

Texas Department of State Health Services

VPD Potpourri

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Lab 101

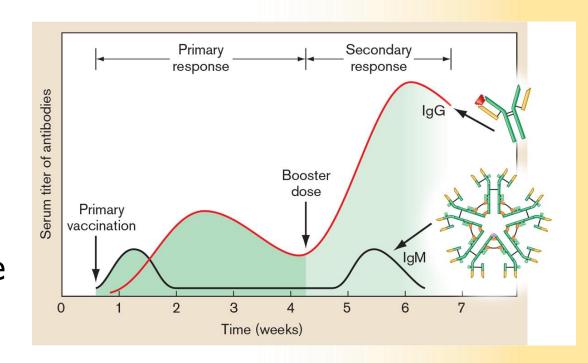
- Antibody soluble proteins produced by B cell, they interact with specific antigens
- Antigen a molecule capable of interacting with components of the immune systems (antibodies or immune cells)
- Five kinds of antibodies
 - o IgG, IgM, IgA, IgD, IgE



IgM-IgG Humoral Response

1. IgM

- a. produced as a first response to many antigens
- b. levels remain high transiently
- 2. IgG
 - a. produced after IgM
 - b. higher levels persist in small amounts throughout life
 - c. produced in large amounts during secondary response



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Health and Human Services
Texas Department of State

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Common Lab Tests

- 1. Serology tests (IgM, IgG, IgA testing)
 - a. Uses serum from blood or CSF
 - b. Can take longer to receive results
 - c. Tests do not always accurately show an active infection
 - d. Measures the level of antibodies your body has mounted during an immune response

2. PCR

- a. Amplifies small amounts of RNA or DNA from a specimen and then compares the sample to unique sequences of known pathogens to see if there is a match
- b. Does not look at the immune response to a pathogen
- c. Quick and cheap

3. Culture

- a. Direct viral or bacterial isolation grown in a medium
- b. Usually considered the gold standard for lab tests
- c. Can be difficult to isolate and grow depending on the pathogen (i.e. pertussis)



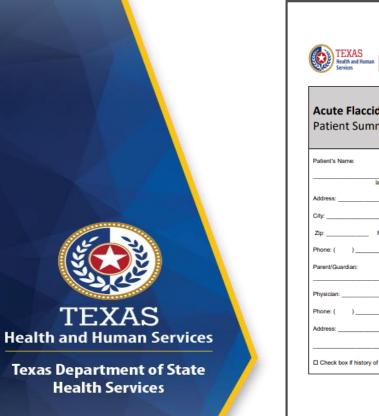
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AFM Reporting Steps

- 1. Call the VPD Team
- Patient Summary Form (3 pages) → Fax or email to VPD Team
- 3. Medical Records → Fax or email to VPD Team
- 4. MRI images on CD → Mail to the CDC
- 5. Specimens submitted to DSHS
- 6. Wait for case determination from CDC



Acute Flaccid Myelitis (AFM) Patient Summary Form



10/25/2018

TEXAS Realth and Human Services Texas Department of State Health Services Acute Flaccid Myelitis	P.O. Box 1493 Phone: (512) 776-7676 AFMTexas@d CASE STATUS: CONFIRMED PROBABLE RULED OUT/NOT A	PRI LOCAL USE ONLY Name of person completing form: State of Affiliation Name of physician who can provide additional clinical/lab information, if needed Affiliation Name of main hospital that provided patient's care: ———————————————————————————————————	te assi mail: _ _ Ema
Patient Summary Form Patient's Name:	UNDER CDC REVIEW	Please send the following information along with the patient summary form (check History and physical (H&P) MRI report MRI images Neurology const Infectious disease consult notes (if available) Vaccination record Diagnos	ult no stic lo
	rst	1. Today's date/	
Address: County: City: Region: Phone: ()		Native Hawaiian or Other Pacific Islander	of for
Parent/Guardian:		A 15. Weakness? [indicate yes(y), no (n), unknown (u) for each limb] Y N U	\exists
Physician:	F	F 15a. Tone in affected limb(s) [flaccid, spastic, normal for each limb] spastic normal	
Phone: ()		16. Was patient admitted to ICU?	Unk
□ Check box if history of homelessness in last 6 mo	onths C	18. Have a respiratory illness? 20. Have a gastrointestinal illness (e.g., diarrhea or vomiting)? 22. Have a fever, measured by parent or provider 238.0°C/100.4°F? 24. Travel outside the US?	\exists
		26. At onset of limb weakness, does patient have any underlying illnesses? Other patient information:	7
		28. Was MRI of spinal cord performed? yes no unknown 29. If yes, date of the spinal cord performed? yes no unknown 31. If yes, date of the spinal cord performed? yes no unknown 31. If yes, date of the spinal cord performed? yes no unknown yes no unknown yes yes	
		If yes, complete 32 (a,b) (if more than 2 CSF examinations, list the first 2 performed) Date of lumbar puncture WBC/mm³ (% % meutrophils hymphocytes monocy) 32a. CSF from LP1 32b. CSF from LP2	rtes
TEXAS DEPARTMENT OF STATE HEALTH SERVICES EMERGING AND ACUTE INFECTIOUS DISEASE BRANCH		Public reporting burder of this collection of information is estimated to average 20 minutes per response, including the 1 gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may collection of information unless in diaplays a corrective yaid DMG accorded number. Sending this burder is suggestions for reducing this burder to CDC/ATSCR Reports Clearence Officer; 3500 Ciffon Road NE, MS 0-74 Atlanta, Grape 2 of 3	not cor

	1929
Acute Flaccid Myelitis Outcome – 60-day follow-up (completed at least 60 days after onset of limb weakne	ss)
33. Date of 60-day follow-up:// (mm/dd/yyyy)	
34. Sites of Paralysis: ☐ Spinal ☐ Bulbar ☐ Spino-bulbar 35. Specific sites:	
36. 60-day residual: None Minor (any minor involvement) Significant (s2 extremities, major involvement) Severe (23 extremities and respiratory involvement) Death Unknown	
37. Date of death:// (mm/dd/yyyy)	
Acute Flaccid Myelitis case definition	
(http://c.ymcdn.com/sites/www.cste.org/resource/resmgr/2017PS/2017PSFin al/17-ID-01.pdf)	
Clinical Criteria	
An illness with onset of acute flaccid limb weakness	
Laboratory Criteria	
 Confirmatory Laboratory Evidence: a magnetic resonance image (MRI) showing spinal cord lesion largely restrict matter*† and spanning one or more vertebral segments 	cted to gray
 Supportive Laboratory Evidence: cerebrospinal fluid (CSF) with pleocytosis (white blood cell count >5 cells/mm 	3)

Case Classification Confirmed:

Confirmed:

- Clinically compatible case AND
- Confirmatory laboratory evidence: MRI showing spinal cord lesion largely restricted to gray matter*† and spanning one or more spinal segments

Probable:

- Clinically compatible case AND
- Supportive laboratory evidence: CSF showing pleocytosis (white blood cell count >5 cells/mm³).

* Spinal card lesions may not be present on initial MRI; a negative or normal MRI performed within the first 72 hours after anset of limb weakness does not rule out AFM. MRI studies performed 72 hours or more after onset should also be reviewed if available.
* Terms in the spinal card MRI report such as "affecting mostly ray matter," "Offecting the anterior horn or anterior horn cells," "affecting the

central cord," "anterior myelitis," or "poliomyelitis" would all be consistent with this terminology.

To provide consistency in case classification, review of case information and assignment of final case classification for all suspected AFM cases will be done by experts in national AFM surveillance. This is similar to the review required for final classification of paralytic polio cases.

Acute Flaccid Myelitis specimen collection information (https://www.cdc.gov/acute-flaccid-myelitis/hcp/instructions.html)

Acute Flaccid Myelitis job aid

(https://www.cdc.gov/acute-flaccid-myelitis/downloads/job-aid-for-clinicians.pdf)

Public reporting burden of this collection of information is estimated to average 2D minutes per response, including the time for reviewing instructions, searching existing data sources, pathwing and ministrating the data reviewed, and completing and reviewing the Collection of information. An agency way not conduct or exponse a parent is not required to respond to a collection of information unless it displays a currently valid OME control number. Send comments regarding this burden estimate or any other aspect of this collection of information unless and parent in the collection of information unless and pare

Version 5.0 September 13, 2017





Texas Department of State Health Services P.O. Box 149347, MC 1960 Austin, Texas 78714 Phone: (512) 776-7676 Fax: (512) 776-7616 AFMTexas@dshs.texas.gov

Infectious Disease Control Unit, Texas Department of State Health Services

	CASE STATUS:		NBS PATIENT ID#:	
Acute Flaccid Myelitis Patient Summary Form	☐ CONFIRMED ☐ PROBABLE ☐ RULED OUT/NOT A CASE ☐ UNDER CDC REVIEW		NBS CASE INVESTIGATION ID#:	
Patient's Name:		Reported by:		
Address: County:		Agency: Phone: () Date reported:// Investigated by: Agency:		
Physician: Phone: () Address:		Phone: () Email: Investigation start date://		
☐ Check box if history of homelessness in last 6 mo	nths	Date investigation completed://		

The CDC determines case status

You fill out this part

10/25/2018



Health Services

Patient Summary Form - Page 2

FOR LOCAL USE ON	LY										
Name of person comple	ting form:						State ass	gned patient ID:			
Affiliation			Phone:				_Email:				
Name of physician who	can provide additio	onal clinical/lab	information, if no	eded							
Affiliation			Phone:				Ema	#:			
Name of main hospital t	hat provided patie	nt's care:						State: Co	unty:		
	D	ETACH and tran	smit only lower	portion to	limbwee	kness@	cdc.gov.)	sending to CDC			
		Acute F	laccid My	elitis:	Patie	nt S	umma	ary Form		For OMB No Exp Date:	m Approve 0920-000 06/30/201
Please send the fol ☐ History and phys ☐ Infectious diseas	ical (H&P)	MRI report	☐ MRI imag	ges 🗆	Neurol	ogy co	nsult no	tes	eport (if don	e)	
1. Today's date/										-	
3. Sex: □ M □ F 4										_	
7. Race: □American	Indian or Alaska waiian or Other							I. Ethnicity: Hi	spanic or Latir Hispanic or Lat		
9. Date of onset of lin					- chut c	μμη		LINOT	napariic or Lai		
10. Was patient admi					Note of	admicei	on to fi	et bornital /	,		
12.Date of discharge									/		
13. Did the patient die											
		з. шусэ	ano Lanknov	24.	ii yes,	aute of	ucuti		_		
SIGNS/SYMPTOMS	CONDITION:					Right A	rm	Left Arm	Right Le		eft Leg
15. Weakness? [ind	icate vec(v) no /	al unknown (u) for each limi	MI.		N		Y N U	Y N		N L
23. Weakiness: [ind	cote yes(y), no (ng, unknown (u, joi cocii iiiii	41		laccid	•	□ flaccid	☐ flaccid		accid
15a. Tone in aff	ected limb(s) (fl	accid snastic	normal for eac	h limb]		☐ spastic		☐ spastic	☐ spastic		pastic
		, ,,	,	,		normal unknow		□ normal □ unknown	□ normal □ unknown		ormal nknown
					Yes	No	Unk	LI UIKIOWII	LI UIKIIOWI	1 100	IKIIOWII
16. Was patient adn	sitted to ICU2				103	140	Unik	17. If yes, admi	t date:	, ,	
In the 4-weeks BEFC		h waalaasa d	Ed nations.		Yes	No	Unk	17. ii yes, auiii	t date		
18. Have a respirato		o weakness, o	nu patient:		res	IVO	Unk	19. If yes, onse	t data	, ,	
20. Have a gastroint		g., diarrhea o	r vomiting)?					21. If yes, onse		'/	
22. Have a fever, me				F?				23. If yes, onser		//_	
24. Travel outside th	ne US?							25. If yes, list or	ountry:		
26. At onset of limb illnesses?	weakness, does	patient have a	any underlying					27. If yes, list:			
Other patient inform 28. Was MRI of spinal 30. Was MRI of brain CSF examination: 32.	cord performed performed? Was a lumbar p	☐ yes	□no □unk	nown	31. If	yes, da known	te of spi te of bra	ne MRI:/_ in MRI:/_	<u> </u>		
If yes, complete 32 (a	b) (If more than	2 CSF examin	ations, list the f	irst 2 perf	(ormed						
	Date of										
	lumbar puncture	WBC/mm³	% neutrophils	% lympho	cytes	% mon	ocytes	% eosinophils	RBC/mm ³	Glucose mg/dl	Protei mg/dl
			-	+		+			-		

Neurologist/Physician fills in this information

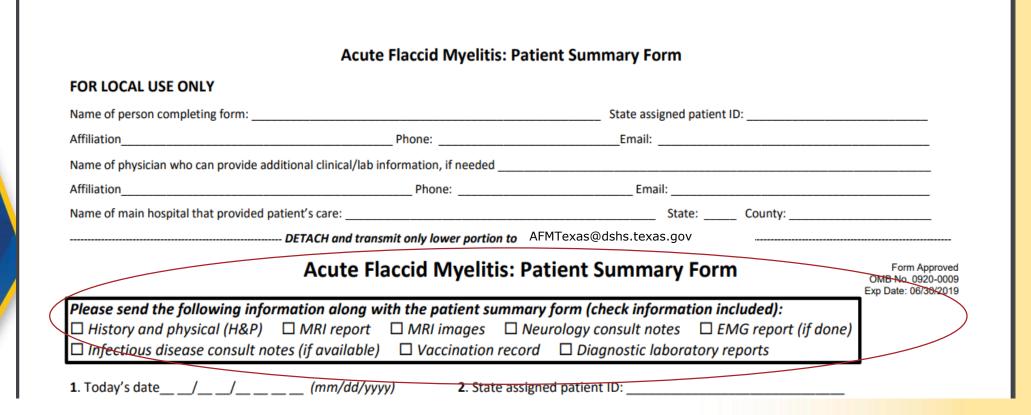
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Patient Summary Form - Page 2

Please make sure physician name and contact information is legible so you can reach out after case determination is made.





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Patient Summary Form - Page 3

	34. Sites of Paralysis: ☐ Spinal ☐ Bulbar ☐ Spi
	36. 60-day residual: ☐ None ☐ Minor (any min ☐ Severe (≥3 extremities and
	37. Date of death:/ (<i>mm/d</i>
	Acute Flaccid Myelitis case definition (http://c.ymcdn.com/sites/www.cste.org/
TEXAS Health and Human Services	Clinical Criteria An illness with onset of acute flaccid limb wea
Texas Department of State Health Services	 Laboratory Criteria Confirmatory Laboratory Evidence: a

Acute Flaccid My	elitis Out	come – 60	0-day follow-up	(completed at least (60 days after onset of limb weakness)	
3. Date of 60-day fol	low-up:		(mm/dd/	<i>(yyyy)</i>		
34. Sites of Paralysis:	☐ Spinal	☐ Bulbar	☐ Spino-bulbar	35. Specific sites:		
36. 60-day residual:		4.5	•	ent) □ Significant (≤2 exinvolvement) □ Death	extremities, major involvement) ☐ Unknown	
37. Date of death:			(mm/dd/yyyy)			

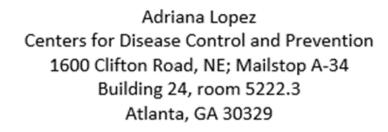
/resource/resmgr/2017PS/2017PSFin al/17-ID-01.pdf)

kness

- Confirmatory Laboratory Evidence: a magnetic resonance image (MRI) showing spinal cord lesion largely restricted to gray matter*† and spanning one or more vertebral segments
- Supportive Laboratory Evidence: cerebrospinal fluid (CSF) with pleocytosis (white blood cell count >5 cells/mm³)

Case Classification Confirmed:

Send MRI CD here:



Send all MRIs performed at the hospital during their hospitalization(s) for AFM, not just one MRI.



AFM Specimens

Job Aid for Clinicians | How to send information about a suspected AFM case to the health department

Specimens to collect and send to CDC for testing for suspected AFM cases

SAMPLE	AMOUNT	TUBE TYPE	PROCESSING	STORAGE	SHIPPING
CSF	1mL (collect at same time or within 24hrs of serum)	Cryovial	Spun and CSF removed to cryovial	Freeze at -20°C	Ship on dry ice
Serum	≥0.4mL (collect at same time or within 24 hours of CSF)	Tiger/red top	Spun and serum removed to tiger/red top.	Freeze at -20°C	Ship on dry ice
Stool	≥1 gram (2 samples collected 24hrs apart)	Sterile container	n/a	Freeze at -20°C	Ship on dry ice. Rectal swabs should not be sent in place of stool.
Respiratory (NP)/ Oropharyngeal (OP) swab	1ml (minimum amount)	n/a	Store in viral transport medium	Freeze at -20°C	Ship on dry ice



Texas Department of State
Health Services

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	Department of
	State Health Services
Specimen A	caujeition: (512) 776-7598

G-2V Virology Specimen Submission Form (Sept 2017)
CAP# 3024401 CLIA #45D0660644
Laboratory Services Section, MC-1947
P. O. Box 149347, Austin, Texas 78714-9347
Courier: 1100 W. 49th Street, Austin, Texas 78756
(888) 963-7111 x7318 or (512) 776-7318
http://www.dshs.texas.gov/lab

L	Medicaid, Medicare, private insurance, or DSHS Program.
Γ	Medicaid (2) Medicare (8)
	Medicaid/Medicare #:
	Submitter (3) Private Insurance (4)
1	☐ BIDS (1720) ☐ TB Elimination (1619)
]	BT Grant (1719) Title X (12)
	☐ HIV / STD (1608) ☐ Title XX (13)
]	X IDEAS (1610) TX CLPPP (9)
	Immunizations (1809) Zoonosis (1820)
	Other:
Г	HMO / Managed Care / Insurance Company Name *
Absesse	Section 3. SPECIMEN SOURCE OR TYPE
X Blood	(site) Nasopharyngeal: □wash □swab □aspirate Nasal Swab
☐ Bone ma	
	I washings
☐ Buccal sv	
CSF	Serum: Urine
☐ Eye	Acute date:// Vaginal
Feces/sto	
Lesion (s	
Lymph no	
Clook	Section 4. VIROLOGY
Electi	ron Microscopy
□ Influe	enza surveillance {Influenza real-time RT-PCR}
_	cine received: Yes No
	vaccine received:
Trave	el history (if known):
	Y
☐ Meas	sles, real-time RT-PCR
□ Mum	no seel time DT DCD
□ Mum	ps, real-time RT-PCR
☐ MERS	S Coronavirus (Novel coronavirus)
	Prior authorization required. ++++
Call	Infectious Disease (512) 776-7676 for authorization
X Other	Enterovirus (AFM testing)
MOTEO IT	lates must be entered in mm/dd/yyyy format.

FOR LABORATORY USE ONLY

REMINDER:

If submitting specimens, you must have a G-2V form per specimen.

If you have 3 stool specimens, you must have 3 separate G-2V forms.



AFM Case Determinations



- 1) NTX0070 Classified as not a case the patient did not have MRI abnormalities (lesions in gray matter) or pleocytosis so not considered AFM.
- NTX0071 Classified as a confirmed case of AFM
- NTX0072 Classified as a confirmed case of AFM



Texas Department of State
Health Services

Streptococcus pneumoniae State Plan

House Bill 970

- State plan for prevention and treatment of diseases caused by Streptococcus pneumoniae
- Education and prevention strategies to increase awareness, knowledge, and understanding of S. pneumoniae



Streptococcus pneumoniae State Plan

Targeted demographic groups:

- Elderly,
- Children under 2 years of age,
- Persons living in long term care facilities,
- Persons with chronic heart or lung disease,
- Smokers, and
- Persons with asplenia.





How are you affected?

- NBS required fields changes
- Updated case track requirements
- Educational trainings to enhance data collected



VPD Administrative Updates

- New Varicella reporting form
- Updated webpages and investigation forms

