

Table S1. Search terms.

| Databases | Search terms | Search date |
|--------------------|--|--------------------|
| MEDLINE (PubMed) | (malaria OR Plasmodium) AND (neoplasia OR neoplasias OR neoplasm OR tumors OR tumor OR cancer OR cancers OR malignancy OR malignancies) AND (risk OR risks OR odd OR odds) | 27 March 2021 |
| | Search option: All fields Search results: 514 | |
| Scopus | (malaria OR Plasmodium) AND (neoplasia OR neoplasias OR neoplasm OR tumors OR tumor OR cancer OR cancers OR malignancy OR malignancies) AND (risk OR risks OR odd OR odds) | 27 March 2021 |
| | Search option: title, abstract, keywords Search results: 932 | |
| ISI Web of Science | (malaria OR Plasmodium) AND (neoplasia OR neoplasias OR neoplasm OR tumors OR tumor OR cancer OR cancers OR malignancy OR malignancies) AND (risk OR risks OR odd OR odds) | 27 March 2021 |
| | Search option: All fields Search results: 694 | |

Table S2. Assessment of risk of bias relating to individual studies using the Joanna Briggs Institute for case-control studies.

| No. | Authors | Groups comparable | Cases and controls matched | Same criteria used for identification of cases and controls | Exposure measured in a standard, valid and reliable way | Exposure measured in the same way for cases and controls | Confounding factors identified | Strategies to deal with confounding factors | Outcomes assessed in a standard, valid and reliable way | The exposure period of interest long enough | Appropriate statistical analysis | Score (10) |
|-----|--------------------------|-------------------|----------------------------|---|---|--|--------------------------------|---|---|---|----------------------------------|------------|
| 1 | Derkach et al., 2019 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 2 | Johnston et al., 2014 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 3 | Legason et al., 2017 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 4 | Peprah et al., 2020 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 5 | Wyss et al., 2020 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 6 | Aguilar et al., 2017 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 7 | Aka et al., 2013 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 8 | Carpenter et al., 2008 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 9 | Guech-Ongey et al., 2012 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |
| 10 | Mutalima et al., 2008 | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Not applicable | Yes | 7 (70%) |