Histopathologic examination of myocardial tissue (autopsy or endomyocardial biopsy) showed myocardial inflammation

- No inflammation seen or not done or results unknown

- Elevated myocardial biomarkers (Troponin T and Troponin I) AND Evidence of focal or diffuse depressed left ventricular function of indeterminate age in ≥1 imaging study:
  - Abnormal cardiac magnetic resonance (cMR)¹
  - Abnormalities in echocardiogram²

- ≥1 Cardiac presentation ⁴ AND ≥1 Non-specific presentation ⁵
  OR ≥2 non-specific symptoms in infant/young child ⁶
  OR Alternative etiology for symptoms?

- Elevated myocardial biomarkers (Troponin T/I) OR (CK myocardial band) OR Echocardiogram abnormalities² OR Electrocardiogram abnormalities³

- ≥1 lab marker of inflammation (elevated CRP (C-Reactive Protein), ESR (Erythrocyte sedimentation rate) or D-Dimer OR Nonspecific electrocardiogram abnormalities

- Level 5: NOT a case of Myocarditis

Level 1 Myocarditis (Definitive Case)

Level 2 Myocarditis (Probable case)

Level 3 Myocarditis (Possible Case)

Level 4 is a reported event of myocarditis with insufficient evidence to meet level 1,2 or 3 of the case definition

¹ cMR Abnormalities:
- Patchy edema on T2 weighted images
- Late gadolinium enhancement on T1 weighted images with increased enhancement ratio between myocardial skeletal muscle involving ≥1 non-ischemic regional distribution with recovery

² Echocardiogram abnormalities:
- New left or right ventricular function abnormalities including: segmental wall motion abnormalities; decreased ejection fraction (EF <55% for ≤54 yrs; or <50% for >55 yrs); global systolic or diastolic function depression/abnormality;
- Ventricular dilation or wall thickness change
- Pericardial effusion
- Intracavitary thrombi

³ Electrocardiogram abnormalities:
- ST-segment or T-wave abnormalities (elevation or inversion)
- Paroxysmal or sustained atrial or ventricular arrhythmias
- AV nodal conduction delays or intraventricular conduction defects

⁴ Cardiac symptoms:
- Acute chest pain or pressure
- Palpitations
- Dyspnea after exercise or lying down
- Diaphoresis
- Sudden death

⁵ Non-specific symptoms:
- Fatigue
- Abdominal pain
- Dizziness / syncope
- Edema
- Cough

⁶ Infant/child non-specific symptoms:
- Irritability
- Vomiting
- Poor feeding
- Tachypnea
- Lethargy