**Nontuberculous Mycobacterium Infections Associated with Heater-Cooler Devices Used During Cardiac Surgery**

**Proposed Case Description for Tracking of Cases**

**Case description**: Any invasive NTM infection following cardiac surgery with exposure to a heater-cooler device 2 weeks to 4 years prior to onset of symptoms (time between exposure and diagnosis could be longer and there is no recommended maximum length). An invasive NTM infection refers to an NTM-positive specimen from:

* A normally sterile body site (such as blood, bone marrow, bone, spinal fluid, abdominal or pleural fluid), or
* Skin, soft tissue, or drainage from wound or abscess, or
* Lymph nodes

Specimens from pulmonary sites (i.e. bronchoalveolar lavage or sputum) are excluded.

**Data Elements:**

1. Demographics
	1. Current age
	2. Sex
	3. County and state of residence
2. Diagnosis
	1. Type/location of NTM-positive specimen
	2. NTM species
	3. Date of positive culture
	4. Date of symptom onset
3. Exposure history
	1. Date of surgery of heater-cooler device exposure
	2. Surgical procedure
	3. Hospital where surgery performed
	4. Heater-cooler device make/model/year of manufacture
	5. Prosthetic device implanted during surgery (Y/N)
	6. Risk mitigation strategies utilized in this hospital (Y/N)
		1. If Yes, specify: (i.e. heater-cooler device moved outside operating room, exhaust channeled to outside operating room, etc.)
	7. Heater-cooler device has tested positive for NTM in this hospital (Y/N/have not tested)
4. Outcome
	1. Death (Y/N)