Event Name:	HGA					
Event Time Period:	1 year					
Clinical Description (CSTE 2023)	Clinical Criteria: Objective: fever, anemia, leukopenia, thrombocytopenia, hepatic transaminase elevation, or elevated C-reactive protein Subjective: chills/sweats, headache, myalgia, or fatigue/malaise					
CSTE Event Classification (2023):	At least one of the objective or subjective clinical criteria AND one of the following: • Detection of A. phagocytophilum DNA in a clinical specimen via amplification of a specifical polymerase chain reaction (PCR) assay, nucleic acid amplification tests (NAAT), or other testing, OR • Serological evidence of a four-fold change in IgG-specific antibody titer to A. phagocytop antigen by indirect immunofluorescence assay (IFA) in paired serum samples (one taken it two weeks after illness onset and a second taken 2 to 10 weeks after acute specimen collection of Demonstration of anaplasmal antigen in a biopsy or autopsy sample by immunohistochem methods, OR • Isolation of A. phagocytophilum from a clinical specimen in cell culture with molecular conference (e.g., PCR or sequencing) **Tobable** A case with fever AND at least one other objective or subjective clinical criteria (excluding chills/with one of the following: • Serological evidence of elevated IgG antibody reactive with A. phagocytophilum antigen to titer ≥1:128 in a sample taken within 60 days of illness onset, OR • Microscopic identification of intracytoplasmic morulae in leukocytes in a sample taken with days of illness onset. OR A case without fever but with chills/sweats AND • at least one objective clinical criterion OR two other subjective clinical criteria, AND • at least one of the probable laboratory criteria listed above.	molecular chilum in the first ction), OR nical confirmation /sweats) by IFA at a ithin 60				
	Meets confirmatory or presumptive laboratory evidence with no or insufficient clinical information as a confirmed or probable case (e.g., a laboratory report only).	n to classify				
Massachusetts Event Classification (2014):	Follows the CSTE event classification except when determining clinical compatibility, any of the following reported symptoms will be considered subjective evidence of hepatic transaminase elevation when liver function test values are not available: anorexia, nausea, vomiting or abdominal pain.					

HUMAN GRANULOCYTIC ANAPLASMOSIS (continued)

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry		
Laboratory Report		Clinical specimen	Ehrlichia phagocytophila OR Anaplasma phagocytophila	Yes	New event SUSPECT		
		•		No	Same event		
Select:	Microorganism: PrId: Pt: xxx: Nom: Culture						
Laboratory Report	IFA – total or IgG	Clinical specimen	Positive for <i>Anaplasma phagocytophila</i> OR Human granulocytic ehrlichiosis	Yes	New event SUSPECT		
				No	Same event		
Select (total or not IgM/IgG specific):	Human granulocytic ehrlichiosis Ab : Titr : Pt : Ser : Qn : IF						
Select (IgG-specific):	Human granulocytic ehrlichiosis Ab.IgG: Titr: Pt: Ser: Qn: IF						
Labortory Report	IFA IgM Clinic	Clinical Specimen	cal Positive for Anaplasma phagocytophila OR	Yes	Do not create a HGA event if the only positive result is an IgM result.		
				No	Same event		
Select (IgM-specific):	Human granulocytic ehrlichiosis Ab.IgM: Titr: Pt: Ser: Qn: IF						
Laboratory Report			Positive for <i>Anaplasma phagocytophila</i> OR Human granulocytic ehrlichiosis	Yes	New event SUSPECT		
		_		No	Same event		
Select (total or not IgM/IgG specific):	Ehrlichia phagocytophila Ab : ACnc : Pt : Ser : Ord : EIA						
Select (IgG-specific):	Human granulocytic ehrlichiosis IgG: ACnc: Pt: Ser: Ord: EIA						
Laboratory Report	EIA IgM Clinical Specimen	Clinical Specimen	Positive for <i>Anaplasma phagocytophlia</i> OR Human granulocytic ehrlichiosis	Yes	Do not create a HGA event if the only positive result is an IgM result.		
				No	Same event		
Select (IgM-specific):	Human granulocytic ehrlichiosis IgM: ACnc: Pt: Ser: Ord: EIA						
Laboratory Report	PCR	Clinical specimen	Positive for <i>Anaplasma phagocytophila</i> OR Human granulocytic ehrlichiosis	Yes	New event SUSPECT		
			No	Same event			
Select:	Ehrlichia phagocytophila DNA : ACnc : Pt : Bld : Ord : Probe.Amp.Tar						
Laboratory Report	IgG method Clinical Specimen	Positive for <i>Anaplasma phagocytophlia</i> OR Human granulocytic ehrliciosis	Yes	New event SUSPECT			
	specified**			No	Same event		
Select (IgG-specific):	Anaplasma phagocytophilum Ab.IgG : ACnc : Pt ; xxx ; Ord :						

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry	
Laboratory Report	IgM method not specified**	Clinical Specimen	Positive for <i>Anaplasma phagocytophila</i> or human granulocytic ehrlichiosis	Yes	Do not create a HGA event if the only positive result received is an IgM result.	
				No	Same event	
Select (IgM-specific):	Anaplasma phagocytophilum Ab.IgM : ACnc : Pt : xxx : Ord :					

** Data Entry Notes

If an HGA laboratory result is received that includes a smear or stain test type, please bring it to the Epi Liaison. These test types may have results such as "leukocyte **inclusions** consistent with anaplasma", "neutrophilic inclusions consistent with Anaplasmosis", "**morulae** consistent with Anaplasma sp.", etc.

Quest & FOCUS Labs

May not specify the methodology; however, this lab performs IFA antibody testing for HGA.