



## Annual Mosquito-Borne Viral Encephalitides Report REPORT DESCRIPTION

### **PURPOSE/DESCRIPTION:**

The Annual Mosquito-Borne Viral Encephalitides Report provides information for cases of encephalitis diagnosed during the last 10 years. This report presents the total cases of mosquito-borne viral encephalitis, by calendar year, and also provides detail by Service, for active component, Reserve/Guard and other beneficiaries.

**FREQUENCY:** The Annual Mosquito-Borne Viral Encephalitides Report is released in April of each year.

**DATA SOURCES:** DMSS (Defense Medical Surveillance System) reportable events, inpatient and outpatient encounter data.

### **CASE DEFINITIONS & CAVEATS:**

1. **Case Definition:** Mosquito-borne viral encephalitis cases are those individuals with an ICD-9 code indicative of mosquito-borne viral encephalitides in any diagnostic position. Case definition includes 1 inpatient encounter, 1 reportable event, or 2 outpatient visits irrespective of data source for all conditions other than Japanese Encephalitis (JE). Because of miscoding associated with administration of the JE vaccine, 5 outpatient visits (irrespective of data source) within a 180 day period are required to be considered a case.
2. **Inclusion Criteria:** Based on the Tri-Service Reportable Event Guidelines and Case Definitions (June 2009), an ICD-9 code indicative of mosquito-borne viral encephalitis includes: 062.x and encompasses Japanese, Western Equine, Eastern Equine, St. Louis, Australian, California, and other specified mosquito-borne viral encephalitides.
3. **Exclusion Criteria:** JE cases are excluded if there is any indicator that there was a JE vaccination (CVX code: 39, 134), adverse event (ICD-9 code: E949, E949.6, E949.9), vaccine poisoning (ICD-9 code: 979, 979.6, 979.9) or need for prophylactic vaccination (ICD-9 code: V04, V04.8, V04.89, V05, V05.0, V05.1).
4. **Incidence:** A lifetime incidence rule applies and an individual may be counted as a case only once during the 10-year surveillance period.
5. **Definitions:**
  - “MHS Beneficiaries” includes dependents and retirees of the Military Health System (MHS).
  - “Unknown” cohort lacks information on FMP, service, or component; thus these individuals could not be assigned elsewhere. This cohort may include civilians, contractors, or foreign nationals, and does not factor into MHS total counts.

6. Clarifications:

- Counts represent unique individuals from any data source.
- Outpatient visits must be within 60 days of each other for diagnoses other than Japanese Encephalitis.
- This report does not include dengue, yellow fever, West Nile virus, tick-borne viral encephalitides or other arthropod-borne hemorrhagic fevers.

**Mosquito-Borne Viral Encephalitides in Active Component, Reserve/Guard, and Other Beneficiaries from 2002-2011**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TOTAL
	Total Count										
<b>Army</b>	-	1	1	-	-	1	1	-	-	-	4
Active Component	-	-	1	-	-	-	1	-	-	-	3
Reserve / Guard	-	1	-	-	-	-	-	-	-	-	1
<b>Navy</b>	1	1	1	1	-	1	1	1	-	-	7
Active Component	1	1	1	1	-	1	1	-	-	-	6
Reserve / Guard	-	-	-	-	-	-	-	1	-	-	1
<b>Marine Corps</b>	1	-	-	1	-	-	-	-	-	1	3
Active Component	1	-	-	1	-	-	-	-	-	-	2
Reserve / Guard	-	-	-	-	-	-	-	-	-	1	1
<b>Air Force</b>	-	3	1	1	-	-	-	-	-	-	5
Active Component	-	3	1	1	-	-	-	-	-	-	5
Reserve / Guard	-	-	-	-	-	-	-	-	-	-	-
<b>Coast Guard</b>	-	-	-	-	-	-	-	-	-	-	-
Active Component	-	-	-	-	-	-	-	-	-	-	-
Reserve / Guard	-	-	-	-	-	-	-	-	-	-	-
<b>MHS Overall</b>	13	17	19	10	7	20	12	8	11	10	127
Active Component	2	4	3	3	-	2	2	-	-	-	16
Reserve / Guard	-	1	-	-	-	-	-	1	-	1	3
MHS beneficiaries*	11	12	11	5	6	15	5	5	6	4	80
<b>Unknown**</b>	-	-	5	2	1	3	5	2	5	5	28

Mosquito-borne viral encephalitides includes: Japanese, Western Equine, Eastern Equine, St. Louis, Australian, California and other specified mosquito-borne viral encephalitides, but excludes dengue, yellow fever and West Nile virus.

Case of Mosquito-Borne Viral Encephalitis includes ICD-9 of 062.x in any diagnostic position. Case definition includes 1 inpatient encounter, 1 reportable event, or 2 outpatient encounters (except Japanese Encephalitis).

Counts represent unique individuals from any data source, with a lifetime incidence rule. Outpatient encounters must be within 60 days of each other (except Japanese Encephalitis (JE)).

Because of miscoding associated with administration of the JE vaccine, 5 outpatient visits within a 180-day period (with no indication of vaccine administration or adverse event) are required to be considered a JE case.

\*Includes MHS dependents and retirees

\*\*No information on FMP, service or component and may include civilians, contractors and foreign nationals. Does not factor into MHS total #'s

Data Sources: Defense Medical Surveillance System (DMSS), as of 03-MAY-2012

Prepared by Armed Forces Health Surveillance Center (AFHSC), as of 03-MAY-2012