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Malaria (Plasmodium spp.) 2010 Case Definition | CDC  
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Malaria (  
Plasmodium  
spp.)  
2010 Case Definition  
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spp.)  
2010 Case Definition  
NOTE:  
A surveillance case definition is a set of uniform criteria used to define a disease for public health surveillance. Surveillance case definitions enable public health officials to classify and count cases consistently across reporting jurisdictions. Surveillance case definitions are not intended to be used by healthcare providers for making a clinical diagnosis or determining how to meet an individual patient’s health needs.  
CSTE Position Statement(s)  
09-ID-47  
Clinical Description  
The first symptoms of malaria (most often fever, chills, sweats, headaches, muscle pains, nausea and vomiting) are often not specific and are also found in other diseases (such as influenza and other common viral infections). Likewise, the physical findings are often not specific (elevated temperature, perspiration, tiredness). In severe malaria (caused by  
P. falciparum  
), clinical findings (confusion, coma, neurologic focal signs, severe anemia, respiratory difficulties) are more striking and may increase the suspicion index for malaria.  
Laboratory Criteria For Diagnosis  
Detection of circulating malaria-specific antigens using rapid diagnostic test (RDT),  
OR  
Detection of species specific parasite DNA in a sample of peripheral blood using a Polymerase Chain Reaction (PCR) test\*,  
OR  
Detection of malaria parasites in thick or thin peripheral blood films.  
Case Classification  
Suspected  
Detection of  
Plasmodium  
species by rapid diagnostic antigen testing without confirmation by microscopy or nucleic acid testing in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country.  
Confirmed  
Detection and specific identification of malaria parasites by microscopy on blood films in a laboratory with appropriate expertise in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country,  
OR  
Detection of  
Plasmodium  
species by nucleic acid test\* in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country.  
Comments  
\* Laboratory-developed malaria PCR tests must fulfill CLIA requirements, including validation studies  
A subsequent attack experienced by the same person but caused by a different  
Plasmodium  
species is counted as an additional case. A subsequent attack experienced by the same person and caused by the same species in the United States may indicate a relapsing infection or treatment failure caused by drug resistance or a separate attack.  
Blood smears from questionable cases should be referred to the CDC Division of Parasitic Diseases Diagnostic Laboratory for confirmation of the diagnosis.  
Cases also are classified according to the following World Health Organization categories:  
Autochthonous:  
Indigenous  
: malaria acquired by mosquito transmission in an area where malaria is a regular occurrence  
Introduced  
: malaria acquired by mosquito transmission from an imported case in an area where malaria is not a regular occurrence  
Imported  
: malaria acquired outside a specific area (e.g., the United States and its territories)  
Induced  
: malaria acquired through artificial means (e.g., blood transfusion, common syringes, or malariotherapy)  
Relapsing  
: renewed manifestation (i.e., of clinical symptoms and/or parasitemia) of malarial infection that is separated from previous manifestations of the same infection by an interval greater than any interval resulting from the normal periodicity of the paroxysms  
Cryptic  
: an isolated case of malaria that cannot be epidemiologically linked to additional cases  
Related Case Definition(s)  
Malaria (  
Plasmodium  
spp.) | 2014 Case Definition  
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National Notifiable Diseases Surveillance System (NNDSS)  
NNDSS receives and shares case data from state, local, and territorial health departments to help public health monitor, control, and prevent serious diseases.  
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