<u>HANSEN'S DISEASE – LEPROSY</u>

NON-IMMEDIATE NOTIFICATION

EPIDEMIOLOGY PROGRAM

Event Name:	LEP				
Event Time Period:	Lifelong immunity or as described in the position statement, to be reviewed on a case by case basis				
Clinical Description: CSTE 2024 24-ID-05	Leprosy (Hansen's disease) is a highly variable disease. The spectrum of disease ranges from a single macule or plaque on the skin or single nerve thickening to diffuse involvement of skin, multiple nerves, and internal organs. Clinical presentation may change depending on the immune status of the affected individual.				
	Clinical Criteria				
	A clinically compatible illness characterized by: • Any of the following skin lesions:				
	 an ill-defined hypopigmented or erythematous macule or patch a few well-demarcated, hypopigmented, or erythematous skin lesions with reduced sensation 				
	 multiple diffuse erythematous papules and nodules on arms and legs, sparing the torso an infiltration of skin, progressing to thickened skin, possibly with reduced sensation diffuse infiltration of the skin and neuropathy (e.g., "glove and stocking") (representing diffuse leprosy) 				
	 The absence of skin lesions and thickening of a peripheral nerve trunk with pain or tenderness of the nerve (representing primary neural leprosy). 				
Epidemiologic Linkage Criteria: CSTE 2024 24-ID-05	 Prolonged close contact with an untreated person with new or recurring leprosy, OR Residency or repeated travel in a region with higher endemicity (prevalence >1 case per 10,000 population or new case detection rate ≥ 50 per million population per year) for leprosy, OR Prolonged or frequent, direct contact* with armadillos, especially nine-banded armadillos, or soil in the environment in which they live. 				

MDPH Case Classification Manual Hansen's Disease (Leprosy)

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CSTE Event Classification: CSTE 2024 24-ID-05	Confirmed	 Meets clinical criteria AND confirmatory laboratory evidence of: Detection of acid-fast bacilli in a nerve by the Fite-Faraco method, OR Detection of acid-fast bacilli in skin by the Fite-Faraco method, without growth of mycobacteria on culture** (if done), OR 			
		• Detection of <i>M. leprae</i> or <i>M. lepromatosis</i> in skin or a nerve by a nucleic acid detection test***			
	Probable	Meets clinical criteria for primary neural leprosy AND meets epidemiologic linkage criteria.			
	Suspect	Meets clinical criteria for a clinically compatible illness with skin lesions AND meets epidemiologic linkage criteria OR			
		Meets clinical criteria for a clinically compatible illness with skin lesions AND meets supportive laboratory evidence of:			
		Detection of non-sarcoid non-caseating granuloma with peripheral nerve involvement, without growth of mycobacteria on culture** (if done)			
Massachusetts Event Classification (2024):	Follows CDC event classification				

^{*}Prolonged or frequent direct contact refers to activities such as raising, maintaining, butchering, hunting, field dressing, or consuming armadillos. It does not refer to brief, cursory, or sporadic touching such as might occur with a visitor to a petting zoo.

^{**} If acid-fast bacilli are detected in skin only, mycobacterial culture negativity is highly recommended to rule out infection with mycobacteria other than those in the M. leprae complex. To rule out M. haemophilum, hemin or iron-citrate containing medium would be needed. To rule out M. xenopi or M. marinum, incubation at 42 and 30 degrees centigrade, respectively, would be needed.

^{***} Note that a negative nucleic acid test on a tissue specimen does not rule out Mycobacterium leprae or Mycobacterium lepromatosis as the cause of illness.

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry			
Laboratory report OR	PCR or other	Skin, dermal nerve,	Mycobacterium	Yes	New event			
Boston Reporting Card	NAA tests	biopsy of	leprae		SUSPECT			
			OR	No	Same event			
			Mycobacterium					
			lepromatosis					
Select:	Microorganism: PrId: Pt: Islt: Nom: Mycobacterial subtyping							
Laboratory report OR	Fite stain	Skin, dermal nerve,	Acid-fast bacilli	Yes	New event			
Boston Reporting Card		piopsy of			SUSPECT			
		lepromatous lesion		No	Same event			
Select:	Microscopy: PrId: Pt: xxx: Nom: xxx stain							
Laboratory report OR	Fite stain	Skin, dermal nerve,	Acid-fast bacilli	Yes	New event			
Boston Reporting Card		biopsy of			SUSPECT			
		lepromatous lesion		No	Same event			
Select:	Microscopic observation: PrId: Pt: Tiss: Nom: Fite-Faraco stain							