

S3 Table. Study sites included in analysis

| Author-Year | Country | Study site | Latitude | Longitude | Year Start | Year End | MAP PvPR (%) ^a | Publication estimate of prevalence | Final prevalence classification | Region of relapse periodicity ^a | Final category of relapse periodicity ^b |
|------------------------|------------------|-----------------|----------|-----------|------------|----------|---------------------------|------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------------|
| Hasugian-2007 [25] | Indonesia | Timika | -4.50 | 136.85 | 2005 | 2005 | 4.7 | Seasonal; API 403.34 | High | 12 | High |
| Ratcliff-2007 [26] | Indonesia | Timika | -4.50 | 136.85 | 2005 | 2005 | 4.7 | Seasonal; API 403.34 | High | 12 | High |
| Karunajeewa-2008 [6] | Papua New Guinea | East Sepik | -4.46 | 143.22 | 2005 | 2007 | 7.8 | Not stated | High | 12 | High |
| Karunajeewa-2008 [6] | Papua New Guinea | Madang | -5.23 | 145.79 | 2005 | 2007 | 9.4 | Not stated | High | 12 | High |
| Awab-2010 [38] | Afghanistan | Jalalabad | 34.43 | 70.46 | 2007 | 2009 | 1.4 | Seasonal | Low | 11 | Low |
| Awab-2010 [38] | Afghanistan | Maimana | 35.92 | 64.82 | 2007 | 2009 | 0.6 | Seasonal | Low | 11 | Low |
| Awab-2010 [38] | Afghanistan | Taloqan | 36.74 | 69.54 | 2007 | 2009 | 0.4 | Seasonal | Low | 11 | Low |
| Phyo-2011 [27] | Thailand | Mae Sot | 16.72 | 98.58 | 2007 | 2008 | 4.0 | Low EIR <1; seasonal transmission | High | 10 | High |
| Abdallah-2012 [39] | Sudan | Kassala | 15.41 | 36.41 | 2011 | 2011 | 0.4 | Not stated | Low | 7 | Low |
| Barber-2013 [28] | Malaysia | Sabah | 5.98 | 116.08 | 2010 | 2011 | 3.9 | Not stated | Moderate | 10 | High |
| Hwang-2013 [40] | Ethiopia | Bishoftu | 8.74 | 38.99 | 2009 | 2010 | 1.4 | Seasonal; parasite prevalence rates of 0.3 and 0.9% in all ages and 0.6% in Oromia in 5-18 year olds | Low | 7 | Low |
| Hwang-2013 [40] | Ethiopia | Bulbula | 7.72 | 38.65 | 2009 | 2010 | 2.2 | Seasonal; parasite prevalence rates of 0.3 and 0.9% in all ages and 0.6% in Oromia in 5-18 year olds | Moderate | 7 | Low |
| Pasaribu-2013 [29] | Indonesia | Tanjung Leidong | 2.33 | 100.05 | 2010 | 2012 | 0.3 | 400-500 per year amongst 32837 in 2010 | Low | 10 | High |
| Sutanto-2013 [30] | Indonesia | Lumajang | -8.13 | 113.22 | 2010 | 2011 | 0.3 | None - returned soldiers | Low | 10 | High |
| Laman-2014 [31] | Papua New Guinea | Madang | -5.23 | 145.79 | 2011 | 2013 | 9.4 | Not stated | High | 12 | High |
| Lidia-2015 [32] | Indonesia | Kupang | -10.18 | 123.61 | 2013 | 2013 | 0.9 | Not stated | Low | 10 | High |
| Nelwan-2015 [33] | Indonesia | Sragen | -7.42 | 111.02 | 2013 | 2014 | 0.3 | None - returned soldiers | Low | 10 | High |
| Thuan-2016 [34] | Vietnam | Bu Gia Map | 12.04 | 107.05 | 2013 | 2014 | 2.4 | High | Moderate | 10 | High |
| Thuan-2016 [34] | Vietnam | Dak O | 12.00 | 107.50 | 2013 | 2014 | 1.3 | High | Moderate | 10 | High |
| Abreha-2017 [41] | Ethiopia | Bishoftu | 8.73 | 39.01 | 2012 | 2016 | 1.4 | Not available | Low | 7 | Low |
| Abreha-2017 [41] | Ethiopia | Batu | 6.67 | 39.42 | 2012 | 2016 | 0.9 | Not available | Low | 7 | Low |
| Chu-2018 [35] | Thailand | Mae Sot | 16.72 | 98.58 | 2012 | 2014 | 4.0 | Seasonal | High | 10 | High |
| Grigg-2018 [36] | Malaysia | Kudat | 6.89 | 116.85 | 2013 | 2016 | 3.8 | Not stated | Moderate | 10 | High |
| Daher-2018 [42] | Brazil | Rondonia | -3.15 | -60.07 | 2012 | 2015 | 7.8 | Not stated | High | 3 | Low |
| Daher-2018 [42] | Brazil | Manaus | -11.61 | -63.56 | 2012 | 2015 | 7.4 | Not stated | High | 3 | Low |
| Poespoprodjo-2018 [37] | Indonesia | Timika | -4.50 | 136.85 | 2005 | 2005 | 4.7 | Unstable; prevalence 6.0% in 2013 | High | 12 | High |

API – annual parasite index; EIR – entomological inoculation rate

^a *P. vivax* parasite rate estimated by Malaria Atlas Project (MAP) for 2010; ^b Short relapse periodicity ≤47 days