (0·5, 104·1) |
|  Bush meat | 100 | 100 | --- | --- |
|  Cassava | 100 | 100 | --- | --- |
| *Use of traditional or herbal medicines* |
|  Crushed roots^ | 39·2 | 16·3 | 4·4 (0·9, 21·1) | **6·7 (1·3, 33·1)** |
|  Crushed leaves^ | 7·8 | 2·0 | 3·8 (0·1, 128·8) | 4·1 (0·3, 59·0) |
|  Crushed flowers^ | 0·0 | 2·0 | --- | 1·2 (0·1, 10·0) |
|  Inhaled medicine^ | 2·0 | 0·0 | 0·3 (0·0, 28·2)+ | 0·2 (0·0, 2·4)+ |
|  Lotion | 0·0 | 0·0 | --- | --- |
|  Broth | 0·0 | 0·0 | --- | --- |
| *Water source for domestic use* |  |  |  |  |  |  |
|  Rivers/streams | 80·7 | 83·7 | 0·2 (0·0, 7·8)+ | 0·0 (0·0, 1·9)+ |
|  Boreholes | 96·1 | 100 | 0·3 (0·0, 17·6)+ | 0·1 (0·0, 6·6)+ |
|  Shallow wells | 11·8 | 6·1 | **6·4 (2·0, 20·6)** | 6·9 (0·4, 108·8)+ |
|  Springs | 5·9 | 4·1 | 2·8 (0·3, 25·7) | 1·9 (0·1, 34·3) |
|  Piped water | 0·0 | 0·0 | --- | --- |
| *Exposure to* |  |  |  |  |  |  |
|  Munitions | 70·6 | 51·0 | **10·4 (1·0, 107·7)** | **17·2 (1·3, 226·4)** |
|  Unusual illness/death of animals | 52·9 | 53·1 | 1·4 (0·3, 7·0) | 0·3 (0·0, 1·7) |
|  Swimming in the river^ | 17·7 | 22·5 | 0·2 (0·0, 1·8) | 0·4 (0·1, 2·6) |
|  Swimming in the pond^ | 7·8 | 4·1 | 1·9 (0·1, 42·2) | 2·6 (0·0, 311·0) |
| *Statistically significant values are in bold.**CI: Confidence interval. OR: odds ratio.* |
| *\* Percent with exposure is calculated by number of cases with a positive exposure divided by number of cases, or number of controls exposed divided by number of controls* |
| *‡ Odds ratio calculated as odds of positive exposure in cases versus odds of exposure in controls* |
| **¶***AOR2: Odds ratio adjusted for age, munitions, roots* |
| **§***AOR3: Odds ratio adjusted for age, measles, sorghum, onchocerciasis skin snip positive* |
| *^Missing data existed for the following exposure variables: malaria, malnutrition, pneumonia, diarrhea, head injury, crushed leaves, roots, flowers, inhaled medicine (number of cases responding to question=50); swimming in the river or pond, (cases=49); all data used for frequencies, data from available matched pairs used for matched analyses.* |
| *+Firth’s correction* |