



**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
CENTER FOR HEALTH CARE QUALITY
HEALTHCARE ASSOCIATED INFECTIONS PROGRAM**

**BRIEF REPORT:
HEALTHCARE-ASSOCIATED *CLOSTRIDIUM DIFFICILE*
INFECTIONS IN CALIFORNIA HOSPITALS,
JANUARY 2009 THROUGH MARCH 2010**

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INTRODUCTION

Clostridium difficile (*C. difficile*) is the most common cause of diarrhea in healthcare settings, resulting in increased hospital stays and higher morbidity and mortality rates among patients.^{1, 2} Morbidity due to *C. difficile* infection (CDI) has increased over the past several years due to outbreaks of *C. difficile* strains that are more infectious and virulent;² CDI may now be the most common hospital-onset infection.³ A recent study in a large Canadian hospital found that hospital-onset CDI occurred in one percent of admissions and was associated with a 10 percent risk of in-hospital death.⁴ Costs associated with CDI have been estimated at \$3.2 billion per year in the United States.^{2,5}

The *C. difficile* bacterium is an anaerobic spore-forming toxin-producing bacillus that spreads person-to-person via fecal-oral contact. The spores survive for prolonged periods in the environment and are resistant to many common disinfectants, leading to transmission from contaminated surfaces and airborne spores. Disruption of the normal bacterial flora of the colon, most commonly from administration of antibiotics, allows the growth of *C. difficile*, which is resistant to many antibiotics. The production of toxin can result in watery diarrhea (at least three bowel movements per day for two or more days), fever, loss of appetite, nausea, and abdominal pain and tenderness. Relapses of antibiotic-associated CDI occur in up to 20 percent of cases.^{2,5}

Virtually all patients with hospital-onset CDI receive antibiotics between two weeks and three months prior to infection.⁶ Up to 25 percent of cases of antibiotic-associated diarrhea in healthcare settings are caused by CDI. Additional risk factors for CDI include advanced age, extended hospital stays and gastrointestinal surgery. Although CDI is increasing in pediatric and adult populations, it remains highest in the elderly, aged 65 and older.^{2,5} The prevalence of asymptomatic colonization can be more than 25 percent in acute care patients, increases during hospitalization, and is common in long-term care facility residents. Infants and children less than one-year of age are frequently colonized with *C. difficile* but do not become symptomatic.

BACKGROUND

Mandatory public reporting of hospital-specific infection rates is promoted as a means to improve patient safety.^{7,8} When publicly reporting healthcare-associated infections, the Healthcare Infection Control Practices Advisory Committee (HICPAC) recommended states use established public health surveillance methods including standardized case definitions and adjustment for underlying infection risk.⁹

In 2008, California became one of now 28 states to mandate public reporting of HAIs. General acute care hospitals were mandated to begin surveillance on January 1, 2009, for healthcare-associated infections, including CDI, and report quarterly to the California Department of Public Health (CDPH) all cases of "healthcare-associated" CDI and the total number of inpatient days.¹⁰ The reporting mandate did not distinguish between community-onset and hospital-onset CDI rates. The statute required CDPH to post on its web site by January 1, 2011, "information regarding the incidence rate of healthcare-associated" CDI (including information on the number of inpatient days). In presenting this information, CDPH must "follow a risk adjustment process

that is consistent with Centers for Disease Control and Prevention's (CDC) National Healthcare Safety Network (NHSN), or its successor, and use its definitions, unless the department adopts, by regulation, a fair and equitable risk adjustment process that is consistent with the recommendations of the California Healthcare-Associated Infection (HAI) Advisory Committee." If CDC does not use a public reporting model for specific HAIs, CDPH must base its public reporting of incidence rates on the number of inpatient days for infection reporting.

NHSN has become the national standard for HAI reporting.¹¹ NHSN is a secure, web-based HAI surveillance and reporting system and, although developed for voluntary use, has many surveillance methods, attributes, and protocols that may be applicable to public reporting systems. While the CDPH HAI Advisory Committee recommend the use of NHSN as a reporting system, it was not able to institute this as a requirement until April 2010. In accordance with California's reporting laws, CDI data reported to CDPH from January 1, 2009, through March 31, 2010 (prior to the authorization of NHSN alone) are summarized in this brief report.

METHODS

For the reporting period January 1, 2009, through March 31, 2010, CDPH used a paper-based passive surveillance system for facilities to submit quarterly CDI data on surveillance forms via fax or email. CDPH created a surveillance form specifically for reporting healthcare-associated infections that were included as part of the mandate, although some facilities reported CDI data via NHSN. CDPH did not implement a formal HAI surveillance and reporting system until CDPH established the Healthcare Associated Infections Program in December 2009. Additionally, CDPH did not compile or analyze reported HAI data until 2010.

In August 2010, CDPH conducted a data verification process whereby each hospital was sent its collated CDI data: data submitted on the surveillance forms and/or via NHSN. We aggregated data obtained from NHSN for all inpatient locations by quarter. Facilities were given the opportunity to verify their data or submit corrections, and this data was used to report rates presented in this brief report. Thus, data included here may include data submitted via paper surveillance forms and/or NHSN. We excluded from CDI rate calculation facilities that did not report at least four or five quarters of data, given instability of the rate over a short time frame.

Definitions

For the calendar year 2009, CDPH Licensing and Certification (L&C) Program listed 375 licensed general acute care hospitals representing 420 physical campuses with active acute care beds; 46 licensed hospitals had more than one campus associated with its license. We defined a multi-campus reporting facility as a licensee that reported HAI data combined for two or more jointly operated general acute care campuses (32 licenses comprising 69 campuses). We defined a single-campus reporting facility as an individual general acute care campus whose license may have included: (a) only one general acute care campus (329 licenses comprising 329 campuses), (b) a general acute care campus operating jointly with a non-acute campus (seven licenses comprising seven acute care campuses), or (c) more than one jointly-operated general acute care campus each of which reported infection information separately (seven licenses represented by 15 campuses). We referred to multi-campus reporting facilities by the

business name of the licensee in L&C records except for the licenses involving University of California hospitals, which were described as such. For this report, we used the term reporting facilities, regardless of whether they were a licensed general acute care hospital or a campus of a licensed general acute care hospital reporting separately from the other campuses of that license.

For the reporting period included in this report, facilities may have used either infection-based or laboratory-based surveillance definitions for surveillance and reporting. Infection-based surveillance involves the identification of possible cases, either through identification of patients with compatible signs and symptoms or positive laboratory tests, followed by chart and laboratory review to categorize cases and non-cases. Laboratory-based surveillance involves the identification of patients with positive laboratory tests for CDI followed by application of an algorithm based on timing of test(s). For both types of surveillance, the denominator should be the number of inpatient days from all available inpatient locations except neonatal intensive care units (NICU) and well-baby nurseries.

Calculations

We performed the following calculation on data verified for the reporting period January 1, 2009, through March 31, 2010, for facilities reporting four or five quarters of data. The numerator for the rate was all CDI events. The denominator for the rate was total inpatient days for all available inpatient locations. We calculated the CDI rate per 10,000 inpatient-days as the total number of CDIs divided by the total number of inpatient-days, then multiplied by 10,000:

$$\text{CDI Rate per 10,000 inpatient - days} = \frac{\text{Total Number of CDIs}}{\text{Total Inpatient - Days}} \times 10,000$$

RESULTS

In 2009, 375 licensed general acute care hospitals comprising 420 general acute care campuses met statutory reporting requirements. Among these, we identified 383 reporting facilities: 351 (91.9 percent) were single-campus and 32 (8.4 percent) were multi-campus (averaging two jointly-operated campuses per reporting facility). Of 383 reporting facilities, 334 (87.2 percent) submitted data on CDI for either four or five quarters during the reporting period January 1, 2009, through March 31, 2010.

Hospital-Specific Report Completeness, CDI Rate, and Inpatient-Days

Table 1 displays the total number of complete quarters of CDI surveillance data reported, number of cases of CDI, total number of inpatient-days, and hospital-specific CDI rates reported by facilities in California for the reporting period January 1, 2009, through March 31, 2010, including facilities reporting less than four quarters of data for which we did not calculate a rate.

LIMITATIONS

As with any new public health surveillance system, these data have several limitations. The CDI data are affected by issues concerning data completeness, quality, and validity to the extent that any analyses or comparisons are not appropriate.

There were several limitations regarding data quality and completeness. The HAI Program was not staffed until 2010; CDPH had a minimal system in place to receive the infection surveillance report forms and no data manager to manage the data. Additionally, CDPH had no quality assurance process in place to review and correct data errors and allow facilities to verify their data close to the time of submission. In August 2010, facilities were given the opportunity to verify – and if necessary, correct – CDI data submitted during the reporting period. However, not all facilities responded to the data verification request. Facilities may not have had the data at that time or could not reconstruct the data for correction. Therefore, the data presented here may not be complete.

Since CDPH did not require facilities to use NHSN to report CDI data, facilities may not have used the definitions for CDI events consistently, making inter-hospital comparisons of rates inappropriate. Facilities used different surveillance methodologies and were using a wide variety of case definitions for CDI during the reporting period. If facilities used infection-based surveillance, the data are subject to variability in case finding (the methods and rigor applied to identifying potential cases) and case identification (the application of definitions and clinical judgment as to whether a potential case is a case), with a high risk of both under-reporting and variability over time. Laboratory surveillance is reliable as long as the laboratory tests used have the same sensitivity and specificity, all laboratory tests are included in reporting, and the algorithm is applied appropriately. Rates from facilities using various laboratory methodologies are not comparable as there can be as much as a two-fold difference in sensitivity. A number of facilities likely changed laboratory testing methodology during the reporting period as molecular-based tests became commercially available.

In practice, there were significant differences in reported rates depending upon which type of surveillance was used. Some facilities subtracted NICU and well baby nurseries from their CDI events and inpatient days, while others did not. NHSN reminded facilities to subtract these locations, but paper-based surveillance forms did not. Also, community-onset and healthcare-facility associated CDI cases may have been either included or excluded, making it difficult to determine if a case truly should be attributed to the reporting hospital. Facilities including community-onset cases could have considerably higher rates than those that did not. Finally, NHSN definitions include patients who develop CDI four weeks following discharge from the hospital. In NHSN, these are classified as Community-Onset Healthcare Facility-Associated cases. Without the use of NHSN, we cannot determine the extent to which such cases might or might not have been included in a hospital's reported rate. Facilities that use the same laboratory for inpatient and outpatient testing, or linking of electronic medical records, might have higher rates as the result of inclusion of such cases.

CDC has not yet developed a method for risk-adjusting CDI rates using NHSN data, so no method was available. Furthermore, given the limitations of the data, risk stratification or any

other method available to facilitate comparison of rates among facilities is not appropriate. No other state has issued a public report of hospital CDI rates. Thus, these data should be interpreted with caution and used only as an indication of efforts made in California facilities to comply with reporting requirements.

RECOMMENDATIONS

CDI rates presented here should be reviewed and interpreted with caution. Due to the limitations described above, these hospital-specific CDI rates could be lower or higher than true CDI rates in California general acute care facilities. Additionally, inter-facility rate comparisons should be avoided as differences may reflect varied surveillance practices and/or laboratory testing methodology. Given the limitations of these data, CDPH has implemented changes to improve surveillance of CDI in California general acute care facilities. Beginning April 1, 2010, CDPH required that all facilities use NHSN for CDI surveillance, utilizing laboratory-based surveillance only, with the exclusion of NICUs and well-baby nurseries from surveillance data.

The following recommendations should also be implemented to improve surveillance of CDI in California general acute care facilities.

- CDPH should work with facilities to ensure correct and consistent use of NHSN to report CDI rates, to include
 - Completion of monthly plans.
 - Correctly conferring rights to ensure that CDPH can view and analyze CDI data.
 - Conduct laboratory-based surveillance for CDI during at least 3 consecutive months.
 - Appropriate enrollment of inpatient locations.
 - Appropriate exclusion of NICUs and well-baby nurseries.
- CDPH should identify which laboratory assay was used for each positive laboratory event in order to compare similar positive test results (this will be included in NHSN in the spring of 2011).
- CDPH should distinguish between community-onset and healthcare facility-onset cases and consider public reporting of healthcare-facility onset CDI rates only.
- CDPH should perform risk adjustment on CDI rates in order to allow appropriate inter-hospital comparisons useful to the consumer.
- CDPH should use CDI rates as a possible indicator of inpatient antimicrobial usage, identifying facilities that are candidates for increase antimicrobial use oversight.

Table 1. Number of complete quarters of *Clostridium difficile* infection surveillance data and crude rates of *Clostridium difficile* infections reported by general acute care facilities, restricted to facilities that reported complete data for at least 4 of 5 possible surveillance quarters, California, January 2009 - March 2010 (inclusive)

Facility Name	Number of Quarters Reported	Reported Rates		
		Cases	Inpatient Days	Rate per 10,000 Inpatient Days
Comparison of facility-specific rates should be avoided because differences may be due to variations in surveillance practices and/or laboratory testing methodology.				
ADVENTIST HEALTH SYSTEMS Hanford Community Medical Center Selma Community Hospital	5	10	43453	2.3
AHMC ANAHEIM REGIONAL MEDICAL CENTER	2	.	.	.
ALAMEDA COUNTY MEDICAL CENTER Alameda County Medical Center Fairmont Campus	5	25	54378	4.6
ALAMEDA HOSPITAL	5	4	13310	3.0
ALHAMBRA HOSPITAL MEDICAL CENTER	5	3	23819	1.3
ALTA LOS ANGELES HOSPITALS, INC. Los Angeles Community Hospital Norwalk Community Hospital	5	23	78402	2.9
ALVARADO HOSPITAL, LLC Alvarado Hospital – 6645 Alvarado Rd San Diego Alvarado Hospital – 6655 Alvarado Rd San Diego	5	21	55321	3.8
ANAHEIM GENERAL HOSPITAL	4	3	9942	3.0
ANTELOPE VALLEY HOSPITAL	5	29	129816	2.2
ARROWHEAD REGIONAL MEDICAL CENTER	5	43	176358	2.4
ARROYO GRANDE COMMUNITY HOSPITAL	5	13	12601	10.3
BAKERSFIELD HEART HOSPITAL	5	7	19665	3.6
BAKERSFIELD MEMORIAL HOSPITAL	5	29	93461	3.1
BALLARD REHABILITATION HOSPITAL	5	8	39883	2.0
BANNER LASSEN MEDICAL CENTER	5	5	5091	9.8
BARLOW RESPIRATORY HOSPITAL	5	61	29009	21.0
BARSTOW COMMUNITY HOSPITAL	2	.	.	.
BARTON MEMORIAL HOSPITAL	5	0	11563	0.0
BEAR VALLEY COMMUNITY HOSPITAL	5	0	1349	0.0
BELLFLOWER MEDICAL CENTER	5	1	33239	0.3
BEVERLY HOSPITAL	4	52	39655	13.1
BIGGS GRIDLEY MEMORIAL HOSPITAL	5	0	3247	0.0

Facility Name	Number of Quarters Reported	Reported Rates		
		Cases	Inpatient Days	Rate per 10,000 Inpatient Days
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BROTMAN MEDICAL CENTER	4	29	32155	9.0
CALIFORNIA HOSPITAL MEDICAL CENTER - LOS ANGELES	3	.	.	.
CALIFORNIA MEDICAL FACILITY	0	.	.	.
CALIFORNIA MENS COLONY	0	.	.	.
CALIFORNIA PACIFIC MEDICAL CENTER – ST. LUKE'S CAMPUS	5	42	51930	8.1
CASA COLINA HOSPITAL FOR REHABILITATIVE MEDICINE	0	.	.	.
CATALINA ISLAND MEDICAL CENTER	0	.	.	.
CATHOLIC HEALTHCARE WEST – BAKERSFIELD Mercy Hospital Mercy Southwest Hospital	5	22	79395	2.8
CATHOLICA HEALTHCARE WEST Mercy Medical Center Merced – Community Campus	5	33	49028	6.7
CATHOLIC HEALTHCARE WEST – SANTA CRUZ Dominican Hospital – Frederick St Dominican Hospital – Soquel Dr	5	27	66277	4.1
CEDARS-SINAI MEDICAL CENTER	5	268	358727	7.5
CENTINELA HOSPITAL MEDICAL CENTER	4	40	87505	4.6
CENTRAL VALLEY GENERAL HOSPITAL	5	2	14012	1.4
CHAPMAN MEDICAL CENTER	5	7	17217	4.1
CHILDRENS HOSPITAL AND RESEARCH CENTER AT OAKLAND	5	7	67131	1.0
CHILDREN'S HOSPITAL AT MISSION	5	5	8045	6.2
CHILDREN'S HOSPITAL CENTRAL CALIFORNIA	5	29	99328	2.9
CHILDRENS HOSPITAL OF LOS ANGELES	5	71	109502	6.5
CHILDREN'S HOSPITAL OF ORANGE COUNTY	5	36	77419	4.7
CHINESE HOSPITAL	5	14	13587	10.3
CHINO VALLEY MEDICAL CENTER	5	0	20765	0.0
CITRUS VALLEY MEDICAL CENTER, INC. Citrus Valley Medical Center IC Campus – Covina Citrus Valley Medical Center QV Campus – West Covina	5	10	123155	0.8
CITY OF HOPE HELFORD CLINICAL RESEARCH HOSPITAL	5	127	71399	17.8
CLOVIS COMMUNITY MEDICAL CENTER	5	35	46853	7.5
COALINGA REGIONAL MEDICAL CENTER	5	3	6779	4.4
COAST PLAZA HOSPITAL	5	6	10114	5.9
COASTAL COMMUNITIES HOSPITAL	3	.	.	.

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COLLEGE HOSPITAL COSTA MESA	5	0	46420	0.0
COLORADO RIVER MEDICAL CENTER	0	.	.	.
COLUSA REGIONAL MEDICAL CENTER	4	0	3433	0.0
COMMUNITY AND MISSION HOSPITAL OF HUNTINGTON PARK	5	0	12061	0.0
COMMUNITY HOSPITAL OF LONG BEACH	5	2	23074	0.9
COMMUNITY HOSPITAL OF SAN BERNARDINO	5	8	32365	2.5
COMMUNITY HOSPITAL OF THE MONTEREY PENINSULA	4	14	55419	2.5
COMMUNITY MEMORIAL HOSPITAL - SAN BUENAVENTURA	5	22	86212	2.6
COMMUNITY REGIONAL MEDICAL CENTER	5	238	218880	10.9
CONTRA COSTA REGIONAL MEDICAL CENTER	5	12	48411	2.5
CORCORAN DISTRICT HOSPITAL	0	.	.	.
COUNTY OF VENTURA	5	15	66695	2.2
Ventura County Medical Center				
Ventura County Medical Center – Santa Paula Hospital				
DAMERON HOSPITAL	5	52	58156	8.9
DELANO REGIONAL MEDICAL CENTER	0	.	.	.
DESERT REGIONAL MEDICAL CENTER	5	60	80744	7.4
DESERT VALLEY HOSPITAL	5	11	31128	3.5
DOCTORS HOSPITAL OF MANTECA	5	10	23683	4.2
DOCTORS HOSPITAL OF WEST COVINA, INC.	5	0	1274	0.0
DOCTORS MEDICAL CENTER	5	118	145487	8.1
DOCTORS MEDICAL CENTER - SAN PABLO	5	12	39283	3.1
DOWNEY REGIONAL MEDICAL CENTER	5	18	61643	2.9
EARL & LORAIN MILLER CHILDREN'S HOSPITAL	5	47	53153	8.8
EAST LOS ANGELES DOCTORS HOSPITAL	0	.	.	.
EAST VALLEY HOSPITAL MEDICAL CENTER	5	5	16580	3.0
EASTERN PLUMAS HEALTH CARE	4	1	2021	4.9
EDEN MEDICAL CENTER	5	77	80477	9.6
Eden Medical Center				
San Leandro Hospital				
EISENHOWER MEDICAL CENTER	5	21	49910	4.2
EL CAMINO HOSPITAL				
El Camino Hospital	5	223	84239	26.5
El Camino Hospital Los Gatos	3	.	.	.

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EL CENTRO REGIONAL MEDICAL CENTER	3	.	.	.
EMANUEL MEDICAL CENTER INC.	5	44	50793	8.7
ENCINO HOSPITAL MEDICAL CENTER	1	.	.	.
ENLOE MEDICAL CENTER	5	20	88613	2.3
Enloe Medical Center – Cohasset				
Enloe Medical Center – Esplanade				
Enloe Rehabilitation Center				
FAIRCHILD MEDICAL CENTER	5	2	6414	3.1
FAIRVIEW DEVELOPMENTAL CENTER	3	.	.	.
FALLBROOK HOSPITAL DISTRICT	5	2	9297	2.2
FEATHER RIVER HOSPITAL	5	12	24905	4.8
FOOTHILL PRESBYTERIAN HOSPITAL-JOHNSTON MEMORIAL	5	10	26479	3.8
FOUNTAIN VALLEY REGIONAL HOSPITAL & MED CENTER	5	41	110671	3.7
Fountain Valley Regional Hospital and Med Center – Euclid				
Fountain Valley Regional Hospital and Med Center – Warner Ave				
FRANK R. HOWARD MEMORIAL HOSPITAL	5	3	6807	4.4
FRENCH HOSPITAL MEDICAL CENTER	5	9	23349	3.9
FRESNO HEART AND SURGICAL HOSPITAL	5	5	13587	3.7
FRESNO SURGICAL HOSPITAL	5	0	5641	0.0
GARDEN GROVE HOSPITAL AND MEDICAL CENTER	1	.	.	.
GARFIELD MEDICAL CENTER	5	14	82446	1.7
GEORGE L. MEE MEMORIAL HOSPITAL	3	.	.	.
GLENDALE ADVENTIST MEDICAL CENTER	5	59	127632	4.6
GLENDALE MEMORIAL HOSPITAL AND HEALTH CENTER	3	.	.	.
GLENN MEDICAL CENTER	5	4	1410	28.4
GOLETA VALLEY COTTAGE HOSPITAL	5	0	19649	0.0
GOOD SAMARITAN HOSPITAL – BAKERSFIELD	1	.	.	.
GOOD SAMARITAN HOSPITAL – LOS ANGELES	5	51	104043	4.9
GOOD SAMARITAN HOSPITAL, LP – SAN JOSE	5	31	120877	2.6
Good Samaritan Hospital				
Mission Oaks Hospital				
GREATER EL MONTE COMMUNITY HOSPITAL	5	2	16295	1.2
GROSSMONT HOSPITAL	5	35	148561	2.4
HAZEL HAWKINS MEMORIAL HOSPITAL	5	3	9901	3.0

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Comparison of facility-specific rates should be avoided because differences may be due to variations in surveillance practices and/or laboratory testing methodology.				
HEALDSBURG DISTRICT HOSPITAL	0	.	.	.
HEALTHBRIDGE CHILDREN'S HOSPITAL - ORANGE	5	7	2242	31.2
HEALTHSOUTH BAKERSFIELD REHABILITATION HOSPITAL	1	.	.	.
HEALTHSOUTH TUSTIN REHABILITATION HOSPITAL	5	1	17848	0.6
HEMET VALLEY MEDICAL CENTER	3	.	.	.
HENRY MAYO NEWHALL MEMORIAL HOSPITAL	5	43	68751	6.3
HI-DESERT MEDICAL CENTER	5	9	15042	6.0
HOAG MEMORIAL HOSPITAL PRESBYTERIAN	5	118	151144	7.8
HOLLYWOOD COMMUNITY HOSPITAL OF HOLLYWOOD	5	23	35717	6.4
HOLLYWOOD PRESBYTERIAN MEDICAL CENTER	5	32	89953	3.6
HUNTINGTON BEACH HOSPITAL	5	10	19951	5.0
HUNTINGTON MEMORIAL HOSPITAL	5	260	164254	15.8
JEROLD PHELPS COMMUNITY HOSPITAL	5	0	201	0.0
JOHN C. FREMONT HEALTHCARE DISTRICT	0	.	.	.
JOHN D KLARICH MEMORIAL HOSPITAL, CSP-CORCORAN	2	.	.	.
JOHN F. KENNEDY MEMORIAL HOSPITAL	5	6	38881	1.5
JOHN MUIR MEDICAL CENTER- WALNUT CREEK CAMPUS	4	70	94599	7.4
JOHN MUIR MEDICAL CENTER-CONCORD CAMPUS	5	49	59635	8.2
KAISER FOUNDATION HOSPITAL – ANTIOCH	5	29	41784	6.9
KAISER FOUNDATION HOSPITAL – BALDWIN PARK	5	18	66183	2.7
KAISER FOUNDATION HOSPITAL – DOWNEY	4	20	66678	3.0
KAISER FOUNDATION HOSPITAL – FONTANA	5	120	173913	6.9
KAISER FOUNDATION HOSPITAL – FRESNO	5	18	37717	4.8
KAISER FOUNDATION HOSPITAL – MORENO VALLEY	5	8	21961	3.6
KAISER FOUNDATION HOSPITAL – PANORMA CITY	5	28	72054	3.9
KAISER FOUNDATION HOSPITAL – REDWOOD CITY	5	25	39508	6.3
KAISER FOUNDATION HOSPITAL – RIVERSIDE	4	18	64819	2.8
KAISER FOUNDATION HOSPITAL – SAN DIEGO	5	53	158892	3.3
KAISER FOUNDATION HOSPITAL – SAN FRANCISCO	5	66	105313	6.3
KAISER FOUNDATION HOSPITAL – SAN JOSE	5	60	69980	8.6
KAISER FOUNDATION HOSPITAL – SAN RAFAEL	5	39	30189	12.9
KAISER FOUNDATION HOSPITAL – SANTA CLARA	5	88	128739	6.8
KAISER FOUNDATION HOSPITAL – SANTA ROSA	5	14	41604	3.4

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Comparison of facility-specific rates should be avoided because differences may be due to variations in surveillance practices and/or laboratory testing methodology.				
KAISER FOUNDATION HOSPITAL – SOUTH BAY	5	46	66980	6.9
KAISER FOUNDATION HOSPITAL – SOUTH SACRAMENTO	5	35	53118	6.6
KAISER FOUNDATION HOSPITAL – SOUTH SAN FRANCISCO	5	30	31704	9.5
KAISER FOUNDATION HOSPITAL – SUNSET	5	92	139062	6.6
KAISER FOUNDATION HOSPITAL & REHAB. CENTER – VALLEJO	5	73	88013	8.3
KAISER FOUNDATION HOSPITAL – WALNUT CREEK	5	102	78208	13.0
KAISER FOUNDATION HOSPITAL – WEST LA	5	40	63874	6.3
KAISER FOUNDATION HOSPITAL – WOODLAND HILLS	5	43	65089	6.6
KAISER FOUNDATION HOSPITALS				
Kaiser Foundation Hospital, Anaheim	5	25	60300	4.1
Kaiser Foundation Hospital, Irvine	5	25	46956	5.3
KAISER FOUNDATION HOSPITALS	5	58	80441	7.2
Kaiser Foundation Hospital, Fremont				
Kaiser Foundation Hospital, Hayward/Fremont				
KAISER FOUNDATION HOSPITALS	5	27	39379	6.9
Kaiser Foundation Hospital, Manteca				
Kaiser Foundation Hospital, Modesto				
KAISER FOUNDATION HOSPITALS	5	100	106520	9.4
Kaiser Foundation Hospital, Oakland/Richmond				
Kaiser Foundation Hospital, Richmond				
KAISER FOUNDATION HOSPITALS				
Kaiser Foundation Hospital, Roseville	4	50	73466	6.8
Kaiser Foundation Hospital, Sacramento	5	57	73184	7.8
KAWEAH DELTA MEDICAL CENTER	5	197	132005	14.9
KENTFIELD REHABILITATION & SPECIALTY HOSPITAL	5	40	22862	17.5
KERN MEDICAL CENTER	0	.	.	.
KERN VALLEY HEALTHCARE DISTRICT	5	1	4452	2.2
KINDRED HOSPITAL - BREA	5	32	19024	16.8
KINDRED HOSPITAL - LOS ANGELES	5	59	35088	16.8
KINDRED HOSPITAL - ONTARIO	5	69	36192	19.1
KINDRED HOSPITAL - SACRAMENTO	5	39	13772	28.3
KINDRED HOSPITAL - SAN DIEGO	5	23	20175	11.4
KINDRED HOSPITAL - SAN FRANCISCO BAY AREA	5	48	25383	18.9
KINDRED HOSPITAL - WESTMINSTER	2	.	.	.
KINGSBURG MEDICAL CENTER	0	.	.	.

Facility Name	Number of Quarters Reported	Reported Rates		
		Cases	Inpatient Days	Rate per 10,000 Inpatient Days
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LA PALMA INTERCOMMUNITY HOSPITAL	3	.	.	.
LAC/HARBOR-UCLA MEDICAL CENTER	5	321	162882	19.7
LAC/RANCHO LOS AMIGOS NATIONAL REHABILITATION CTR	5	33	81711	4.0
LAC+USC MEDICAL CENTER	5	74	222710	3.3
LAGUNA HONDA HOSPITAL & REHABILITATION CENTER	5	1	1488	6.7
LAKEWOOD REGIONAL MEDICAL CENTER	5	4	48263	0.8
LANCASTER COMMUNITY HOSPITAL	5	7	34672	2.0
LANTERMAN DEVELOPMENTAL CENTER	5	0	1925	0.0
LODI MEMORIAL HOSPITAL ASSOCIATION, INC. Lodi Memorial Hospital – West Lodi Memorial Hospital	5	54	44692	12.1
LOMA LINDA UNIVERSITY MEDICAL CENTER Loma Linda University Medical Center Loma Linda University Medical Center East Campus Hospital Loma Linda University Heart and Surgical Hospital	5	308	261082	11.8
LOMPOC VALLEY MEDICAL CENTER	5	6	10288	5.8
LONG BEACH MEMORIAL MEDICAL CENTER	5	78	137674	5.7
LOS ALAMITOS MEDICAL CENTER	5	59	54161	10.9
LOS ANGELES COUNTY OLIVE VIEW-UCLA MEDICAL CENTER	5	18	87411	2.1
LOS ANGELES METROPOLITAN MEDICAL CENTER	5	0	51152	0.0
LOS ROBLES REGIONAL MEDICAL CENTER Los Robles Hospital and Medical Center Los Robles Hospital and Medical Center East Campus	5	111	94629	11.7
LUCILE SALTER PACKARD CHILDREN'S HOSP AT STANFORD	5	16	120378	1.3
MAD RIVER COMMUNITY HOSPITAL	5	0	11929	0.0
MADERA COMMUNITY HOSPITAL	0	.	.	.
MAMMOTH HOSPITAL	5	0	2466	0.0
MARIAN MEDICAL CENTER	5	12	53841	2.2
MARIN GENERAL HOSPITAL	4	10	45624	2.2
MARINA DEL REY HOSPITAL	1	.	.	.
MARK TWAIN ST. JOSEPH'S HOSPITAL (4RH)	5	2	7189	2.8
MARSHALL MEDICAL CENTER (1-RH)	5	63	28947	21.8
MAYERS MEMORIAL HOSPITAL	5	1	2310	4.3
MEMORIAL HOSPITAL LOS BANOS	5	0	8688	0.0

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MEMORIAL HOSPITAL OF GARDENA	5	10	31304	3.2
MEMORIAL MEDICAL CENTER	5	136	128358	10.6
MENDOCINO COAST DISTRICT HOSPITAL	5	2	5165	3.9
MENIFEE VALLEY MEDICAL CENTER	4	15	19903	7.5
MENLO PARK SURGICAL HOSPITAL	5	0	759	0.0
MERCY GENERAL HOSPITAL	5	47	103313	4.5
MERCY HOSPITAL OF FOLSOM	5	26	22197	11.7
MERCY MEDICAL CENTER MT. SHASTA	5	2	4563	4.4
MERCY MEDICAL CENTER REDDING	5	21	67481	3.1
MERCY SAN JUAN MEDICAL CENTER	5	85	93259	9.1
METHODIST HOSPITAL OF SACRAMENTO	5	9	43959	2.0
METHODIST HOSPITAL OF SOUTHERN CALIFORNIA	5	72	107274	6.7
MILLS-PENINSULA HEALTH SERVICES	5	28	83652	3.3
Mills Health Center				
Peninsula Medical Center				
MIRACLE MILE MEDICAL CENTER	5	0	652	0.0
MISSION COMMUNITY HOSPITAL - PANORAMA CAMPUS	4	4	13012	3.1
MISSION HOSPITAL REGIONAL MEDICAL CENTER	5	52	114247	4.6
Mission Hospital Regional Medical Center				
Mission Hospital Laguna Beach				
MODOC MEDICAL CENTER	5	0	1859	0.0
MONROVIA MEMORIAL HOSPITAL	5	3	6169	4.9
MONTCLAIR HOSPITAL MEDICAL CENTER	0	.	.	.
MONTEREY PARK HOSPITAL	5	39	23915	16.3
MOTION PICTURE & TELEVISION HOSPITAL	5	0	1949	0.0
MOUNTAINS COMMUNITY HOSPITAL	5	4	1725	23.2
NATIVIDAD MEDICAL CENTER	5	26	38914	6.7
NEWPORT SPECIALTY HOSPITAL	0	.	.	.
NORTHBAY HEALTHCARE GROUP				
Northbay Medical Center	5	24	30355	7.9
Northbay Vacavalley Hospital	5	30	16898	17.8
NORTHERN CALIFORNIA REHABILITATION HOSPITAL	5	1	21037	0.5
NORTHERN INYO HOSPITAL	5	0	4513	0.0
NORTHRIDGE HOSPITAL MEDICAL CENTER	5	74	109272	6.8

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NOVATO COMMUNITY HOSPITAL	5	3	8292	3.6
OAK VALLEY HOSPITAL DISTRICT (2-RH)	1	.	.	.
O'CONNOR HOSPITAL	5	40	79630	5.0
OJAI VALLEY COMMUNITY HOSPITAL	5	20	3491	57.3
OLYMPIA MEDICAL CENTER	5	78	42951	18.2
ORANGE COAST MEMORIAL MEDICAL CENTER	5	30	58661	5.1
OROVILLE HOSPITAL	5	95	47828	19.9
PACIFIC ALLIANCE MEDICAL CENTER	5	7	37156	1.9
PACIFIC HOSPITAL OF LONG BEACH	5	6	54472	1.1
PACIFICA HOSPITAL OF THE VALLEY	5	5	68720	0.7
PALM DRIVE HOSPITAL	5	8	6237	12.8
PALO VERDE HOSPITAL	5	1	7235	1.4
PALOMAR MEDICAL CENTER	5	53	102474	5.2
PARADISE VALLEY HOSPITAL	5	17	60808	2.8
PARKVIEW COMMUNITY HOSPITAL MEDICAL CENTER	5	15	39883	3.8
PATIENTS' HOSPITAL OF REDDING	0	.	.	.
PIONEERS MEMORIAL HEALTHCARE DISTRICT	1	.	.	.
PLACENTIA LINDA HOSPITAL	5	13	17556	7.4
PLUMAS DISTRICT HOSPITAL	4	0	1456	0.0
POMERADO HOSPITAL	5	13	32958	3.9
POMONA VALLEY HOSPITAL MEDICAL CENTER	5	106	113356	9.4
PORTERVILLE DEVELOPMENTAL CENTER	0	.	.	.
PRESBYTERIAN INTERCOMMUNITY HOSPITAL	0	.	.	.
PROMISE HOSPITAL OF EAST LOS ANGELES, L.P.				
Promise Hosp Of East Los Angeles-East L.A. Campus	0	.	.	.
Promise Hosp Of East Los Angeles-Suburban Campus	0	.	.	.
PROMISE HOSPITAL OF SAN DIEGO	0	.	.	.
PROVIDENCE HOLY CROSS MEDICAL CENTER	5	33	113315	2.9
PROVIDENCE LITTLE COMPANY OF MARY MEDICAL CENTER SAN PEDRO	5	10	51233	2.0
PROVIDENCE LITTLE COMPANY OF MARY MEDICAL CENTER TORRANCE	5	59	71214	8.3
PROVIDENCE SAINT JOSEPH MEDICAL CENTER	5	84	120961	6.9
PROVIDENCE TARZANA MEDICAL CENTER	5	82	74259	11.0
QUEEN OF THE VALLEY MEDICAL CENTER	5	27	54150	5.0

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RADY CHILDREN'S HOSPITAL - SAN DIEGO	5	43	64466	6.7
RANCHO SPECIALTY HOSPITAL	5	60	22872	26.2
REDLANDS COMMUNITY HOSPITAL	5	51	64023	8.0
REDWOOD MEMORIAL HOSPITAL	4	1	6598	1.5
REGIONAL MEDICAL CENTER OF SAN JOSE	5	79	72059	11.0
RIDGECREST REGIONAL HOSPITAL	5	6	15739	3.8
RIVERSIDE COMMUNITY HOSPITAL	5	82	116290	7.1
RIVERSIDE COUNTY REGIONAL MEDICAL CENTER	5	80	115647	6.9
RONALD REAGAN UCLA MEDICAL CENTER	5	284	191983	14.8
SADDLEBACK MEMORIAL MEDICAL CENTER Saddleback Memorial Medical Center Saddleback Memorial Medical Center – San Clemente	5	48	91136	5.3
SAINT AGNES MEDICAL CENTER	5	106	136446	7.8
SAINT FRANCIS MEDICAL CENTER	5	25	71032	3.5
SAINT FRANCIS MEMORIAL HOSPITAL	4	11	33690	3.3
SAINT JOHN'S HEALTH CENTER	5	58	76513	7.6
SAINT LOUISE REGIONAL HOSPITAL	5	5	15928	3.1
SAINT VINCENT MEDICAL CENTER	5	66	55413	11.9
SALINAS VALLEY MEMORIAL HOSPITAL	5	27	64442	4.2
SAN ANTONIO COMMUNITY HOSPITAL	5	52	67340	7.7
SAN DIMAS COMMUNITY HOSPITAL	4	9	15522	5.8
SAN FRANCISCO GENERAL HOSPITAL	5	100	121322	8.2
SAN GABRIEL VALLEY MEDICAL CENTER	5	41	46663	8.8
SAN GORGONIO MEMORIAL HOSPITAL	5	5	16684	3.0
SAN JOAQUIN COMMUNITY HOSPITAL	5	67	84179	8.0
SAN JOAQUIN GENERAL HOSPITAL	5	7	46666	1.5
SAN JOAQUIN VALLEY REHABILITATION HOSPITAL	4	33	15961	20.7
SAN MATEO MEDICAL CENTER	5	4	17766	2.3
SAN RAMON REGIONAL MEDICAL CENTER, INC. San Ramon Regional Medical Center San Ramon Regional Medical Center South Building	5	0	27341	0.0
SANTA BARBARA COTTAGE HOSPITAL	5	49	109481	4.5
SANTA CLARA VALLEY MEDICAL CENTER	5	13	135285	1.0
SANTA MONICA - UCLA MEDICAL CENTER AND ORTHOPAEDIC HOSPITAL	5	58	95442	6.1

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SANTA ROSA MEMORIAL HOSPITAL	5	77	77484	9.9
SANTA YNEZ VALLEY COTTAGE HOSPITAL	5	0	1206	0.0
SCRIPPS GREEN HOSPITAL	5	12	49139	2.4
SCRIPPS HEALTH	4	83	139843	5.9
Scripps Mercy Hospital				
Scripps Mercy Hospital Chula Vista				
SCRIPPS MEMORIAL HOSPITAL - ENCINITAS	5	39	55133	7.1
SCRIPPS MEMORIAL HOSPITAL - LA JOLLA	5	71	79327	9.0
SENECA HEALTHCARE DISTRICT	5	0	824	0.0
SEQUOIA HOSPITAL	5	23	43145	5.3
SETON MEDICAL CENTER	5	42	59014	7.1
Seton Medical Center				
Seton Medical Center – Coastside				
SHARP CHULA VISTA MEDICAL CENTER	5	68	85345	8.0
SHARP CORONADO HOSPITAL AND HEALTHCARE CENTER	5	7	10983	6.4
SHARP MARY BIRCH HOSPITAL FOR WOMEN AND NEWBORNS	5	1	66544	0.2
SHARP MEMORIAL HOSPITAL	5	75	119764	6.3
SHASTA REGIONAL MEDICAL CENTER	5	6	37125	1.6
SHERMAN OAKS HOSPITAL	3	.	.	.
SHRINERS HOSPITALS FOR CHILDREN	0	.	.	.
SHRINERS HOSPITALS FOR CHILDREN NORTHERN CALIF.	5	5	12720	3.9
SIERRA KINGS DISTRICT HOSPITAL	5	2	9537	2.1
SIERRA NEVADA MEMORIAL HOSPITAL	5	1	32045	0.3
SIERRA VIEW DISTRICT HOSPITAL	5	10	40454	2.5
SIERRA VISTA REGIONAL MEDICAL CENTER	5	18	29479	6.1
SILVER LAKE MEDICAL CENTER	5	6	9273	6.5
SIMI VALLEY HOSPITAL & HEALTH CARE SERVICES	5	59	58315	10.1
SONOMA DEVELOPMENTAL CENTER	5	0	959	0.0
SONOMA VALLEY HOSPITAL	5	2	6989	2.9
SONORA REGIONAL MEDICAL CENTER	5	8	21809	3.7
SOUTHERN CALIFORNIA SPECIALTY CARE, INC.				
Kindred Hospital – La Mirada	5	39	30757	12.7
Kindred Hospital – San Gabriel Valley	5	55	28415	19.4
Kindred Hospital – Santa Ana	5	56	21562	26.0

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SOUTHERN INYO HOSPITAL	0	.	.	.
SRM ALLIANCE HOSPITAL SERVICES Petaluma Valley Hospital	5	23	12920	17.8
ST BERNARDINE MEDICAL CENTER	5	65	94776	6.5
ST ELIZABETH COMMUNITY HOSPITAL	2	.	.	.
ST JOHN'S PLEASANT VALLEY HOSPITAL	4	10	15497	6.5
ST JOHN'S REGIONAL MEDICAL CENTER	5	50	74116	6.7
ST ROSE HOSPITAL	5	41	50466	8.1
ST. HELENA HOSPITAL	1	.	.	.
ST. HELENA HOSPITAL - CLEARLAKE	5	0	8275	0.0
ST. JOSEPH HOSPITAL EUREKA St. Joseph Hospital – Eureka	5	13	35571	3.7
The General Hospital	5	0	2634	0.0
ST. JOSEPH HOSPITAL – ORANGE	5	52	95408	5.5
ST. JOSEPH'S MEDICAL CENTER OF STOCKTON	5	65	100883	6.4
ST. JUDE MEDICAL CENTER	5	77	90167	8.5
ST. MARY MEDICAL CENTER – APPLE VALLEY	5	45	75073	6.0
ST. MARY MEDICAL CENTER – LONG BEACH	5	65	83671	7.8
ST. MARY'S MEDICAL CENTER – SAN FRANCISCO	5	25	54157	4.6
STANFORD HOSPITAL	5	104	169811	6.1
STANISLAUS SURGICAL HOSPITAL	5	0	3041	0.0
SURPRISE VALLEY COMMUNITY HOSPITAL	1	.	.	.
SUTTER AMADOR HOSPITAL	5	3	10331	2.9
SUTTER AUBURN FAITH HOSPITAL	5	5	16249	3.1
SUTTER COAST HOSPITAL	5	0	9895	0.0
SUTTER DAVIS HOSPITAL	5	8	10477	7.6
SUTTER DELTA MEDICAL CENTER	5	37	40684	9.1
SUTTER EAST BAY HOSPITALS Alta Bates Summit Medical Center – Alta Bates Campus Alta Bates Summit Medical Center – Herrick Campus Alta Bates Summit Medical Center – Summit Campus Summit St Alta Bates Summit Medical Center – Summit Campus Hawthorne St	5	96	194149	4.9
SUTTER HEALTH SACRAMENTO SIERRA REGION Sutter Memorial Hospital Sutter General Hospital	5	82	145167	5.6

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SUTTER LAKESIDE HOSPITAL	0	.	.	.
SUTTER MATERNITY & SURGERY CENTER OF SANTA CRUZ	4	0	4604	0.0
SUTTER MEDICAL CENTER OF SANTA ROSA	5	11	28694	3.8
SUTTER ROSEVILLE MEDICAL CENTER	5	27	99801	2.7
SUTTER SOLANO MEDICAL CENTER	5	7	24444	2.9
SUTTER TRACY COMMUNITY HOSPITAL	5	25	21368	11.7
SUTTER WEST BAY HOSPITALS	5	165	237391	7.0
California Pacific Medical Center – West Campus				
California Pacific Medical Center – Davies Campus				
California Pacific Medical Center – Pacific Campus				
TAHOE FOREST HOSPITAL	5	1	6848	1.5
TEHACHAPI HOSPITAL	2	.	.	.
TEMPLE COMMUNITY HOSPITAL	5	1	15970	0.6
THE FREMONT-RIDEOUT HEALTH GROUP	4	23	65567	3.5
Fremont Medical Center				
Rideout Memorial Hospital				
THOUSAND OAKS SURGICAL HOSPITAL	5	0	2338	0.0
TORRANCE MEMORIAL MEDICAL CENTER	5	106	116416	9.1
TRI-CITY MEDICAL CENTER	5	14	92662	1.5
TRI-CITY REGIONAL MEDICAL CENTER	5	8	24371	3.3
TRINITY HOSPITAL	5	0	1992	0.0
TULARE DISTRICT HOSPITAL	5	5	27082	1.8
TWIN CITIES COMMUNITY HOSPITAL	5	13	32817	4.0
UHS-CORONA, INC.	4	12	54061	2.2
Corona Regional Medical Center – Magnolia Ave				
Corona Regional Medical Center – South Main St				
UKIAH VALLEY MEDICAL CENTER/HOSPITAL DRIVE	4	4	12412	3.2
UNIVERSAL HEALTH SERVICES OF RANCHO SPRINGS, INC.	5	33	76830	4.3
Southwest Healthcare System – Murrieta				
Southwest Healthcare System – Wildomar				
UNIVERSITY OF CALIFORNIA DAVIS MEDICAL CENTER	5	198	212716	9.3
UNIVERSITY OF CALIFORNIA IRVINE MEDICAL CENTER	5	69	128820	5.4
UNIVERSITY OF CALIFORNIA – SAN FRANCISCO	5	338	216284	15.6
UCSF Medical Center				
UCSF Medical Center at Mount Zion				

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UNIVERSITY OF CALIFORNIA – SAN DIEGO University of California, San Diego Medical Center UCSD – La Jolla, John M. and Sally B. Thornton Hospital	5	129	165616	7.8
USC KENNETH NORRIS JR. CANCER HOSPITAL	5	6	14175	4.2
USC UNIVERSITY HOSPITAL	5	133	70026	19.0
VALLEY PRESBYTERIAN HOSPITAL	4	88	85513	10.3
VALLEYCARE MEDICAL CENTER	5	12	44056	2.7
VERDUGO HILLS HOSPITAL	5	19	38607	4.9
VIBRA HOSPITAL OF SAN DIEGO	5	45	26099	17.2
VICTOR VALLEY COMMUNITY HOSPITAL	4	11	21569	5.1
VISTA HOSPITAL OF RIVERSIDE	5	12	15195	7.9
VISTA HOSPITAL OF SAN GABRIEL VALLEY	5	26	27762	9.4
VISTA HOSPITAL OF SOUTH BAY	5	33	43957	7.5
WASHINGTON HOSPITAL	5	55	78944	7.0
WATSONVILLE COMMUNITY HOSPITAL	5	13	28008	4.6
WEST ANAHEIM MEDICAL CENTER	5	26	42475	6.1
WEST HILLS HOSPITAL & MEDICAL CENTER	5	32	43394	7.4
WESTERN MEDICAL CENTER ANAHEIM	5	39	54031	7.2
WESTERN MEDICAL CENTER SANTA ANA	4	33	45780	7.2
WHITE MEMORIAL MEDICAL CENTER	5	55	119237	4.6
WHITTIER HOSPITAL MEDICAL CENTER	5	5	43190	1.2
WOODLAND MEMORIAL HOSPITAL	5	15	12220	12.3

Source: Brief Report: Incidence of *Clostridium difficile* infection among Patients in California General Acute Care Hospitals, January 1, 2009 through March 31, 2010, California Department of Public Health, January 2011

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