



Babesiosis Case Report Form

Patient's name: _____ Date submitted: _____ (mm/dd/yyyy)

Address: _____ City: _____

Clinician's name: _____ Phone no.: _____

NETSS ID No.: (if reported) - -

Case ID Site State

Classify case based on the CDC case definition: Confirmed Probable [specify: (a) (b)i (b)ii] Suspect

Demographic and Clinical Data
 For dates, be as specific as possible. However, approximates [e.g., mm/yyyy] are acceptable.

State of residence: _____ County of residence: _____ Zip code: _____

Sex: Male Female Unknown

Date of birth: _____ (mm/dd/yyyy) Age: _____ years _____ months _____ days

Race (check all that apply): White Black/African American Alaska Native or American Indian Asian Pacific Islander Not specified

Ethnicity: Hispanic/Latino Not Hispanic/Latino Unknown

Was the case-patient symptomatic? Yes No Unk
 If yes, date of onset: _____ (mm/dd/yyyy)

Is the case-patient asplenic? Yes No Unk
 If splenectomy, date of surgery: _____ (mm/dd/yyyy)

Clinical Manifestations

Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unk <input type="checkbox"/>	Fever	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unk <input type="checkbox"/>	Headache	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unk <input type="checkbox"/>	Myalgia
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Anemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Arthralgia
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thrombocytopenia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweats				

Other clinical manifestations (specify): _____

Specify any complications in the clinical course of infection:

Acute respiratory distress Congestive heart failure Renal failure None

Disseminated intravascular coagulation (DIC) Myocardial infarction Other: _____

Was the case-patient hospitalized (at least overnight) for this infection? Yes No Unk
 If yes, number of days: _____

Did the case-patient die? Yes No Unk
 If yes, date of death: _____ (mm/dd/yyyy)

Was the death related to the infection? Yes No Unk

Did the case-patient receive antimicrobial treatment for this infection? Yes No Unk
 If yes, which drugs (select all that apply)? Clindamycin Quinine Atovaquone Azithromycin Other: _____

Epidemiologic Factors

Was the case-patient's infection transfusion associated? Yes No Unk

Was the case-patient a blood donor identified during a transfusion investigation? Yes No Unk

In the eight weeks before symptom onset or diagnosis (use earlier date), did the case-patient:

Engage in outdoor activities? Yes No Unk If yes, which: Camping Hiking Hunting Yard work

Spend time outdoors in or near wooded or brushy areas? Yes No Unk

Notice any tick bites? Yes No Unk When and where (geographic location)? _____

Travel out of? County State Country When and where? _____

Laboratory Testing for Babesia
 Please include available results, especially those relevant to case classification.

Test	Babesia species	Date specimen collected	Titer	Result
IFA - total antibody (Ig)				<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
IFA - IgG				<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
IFA - IgM				<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
Immunoblot			N/A	<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate

Test	Babesia species	Date specimen collected	Result
Blood Smear	N/A		<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
PCR			<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
Other (specify):			<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate
Other (specify):			<input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Indeterminate

Public reporting burden of this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-XXXX).

Case Definition

Confirmed case:

A case that has confirmatory laboratory results and meets at least one of the objective or subjective clinical evidence criteria, regardless of the mode of transmission (can include clinically manifest cases in transfusion recipients or blood donors).

Probable case:

(a) A case that has supportive laboratory results and meets at least one of the objective clinical evidence criteria (subjective criteria alone are not sufficient); or

(b) A case that is in a blood donor or recipient epidemiologically linked to a confirmed or probable babesiosis case (as defined above) and:

- i. has confirmatory laboratory evidence but does not meet any objective or subjective clinical evidence criteria; or
- ii. has supportive laboratory evidence and may or may not meet any subjective clinical evidence criteria but does not meet any objective clinical evidence criteria.

Suspect case:

A case that has confirmatory or supportive laboratory results, but insufficient clinical or epidemiologic information is available for case classification (e.g., only a laboratory report was provided).

Clinical evidence

- Objective: one or more of the following: fever, anemia, or thrombocytopenia.
- Subjective: one or more of the following: chills, sweats, headache, myalgia, or arthralgia.

Epidemiologic evidence for transfusion transmission

Epidemiologic linkage between a transfusion recipient and a blood donor is demonstrated if all of the following criteria are met:

(a) In the transfusion recipient:

- i. Received one or more red blood cell (RBC) or platelet transfusions within one year before the collection date of a specimen with laboratory evidence of *Babesia* infection; and
- ii. At least one of these transfused blood components was donated by the donor described below; and
- iii. Transfusion-associated infection is considered at least as plausible as tick-borne transmission; and

(b) In the blood donor:

- i. Donated at least one of the RBC or platelet components that was transfused into the above recipient; and
- ii. The plausibility that this blood component was the source of infection in the recipient is considered equal to or greater than that of blood from other involved donors. (More than one plausible donor may be linked to the same recipient.)

Laboratory criteria for diagnosis

Laboratory confirmatory:

- Identification of intraerythrocytic *Babesia* organisms by light microscopy in a Giemsa, Wright, or Wright-Giemsa–stained blood smear; or
- Detection of *Babesia microti* DNA in a whole blood specimen by polymerase chain reaction (PCR); or
- Detection of *Babesia* spp. genomic sequences in a whole blood specimen by nucleic acid amplification; or
- Isolation of *Babesia* organisms from a whole blood specimen by animal inoculation.

Laboratory supportive:

- Demonstration of a *Babesia microti* Indirect Fluorescent Antibody (IFA) total immunoglobulin (Ig) or IgG antibody titer of greater than or equal to (\geq) 1:256 (or \geq 1:64 in epidemiologically linked blood donors or recipients); or
- Demonstration of a *Babesia microti* Immunoblot IgG positive result; or
- Demonstration of a *Babesia divergens* IFA total Ig or IgG antibody titer of greater than or equal to (\geq) 1:256; or
- Demonstration of a *Babesia duncani* IFA total Ig or IgG antibody titer of greater than or equal to (\geq) 1:512.

Notes: