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Implementation: To be determined by each Service

Change Notification UK National Blood Services No. 07 2016

This change applies to the Cord Blood Donor Selection Guidelines only

Tropical Viruses

Please add this new topic:

Definitions *To include Dengue Virus, Dengue Fever and Chikungunya Virus, also known as CHIKV.*

Tropical Virus endemic areas are shown in the Geographical Disease Risk Index (GDRI) as a Tropical Virus Risk.

Obligatory

Must not donate if:

- a) A mother has been diagnosed with chikungunya or dengue whilst in an endemic area or following her return to the UK during this pregnancy.
- b) A mother has either had a history of symptoms suggestive of chikungunya or dengue whilst in an endemic area or following her return to the UK during this pregnancy.
- c) In other cases it is less than four weeks from a mother's return from a Tropical Virus Risk endemic area.

See if Relevant

[Geographical Disease Risk Index](#)
[Malaria](#)
[South American Trypanosomiasis Risk](#)
[Infection - Tropical](#)

Additional Information

Chikungunya is an alpha virus that can cause a wide spectrum of disease. This may range from no or minimal symptoms to death. Most commonly it causes arthritis (typically in the knee, ankle and small joints of the extremities), high fever, and a maculopapular rash.

It is geographically widespread but has reached epidemic proportions in parts of India and islands in the Indian Ocean since 2005. It is known to be spread by blood in symptomatic cases and on theoretical grounds could be spread by transfusion and transplantation of tissues and organs from people with pre-symptomatic or asymptomatic disease. A number of visitors returning from endemic areas to the UK have been diagnosed with this infection.

Continued

Dengue Virus is a flavivirus that typically gives rise to abrupt high fever with a range of accompanying symptoms. Dengue fever (DF) is the most common arthropod borne disease worldwide.


Overall, 15-90% of cases may have an asymptomatic course of infection, but clinical presentation varies with age group. However there is a risk of change in disease presentation and potential for increased incidence of more severe disease in older age groups due to co-circulation of different dengue types and emergence of new types in endemic areas patterns.

The main vector for chikungunya virus and dengue virus, *Aedes aegypti* (*Aedes albopictus* is another emerging vector), is found worldwide between latitudes 35°N and 35°S and Dengue is currently considered endemic in approximately 128 countries. There is no epidemiologically important animal reservoir. The main areas affected include the Caribbean, South and Central America, Mexico, Africa, the Pacific Islands, SE Asia, Indian sub-continent, Hawaii, and Australia, where Dengue Fever.

As the problem can vary both in relation to geography and time of the year it is not possible to state areas from which donors need to be deferred and dates of disease activity. These are provided in the [Geographical Disease Risk Index](#).

[Position statements on Chikungunya and Dengue](#) are available in the JPAC Document Library.

Information	This entry is compliant with the Blood Safety and Quality Regulations 2005.
Reason for change	This is a new topic



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