## Measles Contact Management Algorithm

Immunization	Birth before 1957	2 doses	1 dose <sup>&amp;</sup>	0 doses		Unknown <sup>9</sup>	
Status $\rightarrow$							
Risk assessment:	Presumed immune	Presumed immune	~95% effective	Susceptible!		Presume susceptible	
Prophylaxis:	None	None	MMR within 72	MMR within 72 hours of exposure;		MMR within 72 hours of exposure;	
			hours of exposure	Consider IG (if indicated <sup>1</sup> ) within 6 days of		Consider IG (if indicated <sup>1</sup> ) within 6 days of	
				exposure*		exposure*	
Recommendations:	No recommendations	No recommendations	Second MMR	Close Contacts <sup>e</sup>	Public Callers#	Close Contacts <sup>e</sup>	Public Callers#
	or restrictions	or restrictions	recommended even if	(Asymptomatic)	(Asymptomatic)	(Asymptomatic)	(Asymptomatic)
	vaccinating HCW		>/2 nours after	Get a dose of MMR	Get a dose of MINIK	Draw blood for	Get a dose of MMR.
	born before 1957		within 72 hours	since exposure $^2$ . In		then give a dose of	drawing blood for
	with two doses of		preferred) Preschool	should not be given if		MMR	serum IgG titer
	MMR. <sup>10</sup>		aged children with	longer than 6 days		WINK.	serum 150 titer.
			one dose are	since exposure.			
			considered immune.8	1			
Symptom Watch:	Yes-self monitor <sup>6</sup>	Yes-self monitor <sup>6</sup>	Yes-self monitor <sup>6</sup>	Yes	Yes-self monitor <sup>6</sup>	Yes	Yes-self monitor <sup>6</sup>
	Discuss exposure,	Discuss exposure,	Discuss exposure,	Discuss exposure,	Discuss exposure,	Discuss exposure,	Discuss exposure,
	symptoms, and	symptoms, and	symptoms <sup>3,5</sup> and	symptoms <sup>3,5</sup> and	symptoms and	symptoms <sup>3,5</sup> , and	symptoms and
	symptom watch	symptom watch	symptom watch	symptom watch	symptom watch	symptom watch	symptom watch
	dava after avnosura)	dava after avnosura)	timetrames. (for 21	dava after avposure)	dava after exposure)	timeframes. (for 21	dava after avposure)
	Explain what to do if	Explain what to do if	Explain what to do if	Explain what to do if			
	symptoms: i.e. stay	symptoms: i.e. stay	symptoms: i.e. stay	symptoms: i.e. stay	symptoms: i.e. stay	symptoms: i.e. stay	symptoms: i.e. stay
	home. Call PH/HC	home. Call PH/HC	home Call PH/HC	home. Call PH/HC	home. Call PH/HC	home Call PH/HC	home. Call PH/HC
	provider before going	provider before going	provider before going	provider before going	provider before going	provider before going	provider before going
	to HCF; active daily	to HCF; active daily	to HCF; active daily	to HCF;	to HCF;	to HCF; Consider	to HCF.
	monitoring by LHD	monitoring by LHD	monitoring by LHD	Consider active daily	active daily	active daily	
	not necessary.	not necessary.	not necessary.	monitoring by LHD. <sup>7</sup>	monitoring by LHD	monitoring by LHD7	
					not necessary.	unless determined to	
						be immune.	
Exclusion:	None unless	None unless	None unless	Yes!	None unless	Yes: with exceptions	None unless
	symptoms develop.	symptoms develop.	symptoms develop.	Quarantine <sup>+</sup> at nome	symptoms develop	Stay nome from day	symptoms develop
			HCW with one dose	visitors and	symptomatic	7 (uay 5 101 HC W)	symptomatic
	Exclusion of HCW in		of MMR who have a	avoidance of all	between day 7	titer results available.	between day 7
	this group not		measles exposure	public settings from	through day 21 after	If titer positive: no	through days 21 after
	required.		should receive 2nd	day 7 - day 21 (day	exposure, isolate <sup>4</sup> and	further restrictions	exposure, isolate <sup>4</sup> and
	1		dose and can return	5-21 for HCW) after	test for measles if	and no MMR needed.	test for measles if
			to work <sup>&amp;</sup>	exposure if no MMR	rash develops.	If titer negative or not	rash develops.
				given within 72 hrs.		done:	If titer positive: no
				Those given Ig still		Quarantine at home <sup>4</sup>	further restrictions.
				need isolated. HCW		from day 7 through	
				with no prior doses		day 21 after	
				are excluded until 21		exposure. (days 5-21	
				regardless of PEP		IOT HCW)	

## **Measles Contact Management Algorithm**

e Identified close contacts (names known) that can be monitored daily and who have had a specific measles exposure identified.

#Public callers are members of the public who may have been exposed to measles because of being in the same place/time as the infectious measles case but who are not named close contacts. This excludes other members of the general public (who should be recommended to follow CDC vaccination schedules and get up to date on vaccines).

&Health Care Workers (HCW) with one dose of MMR who have a definite or possible measles exposure (i.e. who are named close contacts or public callers) can remain at work (no exclusion) but should receive a 2<sup>nd</sup> dose of MMR as soon as possible. Titers for HCWs are not usually the best use of time and resources.

\*Vaccination and IG recommendations (such as recommended timing between MMR doses, vaccination of infants <1 year, and circumstances under which to give IG), may vary between local health jurisdictions depending on outbreak circumstances in each locale.

Indications for IG include: Age <1 year, pregnancy, immunosuppression.

2If MMR given >72 hours after last exposure for close contacts with 0 previous doses contacts must be monitored for the possibility of adverse event (fever and/or rash) after first MMR. Vaccine-associated fever/rash, if they occur, typically develop ~2 weeks after vaccination, mimicking the incubation and symptoms of the measles virus. MMR given >72 hours after last exposure is not effective prophylaxis. If measles-like rash illness develops in a close contact that received MMR, genotyping at CDC will need to occur to determine whether illness is caused by wild type or vaccine type measles exposure.

3Rash and fever rates after MMR refer to adverse events after the first dose; fever and rash are less common after the second dose.

4Quarantine and isolation are at the discretion of each LHD jurisdiction and are typically voluntary, but under some circumstances quarantine/isolation may be legally mandated or enforced, as per LHD discretion and determination. <u>Illinois Administrative Code for Measles</u>

5Adverse event a possibility 5-12 days after MMR received is: 5% get rash and 15% get fever

6Self-monitoring is defined as evaluation of one's own health to determine if they have any measles-like symptoms.

7Active daily monitoring by LHD includes calling contacts daily or relying on the contact to report symptoms daily into a monitoring system such as RedCap.

8Preschool aged children age appropriately vaccinated with 1 dose of MMR are considered presumptively immune, however, a 2<sup>nd</sup> dose can be considered, especially when there is ongoing transmission potential, as long as 28 days have passed since the last dose.

9Unknown is those that do not know if they've been vaccinated or those that think they have but have no proof.

10Although birth before 1957 generally is considered acceptable evidence of measles, mumps, and rubella immunity, 2 doses of MMR vaccine should be considered for unvaccinated HCW born before 1957 who do not have laboratory evidence of disease or immunity to measles and/or mumps. For HCW who do not have evidence of immunity, two doses of MMR are recommended during an outbreak.

HCF= Health care facility/facilities HCW= Health care worker(s) LHD= Local health department

\*\*\*NOTE: This is a supplemental document to assist LHDs with contact management. This should not replace all other guidance; please refer to the IDPH Measles Disease Management and Investigation Guidelines and the CDC Manual of Vaccine-Preventable Diseases for more detailed information. Both documents are on the IDPH webportal measles page.