

Multiple Sclerosis Suspect Progressive Multifocal Leukoencephalopathy Data **Collection Tool**

(Governed by DEV-SOP-836)

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				<u>Biog</u>	gen Unique Ca	se ID#:
I.	Patient Informa	tion				
	Patient Initials	: DC	DB: (DD/MN	MM/YYYY) Gende	er:	
	Height:	Weight:	BMI:			
II.	Primary Neurol	ogist:				
	Name:		Emai	l:		
	Address:	_				
	Phone:		Fax:			
III.	Treating Physici	ian (if different fro	om primary neur	ologist):		
	Name:		Emai	l:		
	Address:	_				
	Phone:		Fax:			
IV.	Primary Suspec	t Product				
S	elect the product you	u believe to be the P	rimary Suspect Pi	oduct:		
	Tysabri	Avonex	☐ Tecfidera	☐ Vume	erity	
	☐ Fampyra/Ampyra	☐ Plegridy	Other:			
1	s this patient receivi	ng Tysabri at an ex	tended interval do	sing (e.g. > 4 weeks	s)?	
	Yes No)				
P	rovide additional de	tails on the dosing a	and frequency of the	he Primary Suspec	t Product, incl	uding
iı	nformation on the us	e of multiple regime	ens:			
	Start Date DD/MMM/YYYY)	Stop Date (DD/MMM/YYYY)	Dose	Frequency of Dosing	Number of Infusions (Tysabri)	Lot/ Batch #
In	n your assessment, is ☐ <i>Yes</i> ☐ <i>No</i>	the suspected PML	related to the Pri	mary Suspect Proc	luct?	



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					<u>D103</u>	gen Unique Ca	se ID#.
V	. Secondary Susp	pect Product	t (if applic	cable)			
	Select the product ye	ou believe to l	be the Seco	ondary Suspect P	roduct:		
	Tysabri	Avonex		☐ Tecfidera	Vum	erity	
	☐ Fampyra/Ampyra	☐ Plegrid	y	Other:			
	Provide additional d	etails on the	dosing and	frequency of the	e Secondary Susp	ect Product, in	cluding
	information on the u	se of multiple	e regimens	:			
	Start Date (DD/MMM/YYYY)	Stop Da (DD/MMM/Y		Dose	Route	Frequency	Lot/ Batch #
VI	1) MS diagn	n of Biogen so No Sis History osis date:	If yes, s	duct, is the patie	nt being treated v		Yes □ No MS
	Medication	Dose	Route	e Frequenc	Start Da (DD/MMM/Y		Stop Date MMM/YYYY)
					(======================================		
Ŀ				munosuppressan	it therapy, radiat	ion therapy, an	
	If yes, lis	t the drug and	include the	e indication:			



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Biogen Unique Case ID#: 4) Is this patient immunocompromised from any other cause? ☐ Yes ☐ No If yes, provide diagnosis: If yes, specify the trial name/number: Provide the patient's study ID: VII. **PML Suspicion** 1) Indicate the reason(s) the patient is being evaluated for PML: Patient presented with clinical signs and symptoms? Yes No (Asymptomatic) Patient presented with radiological findings consistent with PML? Yes Reason for MRI: (Check all that apply) MS standard of care PML surveillance Patient request Other: 2) List earliest presenting signs and symptoms that led to the evaluation for possible PML (even if identified in retrospect): Date **Symptoms** (DD/MMM/YYYY) 3) Provide copies of MRI reports. If not possible, provide detailed MRI results including lesion characteristics and location. a. MRI at the time of the suspected PML diagnosis: Date of MRI: ____ (DD/MMM/YYYY) **Detailed description:**



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Biogen Unique Case ID#: b. MRI prior to suspected PML diagnosis Date of MRI: ____ (DD/MMM/YYYY) **Detailed description:** (Provide a CD of MRI DICOM images or direct upload to Biogen systems)^{1,2} 4) Provide copies of CSF JCV DNA reports, if not possible provide details of lumbar puncture (LP) and CSF sample collection (provide all tests, even if multiple assays are performed on a single puncture): Test 1 Test 2 Test 3 Date of LP (DD/MMM/YYYY) LP performed ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Pre-PLEX (if applicable) Positive Negative Positive Negative ☐ Positive ☐ Negative CSF JCV DNA Inconclusive/ ☐ Inconclusive/ ☐ Inconclusive/ Result Indeterminate Indeterminate Indeterminate **Quantitative** (copies/mL) **Laboratory Name** and Limit of Detection 5) Has a CSF analysis been performed? (cell count, protein, glucose, albumin, various viral PCR testing, etc.)

Date of Test: ____ (DD/MMM/YYYY)

Yes No

Provide cell count:



6) Provide details of <u>all</u> serum anti-JCV antibody testing:

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Not Performed [

(Provide copies of the anti-JCV antibody test results)								
Date of Test: (DD/MMM/YYYY)	Result of Test: (positive, negative pending)		x Value iilable:	Index Va	ilue:	Laboratory Name:		
	☐ Positive ☐ Negative ☐ Pending	☐ Yes	s 🗌 No			Focus/Quest Unilabs Other		
	☐ Positive ☐ Negative ☐ Pending	☐ Yes	s 🗌 No			☐ Focus/Quest ☐ Unilabs ☐ Other		
	Positive Negative Pending	Yes	s 🗌 No			☐ Focus/Quest ☐ Unilabs ☐ Other		
	Positive Negative Pending	Yes	s 🗌 No			☐ Focus/Quest ☐ Unilabs ☐ Other		
7) Was a brain biopsy performed?								
Date of (If yes, 8) HIV st	f Test: (DD/M , provide a copy of the tatus: Positive f Test: (DD/M atient lymphopenic	MM/YYYY e brain bio Nega MM/YYYY within 12 1	Y) ppsy report. ative \[\begin{aligned} \text{Y} \\ \text{Y} \end{aligned} months pri) Unknown ior to PML	suspici	ion?		
Date of (If yes, 8) HIV st	f Test: (DD/M , provide a copy of the tatus: Positive f Test: (DD/M atient lymphopenic Lym	MM/YYY e brain bio Nega MM/YYY within 12 i	Y) opsy report. ntive \[\begin{array}{c} 1 \\ 1 \\ Y \end{array}) Unknown ior to PML	Lymp	ion?		
Date of (If yes, 8) HIV st Date of 9) Was p	f Test: (DD/M , provide a copy of the tatus: Positive f Test: (DD/M atient lymphopenic Lym	MM/YYY e brain bio Nega MM/YYY within 12 i	Y) ppsy report. ative \[\begin{array}{c} \text{Y} \\ \text{months price} \end{array}) Unknown ior to PML	Lymp	hocyte Subset Analysis:		
Date of (If yes, 8) HIV st Date of 9) Was p	f Test: (DD/M , provide a copy of the tatus: Positive f Test: (DD/M atient lymphopenic Lym	MM/YYY e brain bio Nega MM/YYY within 12 i	Y) ppsy report. ative \[\begin{array}{c} \text{Y} \\ \text{months price} \end{array}) Unknown ior to PML	Lymp	hocyte Subset Analysis: , CD8, CD4/CD8 ratio, etc.)		
Date of (If yes, 8) HIV st Date of 9) Was p	f Test: (DD/M , provide a copy of the tatus: Positive f Test: (DD/M atient lymphopenic Lym	MM/YYY e brain bio Nega MM/YYY within 12 i	Y) ppsy report. ative \[\begin{array}{c} \text{Y} \\ \text{months price} \end{array}) Unknown ior to PML	Lymp	hocyte Subset Analysis: , CD8, CD4/CD8 ratio, etc.) Not Performed		



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Biogen Unique Case ID#: VIII. **Current Treatment** 1) Has the patient received steroids within the past 3 months? Yes Stop Date (DD/MMM/YYYY) Reason for Start date Drug Dose **Route** Frequency (DD/MMM/YYYY) steroids 2) PML Treatment: (check all that apply) **Stop Date** Start date Medication Route Dose Frequency (DD/MMM/YYYY) (DD/MMM/YYYY) ☐ Mefloquine ☐ Cidofovir Mirtazapine Other:

Other:



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Plasma	Exchange (PLEX):	☐ Yes ☐ No	Imm	nunoadsorption (IA):	Yes	□N
Session	Date (DD/MMM/YYYY))	Volume			
1						
2						
3						
4						
5						
	c's current location: (_	box)	□ Nursing Home		
Patient Hos	c's current location: (☐ Home ☐ Hospice	box)	☐ Nursing Home ☐ Rehabilitation Fac	eility	
Patient Hos N/A	e's current location: (spital spital spital Unit	☐ Home ☐ Hospice		_	eility	
Patient Hos N/A	ent is deceased, provi	☐ Home ☐ Hospice		_	cility	
Patient Hos Inte N/A If patie	ent is deceased, provi	☐ Home ☐ Hospice de the following inf		_	cility	
Patient Hos Inte N/A If patie Date of	er's current location: (spital nsive Care Unit (Patient is deceased) ent is deceased, provi	Home Hospice de the following inf	ormation:	_	·	



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Biogen Unique Case ID#:

Χ.	Functional Scores
	Provide the patient's functional status scores

	Modified Rankin Score					
0	No Symptoms					
1	No significant disability. Able to carry out all usual activities, despite some symptoms.					
2	Slight disability. Able to look after own affairs without assistance, but unable to carry out all previous activities.					
3	Moderate disability. Requires some help, but able to walk unassisted.					
4	Moderate severe disability. Unable to attend to own bodily needs without assistance, and unable to walk unassisted.					
5	Severe disability. Requires constant nursing care and attention, bedridden, incontinent.					
6	Dead					



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Biogen Case ID#:

Ka	arnofs	ky Performance Status Scale Definitions/Criteria	
Able to carry on normal	100	Normal no complaints; no evidence of disease.	
activity and to work; no	90	Able to carry on normal activity; minor signs or symptoms of disease.	
special care needed.	80	Normal activity with effort; some signs or symptoms of disease.	
Unable to work; able to	70	Cares for self; unable to carry on normal activity or to do active work.	
live at home and care for most personal needs;	60	Requires occasional assistance but is able to care for most personal needs.	
varying amount of assistance needed.	50	Requires considerable assistance and frequent medical care.	
	40	Disabled; requires special care and assistance.	
Unable to care for self; requires equivalent of	30	Severely disabled; hospital admission is indicated although death not imminent.	
institutional or hospital care; disease may be progressing rapidly.	20	Very sick; hospital admission necessary; active supportive treatment necessary.	
progressing rapidity.	10	Moribund; fatal processes progressing rapidly.	
	0	Dead	

XI. Rule Out PML

1)	Based on your evaluation, was PML ruled out?
2)	If PML was ruled out, provide the final diagnosis (if available):
3)	Was the final diagnosis related to the Primary Suspect Product?
	a. Was the final diagnosis related to the Secondary Suspect Product? (if applicable)
	b. Provide the outcome for the final diagnosis:
	☐ Fatal ☐ Recovered ☐ Recovered with sequelae ☐ Not recovered ☐ Unknown
4)	What MS therapy is planned or is the patient currently on?
Print name	/title:
Signature:	Date:DD/MMM/YYYY
(When signi	ng electronically, check "Lock Document After Signing" in the Sign Document window).



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¹ Additionally include copies of the radiology reports for 6 months prior to PML suspicion, if available.

² Mail the CD to: AESI Coordinator | 300 Binney Street | Cambridge, MA 02142 or your local Biogen representative. Biogen will incur the shipment cost of the CD. Alternatively, for faster MRI transfer, email <u>AESI.coordinator@Biogen.com</u> for instructions on uploading MRI images directly to Biogen's online platform.



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I.	Patient Demographics							
	Patient Initials: DOB: (DD/MMM/YYYY)							
II.	Is the Patient alive?							
	If <u>yes</u> , provide the patient's current location (check appropriate box):							
	☐ Hospital ☐ Home ☐ Nursing Home							
	☐ Intensive Care Unit ☐ Hospice ☐ Rehabilitation Facility							
	If <u>no</u> , provide the following information:							
	Date of Death: (DD/MMM/YYYY)							
	Reported Cause of Death:							
	Was an autopsy performed?							
III.	In your assessment, was the patient's death related to one of the following products? Yes No							
	☐ Tysabri ☐ Tecfidera ☐ Vumerity							
	☐ Fampyra/Ampyra ☐ Plegridy ☐ Avonex							
IV.	Functional status post-PML diagnosis: (see tables below)							
	EDSS: Date: (DD/MMM/YYYY)							
	Karnofsky score: Date:(DD/MMM/YYYY)							
	Modified Rankin Score: Date: (DD/MMM/YYYY)							



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	Modified Rankin Score
0	No Symptoms
1	No significant disability. Able to carry out all usual activities, despite some symptoms.
2	Slight disability. Able to look after own affairs without assistance, but unable to carry out all previous activities.
3	Moderate disability. Requires some help, but able to walk unassisted.
4	Moderate severe disability. Unable to attend to own bodily needs without assistance, and unable to walk unassisted.
5	Severe disability. Requires constant nursing care and attention, bedridden, incontinent.
6	Dead

Ka	rnofs	ky Performance Status Scale Definitions/Criteria
Able to carry on normal	100	Normal no complaints; no evidence of disease.
activity and to work; no	90	Able to carry on normal activity; minor signs or symptoms of disease.
special care needed.	80	Normal activity with effort; some signs or symptoms of disease.
Unable to work; able to	70	Cares for self; unable to carry on normal activity or to do active work.
live at home and care for	60	Requires occasional assistance but is able to care for most personal needs.
most personal needs; varying amount of assistance needed.	50	Requires considerable assistance and frequent medical care.
	40	Disabled; requires special care and assistance.
Unable to care for self; requires equivalent of	30	Severely disabled; hospital admission is indicated although death not Imminent.
institutional or hospital care; disease may be progressing rapidly.	20	Very sick; hospital admission necessary; active supportive treatment necessary.
progressing rapidity.	10	Moribund; fatal processes progressing rapidly.
	0	Dead



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V. Test results p	oost-PML diagnosis: (pro	ovide a copy of test results)								
Provide copies	Provide copies of MRI reports, including most recent MRI report, and a CD with the MRI									
images, if not	images, if not already provided. ^{1,2} If not possible, provide detailed MRI results including lesion									
characteristics	characteristics and location:									
Date of MRI:_	Date of MRI: (DD/MMM/YYYY)									
Detailed descri	ption:									
-	-	s. If not possible, provide de ests, even if multiple assays	tails of lumbar puncture (LP) are performed on a single							
	Test 1	Test 2	Test 3							
Date of LP (DD/MMM/YYYY)	Test 1	Test 2	Test 3							
	Test 1	Test 2	Test 3							
(DD/MMM/YYYY) LP performed Pre-PLEX (if										
(DD/MMM/YYYY) LP performed Pre-PLEX (if applicable) CSF JCV DNA Result Quantitative	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/							
(DD/MMM/YYYY) LP performed Pre-PLEX (if applicable) CSF JCV DNA Result Quantitative (copies/mL)	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/							
(DD/MMM/YYYY) LP performed Pre-PLEX (if applicable) CSF JCV DNA Result Quantitative (copies/mL) Laboratory Name	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/							
(DD/MMM/YYYY) LP performed Pre-PLEX (if applicable) CSF JCV DNA Result Quantitative (copies/mL)	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/	☐ Yes ☐ No ☐ Positive ☐ Negative ☐ Inconclusive/							



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Date	WK	Lymphocyte	Absolute	Lymphocyte Subset Analysis: (CD4, CD8, CD4/CD8 ratio, etc.)
(DD/MMM/Y	(YYY)	(%)	Lymphocyte Count	
				Not Performed
If ye Incl Prov	es, what is the the ude start date and wide patient's ED Treatment: ma Exchange (PL	erapy? Ind dosing regime OSS at time of ne LEX): Yes	w DMT onset:	unoadsorption (IA): Yes No
Session	Da (DD/MM)		Volume	
1				
2				
3				
4				
5				



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						Ct. t. I. t	Ct. D.
	Medica	ation	Dose	Route	Frequency	Start date (DD/MMM/YYYY)	Stop Date (DD/MMM/YYYY)
\square M	1efloquin	ie					
С	idofovir						
		ne					
	other:						
	other:						
			<u> </u>		I		
VIII.	DMI	Outcome:					
V 111.	PNIL						
	a.	What is the	e outcome of the	patient's P	ML?		
		Recover	red Recover	ed with seq	uelae 🔲 Not F	Recovered Unl	known Fatal
		Provide the	date of the assess	sed outcome	e: (DD/MN	MM/YYYY)	
IX.	Was t	he patient c	liagnosed with	PML-IRIS	S?		
	Yes	s; onset date	(DD/MMM/YYY	YY):	□No		
	a.	Any new o	r worsening sym	ptoms? [Yes No		
		If yes, speci	ify the symptoms	:			
		Onset date	of IRIS symptom	s:			
	b.	Any contra	st enhancement	s or MRI at	t time of PML-II	RIS? Yes	No
	c.	Any mass e	effect or edema o	on MRI?	Yes No		
Χ.	PML-	IRIS Treat	ment:				
	a.	Did the pat	tient receive cort	icosteroids	pre-PML-IRIS	onset? Yes	☐ No
	b.	Did the pat	tient receive cort	icosteroids	post-PML-IRIS	onset? Yes	□No



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Biogen Unique Case ID#:	
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Specify all treatments the patient received for PML-IRIS: (including corticosteroid regimens):

Medication	Dose	Route	Frequency	Start Date (DD/MMM/YYYY)	Stop Date (DD/MMM/YYYY)	Specify if treatment is pre- or post-PML-IRIS	
XI. PML-IR	IS Outco	ome:					
a. V	hat is the	e outcome	of the patien	t's PML-IRIS?			
	Recover	red 🔲 I	Recovered with	n sequelae \text{N}	ot Recovered] Unknown 🔲 Fatal	
P	rovide the	date of th	e assessed out	come of PML-IRIS	S: (DD/MM	M/YYYY)	
b. V	hat is the	e causality	y of the PML-	IRIS to the follow	ving Biogen produ	icts?	
	Related	Not	Related	Unknown			
] Tysabri		Tecfide	ra 🔲 V	umerity		
	Fampyr	a/Ampyra	☐ Plegridy	/ A	vonex		
Print name/title:							
Signature: Date:							
(When signing elect	ronically, o	check "Loc	k Document Afte	er Signing" in the Si	DD/MMM/Y ign Document windo		
	•		· ·		o PML suspicion, if		

² Mail the CD to: AESI Coordinator | 300 Binney Street | Cambridge, MA 02142 or your local Biogen representative. Biogen will incur the shipment cost of the CD. Alternatively, for faster MRI transfer, email AESI.coordinator@Biogen.com for instructions on uploading MRI images directly to Biogen's online platform.



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I.	Patient Information							
	Patient Initials: DOB	: (DD/MMM/YYYY)						
II.	Is the Patient alive? ☐ Yes	□No						
	If yes, provide the patient's cu	irrent location (check approp	riate box):					
	☐ Hospital	Home	☐ Nursing Home					
	☐ Intensive Care Un	it Hospice	Rehabilitation Facility					
	If <u>no</u> , provide the following in	If <u>no</u> , provide the following information:						
	Date of Death: (DD/MMM/YYYY)							
	Reported Cause of De	eath:						
	Was an autopsy perfo (If yes, provide a copy	rmed? Yes No						
III.	In your assessment, was the pati	ent's death related to one o	of the following products? Yes No					
	☐ Tysabri ☐ Te	ecfidera	rity					
	☐ Fampyra/Ampyra ☐ Pl	egridy Avone	ex					
IV.	Functional Status post-PML	Diagnosis (see tables below	w):					
	EDSS:Date: (DD/I							
	Karnofsky score: Date: Modified Rankin Score: D		V)					



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	Modified Rankin Score
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Ka	arnofs	ky Performance Status Scale Definitions/Criteria		
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most personal needs; varying amount of assistance needed.	50	Requires considerable assistance and frequent medical care.		
	40	Disabled; requires special care and assistance.		
Unable to care for self; requires equivalent of	30	Severely disabled; hospital admission is indicated although death not Imminent.		
institutional or hospital care; disease may be	20	Very sick; hospital admission necessary; active supportive treatment Necessary.		
progressing rapidly.	10	Moribund; fatal processes progressing rapidly.		
	0	Dead		



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V.	Provide copies of MRI reports, including most recent MRI report, and a CD with the MRI images if not already provided. If not possible, provide detailed MRI results including lesion characteristics and location: Date of MRI: (DD/MMM/YYYY) Detailed description:						
	Date (DD/MMM/YYYY)	WBC	Lymphocyte (%)	Absolute Lymphocyte Count	Lymphocyte Su	bset Analysis: 04/CD8 ratio, etc.)	
			(70)	Lymphocyte Count	(651, 650, 61	Not Performed	
						Not Performed	
						Not Performed	
						Not Performed	
						Not Performed	
VI.	VI. Is your patient currently on another therapy for Multiple Sclerosis? ☐ Yes ☐ No If yes, what is the therapy? Include start date and dosing regimen: Provide patient's EDSS at time of new DMT onset:						
VII.	PML Outcom	ne:					
			itcome of the pat		_	_	
		Recovered		· —		Unknown	
	Provide the date of the assessed outcome: (DD/MMM/YYYY)						



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I. PML-	·IKI	S Outcome:
	a.	What is the outcome of the patient's PML-IRIS?
		☐ Recovered ☐ Recovered with sequelae ☐ Not Recovered ☐ Unknown ☐ Fa
		Provide the date of the assessed outcome of PML-IRIS: (DD/MMM/YYYY)
	b.	What is the causality of the PML-IRIS to the following Biogen products?
		Related Not Related Unknown
		☐ Tysabri ☐ Tecfidera ☐ Vumerity
		☐ Fampyra/Ampyra ☐ Plegridy ☐ Avonex
Print name	/title	:
Signature:		Date:
(When signi	ing el	ectronically, check "Lock Document After Signing" in the Sign Document window).
¹Additiona	allv i	nclude copies of the radiology reports for 6 months prior to PML suspicion, if available.
		: AESI Coordinator 300 Binney Street Cambridge, MA 02142 or your local Biogen
representat	tive.	Biogen will incur the shipment cost. Alternatively, for faster MRI transfer, email
AESI.coord	dinat	or@Biogen.com for instructions on uploading MRI images directly to Biogen's online platform.



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Tecfidera Renal Cell Carcinoma	
Tecfidera Small Cell Lung Cancer	



Tecfidera General Malignancy

To provide consistency in our due diligence of Tecfidera general malignancy reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please indicate if the patient has a history of cancer.
- 5. Please provide any medical history risk factors the patient had for a general malignancy (e.g., family history of malignancies, radiation exposure, smoking, diabetes mellitus, etc.).
- 6. Please list all medications the patient has taken in the past 2 years.
- 7. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 8. Please provide all signs and symptoms related to the malignancy.
- 9. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 10. Please provide results from all pathology or cytology studies.
- 11. Please provide results from all imaging studies.
- 12. Please provide results from physical examination.
- 13. If the patient was hospitalized, please provide discharge report.
- 14. Please provide any treatments the patient received for the event.
- 15. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Breast Cancer

To provide consistency in our due diligence of Tecfidera breast cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of breast cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please provide any medical history risk factors the patient had for breast cancer (e.g., family history, hormone replacement therapy, breast cancer (BRCA) gene mutations, history of proliferative benign breast disease or breast carcinoma, etc.).
- 4. Please provide any social risk factors for breast cancer (e.g., smoking, alcohol consumption).
- 5. Please list the medications the patient has taken in the past 2 years.
- 6. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 7. If a tissue biopsy was performed, please provide the findings.
- 8. Please provide results from all imaging studies such as mammogram, ultrasound or magnetic resonance imaging (MRI).
- 9. Was the patient tested for estrogen receptor, progesterone receptor, or human epidermal growth factor receptor 2 (HER-2/neu) protein? If so, please provide test results.
- 10. Please provide results from the physical exam.
- 11. If the patient was hospitalized, please provide discharge report.
- 12. Please provide any treatments the patient received for the event.
- 13. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Cervical Cancer

To provide consistency in our due diligence of Tecfidera cervical cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of cervical cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please indicate if the patient has a history of cancer.
- 5. Please provide any medical history risk factors the patient had for cervical cancer (e.g., smoking, family history of cervical cancer, human papillomavirus (HPV) infection, or oral contraceptive use > 5 years, etc.).
- 6. Please indicate the dates if the patient received either the Cervarix or Gardasil HPV vaccination.
- 7. Please list the medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins, and herbs.
- 9. Please provide results and dates from all pathology or cytology studies.
- 10. Please provide results from all imaging studies.
- 11. Please provide results from physical examination.
- 12. If the patient was hospitalized, please provide discharge report.
- 13. Please provide any treatments the patient received for the event.
- 14. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Colon Cancer

To provide consistency in our due diligence of Tecfidera colon cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of colon cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please provide any medical history risk factors the patient had for colon cancer (e.g., family or personal history of colorectal cancer or adenomatous polyps, obesity, smoking, alcohol consumption, etc.).
- 5. Please list all medications the patient has taken in the past 2 years.
- 6. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 7. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 8. If tumor markers were analyzed, please provide the name of the marker(s) which were found and the date of the analysis.
- 9. Please provide results and dates from all pathology or cytology studies.
- 10. Please provide results from all imaging studies.
- 11. Please provide results from physical examination.
- 12. If the patient was hospitalized, please provide discharge report.
- 13. Please provide any treatments the patient received for the event.
- 14. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Endometrial Cancer

To provide consistency in our due diligence of Tecfidera endometrial cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of endometrial cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please provide any medical history risk factors the patient had for endometrial cancer (e.g., personal or family history, diabetes, early menarche, late menopause, polycystic ovary syndrome, estrogen therapy, tamoxifen use, nulliparity, etc.).
- 4. Please list the medications the patient has taken in the past 2 years.
- 5. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 6. Please provide results from all pathology or cytology studies.
- 7. Please provide results from all imaging studies.
- 8. Please provide results from physical examination.
- 9. If the patient was hospitalized, please provide discharge report.
- 10. Please provide any treatments the patient received for the event.
- 11. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Lymphoma

To provide consistency in our due diligence of Tecfidera lymphoma reports, please ask the followup questions below.

- 1. Please specify the patient's type and stage of lymphoma.
- 2. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 3. Please indicate if the patient has a history of cancer.
- 4. Please provide any medical history risk factors the patient had for lymphoma (e.g., family history, chromosomal abnormalities, transplantation, rheumatoid arthritis, etc.).
- 5. Please list the medications the patient has taken in the past 2 years.
- 6. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 7. If a tissue biopsy was performed, please provide the findings.
- 8. Please provide results from all imaging studies.
- 9. Please provide results from physical examination.
- 10. Please provide results from all laboratory tests. Please include baseline values as well as reference ranges for any and all lab tests.
- 11. If the patient was hospitalized, please provide discharge report.
- 12. Please provide any treatments the patient received for the event.
- 13. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Melanoma

To provide consistency in our due diligence of Tecfidera melanoma reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of melanoma.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please indicate if the patient has a history of cancer.
- 5. Please provide any medical history risk factors the patient had for melanoma (e.g., ultraviolet light exposure, family history of melanoma, pigmented lesions, etc.).
- 6. Please indicate if the patient has a family history of melanoma skin cancer and describe the family history.
- 7. Please list all medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 9. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 10. If tumor markers were analyzed, please provide the name of the marker(s) which were found and the date of the analysis.
- 11. Please provide results from all imaging studies.
- 12. Please provide results from physical examination.
- 13. If the patient was hospitalized, please provide discharge report.
- 14. Please provide any treatments the patient received for the event.
- 15. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Non-Melanoma

To provide consistency in our due diligence of Tecfidera non-melanoma reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade on non-melanoma skin cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please indicate if the patient was exposed to ultraviolet (UV) light, arsenic, or ionizing radiation.
- 5. Please provide any medical history risk factors the patient had for non-melanoma (e.g., family history or non-melanoma skin cancer, immunosuppression, genetic factors, etc.).
- 6. Please indicate if the patient has a family history of non-melanoma skin cancer and describe the family history.
- 7. Please list the medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 9. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 10. If tumor markers were analyzed, please provide the name of the marker(s) which were found and the date of the analysis.
- 11. Please provide results from all imaging studies.
- 12. Please provide results from physical examination.
- 13. If the patient was hospitalized, please provide discharge report.
- 14. Please provide any treatments the patient received for the event.
- 15. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Non-Small Cell Lung Cancer

To provide consistency in our due diligence of Tecfidera non-small cell lung cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of non-small cell lung cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient was exposed to tobacco smoke, how many packs per year they smoke, if they currently smoke, if they are exposed to second-hand smoke, or if they have a remote history of smoking.
- 4. Please indicate if the patient had occupation or environmental exposure to hazardous chemicals (e.g., arsenic, chromium, asbestos, haloethers, radon gas, nickel, polycyclic aromatic hydrocarbons, etc.).
- 5. Please indicate if the patient has any other lung diseases, such as chronic obstructive pulmonary disease (COPD), lung fibrosis, tuberculosis, etc.
- 6. Please indicate if the patient has a family history of lung cancer and describe the family history.
- 7. Please list the medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 9. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 10. If tumor markers were analyzed, please provide the name of the marker(s) which were found and the date of the analysis.
- 11. Please provide results from all imaging studies.
- 12. Please provide results from physical examination.
- 13. Please provide the patient's pulmonary function test results and the date they were performed.
- 14. If the patient was hospitalized, please provide discharge report.
- 15. Please provide any treatments the patient received for the event.
- 16. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Prostate Cancer

To provide consistency in our due diligence of Tecfidera prostate cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of prostate cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 4. Please indicate if the patient has a history of cancer.
- 5. Please indicate if the patient has a history of right or left sided heart failure.
- 6. Please provide any medical history risk factors the patient had for prostate cancer (e.g., family history, breast cancer (BRCA) 1 or BRCA 2 gene mutations, high testosterone levels, high insulin-like growth factor 1 levels, high intake of calcium, high fat diet, etc.).
- 7. Please list the medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 9. If a tissue biopsy was performed, please provide the findings.
- 10. Please provide results from all imaging studies.
- 11. Please provide results from physical examination.
- 12. Please provide the patient's prostate specific antigen (PSA) level and the date it was taken. Please include baseline values as well as reference ranges for any and all lab tests.
- 13. If the patient was hospitalized, please provide discharge report.
- 14. Please provide any treatments the patient received for the event.
- 15. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Renal Cell Carcinoma

To provide consistency in our due diligence of Tecfidera renal cell carcinoma reports, please ask the follow-up questions below.

- 1. Please provide any medical history risk factors the patient had for renal cell carcinoma (e.g., family history, polycystic kidney disease, chronic hemodialysis, anemia, tuberous sclerosis, erythrocytosis, obesity, hypertension, etc.).
- 2. Please provide any available information on the histological type of cancer (e.g., clear cell vs papillary).
- 3. Please list the medications the patient has taken in the past 2 years.
- 4. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 5. Please provide the clinical signs and symptoms of the patient and the date at which each sign or symptom began.
- 6. Please provide the below laboratory results for the patient. Include reference ranges, baseline levels and levels for the treatment and management of the event.
 - a. Liver function tests
 - b. Renal function tests
 - c. Coagulation profile
 - d. Complete blood count with differential
 - e. Creatinine Clearance (CrCl)
 - f. Any other tests related to the diagnosis or management of renal cell carcinoma
- 7. Please provide results from urinalysis or state that it was not performed.
- 8. If a tissue biopsy was performed, please provide the findings.
- 9. Please provide results from all imaging studies.
- 10. Please provide results from the physical exam.
- 11. If the patient was hospitalized, please provide discharge report.
- 12. Please provide any treatments the patient received for the event.
- 13. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Small Cell Lung Cancer

To provide consistency in our due diligence of Tecfidera small cell lung cancer reports, please ask the follow-up questions below.

- 1. Please specify the patient's type, stage, and grade of small cell lung cancer.
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please indicate if the patient was exposed to tobacco smoke, how many packs per year they smoke, if they currently smoke, if they are exposed to second-hand smoke, or if they have a remote history of smoking.
- 4. Please indicate if the patient had occupation or environmental exposure to hazardous chemicals (e.g., arsenic, chromium, asbestos, haloethers, radon gas, nickel, polycyclic aromatic hydrocarbons, etc.).
- 5. Please indicate if the patient has any other lung diseases, such as chronic obstructive pulmonary disease (COPD), lung fibrosis, tuberculosis, etc.
- 6. Please indicate if the patient has a family history of lung cancer and describe the family history.
- 7. Please list the medications the patient has taken in the past 2 years.
- 8. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 9. If a tissue biopsy was performed, please provide the findings and the date it was performed.
- 10. If sputum cytology was performed, please provide the findings and the date it was performed.
- 11. If tumor markers were analyzed, please provide the name of the marker(s) which were found and the date of the analysis.
- 12. Please provide results from all imaging studies.
- 13. Please provide results from physical examination.
- 14. Please provide the patient's pulmonary function test results and the date they were performed. Please include baseline values as well as reference ranges for any and all results.
- 15. If the patient was hospitalized, please provide discharge report.
- 16. Please provide any treatments the patient received for the event.
- 17. Please provide outcome for event and date of resolution if applicable. If the event recovered with sequelae, please describe the sequelae.



Tecfidera Liver Disease / Liver Injury

To provide consistency in our due diligence of Tecfidera serious liver disease / liver injury reports, please ask the follow-up questions below.

- 1. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 2. Please indicate if the patient has a history of right or left sided heart failure. Does patient have history of hypotension?
- 3. Please provide any medical history risk factors the patient had for liver disease / liver injury (e.g., alcohol intake, family history of liver disease or liver injury, history of nonalcoholic steatohepatitis (NASH), obesity, sexual promiscuity, etc.).
- 4. Please list all medications the patient has taken in the past 2 years.
- 5. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 6. Please provide all signs and symptoms of liver disease / liver injury including dates of each event (e.g., jaundice, confusion, dark urine, severe abdominal pain, etc.).
- 7. Please provide the below laboratory results for the patient. Include reference ranges, baseline levels and levels for the treatment and management of the event.
 - a. Liver function tests
 - b. Renal function tests
 - c. Viral Hepatitis profile
 - d. Complete blood count with differential
 - e. Autoantibodies
 - f. Any other tests related to the diagnosis or management of liver disease / liver injury
- 8. Please provide results from all imaging studies.
- 9. Please provide results from the physical exam.
- 10. If the patient was hospitalized, please provide discharge report.
- 11. Please provide any treatments the patient received for the event.
- 12. Please provide outcome for event and date of resolution if applicable. If the event recovered with sequelae, please describe the sequelae.



Tecfidera Moderate Lymphopenia

To provide consistency in our due diligence of moderate lymphopenia reports, please ask the follow-up question(s) below:

Moderate lymphopenia $(500/\mu L < absolute lymphocyte < 800/\mu L)$

Check action taken - if dose was not reduced or withdrawn ask for the following:

- 1. What was the action taken with Tecfidera therapy?
- 2. Please provide Absolute lymphocyte count from a recent date. Please include baseline values as well as reference ranges.
- 3. Please provide White blood cell count from a recent date. Please include baseline values as well as reference ranges.
- 4. Please provide Lymphocyte percentage from a recent date. Please include baseline values as well as reference ranges.
- 5. Please provide differential lymphocyte counts, if available, especially CD4+ and CD8+ counts from a recent date. Please include baseline values as well as reference ranges.
- 6. Please provide the outcome for lymphopenia and date of resolution, if applicable. If the patient recovered with sequelae, describe the sequelae.



Tecfidera Serious Infection / Opportunistic Infection

To provide consistency in our due diligence of Tecfidera serious infection / opportunistic infection reports, please ask the follow-up questions below.

- 1. Please indicate if the patient has had any recent infections (bacterial, fungal, spirochetes, etc.).
- 2. Did the patient develop lymphopenia while on Tecfidera? Please provide any available lymphocyte data (date of lab test, absolute lymphocyte count). If lymphocyte subset data (CD4, CD8) was checked, please provide. Please include baseline values as well as reference ranges for any and all lab tests.
- 3. Please provide any medical history risk factors the patient had for a serious or opportunistic infection (e.g., history of immunosuppression, human immunodeficiency virus [HIV]/acquired immunodeficiency syndrome [AIDS], transplant, chronic infectious disease, history of malignancy, or other autoimmune disorders).
- 4. Please provide details of above or any other relevant medical history or risk factors for infection (e.g., prior infections, background disease at site of infection such as chronic obstructive pulmonary disease [COPD] and pneumonia).
- 5. Please list all medications the patient has taken in the past 2 years.
- 6. Please provide any concomitant medications the patient is taking including prescription medications, over the counter (OTC), dietary supplements, vitamins and herbs.
- 7. Please provide the below laboratory results for the patient. Include reference ranges, baseline levels and levels for the treatment and management of the event.
 - a. Complete blood count with differential
 - b. HIV panel
 - c. Any other tests related to the diagnosis or management of serious / opportunistic infections (e.g., blood cultures, urinalysis, etc.)
- 8. Please provide results from all imaging studies.
- 9. Please provide results from the physical exam.
- 10. For central nervous system (CNS) infections, please provide results of a neurological assessment.
- 11. If the patient was hospitalized, please provide discharge report.
- 12. Please provide any treatments the patient received for the event.
- 13. Please provide outcome for event and date of resolution if applicable. If the patient recovered with sequelae, please describe the sequelae.



Tecfidera Severe Lymphopenia

To provide consistency in our due diligence of severe lymphopenia reports, please ask the follow-up questions below:

Severe lymphopenia (absolute lymphocyte count less than 500/µL)

- 1. Please provide the outcome for lymphopenia and date of resolution, if applicable. If the patient recovered with sequelae, describe the sequelae.
- 2. Please provide Absolute lymphocyte count from a recent date. Please include baseline values as well as reference ranges.
- 3. Please provide White blood cell count from a recent date. Please include baseline values as well as reference ranges.
- 4. Please provide Lymphocyte percentage from a recent date. Please include baseline values as well as reference ranges.
- 5. Please provide differential lymphocyte counts, if available, especially CD4+ and CD8+ counts from a recent date. Please include baseline values as well as reference ranges.
- 6. What was the Action taken with Tecfidera therapy? If discontinued, was Tecfidera restarted?