For use as a visual reference guide only. Please do not return completed form to CDC.



## Free Living Ameba (FLA) Case Report Form

\*=required field

FORM APPROVED OMB NO. 0920-0728

<u> </u>		ogen Type:	Acanthan	noeba	Balamuthia	☐ Naegleria fowle	
1. Demograph	ics						
Patient's Name (	Last, First M.I.):					Age (in )	years):
Sex:  Male Female	Ethnicity:  Hispanic  Non-Hispanic  Unknown	Race:  ☐ White ☐ Black or African ☐ Asian ☐ Native Hawaiian		cific Islander	☐ Mid ☐ Unk		
*County/State of	f Residence:		County/	State of Trea	tment:		
2. Exposure Hi	story						
County/State of	Suspected Exposure:						
Source of possi	ble exposure, if know	vn (please check all th	at apply and	d provide be	st estima	ates of dates):	
Recreational W	later Exposures						
-	e any recreational wa	-		☐ Yes	□No	Unknown	
							Ta
	tional Water Exposure			☐ Yes	□No	Unknown	Date Exposed
Lake, pond, rese	ervoir			☐ Yes		Unknown	
	nuddla			☐ Yes	□No	Unknown	
Canal, ditch, or	-	- £:!!! -!! !\					
-	in temporary venue (ex	K. Tili-and-drain pool)		∐ Yes	□No	Unknown	
Aquatic venue				☐ Yes	□No	Unknown	
	eated water (ex. hot sp	ring)		☐ Yes	□No	Unknown	
Ocean or bracki				☐ Yes	□ No	Unknown	
	nal water exposure			☐ Yes	□No	Unknown	
Specify other i	recreational water exp	osure:					
If aquatic venue	e water exposure occi	urred, please select sp	ecific types	of venues:			
Public swimi	ming pool			☐ Yes	□No	Unknown	
Home swimn	ning pool			☐Yes	□No	Unknown	
Waterpark				☐Yes	□No	Unknown	
Splash pad				☐ Yes	□No	Unknown	
Hot tub/spa				☐ Yes	□No	Unknown	
Recreational W	later Activities						
		tional water activities	s?	☐ Yes	□No	Unknown	
	tional Water Activities						
	e. tubing, skiing, etc.)			☐ Yes	□No	Unknown	
Swimming, divir				☐ Yes	□No	Unknown	
Other water acti				☐ Yes	□No	Unknown	
	water activity:						

Nasal Irrigation						
Did patient perform nasa	al irrigation/rinsing?		Yes	□No	Unknown	
Vhat water source was us	sed for nasal irrigation? (se	elect all that apply)				
☐ Tap water ☐ Sterilize			cify:			
Vas nasal irrigation perfo	rmed for ritual or spiritual a	$\square$ Yes	$\square$ No	$\square$ Unknown		
Date of most recent nas	sal irrigation:					
What method(s) did patie	ent use for nasal irrigation	n?				
Nasal Irrigation Methods						Date Expose
Netipot			☐ Yes	□No	$\square$ Unknown	
Squeeze bottle			Yes	□No	$\square$ Unknown	
Other nasal irrigation met	hod		☐ Yes	□No	Unknown	
Specify:						
Soil Exposures						
Did patient have any soil	exposures?		☐ Yes	□No	Unknown	
Soil Exposures						Date Expose
Gardening			☐ Yes	□No	Unknown	
Composting			Yes	□No	Unknown	
Farm or ranch exposure			☐ Yes	□No	Unknown	
Other soil exposure at and	other location or source		☐ Yes	□No	Unknown	
Specify:						
What is the patient's occu	pation?		☐ Yes	□No	☐ Unknown	-
What is the patient's occu	pation? thin the last 2 years?		☐ Yes	□No	☐ Unknown	Travel To Dat
What is the patient's occu Did the patient travel with f YES, please provide tra	pation?thin the last 2 years? avel locations and dates (	maximum of 3 trave	☐ Yes	□No		Travel To Dat
What is the patient's occu Did the patient travel with f YES, please provide tra	pation?thin the last 2 years? avel locations and dates (	maximum of 3 trave	☐ Yes	□No		Travel To Dat
What is the patient's occu Did the patient travel with f YES, please provide tra	pation?thin the last 2 years? avel locations and dates (	maximum of 3 trave	☐ Yes	□No		Travel To Dat
What is the patient's occu Did the patient travel with f YES, please provide tra	pation?thin the last 2 years? avel locations and dates (	maximum of 3 trave	☐ Yes	□No		Travel To Dat
What is the patient's occur Did the patient travel with f YES, please provide tra Country  B. Past Medical History	pation?thin the last 2 years? avel locations and dates (	City	☐ Yes	□ No	avel From Date	Travel To Dat
What is the patient's occu Did the patient travel wit f YES, please provide tra Country  B. Past Medical History Please check all condition	pation?thin the last 2 years? avel locations and dates (	City	☐ Yes	□ No	avel From Date	Travel To Dat
What is the patient's occu Did the patient travel with If YES, please provide tra Country  B. Past Medical History Please check all condition	pation?thin the last 2 years? avel locations and dates (	City  The contract of 3 travers	☐ Yes el locations):	□ No	avel From Date	Travel To Dat
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all conditional lilicit drug use If YES, specify:	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of 3 travers	☐ Yes el locations):	□ No	avel From Date two (2) years:	
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all conditional lilicit drug use If YES, specify: Immunosuppressants	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of 3 travers	☐ Yes el locations):	□ No	two (2) years:	Yes 🗆 No
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all conditional lilicit drug use If YES, specify:	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of 3 travers	☐ Yes el locations):	□ No	two (2) years:	Yes
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of 3 travers	☐ Yes el locations):	□ No	two (2) years:	Yes
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of 3 travers	☐ Yes el locations):	□ No	two (2) years:	Yes
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS	pation?thin the last 2 years? avel locations and dates ( State  ons/symptoms that patien	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS	pation?thin the last 2 years? avel locations and dates (	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes No Yes No Yes No Yes No Yes No
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS If YES, CD4 count (per reconstraint)	pation?thin the last 2 years? avel locations and dates (	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS If YES, CD4 count (per real transfer in the count of the	pation?thin the last 2 years? avel locations and dates (  State  ons/symptoms that patien  nm3):	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes No
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS If YES, CD4 count (per recommended) Malnourishment Renal failure	pation?thin the last 2 years? avel locations and dates (  State  ons/symptoms that patien  nm3):	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes No
What is the patient's occu Did the patient travel with YES, please provide tra Country  B. Past Medical History Please check all condition Illicit drug use If YES, specify: Immunosuppressants Radiation Therapy Steroid use Alcohol misuse History of HIV or AIDS If YES, CD4 count (per recommendation) Malnourishment Renal failure Systemic Lupus Erythemate	pation?thin the last 2 years? avel locations and dates (  State  ons/symptoms that patien  nm3):	City  The contract of the cont	☐ Yes	□ No	two (2) years:	Yes

Cancer				□ N1 -
If <b>YES</b> , specify:			∐ Yes	□No
Hematologic disease  If <b>YES</b> , specify:	_		□Yes	□No
Other autoimmune disease  If <b>YES</b> , specify:			☐ Yes	□No
Solid organ transplant				
If <b>YES</b> , specify:	_		☐ Yes	□No
Bone marrow or stem cell transplant			☐ Yes	□No
Chronic or Acute Sinusitis			☐ Yes	□No
Other ENT condition  If <b>YES</b> , specify:	_		☐Yes	□No
Other respiratory condition  If <b>YES</b> , specify:			☐Yes	□No
Dermatitis			☐ Yes	□No
Other condition				
If <b>YES</b> , specify:			Yes	□No
. Current Illness and History				
ate of illness onset (MM/DD/YYYY):				
las patient admitted to hospital for current illness?	☐ Yes	$\square$ No	Unknown	
If YES, date of most recent hospitalization (MM/DD/YYYYY):				
If YES, has the patient been hospitalized more than once for this illness in the past 90 days:	☐Yes	□No	Unknown	
lease provide a brief description of the patient's clinical course, prio	r to hospitaliza	ition:		
. Outcome  Patient Outcome:  Died Survived	□ Unknown			
Patient Outcome:  Died Survived  Date of discharge (MM/DD/YYYY):  OR Date of death (Material description)  If survived, does the patient have residual neurologic deficits?		□No	 ☐ Unknown	
Patient Outcome:  Died Survived  Outcome:  OR Date of death (N	MM/DD/YYYY): _ ☐ Yes  respiratory failu			l life suppor
ratient Outcome:  Died Survived  OR Date of death (Note: 1.5)  If survived, does the patient have residual neurologic deficits?  If YES, please describe neurological deficits:  died, cause of death (select all that apply):  Other, specify:	MM/DD/YYYY): _ ☐ Yes  respiratory failu			l life suppor
atient Outcome:  Died Survived  OR Date of death (Note that apply):  Glied, cause of death (select all that apply):  Glied, was the patient an organ donor?  Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived  OR Date of death (Note that apply):  Died Survived	MM/DD/YYYY): _ ☐ Yes  respiratory failu	re 🗆 Her		
ratient Outcome:  Died Survived Pate of discharge (MM/DD/YYYY):  OR Date of death (Main of the survived) does the patient have residual neurologic deficits?  If YES, please describe neurological deficits:  died, cause of death (select all that apply):  Other, specify:  died, was the patient an organ donor?  If YES, please specify which organs were transplanted:	MM/DD/YYYY): _ ☐ Yes  respiratory failu	re □ Her	niation	
ratient Outcome:  Died Survived  OR Date of death (N  If survived, does the patient have residual neurologic deficits?  If YES, please describe neurological deficits:  died, cause of death (select all that apply):  Other, specify:  died, was the patient an organ donor?	MM/DD/YYYY): _ ☐ Yes  respiratory failu	re □ Her	niation	
ratient Outcome:  Died Survived Pate of discharge (MM/DD/YYYY):  OR Date of death (Main of the survived) does the patient have residual neurologic deficits?  If YES, please describe neurological deficits:  died, cause of death (select all that apply):  Other, specify:  died, was the patient an organ donor?  If YES, please specify which organs were transplanted:	MM/DD/YYYY): _ ☐ Yes  respiratory failu	re □ Her	niation	

6. Signs/Symptoms						
General						
Onset date of first general Anorexia Back pain Cough Disorientation or confusion Fever Headache	☐ Lethargy ☐ Myalgia ☐ Nausea	//fatigue or vomiting ss of breath k	☐ Photophobia			urred vision or diplo
Neurologic						
Onset date of first neurolo Abnormal reflexes, including hyperreflexia Altered mental status Altered sense of smell Altered sense of taste Aphasia Ataxia or loss of balance	☐ Beha ☐ Com ☐ Any ☐ Dysp	avioral change		☐ Hemip☐ Numb☐ Nysta☐ Seizur☐ Weakr☐ Other	ness gmus es ness	deficit, specify:
Skin Lesions						
Skin Lesions Present:  If YES, please specify in	table below:	☐ Yes ☐ N	lo 🗌 Unknow	'n		
Lesion Type	Present?	Anatomic locat	ion (select all that a	apply)		Number
Ulcers	☐ Yes ☐ No	☐ Head/face/n☐ Upper extre		/chest/abdomer r extremities	n/pelvis	□ 1 □ 2-5 □ 6-10 □ 10+
Plaques	☐ Yes ☐ No	☐ Head/face/n☐ Upper extre		/chest/abdomer r extremities	n/pelvis	□ 1 □ 2-5 □ 6-10 □ 10+
Erythematous Nodules	☐ Yes ☐ No	☐ Head/face/n☐ Upper extre		/chest/abdomer r extremities	n/pelvis	□ 1 □ 2-5 □ 6-10 □ 10+
Other	☐ Yes ☐ No	☐ Head/face/n☐ Upper extre		/chest/abdomer r extremities	n/pelvis	□ 1 □ 2-5 □ 6-10 □ 10+
7a. CSF Lab Results General CSF Testing: (No		CSF testing res	ults can be ente  Date (MM/D			the SEDRIC platfo
CSF	Re	sults	Resul	lts		Results
Opening pressure (mmH2O)						
WBC count (per mm3)						
RBC count (per mm3)						
Neutrophil %						
Monocyte %						
Lymphocyte %						
Bands %						
Bands % Eosinophil %						

Was diagnostic imag	ging performed?	□Yes	No □ Unknown					
If YES, what imaging was performed? (select all that apply)  □ CT □ MRI □ Other □ Unknown (do not select in combination with CT, MRI, or Other)								
If Other, specify other type of imaging performed:								
Which of the following		present? (select all tha	nt apply)  Hydrocephalus  Other, specify:					
If YES to brain lesi	ions:							
How many brain	lesions?	☐ Single ☐	☐ Multiple ☐ Unknown					
Were brain lesio	ns ring-enhancin		No □ Unknown					
Were brain lesio	ns hemorrhagic?	□Yes	☐ No ☐ Unknown					
Location of brain	n lesions:							
Timing of Diagnos	is							
When was a laborate	ory diagnosis of a	a free-living ameba in	fection made? (MM/DD/YYYY):					
Genotype:			Species:					
7c. Specimen Lab	Results							
Please provide resu Note: If needed, >3 s	Please provide results for all testing performed.  Note: If needed, >3 specimen lab results can be entered into the FLA CRF in the SEDRIC platform.							
Specimen Collecti	on Information							
Laboratory	Result	If Positive, Pathogen	Tissue Type	Test Method				
☐ CDC ☐ Mayo Clinic ☐ UWASH ☐ UCSF ☐ Karius ☐ Other, specify:	☐ Positive ☐ Negative ☐ Unknown	☐ Acanthamoeba ☐ Balamuthia ☐ Naegleria fowleri	☐ CSF ☐ Brain ☐ Skin ☐ Sinus ☐ Bone ☐ Lung ☐ Eye ☐ Serum/Blood ☐ Other, specify:	<ul> <li>□ Polymerase chain reaction (PCR)</li> <li>□ Indirect immunofluorescence (IIF)</li> <li>□ Immunohistochemistry (IHC)</li> <li>□ Visualized amebas on wet mount or stained CSF</li> <li>□ Sequencing based testing (e.g. Karius or metagenomics)</li> <li>□ Histopathology</li> <li>□ Other, specify:</li> </ul>				
☐ CDC ☐ Mayo Clinic	☐ Positive ☐ Negative	☐ Acanthamoeba ☐ Balamuthia	☐ CSF ☐ Brain ☐ Skin ☐ Sinus	☐ Polymerase chain reaction (PCR) ☐ Indirect immunofluorescence (IIF)				
☐ UWASH ☐ UCSF ☐ Karius ☐ Other, specify:	Unknown	□ Naegleria fowler	Bone Lung Eye Serum/Blood Other, specify:	☐ Immunohistochemistry (IHC) ☐ Visualized amebas on wet mount or stained CSF ☐ Sequencing based testing (e.g. Karius or metagenomics) ☐ Histopathology ☐ Other, specify:				

7d. Case Attachments						
If available, please upload relevant file category below:	s to the CRF	in the SEDR	IC platform. For eac	ch file, please select the appropriate		
☐ Image report ☐ Publishe ☐ Environmental report ☐ Other, s	ed case report pecify:	t/scientific art	icle			
8a. Treatment						
Was Surgical resection performed?	☐ Ye	es 🗆 No	Unknown			
8b. Medications						
Medications: (please check all that ap	pply; enter all	dates as MN	//DD/YYYY)			
Medication	Start Date	End Date	Route of Administ	ration (select all that apply)		
☐ Amphotericin B (conventional/deoxycholate)			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Amphotericin B (lipid complex)			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Amphotericin B (liposomal)			☐ Intravenous (IV)☐ Intrathecal☐	☐ Oral ☐ Other:		
☐ Azithromycin			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Clarithromycin			☐ Intravenous (IV)☐ Intrathecal☐	☐ Oral ☐ Other:		
☐ Fluconazole			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Flucytosine			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Itraconazole			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Miltefosine			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
□ Nitroxoline			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Pentamidine			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
Rifampin			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Steroids			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Sulfadiazine			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Sulfamethoxazole/Trimethoprim			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
□ Voriconazole			☐ Intravenous (IV)☐ Intrathecal	☐ Oral ☐ Other:		
☐ Other antimicrobial drug used to treat FLA infection:			☐ Intravenous (IV) ☐ Intrathecal	☐ Oral ☐ Other:		
Other antimicrobial drug used to treat FLA infection:			☐ Intravenous (IV) ☐ Intrathecal	☐ Oral ☐ Other:		
Other antimicrobial drug used to treat FLA infection:			☐ Intravenous (IV) ☐ Intrathecal	☐ Oral ☐ Other:		
Note: If needed. >3 other antimicrobial drugs		:	DE :- the CEDDIClett			