

ANNUAL SUMMARY OF NOTIFIABLE DISEASES GUAM – 2005

THE YEAR IN REVIEW

CHOLERA

On October 19, 2005, a 29-year-old Chuukese male resident of Guam began experiencing leg and finger cramping. A few hours later he developed severe abdominal cramps and, when his symptoms worsened, and he sought care at the Guam Memorial Hospital Authority Emergency Department (GMHA-ED). A stool sample was collected for culture and *Vibrio cholerae* was identified. He was admitted to the ICU and treated with ceftriaxone 2gm IV for 5 days, with good clinical response. The patient lives with ten other people and reported no off-island travel in the last 10 years. He had caught some reef fish at a local beach on October 15. On October 18, he ate some of the fish (pan fried). He consumed some of the fish again the following day for lunch. Other family members consumed the fish as well, including an uncle who was also hospitalized, but no leftover fish was available for testing.

On the afternoon of October 26, 2005, a 32-year-old Chuukese male resident of Guam began experiencing vomiting, abdominal cramps, and diarrhea. The next morning he presented at the GMHA-ED. He was questioned regarding food history for the few days prior to his illness and reported that, as was his habit, he had not eaten any breakfast during those days but had eaten at a fast food restaurant for lunch. These meals had included milkfish soup, squid soup, and pork spareribs soup. He did not remember what he had for dinner in the days before illness. He did, however, report eating fish from a local fish market on the evening of his illness. After a stool sample was collected for culture, he was treated with IV fluids and antibiotics (ciprofloxacin 500 mg po x 1 and ceftriaxone 1 gm IV x 1) and released the same day. The patient lives with his wife and five children, none of whom reported similar symptoms. He had traveled to Chuuk 2 months earlier to attend a funeral but reported he did not handle the body or eat any foods prepared or served at the funeral.

Both these patients live in the northern Guam village of Dededo, approximately 2 miles apart, in homes that receive drinking water from the government deep-well water supply. The patients are related, but reportedly had only brief contact approximately 2 weeks before illness onset, and did not share food, beverages, or bathroom facilities.

On the evening of December 23, 2005, a 26-year-old Chuukese female began experiencing nausea, abdominal cramps, and diarrhea. On December 25 she also experienced bouts of vomiting. She finally sought medical treatment at the GMHA-ED on December 26 and was treated with 2 liters of normal saline IV. She was not given antibiotics or admitted to hospital but a stool specimen was collected. This patient lives in the central Guam village of Mangilao and was not acquainted with the first 2 patients. Four days prior to the onset of her illness she had purchased tuna at a fisherman's coop and prepared it as a soup for breakfast. On December 22 she had purchased shrimp at a food store and cooked the shrimp with coconut milk.

Specimens from these patients were initially examined by the Bacteriology Section, Guam Memorial Hospital Authority Medical Laboratory. *V. cholerae* O1 was isolated from the stool of the first patient, from the stool and urine of the second patient, and from the stool of the third patient. Identification of these isolates was confirmed by the Hawaii State Department of Health and then referred to CDC where they were further identified as toxigenic *V. cholerae* O1, serotype Ogawa, biotype El Tor. All isolates were resistant to furazolidone. The pulsed field gel electrophoresis (PFGE) patterns of the isolates from the first two patients were indistinguishable. The PFGE pattern of the third patient did not match

either of the isolates from the first two patients. Comparison of these isolates with previous isolates collected in Chuuk State demonstrated multiple band differences with two enzymes. It seems probable, therefore, that these cases represent at least 2 separate introductions of cholera to Guam and that their origins can not be determined. No "original" food specimens were available for testing. All environmental specimens collected from patient residences and "follow-up" fish specimens collected from the fish markets which the cases had patronized were negative for common pathogens including *V. cholerae*.

In November, 2005, an additional isolate identified as *V. cholerae*, non-O1, non-0139 was cultured from the stool of a 47-year-old Chuukese male treated by the GMHA-ED on an outpatient basis for abdominal cramps. Patient denied knowing any of the O1 *V. cholerae* patients but lives in the same general area as the first 2 cases.

FOOD POISONING

In January 11 students attending a public elementary school became ill with symptoms consistent with staphylococcal intoxication. One of 1 patient samples (vomitus), 6 of 18 food handler nasal swabs, and 6 of 7 food specimens collected during the investigation were positive for *Staphylococcus aureus* bacteria. The patient isolate, all food isolates, and 4 of 6 food handler isolates were resistant to the antibiotic methicillin (MRSA). The food had been prepared at a central location and transported to the school where it was served; it is theorized that enough time elapsed for the contaminating bacteria to manufacture sufficient toxin to cause illnesses. After food handler refresher training and some modification to facilities and procedures, no additional incidents occurred during the balance of the year.

LEPTOSPIROSIS

In May a 25-year-old female biologist employed by the U.S. Fish and Wildlife Service developed leptospirosis. She had been conducting field work in the Fonte River valley.

IMPORTED DISEASES

Communicable diseases apparently contracted in other areas but first diagnosed on Guam in 2005 included 1 case typhoid fever contracted in the Philippines.

ANNUAL SUMMARY OF NOTIFIABLE DISEASE REPORTS BY MONTH REPORTED, GUAM - 2005

DISEASE	MONTH												
	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AIDS	3	0	0	0	0	0	0	0	0	0	1	2	0
Campylobacteriosis	16	1	1	1	1	1	0	3	5	1	1	1	0
Chickenpox	445	65	104	96	46	35	23	6	4	3	18	35	10
Chlamydia	859	77	67	64	64	53	85	55	102	67	88	92	45
Cholera O1 El Tor Ogawa	3	0	0	0	0	0	0	0	0	0	2	0	1
<i>Clostridium difficile</i>	20	3	1	3	2	1	3	1	2	1	0	3	0
Conjunctivitis	240	18	44	26	18	24	28	15	13	6	18	19	11
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish poisoning (Ciguatera)	4	0	1	1	0	0	0	0	2	0	0	0	0
Fish poisoning (Scombroid)	5	0	0	0	0	3	1	0	0	0	0	1	0
Food Poisoning	50	12	0	0	1	10	7	9	2	1	1	7	0
Giardiasis	11	0	0	1	2	0	1	2	5	0	0	0	0
Gonorrhea	111	11	4	9	8	8	16	4	12	4	12	12	11
Hansen's disease	2	0	0	0	0	1	0	1	0	0	0	0	0
Hepatitis A	2	0	0	0	0	1	1	0	0	0	0	0	0
Hepatitis B	18	3	4	5	2	1	1	2	0	0	0	0	0
Hepatitis C	8	1	1	1	0	1	2	0	1	0	0	1	0
Herpes simplex, Type 2	14	0	0	0	0	4	3	4	1	0	0	0	2
HIV	7	0	0	2	0	0	0	1	1	1	2	0	0
HPV	96	0	2	14	0	7	5	16	17	0	11	14	10
Influenza and Flu syndrome	27	2	5	4	1	2	1	0	5	1	2	2	2
Leptospirosis	1	0	0	0	0	1	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis, aseptic	4	0	0	0	0	0	0	0	0	0	2	2	0
Meningitis, other	4	0	0	0	0	0	0	0	0	0	2	1	1
Meningococcal disease	1	0	0	0	0	0	1	0	0	0	0	0	0
MRSA	262	15	19	22	8	13	36	25	25	15	24	31	29
Mumps	3	0	0	0	3	0	0	0	0	0	0	0	0
Pertussis	2	0	0	0	0	0	2	0	0	0	0	0	0
Rheumatic fever (active)	6	1	0	0	0	1	0	0	3	0	0	1	0
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	46	4	2	3	3	3	7	5	3	0	4	10	2
Scabies	45	4	1	2	11	4	4	4	3	1	4	4	3
Scarlet Fever	13	0	0	4	3	1	2	2	0	0	0	0	1
Shigellosis	20	5	0	0	2	2	0	1	2	4	0	4	0
Strep disease, Invasive	4	1	0	1	0	1	1	0	0	0	0	0	0
Streptococcal sore throat	567	27	28	55	26	45	39	38	76	23	38	110	62
Syphilis, Infectious (1° or 2°)	3	1	0	1	1	0	0	0	0	0	0	0	0
Syphilis, Latent	15	1	0	1	4	2	1	3	0	1	1	0	1
TB, Pulmonary	63	5	6	5	3	5	0	5	6	8	7	7	6
TB, Extra-pulmonary	10	1	1	0	1	0	0	2	2	0	0	3	0
Typhoid fever	1*	0	0	0	0	1*	0	0	0	0	0	0	0
Vancomycin resis. Enterococcus	17	3	1	5	0	0	1	0	0	3	1	0	3
<i>Vibrio cholerae</i> Non-O1	1	0	0	0	0	0	0	0	0	0	0	1	0
<i>Vibrio parahaemolyticus</i>	3	0	1	0	0	0	0	0	0	0	0	1	1

* = Disease contracted off-island

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ANNUAL SUMMARY OF NOTIFIABLE DISEASE REPORTS BY AGE OF PATIENT, GUAM – 2005

DISEASE	AGE												
	TOTAL	< 1	1 - 4	5 - 9	10-14	15-19	20-24	25-29	30-39	40-49	50-64	65+	UNK
AIDS	3	0	0	0	0	0	0	1	0	0	2	0	0
Campylobacteriosis	16	4	6	0	0	0	1	0	1	1	1	0	2
Chickenpox	445	22	61	275	63	7	8	1	6	1	1	0	0
Chlamydia	859	5	1	3	9	222	286	142	134	32	13	0	12
Cholera O1 El Tor Ogawa	3	0	0	0	0	0	0	2	1	0	0	0	0
<i>Clostridium difficile</i>	20	2	1	0	0	0	0	1	0	2	4	10	0
Conjunctivitis	240	22	51	46	34	15	10	7	25	13	6	3	8
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish poisoning (Ciguatera)	4	0	0	0	0	1	1	0	0	0	0	0	2
Fish poisoning (Scombroid)	5	0	0	1	0	0	0	0	1	1	2	0	0
Food poisoning, other	50	0	10	12	14	2	0	3	6	0	1	1	1
Giardiasis	11	1	6	3	0	0	0	0	0	0	1	0	0
Gonorrhea	111	1	0	0	2	13	28	26	23	14	3	1	0
Hansen's disease	2	0	0	0	0	0	0	0	1	0	1	0	0
Hepatitis A	3	0	0	0	0	0	0	1	0	0	1	0	0
Hepatitis B	18	0	0	0	2	1	3	0	4	3	4	0	1
Hepatitis C	8	0	0	0	0	0	0	1	1	2	4	0	0
Herpes simplex. Type 2	14	0	0	0	0	0	4	1	6	2	1	0	0
HIV	7	0	0	0	0	2	2	1	0	1	1	0	0
HPV	96	0	1	0	0	4	57	20	6	5	2	0	1
Influenza and Flu Syndrome	27	4	4	4	4	2	2	0	2	3	2	0	0
Leptospirosis	1	0	0	0	0	0	0	1	0	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis, aseptic	4	1	0	0	1	0	0	1	1	0	0	0	0
Meningococcal disease	1	0	0	0	0	0	0	0	1	0	0	0	0
Meningitis, other bacterial	4	2	0	0	1	0	0	0	0	0	1	0	0
MRSA	262	9	12	6	8	12	20	22	33	33	41	61	5
Mumps	3	0	0	1	0	0	0	0	1	1	0	0	0
Pertussis	0	0	0	0	0	0	0	0	0	1	0	0	1
Rheumatic fever (active)	6	0	1	2	2	1	0	0	0	0	0	0	0
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	46	19	12	1	0	0	4	0	1	1	4	0	4
Scabies	45	3	9	17	3	2	0	6	0	2	2	0	1
Scarlet Fever	13	0	5	6	1	0	0	0	0	1	0	0	0
Shigellosis	20	0	5	5	4	0	0	0	3	2	0	1	0
Strep disease, invasive	4	1	0	0	0	0	0	0	1	1	0	1	0
Streptococcal sore throat	567	3	38	123	104	37	60	37	78	52	20	8	7
Syphilis, Infectious (1° or 2°)	3	0	0	0	0	0	1	1	2	0	0	0	0
Syphilis, Latent	15	0	0	0	0	1	1	1	2	4	4	2	0
Toxoplasmosis	0	0	0	0	0	0	0	0	0	0	0	0	0
TB, Pulmonary	63	2	4	2	0	1	7	3	9	10	7	15	3
TB, Extra-pulmonary	10	1	0	0	0	0	0	2	3	2	2	0	0
Typhoid fever	1	0	0	0	0	0	0	0	0	1	0	0	0
Vancomycin resistant <i>Enterococcus</i>	17	0	0	0	0	0	0	0	1	2	5	9	0
<i>Vibrio cholerae</i> Non-O1	1	0	0	0	0	0	0	0	0	1	0	0	0
<i>Vibrio parahaemolyticus</i>	3	0	0	0	0	1	0	0	1	1	0	0	0

ANNUAL SUMMARY OF NOTIFIABLE DISEASE REPORTS BY ETHNICITY OF PATIENT, GUAM - 2005

ETHNICITY

DISEASE	TOTAL	Chamorro	Filipino	White	Micrones.	Black	Asian	Other	Unknown
AIDS	3	2	0	1	0	0	0	0	0
Campylobacteriosis	16	4	0	3	6	0	0	0	3
Chickenpox	445	212	58	4	97	1	9	0	64
Chlamydia	856	309	97	41	156	37	28	12	176
Cholera (O1 El Tor Ogawa)	3	0	0	0	3	0	0	0	0
<i>Clostridium difficile</i>	20	14	2	0	2	0	1	0	1
Conjunctivitis	238	74	19	18	21	3	3	0	100
Dengue fever	0	0	0	0	0	0	0	0	0
Encephalitis	0	0	0	0	0	0	0	0	0
Fish poisoning (Scombroid)	5	2	2	0	0	0	0	0	1
Food poisoning	50	34	2	0	2	1	1	0	10
Giardiasis	11	7	2	0	0	0	0	0	2
Gonorrhea	111	45	16	4	21	4	5	1	15
Hansen's disease	2	1	0	0	1	0	0	0	0
Hepatitis A	2	0	0	0	0	1	0	0	1
Hepatitis B	17	2	6	0	3	0	0	1	5
Hepatitis C	8	5	0	0	0	0	0	0	3
Herpes simplex, Type 2	14	2	3	2	1	0	2	0	4
HIV	7	3	1	2	1	0	0	0	0
HPV	96	0	3	14	2	1	0	1	75
Influenza and Flu syndrome	27	15	2	1	1	0	0	0	8
Leptospirosis	1	0	0	1	0	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0
Meningococcal disease	1	0	0	0	0	0	0	0	1
Meningitis, other bacterial	4	1	0	0	1	0	1	0	1
MRSA	260	129	33	19	26	1	6	2	44
Mononucleosis	0	0	0	0	0	0	0	0	0
Mumps	3	2	0	1	0	0	0	0	0
Pertussis	1	0	0	0	0	0	1	0	0
Rheumatic fever, active	6	2	1	0	1	0	0	0	2
Rubella	0	0	0	0	0	0	0	0	0
Salmonellosis	46	19	6	3	5	0	1	0	12
Scabies	45	7	2	3	26	0	1	0	6
Scarlet Fever	13	4	5	0	2	0	0	0	2
Shigellosis	20	7	2	0	9	0	0	0	2
Strep disease, invasive	4	2	0	0	2	0	0	0	0
Streptococcal sore throat	563	215	56	25	5	5	7	2	248
Syphilis, Infectious (1° or 2°)	3	0	0	0	1	0	1	1	0
Syphilis, Latent	15	3	2	1	4	0	3	0	2
Toxoplasmosis	0	0	0	0	0	0	0	0	0
TB, Pulmonary	63	23	21	0	17	0	2	0	0
TB, Extra-pulmonary	10	4	1	0	5	0	0	0	0
Typhoid Fever	1	0	1	0	0	0	0	0	0
Vancomycin resistant <i>Enterococcus</i>	17	13	4	0	0	0	0	0	0
<i>Vibrio cholerae</i> Non-O1	1	0	0	0	1	0	0	0	0
<i>Vibrio parahaemolyticus</i>	3	0	0	2	0	1	0	0	0

**ANNUAL SUMMARY OF NOTIFIABLE DISEASE REPORTS BY RESIDENCE OF PATIENT,
GUAM – 2005**

DISEASE	TOTAL	Agana Heights	Agat	Asan/Maina	Barrigada	Ch. Pago/Ordot	Dededo	Hagatna	Inarajan	Mangilao	Merizo	Mongmong/T/M	Piti	Santa Rita
AIDS	3	0	0	0	1	0	0	0	0	0	0	0	0	0
Campylobacteriosis	29	0	0	0	1	0	2	0	1	1	0	1	0	1
Chickenpox	445	0	9	0	17	6	180	5	10	22	44	9	0	2
Chlamydia	859	6	40	2	46	19	179	21	11	49	9	18	8	33
<i>Clostridium difficile</i>	20	0	0	0	1	0	4	1	1	1	1	1	0	0
Conjunctivitis	240	1	13	1	13	4	43	20	7	4	3	3	1	30
Encephalitis, viral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish Poisoning (Ciguatera)	4	0	0	0	0	0	0	0	0	1	0	1	0	0
Fish Poisoning (Scombroid)	5	0	0	0	0	1	1	1	0	0	0	0	0	0
Food Poisoning	50	0	2	0	0	0	15	1	0	13	5	0	0	0
Giardiasis	11	0	0	0	0	2	3	0	0	0	0	0	0	1
Gonorrhoea	111	0	2	0	5	0	26	2	3	4	3	3	1	9
Hansen's Disease	2	0	1	0	0	0	0	0	1	0	0	0	0	0
Hepatitis A	2	0	0	0	1	0	0	0	0	0	0	0	0	0
Hepatitis B	18	0	1	0	2	0	6	1	1	0	0	1	0	1
Hepatitis C	8	0	2	0	0	0	0	0	1	0	0	0	1	1
Herpes simplex, Type 2	14	0	3	0	1	0	3	0	1	0	0	0	0	0
HIV	7	0	0	0	0	0	2	0	0	1	0	1	0	0
HPV	96	1	0	1	4	0	2	6	1	1	0	1	3	25
Influenza and Flu Syndrome	27	2	0	0	1	1	11	0	0	4	0	2	1	1
Leptospirosis	1	0	0	0	0	0	1	0	0	0	0	0	0	0
Meningitis, aseptic	4	1	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis, other bacterial	4	0	0	0	0	0	1	0	0	0	0	1	0	0
MRSA	262	1	15	2	24	7	67	13	4	11	5	1	3	8
Mumps	3	0	0	0	0	0	1	0	0	1	0	0	0	0
Pertussis	2	0	0	0	2	0	0	0	0	0	0	0	0	0
Rheumatic fever (active)	6	0	1	1	1	0	1	0	0	0	0	0	0	0
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	46	0	1	0	6	1	10	0	0	5	0	1	0	1
Scabies	45	0	1	0	3	1	19	2	1	0	0	4	0	1
Scarlet Fever	13	1	0	0	1	0	6	1	2	0	0	0	0	1
Shigellosis	20	0	4	0	2	1	5	0	1	1	0	1	0	0
Strep disease, invasive	4	0	0	0	0	0	1	0	0	0	1	1	0	1
Streptococcal sore throat	567	5	19	3	19	6	60	27	5	13	8	3	3	40
Syphilis, Infectious (1° or 2°)	3	0	0	0	0	0	1	0	0	0	0	0	0	0
Syphilis, Latent	15	1	0	2	0	0	4	1	0	1	0	0	0	0
Syphilis, Congenital	1	0	0	0	0	0	1	0	0	0	0	0	0	0
TB, Pulmonary	63	0	4	0	7	2	20	1	2	5	0	0	0	0
TB, Extra-pulmonary	10	0	2	0	2	0	1	0	0	1	0	1	0	0
Typhoid fever	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Vancomycin resis. Enterococcus	17	0	0	0	3	0	4	0	1	1	2	0	0	0
<i>Vibrio cholerae</i> Non-O1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vibrio parahaemolyticus</i>	3	0	0	0	1	0	0	0	0	0	0	0	0	0

**ANNUAL SUMMARY OF NOTIFIABLE DISEASE REPORTS BY RESIDENCE OF PATIENT,
GUAM – 2005, continued**

DISEASE	Sinjana	Talofoto	Tamuning	Umatac	Yigo	Yona	Civilian unknown	Civilian Total	Andersen A.F.B.	Naval Station	Military Unknown	Military Total	Imported Cases	Total cases
AIDS	2	0	0	0	0	0	0	3	0	0	0	0	0	3
Campylobacteriosis	0	0	2	0	2	0	2	14	0	0	2	2	0	16
Chickenpox	10	3	53	0	34	20	21	445	0	0	0	0	0	445
Chlamydia	10	10	72	3	68	23	163	790	34	9	26	69	0	859
<i>Clostridium difficile</i>	2	1	5	0	1	1	0	20	0	0	0	0	0	20
Conjunctivitis	2	10	18	2	29	11	15	230	5	0	5	10	0	240
Encephalitis, viral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish Poisoning (Ciguatera)	0	0	0	0	2	0	0	4	0	0	0	0	0	4
Fish Poisoning (Scombroid)	0	0	2	0	0	0	0	5	0	0	0	0	0	5
Food Poisoning	0	0	5	0	1	3	3	48	1	1	0	2	0	50
Giardiasis	1	0	1	0	1	0	2	11	0	0	0	0	0	11
Gonorrhea	0	0	14	1	12	1	21	110	0	0	1	1	0	111
Hansen's Disease	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Hepatitis A	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Hepatitis B	0	1	1	0	1	0	1	17	1	0	0	1	0	18
Hepatitis C	0	1	1	0	0	0	0	7	0	0	1	1	0	8
Herpes simplex, Type 2	0	0	3	0	0	0	2	13	0	0	1	1	0	14
HIV	1	0	1	0	1	0	0	7	0	0	0	0	0	7
HPV	0	0	5	0	13	0	0	63	2	15	16	33	0	96
Influenza and Flu Syndrome	0	1	2	0	1	0	0	27	0	0	0	0	0	27
Leptospirosis	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Meningitis, aseptic	1	0	1	0	0	0	0	3	0	1	0	1	0	4
Meningococcal disease	0	0	1	0	0	0	0	1	0	0	0	0	0	1
Meningitis, other bacterial	0	0	2	0	0	0	0	4	0	0	0	0	0	4
MRSA	8	2	26	1	25	12	8	243	0	12	7	19	0	262
Mumps	0	0	0	0	0	0	1	3	0	0	0	0	0	3
Pertussis	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Rheumatic fever (active)	1	0	0	0	0	1	0	6	0	0	0	0	0	6
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	0	0	2	0	6	3	5	41	0	2	3	5	0	46
Scabies	0	0	4	0	6	3	0	45	0	0	0	0	0	45
Scarlet Fever	0	0	0	0	1	0	0	13	0	0	0	0	0	13
Shigellosis	0	0	1	0	1	1	2	20	0	0	0	0	0	20
Strep disease, invasive	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Streptococcal sore throat	4	6	36	2	45	6	223	533	0	11	23	34	0	567
Syphilis, Infectious (1° and 2°)	0	0	0	0	0	0	1	2	1	0	0	1	0	3
Syphilis, Latent	0	1	3	0	1	0	1	15	0	0	0	0	0	15
Syphilis, Congenital	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TB, Pulmonary	0	0	5	2	13	1	1	63	0	0	0	0	0	63
TB, Extra-pulmonary	0	0	2	0	0	1	0	10	0	0	0	0	0	10
Typhoid fever	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Vancomycin resis. Enterococcus	1	1	0	0	4	0	0	17	0	0	0	0	0	17
<i>Vibrio cholerae</i> Non-O1	0	0	0	0	1	0	0	1	0	0	0	0	0	1
<i>Vibrio parahaemolyticus</i>	0	0	1	0	1	0	0	3	0	0	0	0	0	3

10-YEAR SUMMARY OF ANNUAL NOTIFIABLE DISEASE REPORTS - GUAM

DISEASE	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AIDS	8	5	8	8	1	9(1*)	4	9	0	3
Amebiasis	1	0	3	5	1	0	0	2	0	0
Campylobacteriosis	23	8	16	15	13	10	18	33	29	16
Chickenpox	283	390	342	210	297	63	68(2*)	153	273	445
Chlamydia	355	394	432	468	498	404(1*)	628	598	803	859
Cholera O1 El Tor	1	0	2	0	4(1*)	0	0	0	0	3
Conjunctivitis	3315	419	320	216	482	159	105	125	171	240
Dengue	0	1*	2*	1*	2*	0	0	1*	1*	0
Fish poisoning (Ciguatera)	12	9	1	7	7	5	5	4	0	4
Fish poisoning (Scombroid)	2	5	2	0	6	3	15	8	7	5
Food poisoning	132	73	35	75	50	24	53(4*)	64	47	50
Giardiasis	6	1	9	23	17	9	7	2	5	11
Gonorrhea	63	45	73	55	57	49(1*)	48	68	125	111
Hansen's disease	0	7	3	1	3	9	5	11	2	2
Hepatitis A	7	2	1	1*	1	2	1	2	1	2
Hepatitis B	1	3	2	4	10	2	1	10	12	18
Hepatitis C	5	3	1	2	3(1*)	0	0	5	9	8
Herpes simplex, Type 2	19	18	17	9	28	27	7	19	29	14
HIV	8	11	16	10	7	28(20*)	4	2	2	7
Influenza and Flu syndrome	248	95	32	137	28	31	43	49	29	27
Legionellosis	1	0	2	0	0	0	0	1	0	0
Leptospirosis	2	1	1	0	4	1	1*	3	7	1
Malaria	0	0	2*	1*	2*	1*	0	1*	0	0
Measles	0	0	0	1*	0	0	9	5	3(1*)	0
Meningitis, Aseptic	3	1	2	1	2	0	2	0	13	4
Meningitis, other bacterial	2	11	0	2	1	0	0	2	5	4
Meningococcal disease	5	3	2	1	2	0	1	0	1	1
MRSA	77	156	145	178(1*)	185(4*)	101	179(2*)	212	215	262
Mumps	10	1	5	3	16	0	0	3	4	3
Pertussis	0	13	1	2(1*)	4	0	3	1	0	2
Rheumatic fever	0	1	0	0	1	2	8	4	9	6
Rubella	0	0	0	0	0	0	0	1	1	0
Salmonellosis	39	35	46	37(1*)	28(1*)	57(1*)	46	44	50	46
Scabies	5	12	40	164	153	87	75	25	7	45
Scarlet Fever	2	4	4	9	18	13	9	13	5	13
Shigellosis	43	74	39	19	46	53	37	41	42	20
Strep disease, invasive	10	1	9	3	8	1	0	0	1	4
Streptococcal Sore Throat	158	108	35	86	533	247(1*)	165	216	202	567
Syphilis, Infectious	0	3	2	1	3	11	6	1	2	3
Syphilis, Congenital	0	0	0	0	0	1	0	2	0	1
Toxoplasmosis	1	0	1	0	0	1	0	1	1	0
TB, Pulmonary	107	95	80	69	53	63(2*)	61	53	45	63
TB, Extra-pulmonary	0	0	4	1	1	0	4	8	11	10
Typhoid Fever	1*	2*	0	0	0	3*	0	0	1	1*
Vancomycin resis. Enterococcus	10	1	9	6	10	1	7	3	9	17
<i>Vibrio cholerae</i> Non-O1	0	0	0	0	2	0	1	0	1	1
<i>Vibrio parahaemolyticus</i>	11	7	22	9	7	4	9	4	6	3

* = contracted "off-island"

GUAM REPORTABLE DISEASE INCIDENCE RATES, 1996 - 2005

DISEASE	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AIDS	5.5	3.4	5.4	5.3	0.7	5.7	2.5	5.5	0.0	1.8
Amebiasis	2.0	0.0	2.0	3.4	0.7	0.0	0.0	1.2	0.0	0.0
Campylobacteriosis	0.0	5.5	10.7	9.9	8.4	6.4	11.3	20.2	17.5	9.5
Chickenpox	95.1	266.5	229.3	138.2	192.1	40.0	42.5	93.9	164.4	264.0
Chlamydia	163.0	269.3	289.6	308.0	322.1	257.7	392.5	365.5	483.5	509.6
Cholera O1 El Tor	0.0	0.0	1.3	0.0	2.6	0.0	0.0	0.0	0.0	1.8
Conjunctivitis	235.6	219.5	214.6	134.2	311.7	100.9	65.6	76.4	103.0	142.4
Dengue	0.0	0.7	1.3	0.7	1.3	0.0	0.0	0.6	0.6	0.0
Filariasis (W. bancrofti)	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Fish poisoning (Ciguatera)	8.3	6.2	0.7	4.6	4.5	3.2	3.1	2.4	0.0	2.4
Fish poisoning (Scombroid)	1.4	3.4	1.3	0.0	3.9	1.9	9.4	4.9	4.2	3.0
Food poisoning	91.1	49.9	23.5	49.4	32.3	15.2	33.1	39.1	28.3	29.7
Giardiasis	4.1	0.7	6.0	15.1	11.0	5.7	4.4	1.2	3.0	6.5
Gonorrhea	43.5	30.8	48.9	35.5	36.9	31.1	30.0	41.6	75.3	65.9
Hansen's disease	0.0	4.8	2.0	0.7	1.9	5.7	3.1	6.7	1.2	1.2
Hepatitis A	4.8	1.4	0.7	0.7	0.7	1.3	0.6	1.2	0.6	1.2
Hepatitis B	0.7	2.1	1.3	2.6	6.5	1.3	0.6	6.1	7.2	10.7
Hepatitis C	3.5	2.1	0.7	1.3	1.9	0.0	0.0	3.1	5.4	4.8
Herpes simplex, Type 2	13.1	12.3	11.4	5.9	18.1	17.1	4.4	11.6	17.5	8.3
HIV	5.5	7.5	10.7	5.3	4.5	17.8	2.5	1.2	1.2	4.2
Influenza and Flu syndrome	171.1	64.9	21.5	90.2	18.1	19.7	26.9	30.0	17.5	16.0
Legionellosis	0.7	0.0	1.3	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Leptospirosis	1.4	1.4	0.7	0.0	2.6	0.6	0.6	1.8	3.6	0.6
Malaria	0.0	0.0	1.3	0.7	1.3	0.6	0.0	0.6	0.0	0.0
Measles	0.0	0.0	0.0	0.7	0.0	0.0	5.6	3.1	1.8	0.0
Meningitis, Aseptic	2.1	0.7	1.3	0.7	1.3	0.0	1.3	0.0	11.4	2.4
Meningitis, Other	1.4	7.5	0.0	1.3	0.7	0.0	DNA	1.2	3.0	2.4
Meningococcal disease	3.5	2.1	1.3	0.7	1.3	0.0	0.0	0.0	0.6	0.6
MRSA	53.1	106.6	97.2	117.1	119.7	64.1	111.9	129.6	129.4	155.4
Mumps	6.9	0.7	3.4	2.0	10.4	0.0	0.0	1.8	2.4	1.8
Pertussis	0.0	8.9	0.7	1.3	2.6	0.0	1.9	0.6	0.0	1.2
Salmonellosis	26.9	23.9	30.8	24.4	18.1	36.2	28.8	26.9	30.1	27.3
Scabies	3.5	8.2	26.8	108.0	99.0	55.2	DNA	15.3	4.2	26.7
Scarlet Fever	1.4	2.7	2.7	5.9	11.6	8.3	5.6	7.9	3.0	7.7
Shigellosis	29.7	50.6	26.1	12.5	29.8	33.6	23.1	25.1	25.3	11.9
Strep disease, Invasive	6.9	0.7	6.0	2.0	5.2	0.6	0.0	0.0	0.6	2.4
Streptococcal Sore Throat	109.0	73.8	23.5	56.5	344.7	156.8	103.1	132.0	121.6	336.4
Syphilis, Infectious	0.0	2.1	1.3	0.7	1.9	7.0	3.8	0.6	1.2	1.8
Toxoplasmosis	2.0	0.0	0.7	0.0	0.0	0.6	0.0	0.7	0.7	0.0
Tuberculosis	73.8	64.9	53.6	43.4	34.3	40.0	40.6	37.3	33.7	43.3
Typhoid Fever	0.7	1.4	0.0	0.0	0.0	1.9	0.2	0.0	0.6	0.6
<i>Vibrio parahaemolyticus</i>	7.6	5.0	14.8	5.9	4.5	2.5	5.6	2.4	3.6	1.8

RATE = New cases per 100,000 population

Influenza/Flu syndrome data from GMHA-ED Log only

GUAM POPULATION¹ - 2005

TOTAL POPULATION (MIDYEAR) 168,564

ETHNICITY	TOTAL	MALE	FEMALE
CHAMORRO	71,108	37,011	34,097
FILIPINO	44,375	22,928	21,447
WHITE	11,354	4,735	6,619
MICRONESIAN	11,972	6,400	5,572
BLACK	1,694	708	986
ASIAN	10,467	5,502	4,965
OTHER	17,594	8,633	8,961

AGE GROUP	TOTAL	MALE	FEMALE
<1	3,186	1,638	1,548
1-4	13,404	6,890	6,514
5-9	16,837	8,832	8,005
10-14	16,105	8,285	7,820
15-19	14,318	7,236	7,082
20-24	12,384	6,245	6,139
25-29	11,894	6,055	5,839
30-39	25,510	13,108	12,402
40-49	22,952	11,875	11,077
50-59	16,204	8,183	8,021
60-64	4,789	2,413	2,376
65-69	4,240	2,018	2,222
70-74	3,029	1,399	1,630
75+	3,712	1,740	1,972
TOTAL	168,564	85,917	82,647

VILLAGES	TOTAL POPULATION	MILITARY BASES	MILITARY POPULATION
Agana Heights	4,291	Naval Hospital	
Agat	6,159		
Asan-Maina	2,275	Nimitz Hill	
Barrigada	9,421		
Chalan Pago-Ordot	6,449		
Dededo	46,800	NICTAMS	
Hagatna	1,196		
Inarajan	3,323		
Mangilao	14,496		
Merizo	2,354		
Mongmong-Toto-Maite	6,365		
Piti	1,814		
Santa Rita	8,170	Naval Station	
Sinajana	3,107		
Talofofo	3,501		
Tamuning	19,612		
Umatac	967		
Yigo	21,204	Andersen Air Force Base	
Yona	7,060		

¹ 2005 Guam population estimates provided by the Office of Planning and Evaluation, Guam Department of Public Health and Social Services.

OFFICIAL GUAM REPORTABLE DISEASE LIST

CLASS I DISEASES

Class I diseases include those with potential for rapid spread or requiring prompt action for effective control and must be reported immediately by phone in addition to usual morbidity card report – do not wait for laboratory confirmation.

Acute flaccid paralysis	Meningococcal disease
*Anthrax	Pertussis
*Botulism	*Plague
Cholera	Poliomyelitis (acute)
Dengue	Rabies (in man or animal)
Diphtheria	Rubella (including congenital)
Encephalitis, viral	SARS
Food or fish poisoning (2 or more related cases)	*Small Pox
*Hemorrhagic fevers (all forms)	*Tularemia
Measles (Rubeola)	Typhoid fever
	Typhus
	Yellow Fever

*Indicates diseases that may be used as bioterrorism agents.

CLASS II DISEASES

Individual cases of Class II diseases may be reported by morbidity report card. Please report unusual outbreaks or apparent epidemics by phone.

AIDS/HIV	Leptospirosis
Amebiasis	Lyme disease
Brucellosis	Lymphogranuloma venereum
Campylobacteriosis	Malaria
Chancroid	Meningitis, aseptic
Chickenpox	Meningitis, bacterial
Chlamydia trachomatis	Mumps
Coccidioidomycosis	Myocarditis
Conjunctivitis, viral or bacterial	Paravovirus B19 (Fifth disease)
Cryptosporidiosis	Rheumatic fever (active) and poststreptococcal glomerulonephritis
Cyclosporiasis	Salmonellosis (non-typhoid)
Eosinophilic meningoencephalitis	Scabies
Enterococcus sp., vancomycin resistant (VRE)	Scarlet fever
Escherichia coli 0157:H7	Shigellosis
Food or Fish poisoning (isolated cases)	Staphylococcus aureus (MRSA or VRSA)
Giardiasis	Streptococcal disease (Group A)
Granuloma inguinale (PRSP)	Streptococcus pneumoniae, penicillin resistant
Haemophilus influenzae, invasive disease	Streptococcal sore throat
Hansen's disease (Leprosy)	Syphilis (including congenital)
Hemolytic-uremic syndrome	Tetanus
Hepatitis A, B, C Δ or unspecified viral	Toxic-shock syndrome
Herpes simplex Type 2	Trichinosis
Human papillomavirus (HPV)	Tuberculosis
Kawasaki syndrome	Vibriosis
Legionellosis	

Telephone reports: Weekdays 8:00 a.m. to 5:00 p.m. • 735-7299 or 735-7143

After hours/Weekends: Emergency Telephone • 888-WARN (9276)

Fax reports (24 hours): 734-1475

Recognizing that no list can include every disease that could possibly pose a threat to the residents of Guam, the Guam Department of Public Health and Social Services encourages the reporting of any additional disease cases with potential for serious public health impact or which may merit epidemiologic investigation.

Mail reports to: TERRITORIAL EPIDEMIOLOGIST, PO Box 2816, Hagatna, GU 96932
 For immediate reporting of CLASS I Diseases, telephone 735-7143 or 735-7299 during working hours, 888-WARN (24 HOURS), or send FAX to 734-2066 or 734-1475.

MORBIDITY REPORT CARD	
Disease: _____	Date: _____
Name: _____	
LAST NAME	FIRST NAME
Occupation: _____	Employer: _____
<input type="checkbox"/> Civilian <input type="checkbox"/> Tourist <input type="checkbox"/> Military <input type="checkbox"/> Military Dependent	
Ethnicity: _____	Sex: _____
Patient number: _____	Age: _____ DOB: _____
Village: _____	Street address: _____
Mailing address: _____	Phone: _____
Clinic: _____	Doctor: _____
MORBIDITY REPORT CARD	
Disease: _____	Date: _____
Name: _____	
LAST NAME	FIRST NAME
Occupation: _____	Employer: _____
<input type="checkbox"/> Civilian <input type="checkbox"/> Tourist <input type="checkbox"/> Military <input type="checkbox"/> Military Dependent	
Ethnicity: _____	Sex: _____
Patient number: _____	Age: _____ DOB: _____
Village: _____	Street address: _____
Mailing address: _____	Phone: _____
Clinic: _____	Doctor: _____