	Description of		
Algorithm	Information		
Step	Requirements	Type of Information	Links
P1	All Women of Child-		
	Bearing Age and Male		
	Sexual Partners of		
	Women of Childbearing		
	Age		
D1	Areas with active Zika	Value Set: PHVS_ZikaAffectedAreas_CDC	https://phinvads.cdc.gov/vads/ViewValueSe
	transmission	[2.16.840.1.114222.4.11.7457] Value set is updated	t.action?oid=2.16.840.1.114222.4.11.7457
		based on the most current travel notice from CDC Zika	
		virus disease website	
		Informational: Areas with Zika Risk - Zika-affected	http://www.cdc.gov/mmwr/zika_reports.ht
		areas.	<u>ml</u>
P2	Travel and Mosquito	Value Set: Insect Repellent – No Value set currently	
	Prevention Advice	available for pregnancy-safe mosquito repellent	
		products.	
		Informational: Avoid Mosquito bites - CDC	http://www.cdc.gov/mmwr/zika_reports.ht
			<u>ml</u>
		Informational: Find the EPA registered insect repellant.	https://www.epa.gov/insect-
		CDC vocabulary team is collaborating with EPA to	repellents/using-repellent-products-protect- against-mosquito-borne-illnesses
		identify pregnancy safe insect repellant search in EPA	agamst-mosquito-borne-mnesses
		site.	
		(DEET, IR3535 and Picaridin are safe during pregnancy	
		as referenced in the CDC interim guideline)	
D2	Known pregnant	Pregnancy determination is at the discretion of the	
		patient and the provider	

Algorithm Step	Description of Information Requirements	Type of Information	Links
		Informational: Interim Guidelines for Prevention of Sexual Transmission of Zika Virus — United States, 2016	http://www.cdc.gov/mmwr/zika_reports.ht ml
P3	Determine if Pregnant	Pregnancy determination is at the discretion of the patient and the provider	
P4	Confer with State Health Department Regarding Zika Virus Testing	Contact State Health Department	
P5	Test(s) for Zika Virus – 1 st visit for resident of area with active Zika transmission	Value Set: Zika Virus tests (RT-PCR, Neutralizing Antibodies, IgM) PHVS_LabTestName_ZikaVirus [2.16.840.1.114222.4.11.7480] [Need to subset only Zika Virus IgM studies]	https://phinvads.cdc.gov/vads/ViewValueSe t.action?oid=2.16.840.1.114222.4.11.7480
D3	Symptoms of Zika Virus Infection	Value Set: PHVS_SignsSymptoms_Zika [2.16.840.1.114222.4.11.7459] Informational: Signs and Symptoms of Zika virus	https://phinvads.cdc.gov/vads/ViewValueSe t.action?oid=2.16.840.1.114222.4.11.7459 http://www.cdc.gov/mmwr/zika_reports.ht
		disease. For comparison Value Set:	ml https://phinvads.cdc.gov/vads/ViewValueSe
		PHVS_SignsSymptoms_Arbovirus [2.16.840.1.114222.4.11.7460] Signs and Symptoms of Arboviral diseases. This value set would be used for public health case notification and includes signs and symptoms of Dengue, Chikungunya and Zika.	t.action?oid=2.16.840.1.114222.4.11.7460
P6	 Pregnancy dating & fetal ultrasound @ 18- 20 wks gestation to assess fetal anatomy. 	Value Set: Fetal Ultrasound LOINC Code = 12129-3 LOINC Concept Name = Fetal [Interpretation] Study observation general US	LOINC Code Hyperlink - http://s.details.loinc.org/LOINC/12129- 3.html?sections=Simple

Algorithm Step	Description of Information Requirements	Type of Information	Links
-	•	LOINC Code System OID: 2.16.840.1.113883.6.1	
		[Value Set for Fetal Ultrasound CPT Codes Pending]	
		Fetal Ultrasound Result – Value:	SNOMED Code System Concept link in PHIN
		Microcephaly	VADS -
		SNOMED Code = 431265009	https://phinvads.cdc.gov/vads/ViewCodeSys
		SNOMED Concept Name = Fetal microcephaly	temConcept.action?oid=2.16.840.1.113883.
		(disorder)	6.96&code=431265009
		SNOMED-CT Code System OID:	
		2.16.840.1.11.3883.6.96	
		Fetal Ultrasound Result – Value:	CDC PHIN VS local code =
		Intracranial calcifications	https://phinvads.cdc.gov/vads/ViewCodeSys
		CDC PHINVS Local Code =PHC1444	temConcept.action?oid=2.16.840.1.114222.
		CDC PHIN VS Concept Name = Fetal Intracranial	4.5.274&code=PHC1444
		Calcification	
		PHIN-VADS Code System OID =	[Pending new SNOMED Code]
		2.16.840.1.114222.4.5.274	
		Informational: Microcephaly	http://www.cdc.gov/mmwr/zika reports.ht
			<u>ml</u>
		Informational: Possible association between Zika virus	http://www.cdc.gov/mmwr/zika reports.ht
		infection and microcephaly	<u>ml</u>
		Informational: Fetal Ultrasound (patient-level)	https://www.nlm.nih.gov/medlineplus/ency
			/article/003778.htm
	Repeat Zika IgM mid-	Value Set: Zika Virus tests (RT-PCR, Neutralizing	https://phinvads.cdc.gov/vads/ViewValueSe
	2nd or early 3 rd	Antibodies, IgM)	t.action?oid=2.16.840.1.114222.4.11.7480
	trimester if still in	PHVS_LabTestName_ZikaVirus	
	Zika-prone area.	[2.16.840.1.114222.4.11.7480]	
		[Need to subset only Zika Virus IgM studies]	

	Description of	III III III III III III III III III II	
Algorithm	Information		
Step	Requirements	Type of Information	Links
	 Consider repeat fetal 	Value Set: Fetal Ultrasound	LOINC Code Hyperlink -
	ultrasound later in	LOINC Code = <u>12129-3</u>	http://s.details.loinc.org/LOINC/12129-
	pregnancy fetal	LOINC Concept Name = Fetal [Interpretation] Study	3.html?sections=Simple
	microcephaly is most	observation general US	
	easily detected in late	LOINC Code System OID: 2.16.840.1.113883.6.1	
	2 nd and early 3 rd	[Value Set for Fetal Ultrasound CPT Codes Pending]	
	trimester		
P6	Test for Zika Virus 1st	Value Set: Zika Virus tests (RT-PCR, Neutralizing	https://phinvads.cdc.gov/vads/ViewValueSe
	week of illness –	Antibodies, IgM)	t.action?oid=2.16.840.1.114222.4.11.7480
	Onset prior week: RT-	PHVS_LabTestName_ZikaVirus	
	PCR	[2.16.840.1.114222.4.11.7480]	
	 Symptoms ≥ 4 days 	[Need to subset only Zika Virus IgM studies]	
	IgM and neutralizing		
	antibody test		
	Test for Zika Virus		
	Infection 2-12 weeks		
	after return from travel		
	_		
	RT-PCR Test		
		Value Set: PHVS_LabTestName_Arbovirus	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.4120]	t.action?oid=2.16.840.1.114222.4.11.4120
		Value Set: PHVS_LabTestName_Chikungunya	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.7339]	t.action?oid=2.16.840.1.114222.4.11.7339
		Value Set: PHVS_LabTestName_Dengue	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.4141]	t.action?oid=2.16.840.1.114222.4.11.4141
		Informational: Zika Virus Diagnostic Testing	http://www.cdc.gov/mmwr/zika reports.ht
			<u>ml</u>

Algorithm	Description of Information		
Algorithm Step	Requirements	Type of Information	Links
Осер	nequirements	Informational: Zika virus diagnostic guidance for State	http://www.cdc.gov/mmwr/zika reports.ht
		Public Health Labs	ml
P7	Supportive Care: Rest,	Value Set: PHVS_DrugDiseaseInteraction_Dengue	https://phinvads.cdc.gov/vads/ViewValueSe
	Fluids, Analgesics,	[2.16.840.1.114222.4.11.7467]	t.action?oid=2.16.840.1.114222.4.11.7467
	Antipyretics (Avoid	{Drugs to avoid due to risk of dengue fever – Aspirin	
	aspirin/NSAIDs in case	and NSAID} The value set is currently based on	
	of dengue)	SNOMED-CT. A new value set will be created based on	
		RxNorm.	
		Informational: Symptoms, Diagnosis and Treatment	http://www.cdc.gov/mmwr/zika reports.ht
			<u>ml</u>
D5	Zika Virus Result	Value Set: Zika Virus IgM ELISA Results	https://phinvads.cdc.gov/vads/ViewValueSe
		PHVS_PosNegEquivNotDone_CDC	t.action?oid=2.16.840.1.114222.4.11.7476
		[2.16.840.1.114222.4.11.7476]	
		This value set is intended for use in electronic	
		laboratory reporting based on the results received	
		from the laboratory. The laboratory may also report a	
		quantitative titer if applicable.	
		Value Set: Zika Virus Neutralizing Antibody Results	https://phinvads.cdc.gov/vads/ViewValueSe
		PHVS_PosNeg4FoldRiseNotDone_CDC	t.action?oid=2.16.840.1.114222.4.11.7477
		[2.16.840.1.114222.4.11.7477]	
		This value set is intended for use in electronic	
		laboratory reporting based on the results received	
		from the laboratory. The laboratory may also report a	
		quantitative titer if applicable.	
		Value Set: PHVS_LabResult_Arbovirus	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.4003]	<u>t.action?oid=2.16.840.1.114222.4.11.4003</u>
		Value Set: PHVS_LabResult_Chikungunya	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.7343]	t.action?oid=2.16.840.1.114222.4.11.7343

Algorithm Step	Description of Information Requirements	Type of Information	Links
		This value set is intended for use in electronic	
		laboratory reporting based on the results received	
		from the laboratory. The laboratory may also report a	
		quantitative titer if applicable.	
		Value Set: PHVS_LabResult_Dengue	https://phinvads.cdc.gov/vads/ViewValueSe
		[2.16.840.1.114222.4.11.4025]	t.action?oid=2.16.840.1.114222.4.11.4025
		This value set is intended for use in electronic	
		laboratory reporting based on the results received	
		from the laboratory. The laboratory may also report a	
		quantitative titer if applicable.	
		Informational: Zika Virus Diagnostic Testing	http://www.cdc.gov/mmwr/zika_reports.ht
			<u>ml</u>
		Informational: Zika virus diagnostic guidance for State	http://www.cdc.gov/mmwr/zika reports.ht
		Public Health Labs	<u>ml</u>
D6	Fetal Ultrasound	Fetal Ultrasound Result – Value:	SNOMED Code System Concept link in PHIN
	Positive Result:	Microcephaly	VADS -
	Microcephaly or	SNOMED Code = 431265009	https://phinvads.cdc.gov/vads/ViewCodeSys
	Intracranial	SNOMED Concept Name = Fetal microcephaly	temConcept.action?oid=2.16.840.1.113883.
	Calcifications	(disorder)	6.96&code=431265009
		SNOMED-CT Code System OID:	
		2.16.840.1.11.3883.6.96	
		Fetal Ultrasound Result – Value:	CDC PHIN VS local code =
		Intracranial calcifications	https://phinvads.cdc.gov/vads/ViewCodeSys
		CDC PHINVS Local Code =PHC1444	temConcept.action?oid=2.16.840.1.114222.
		CDC PHIN VS Concept Name = Fetal Intracranial	4.5.274&code=PHC1444
		Calcification	
		PHIN-VADS Code System OID =	[Pending new SNOMED Code]
		2.16.840.1.114222.4.5.274	

Algorithm Step	Description of Information Requirements	Type of Information	Links
•	·	Informational: Microcephaly	http://www.cdc.gov/ncbddd/birthdefects/microcephaly.html
		Informational: Possible association between Zika virus infection and microcephaly	http://www.cdc.gov/mmwr/volumes/65/wr /mm6503e2.htm?s cid=mm6503e2.htm w
		Informational: Fetal Ultrasound (patient-level)	https://www.nlm.nih.gov/medlineplus/ency/article/003778.htm
P8	Amniocentesis for pregnancy ≥ 15 weeks gestation	Value Set: Amniocentesis SNOMED code = 34536000 SNOMED Concept name = Amniocentesis (procedure) SNOMED-CT Code System OID: 2.16.840.1.11.3883.6.96 [CPT Value Set Pending] Value Set: PHVS_SpecimenType_Zika List of specimens associated with Zika laboratory tests. This includes specimen from mother as well as fetus, infant as well as acute, convalescent specimens. It is	SNOMED code system concept link in PHIN VADS. https://phinvads.cdc.gov/vads/ViewCodeSys temConcept.action?oid=2.16.840.1.113883. 6.96&code=34536000 https://phinvads.cdc.gov/vads/ViewValueSe t.action?oid=2.16.840.1.114222.4.11.7463
P9	Refer to Maternal-Fetal Specialist or Infectious Disease Specialist	not inclusive of histopathologic examination. [2.16.840.1.114222.4.11.7463] Maternal-Fetal Medicine NUCC Provider Code = 207VM0101X NUCC Provider Concept Name = Maternal & Fetal Medicine [Allopathic & Osteopathic Physicians\Obstetrics & Gynecology]	NUCC Provider Codes (part of provider taxonomy) link in PHIN VADS - https://phinvads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883 . 6.101&code=207VM0101X
			For latest version of NUCC provider codes, please browse provider taxonomy at NUCC site -

Algorithm	Description of Information	Town of lufo weating	Links
Step	Requirements	Type of Information	Links
			http://www.nucc.org/index.php?option=co
			m wrapper&view=wrapper&Itemid=126
		Infectious Disease Specialist	NUCC Provider Codes (part of provider
		NUCC Provider Code = 207RI0200X	taxonomy) link in PHIN VADS -
		NUCC Provider Concept Name = Infectious Disease	https://phinvads.cdc.gov/vads/ViewCodeSys
		[Allopathic & Osteopathic Physicians\Internal	temConcept.action?oid=2.16.840.1.113883.
		Medicine]	6.101&code=207RI0200X
			Facilities and a significant state of NUICC and State of
			For latest version of NUCC provider codes,
			please browse provider taxonomy at NUCC
			site -
			http://www.nucc.org/index.php?option=co
	_		m wrapper&view=wrapper&Itemid=126
D7	Pregnancy Outcome	Value Set: Pregnancy Outcome [Value Set Pending]	
P10	Zika Virus Testing for	Value Set: PHVS_SpecimenType_Zika	https://phinvads.cdc.gov/vads/ViewValueSe
	Live Birth	List of specimens associated with Zika laboratory tests.	t.action?oid=2.16.840.1.114222.4.11.7463
		This includes specimen from mother as well as fetus,	
		infant as well as acute, convalescent specimens. It is	
		not inclusive of histopathologic examination.	
		[2.16.840.1.114222.4.11.7463]	
		Informational: Interim Guidelines for the Evaluation	http://www.cdc.gov/mmwr/zika reports.ht
		and Testing of Infants with Possible Congenital Zika	<u>ml</u>
		Virus Infection — United States, 2016	
P11	Zika Virus Testing for	Confer with State Health Department	
	Products of Non-Live		
	Pregnancy Product		

Algorithm	Description of Information		
Step	Requirements	Type of Information	Links
P12	Live Birth, Appears Healthy, Unknown if infected	Confer with State Health Department	