Setting a course for preventing hepatitis E in low and lower-middle-income countries: A systematic review of burden and risk factors

### Meta Data Section

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Type** | **Description** | **Comments/Coding** |
| uid | numeric | Unique ID for paper |  |
| author | character | Authors |  |
| journal | character | Journal the paper was published in |  |
| study\_year | numeric |  | This is the year that the study started. |
| iso3 | character | Three letter iso code of country. | If paper covers multiple countries, seperate country codes by semi-colon (;). List of codes are [here](https://en.wikipedia.org/wiki/ISO_3166-1_alpha-3). |
| adm2 | character | Lower geographic unit (e.g. city, town) |  |
| adm3 | character | Lower geographic unit (e.g. neighborhood) |  |
| population | numeric | Size of catchment area or study source population |  |
| population\_source | text | Source for population size if other than manuscript |  |
| contains\_outbreak\_1 | numeric | Does this manuscript contain an outbreak description? | 0 = no  1 = yes |
| contains\_serosurvey\_2 | numeric | Does this manuscript contain serosurvey data? | 0 = no  1 = yes |
| contains\_infection\_disease\_rf\_3 | numeric | Does this manuscript contain risk factors for infection or disease? | 0 = no  1 = yes |
| contains\_death\_rf\_4 | numeric | Does this manuscript contain risk factors for death? | 0 = no  1 = yes |

### Outbreak Description Section

Notes:

* If paper does not at a minimum have a case definition it will be sent back to full text review
* Postpartum mothers included in variables pertaining to pregnant women

Variables:

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Type** | **Description** | **Comments/Coding** |
| uid | numeric | Unique ID for paper |  |
| refugee | numeric | Did the outbreak occur in a refugee or internally displaced persons camp? | 0 = no  1 = yes |
| TL | date | Date of first case reported in dataset |  |
| TR | date | Date of last case reported in dataset |  |
| TR\_minus\_TL | numeric | Number of days between first and last cases reported | Only if no specific TL and TR given but only a duration |
| genotype | numeric |  | 1 = g1  2 = g2  9 = unknown (but suspected 1 or 2) |
| partial\_epidemic | numeric | Is this known to be a report of only part of an outbreak (in time within the geographic unit specified)? | 0 = no  1 = yes |
| suspected\_case\_def | text | Suspected case definition |  |
| confirmed\_case\_def | text | Confirmed case definition |  |
| confirmation\_IgM | numeric | Is IgM+ part of confirmed case definition | 0 = no  1 = yes |
| confirmation\_IgM\_test | text | IgM test manufacturer |  |
| confirmation\_RNA | numeric | Is RNA part of confirmed case definition | 0 = no  1 = yes |
| suspected\_confirmatory | numeric | Number of suspected cases with confirmatory serologic testing done (ex. IgG, IgM, RNA) |  |
| modal\_age\_suspected\_case | numeric | Modal age of suspected cases | Usually reported as mean or median |
| modal\_age\_suspected\_case\_type | numeric | Is modal age a mean or median? | 1 = mean  2 = median |
| modal\_age\_confirmed\_case | numeric | Modal age of confirmed cases | Usually reported as mean or median |
| modal\_age\_confirmed\_case\_type | numeric | Is modal age a mean or median? | 1 = mean  2 = median |
| modal\_age\_suspected\_death | numeric | Modal age of suspected deaths | Usually reported as mean or median |
| modal\_age\_suspected\_death\_type | numeric | Is modal age a mean or median? | 1 = mean  2 = median |
| modal\_age\_confirmed\_death | numeric | Modal age of confirmed deaths | Usually reported as mean or median |
| modal\_age\_confirmed\_death\_type | numeric | Is modal age a mean or median? | 1 = mean  2 = median |
| num\_suspected\_cases\_hospitalized | numeric | Number of suspected cases presenting for care at medical facilities |  |
| num\_suspected\_cases\_community | numeric | Number of suspected cases detected in the community |  |
| num\_suspected\_cases\_institutions | numeric | Number of suspected cases detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_suspected\_cases\_unkown | numeric | Number of suspected cases with unspecified care seeking behaviour |  |
| num\_confirmed\_cases\_hospitalized | numeric | Number of confirmed cases presenting for care at medical facilities |  |
| num\_confirmed\_cases\_community | numeric | Number of confirmed cases detected in the community |  |
| num\_confirmed\_cases\_institutions | Numeric | Number of confirmed cases detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_confirmed\_cases\_unkown | numeric | Number of confirmed cases with unspecified care seeking behaviour |  |
| num\_suspected\_deaths\_hospitalized | numeric | Number of suspected deaths presenting for care at medical facilities |  |
| num\_suspected\_deaths\_community | numeric | Number of suspected deaths detected in the community |  |
| num\_suspected\_deaths\_institutions | numeric | Number of suspected deaths detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_suspected\_deaths\_unkown | numeric | Number of suspected deaths with unspecified care seeking behaviour |  |
| num\_confirmed\_deaths\_hospitalized | numeric | Number of confirmed deaths presenting for care at medical facilities |  |
| num\_confirmed\_deaths\_community | numeric | Number of confirmed deaths detected in the community |  |
| num\_confirmed\_deaths\_institutions | numeric | Number of confirmed deaths detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_confirmed\_deaths\_unkown | numeric | Number of confirmed deaths with unspecified care seeking behaviour |  |
| num\_suspected\_cases\_preg\_hospitalized | numeric | Number of suspected cases among pregnant women presenting for care at medical facilities |  |
| num\_suspected\_cases\_preg\_community | numeric | Number of suspected cases among pregnant women detected in the community |  |
| num\_suspected\_cases\_preg\_institutions | numeric | Number of suspected cases among pregnant women detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_suspected\_cases\_preg\_unkown | numeric | Number of suspected cases among pregnant women with unspecified care seeking behaviour |  |
| num\_confirmed\_cases\_preg\_hospitalized | numeric | Number of confirmed cases among pregnant women presenting for care at medical facilities |  |
| num\_confirmed\_cases\_preg\_community | numeric | Number of confirmed cases among pregnant women detected in the community |  |
| num\_confirmed\_cases\_preg\_institutions | numeric | Number of confirmed cases among pregnant women detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_confirmed\_cases\_preg\_unkown | numeric | Number of confirmed cases among pregnant women with unspecified care seeking behaviour |  |
| num\_suspected\_deaths\_preg\_hospitalized | numeric | Number of suspected deaths among pregnant women presenting for care at medical facilities |  |
| num\_suspected\_deaths\_preg\_community | numeric | Number of suspected deaths among pregnant women detected in the community |  |
| num\_suspected\_deaths\_preg\_institutions | numeric | Number of suspected deaths among pregnant women detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_suspected\_deaths\_preg\_unkown | numeric | Number of suspected deaths among pregnant women with unspecified care seeking behaviour |  |
| num\_confirmed\_deaths\_preg\_hospitalized | numeric | Number of confirmed deaths among pregnant women presenting for care at medical facilities |  |
| num\_confirmed\_deaths\_preg\_community | numeric | Number of confirmed deaths among pregnant women detected in the community |  |
| num\_confirmed\_deaths\_preg\_institutions |  | Number of confirmed deaths among pregnant women detected in institutions (ex. Prisons, army barracks, etc.)  Specify institution |  |
| num\_confirmed\_deaths\_preg\_unkown | numeric | Number of confirmed deaths among pregnant women with unspecified care seeking behaviour |  |
| num\_suspected\_cases\_u5\_hospitalized | numeric | Number of suspected cases among under 5s presenting for care at medical facilities |  |
| num\_suspected\_cases\_u5\_community | numeric | Number of suspected cases among under 5s detected in the community |  |
| num\_suspected\_cases\_u5\_unkown | numeric | Number of suspected cases among under 5s with unspecified care seeking behaviour |  |
| num\_confirmed\_cases\_u5\_hospitalized | numeric | Number of confirmed cases among under 5s presenting for care at medical facilities |  |
| num\_confirmed\_cases\_u5\_community | numeric | Number of confirmed cases among under 5s detected in the community |  |
| num\_confirmed\_cases\_u5\_unkown | numeric | Number of confirmed cases among under 5s with unspecified care seeking behaviour |  |
| num\_suspected\_deaths\_u5\_hospitalized | numeric | Number of suspected deaths among under 5s presenting for care at medical facilities |  |
| num\_suspected\_deaths\_u5\_community | numeric | Number of suspected deaths among under 5s detected in the community |  |
| num\_suspected\_deaths\_u5\_unkown | numeric | Number of suspected deaths among under 5s with unspecified care seeking behaviour |  |
| num\_confirmed\_deaths\_u5\_hospitalized | numeric | Number of confirmed deaths among under 5s presenting for care at medical facilities |  |
| num\_confirmed\_deaths\_u5\_community | numeric | Number of confirmed deaths among under 5s detected in the community |  |
| num\_confirmed\_deaths\_preg\_unkown | numeric | Number of confirmed deaths among under 5s with unspecified care seeking behaviour |  |

### Risks Factors

Notes:

* One entry/row per risk-factor-outcome per paper (if presented as adjusted and unadjusted, enter both in separate entries)

Variables:

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Type** | **Description** | **Comments/Coding** |
| uid | numeric | Unique ID for paper |  |
| outcome\_type | numeric | Type of outcome for risk factor | 1 = Suspected disease  2 = Confirmed disease  3 = Both suspected and confirmed disease  4 = Confirmed infection  5 = Death |
| outcome\_definition | text | Define outcome more specifically |  |
| outcome\_confirmation\_method | text | How was this outcome determined? | Indicate test type or other criteria. |
| covariate\_type | numeric | Covariate category | 1 = water  2 = sanitation  3 = hygiene  4 = food and drink (non-water)  5 = exposure to blood or blood products  6 = animal related  7 = socioeconomic status/demographics  8 = other |
| covariate\_desc | text | description of covariate  Describe reference category if applicable (Ex. Marital status, comparing married to reference category of unmarried)  If covariate is age, describe age categories being compared if available |  |
| covariate\_direction | numeric | Expected directionality of estimator presented | 0 = Protective risk factor based on the general consensus of literature into factors that are thought to increase HEV infection/disease/death  1 = Increased risk factor based on the general consensus of literature into factors that are thought to increase HEV infection/disease/death  2 = Unknown hypothesized direction of effect |
| estimator | numeric | Type of estimator presented | 1 = Odds Ratio  2 = Risk Ratio  3= Prevalence Ratio  4= Attack rate ratio |
| effect\_size | numeric | Effect size |  |
| 95pct\_CI\_lower | numeric | Lower bound of 95% confidence (or credible) interval |  |
| 95pct\_CI\_upper | numeric | Upper bound of 95% confidence (or credible) interval |  |
| adjusted | numeric | Is this adjusted for other covariates (regression adjustment and/or matching)?  If adjusted, list which covariates have been adjusted for in the notes if known | 0 = no  1 = yes |
| subgroup | text | If this is based on stratified analyses, what group is this restricted to? |  |
| **notes** |  | List p-value if no 95% confidence interval is reported |  |

### Seroprevalence

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Type** | **Description** | **Comments/Coding** |
| uid | numeric | Unique ID for paper |  |
| sampling\_strategy | text | Sampling strategy | 1 - random  2 - convenience/purposive  3 - unknown |
| population\_type | Numeric (separate with commas if more than 1 is applicable) | Population type | 1= general population (note: blood donors included in this group)  2=blood donors  3=Patients attending a hospital or clinic for non-liver related, non-pregnancy related issues  4=pregnant or postpartum women  5=occupational groups exposed to potential animal reservoirs (e.g. butchers, pig farmers, etc.)  6=living in outbreak areas  7=other |
| population\_desc | text |  |  |
| age\_L | numeric | Lower limit of age group in years (specify weeks/months if not years) | Inclusive of this number (e.g., if this is 2, it includes those age 2) |
| age\_U | numeric | Upper limit of age group in years (specify weeks/months if not years) | Inclusive of this number (e.g., if this is 5, it includes those age 5) |
| isotype | numeric | Isotype of test | 1 = IgG  2= IgG and/or IgM  3= Unknown but likely either IgG alone or IgG and/or IgM |
| test\_manufacturer | text | Test manufacturer |  |
| number\_tested | numeric | Number of samples tested |  |
| numer\_positive | numeric | Number of samples tested positive |  |
| number\_negative | numeric | Number of samples tested negative |  |
| number\_indeterminate | numeric | Number of samples tested indeterminate |  |
| percent\_positive | numeric | Percent of samples tested positive  Note: Only extract if number positive not provided |  |
| percent\_negative | numeric | Percent of samples tested negative  Note: Only extract if number negative not provided |  |