

RUBELLA**IMMEDIATE NOTIFICATION****IMMUNIZATION PROGRAM**

Event Name:	RUB	
Event Time Period:	Lifelong immunity	
Clinical Description (CDC 1996):	<p>An illness that has all the following characteristics:</p> <ul style="list-style-type: none"> • Acute onset of generalized maculopapular rash • Temperature greater than 99.0 F (greater than 37.2 C), if measured • Arthralgia/arthritis, lymphadenopathy, or conjunctivitis <p>CONGENITAL RUBELLA (Congenital RUB) <CDC 1999>: An illness, usually manifesting in infancy, resulting from rubella infection <i>in utero</i> and characterized by signs or symptoms from the following categories:</p> <p>a) Cataracts/congenital glaucoma, congenital heart disease (most commonly patent ductus arteriosus or peripheral pulmonary artery stenosis), hearing impairment, pigmentary retinopathy.</p> <p>b) Purpura, hepatosplenomegaly, jaundice, microcephaly, developmental delay, meningoencephalitis, radiolucent bone disease.</p>	
CDC Event Classification (RUB: 2024; Congenital RUB: 2010):	<i>Confirmed</i> RUB	<p>Laboratory confirmation by:</p> <ul style="list-style-type: none"> • Detection of rubella virus (e.g. RT-PCR, culture, next generation sequencing); OR • Significant rise (4-fold) between acute and convalescent-phase titers in serum rubella IgG antibody level by standard serologic assay <p>OR</p> <p>Clinically compatible AND positive serologic test for rubella IgM antibody AND</p> <ul style="list-style-type: none"> • Epidemiologic link to a laboratory-confirmed case; OR • Lack of presumptive evidence of immunity with international travel 23 days prior to rash; OR • Low IgG avidity
	<i>Confirmed</i> Congenital RUB	<p>Clinically compatible AND laboratory confirmation by:</p> <ul style="list-style-type: none"> • Detection of rubella virus (e.g. RT-PCR, culture, next generation sequencing); OR • Demonstration of rubella-specific IgM antibody; OR • Infant rubella antibody level that persists at a higher level and for a longer period than is expected from passive transfer of maternal antibody (i.e. rubella titer that does not drop at the expected rate of a twofold dilution per month); OR
	<i>Probable</i> RUB	<p>Clinically compatible AND lacks presumptive evidence of immunity, with noncontributory or no serologic or virologic testing, AND is not epidemiologically linked to a laboratory confirmed case, AND no international travel 23 days prior to rash.</p>
	<i>Probable</i> congenital RUB	<p>A case that is not laboratory confirmed, AND lacks evidence of any other etiology, AND one of the following:</p> <ol style="list-style-type: none"> 1. Two of the following symptoms: cataracts/congenital glaucoma, congenital heart disease (most commonly patent ductus arteriosus, or peripheral pulmonary artery stenosis), loss of hearing, pigmentary retinopathy OR 2. One of the symptoms listed above in (1) AND one of the following: purpura, hepatosplenomegaly, jaundice, microcephaly, developmental delay, meningoencephalitis, radiolucent bone disease

	<i>Suspect</i> RUB	Any generalized rash illness of acute onset
	<i>Suspect congenital</i> RUB	A case with some compatible clinical findings but not meeting the criteria for a probable case
Massachusetts Event Classification:	<i>Follows CDC event classification</i>	

***All rubella events will be entered with the same code (RUB). Epidemiologists will answer ‘yes’ to CRS question if it is a CRS event.**

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory Report OR Boston Reporting Card	Culture	Clinical specimen	Rubella virus isolated	Yes	New event CONFIRMED
				No	Same event
<i>Select:</i>		Virus identified: PrId: Pt: xxx: Nom: Virus culture			
Outside Lab Laboratory Report OR Boston Reporting Card	Serology	Serum	IgM	Yes	New event SUSPECT
				No	Same event
<i>Select (IgM):</i>		Rubella virus Ab.IgM: ACnc: Pt: Flu: Qn:			
Outside Lab Laboratory Report OR Boston Reporting Card	Serology	Serum	IgG	Yes	Do Not Enter
				No	Same event
<i>Select (IgG):</i>		Rubella virus Ab.IgG:ACnc:Pt:Flu:Qn:			
SLI Only Lab Reporting	Serology	Clinical specimen (Paired Specimens)	IgG	Yes	New event SUSPECT
				No	Same event
<i>Select (IgG):</i>		Rubella virus Ab IgG^1st specimen : Acnc : Pt : Ser : Qn			
<i>Select (IgG):</i>		Rubella virus Ab IgG^2nd specimen : Acnc : Pt : Ser : Qn			
Laboratory Report OR Boston Reporting Card	Serology	Serum	IgM	Yes	New event SUSPECT
				No	Same event
<i>Select (IgM):</i>		Rubella virus Ab.IgM: ACnc: Pt: Ser: Qn: EIA			
Laboratory Report OR Boston Reporting Card	Titr	Serum	Positive Equivocal	Yes	New event SUSPECT
				No	Same event
<i>Select:</i>		Rubella virus Ab: Titr: Pt: Ser: Qn: LA			

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory Report OR Boston Reporting Card	PCR	Clinical specimen	Rubella virus genotype 1a	Yes	New event CONFIRMED
				No	Same event
<i>Select:</i>		Rubella virus genotyping : Prld : Pt : xxx : Nom : Probe.Amp.Tar			
Morbidity Card				Yes	New Event SUSPECT
				No	Same event
Outside Lab Laboratory Report OR Boston Reporting Card	PCR	Clinical specimen	Positive	Yes	New event CONFIRMED
				No	Same event
<i>Select (IgM):</i>		Rubella virus RNA : ACnc : Pt : XXX : Ord : Probe.Amp.Tar			