

IV. HOSPITAL PARTICIPATION

Unlike some reports on hospital quality, CCMRP depends on the voluntary participation of hospitals. PBGH and OSHPD wish to thank each of the 79 hospitals that volunteered to participate and publicly report their risk-adjusted mortality rates. It is critical to recognize that, regardless of any individual hospital's performance results, participation in CCMRP represents a significant commitment to quality measurement and improvement by each of the participating hospitals. The results and conclusions contained in this report can be used to compare hospitals that voluntarily chose to participate, but not those hospitals that elected not to participate. This section describes how every hospital was afforded the opportunity to participate.

CCMRP approached every California hospital that performed more than 25 adult CABG surgeries annually with an offer to join CCMRP.⁵ Letters of invitation to participate were sent to the Chief Executive Officer and Chief of Cardiothoracic Surgery at each institution. Staff made follow-up phone calls to encourage participation and offered to come on-site and brief hospital staff about the program. One-on-one meetings were held with interested hospitals to inform them of the program's purpose, structure, requirements of participation, and to address questions. As part of the recruitment process, all hospitals received multiple mailings and phone calls to enlist interest and participation between Fall 1996 and March 1999. PBGH and OSHPD sent a final invitation letter by certified mail to the CEOs of non-participating hospitals to enlist their participation in the 1997-1998 data collection effort. The letter provided a deadline for joining the program for this report and indicated that hospitals that declined to participate would be listed as such in the public report.

Hospitals that elected to participate were asked to sign a "Principles of Participation" agreement (Appendix E) that formally committed them to:

- Report pre-operative risk factors and mortality data for all isolated CABG surgeries performed during the calendar year (a hospital was not permitted to participate if it chose to submit only a portion of its caseload);
- Participate in a training session designed to improve consistency in coding practices across hospitals;
- Submit data on a quarterly basis using a standard data entry format and standard variable definitions;
- Participate in periodic audits to verify data quality; and,
- Publicly release their risk-adjusted mortality rates.

Table 2 lists the 118 hospitals in California that performed more than 25 adult isolated CABG surgeries in 1998 and their participation status in CCMRP. Hospitals that participate in CCMRP have agreed to make their institution's risk-adjusted mortality rates publicly available. This willingness to engage in CCMRP public reporting effort demonstrates a hospital's commitment to quality assessment and improvement.

⁵ In 1998, 118 out of 121 California hospitals met this threshold for inclusion.

Table 2 shows, for each institution for 1998:⁶

- The hospital's participation status in the 1997-1998 data reporting period;
- The region in which the hospital is located;
- The total number of open-heart procedures performed;
- The total number of isolated CABG surgeries; and,
- The percentage of all open-heart procedures that isolated CABG surgeries represent at that institution.

⁶ UC San Diego University Medical Center comprises two hospital facilities (Thornton and Hillcrest)

Table 2: California Hospitals that Perform Adult CABG Surgeries—1998

Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures *	Number of Isolated CABG Surgeries *	Isolated CABG as a % of all Open-heart Procedures
Alta Bates Medical Center	Participating	San Francisco Bay Area and San Jose	172	120	69.8
Alvarado Hospital Medical Center	Participating	Greater San Diego	221	162	73.3
Anaheim Memorial Hospital	Participating	Orange County	156	125	80.1
Antelope Valley Hospital Medical Center	Declined to Participate	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	54	48	88.9
Bakersfield Memorial Hospital	Declined to Participate	Central California	417	315	75.5
Beverly Hospital	Declined to Participate	Greater Los Angeles	37	32	86.5
Brotman Medical Center	Declined to Participate	Greater Los Angeles	73	62	84.9
California Pacific Medical Center	Participating	San Francisco Bay Area and San Jose	279	178	63.8
Cedars-Sinai Medical Center	Participating	Greater Los Angeles	717	412	57.5
Centinela Hospital Medical Center	Declined to Participate	Greater Los Angeles	97	66	68.0
Community Memorial Hospital—San Buenaventura	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	240	192	80.0
Dameron Hospital	Participating	Central California	124	105	84.7
Daniel Freeman Memorial Hospital	Participating	Greater Los Angeles	220	160	72.7
Desert Regional Medical Center	Participating	Inland Empire, Riverside and San Bernardino	146	120	82.2
Doctor's Hospital—San Pablo	Participating	San Francisco Bay Area and San Jose	109	93	85.3
Doctors Medical Center—Modesto	Participating	Central California	576	457	79.3
Dominican Santa Cruz Hospital	Participating	San Francisco Bay Area and San Jose	181	134	74.0
Downey Community Hospital	Participating	Greater Los Angeles	145	116	80.0
Eisenhower Medical Center	Declined to Participate	Inland Empire, Riverside and San Bernardino	185	147	79.5
El Camino Hospital	Participating	San Francisco Bay Area and San Jose	156	110	70.5
Encino-Tarzana Regional Medical Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	260	183	70.4
Enloe Medical Center	Declined to Participate	Sacramento Valley and Northern California	313	273	87.2

Table 2: California Hospitals that Perform Adult CABG Surgeries—1998 (cont.)

Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures*	Number of Isolated CABG Surgeries*	Isolated CABG as a % of all Open-heart Procedures
Fountain Valley Regional Hospital and Medical Center—Euclid	Declined to Participate	Orange County	200	174	87.0
French Hospital Medical Center	Declined to Participate	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	309	257	83.2
Fresno Community Hospital and Medical Center	Declined to Participate	Central California	420	330	78.6
Garfield Medical Center	Declined to Participate	Greater Los Angeles	120	102	85.0
Glendale Adventist Medical Center—Wilson Terrace	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	247	206	83.4
Glendale Memorial Hospital and Health Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	236	192	81.4
Good Samaritan Hospital—Los Angeles	Declined to Participate	Greater Los Angeles	1019	733	71.9
Good Samaritan Hospital of Santa Clara Valley/San Jose (Columbia)	Declined to Participate	Greater San Francisco Bay Area and San Jose	518	398	76.8
Granada Hills Community Hospital	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	84	75	89.3
Green Hospital of Scripps Clinic	Declined to Participate	Greater San Diego	272	181	66.5
Heart Hospital of the Desert	Participating	Inland Empire, Riverside and San Bernardino	162	117	72.2
Hoag Memorial Hospital Presbyterian	Participating	Orange County	369	269	72.9
Huntington Memorial Hospital	Declined to Participate	Greater Los Angeles	502	377	75.1
Inter-Community Medical Center—Citrus Valley	Participating	Greater Los Angeles	277	225	81.2
John Muir Medical Center	Participating	San Francisco Bay Area and San Jose	178	124	69.7
Kaiser Foundation Hospital—Los Angeles (Sunset)	Participating	Greater Los Angeles	1685	1267	75.2
Kaiser Foundation Hospital—San Francisco (Geary)	Participating	San Francisco Bay Area and San Jose	1430	992	69.4

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Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures*	Number of Isolated CABG Surgeries*	Isolated CABG as a % of all Open-heart Procedures
Kaweah Delta District Hospital	Participating	Central California	367	295	80.4
Lakewood Regional Medical Center	Declined to Participate	Greater Los Angeles	273	236	86.4
Lancaster Community Hospital	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	50	47	94.0
Little Company of Mary Hospital	Participating	Greater Los Angeles	240	165	68.8
Loma Linda University Medical Center	Declined to Participate	Inland Empire, Riverside and San Bernardino	824	471	57.2
Long Beach Community Hospital	Declined to Participate	Greater Los Angeles	140	116	82.9
Long Beach Memorial Medical Center	Participating	Greater Los Angeles	495	370	74.7
Los Angeles County—USC Med Ctr	Participating	Greater Los Angeles	227	117	51.5
Los Angeles County Harbor—UCLA	Declined to Participate	Greater Los Angeles	252	156	61.9
Los Robles Regional Medical Center	Declined to Participate	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	345	270	78.3
Marian Medical Center	Declined to Participate	Central California	117	100	85.5
Marin General Hospital	Participating	San Francisco Bay Area and San Jose	115	87	75.7
Memorial Medical Center—Modesto	Participating	Central California	326	276	84.7
Mercy General Hospital	Participating	Sacramento Valley and Northern California	1714	1269	74.0
Mercy Medical Center—Redding	Participating	Sacramento Valley and Northern California	300	226	75.3
Mercy San Juan Hospital	Participating	Sacramento Valley and Northern California	246	185	75.2
Methodist Hospital of Southern California	Participating	Greater Los Angeles	277	210	75.8
MHIs Peninsula Medical Center	Participating	San Francisco Bay Area and San Jose	219	162	74.0
Mission Hospital Regional Medical Center	Declined to Participate	Orange County	297	233	78.5
Mt. Diablo Medical Center	Participating	San Francisco Bay Area and San Jose	683	544	79.6
Northridge Hospital Medical Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	173	131	75.7

Table 2: California Hospitals that Perform Adult CABG Surgeries—1998 (cont.)

Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures*	Number of Isolated CABG Surgeries*	Isolated CABG as a % of all Open-heart Procedures
O'Connor Hospital—San Jose	Declined to Participate	San Francisco Bay Area and San Jose	215	161	74.9
Palomar Medical Center	Participating	Greater San Diego	188	146	77.7
Pomona Valley Hospital Medical Center	Participating	Inland Empire, Riverside and San Bernardino	311	268	86.2
Presbyterian Intercommunity Hospital	Participating	Greater Los Angeles	151	113	74.8
Providence Holy Cross Medical Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	107	78	72.9
Providence St. Joseph Medical Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	309	202	65.4
Queen of the Valley Hospital—Napa	Declined to Participate	San Francisco Bay Area and San Jose	157	123	78.3
Redding Medical Center	Participating	Sacramento Valley and Northern California	673	496	73.7
Riverside Community Hospital	Participating	Inland Empire, Riverside and San Bernardino	473	364	77.0
Saddleback Memorial Medical Center	Participating	Orange County	220	173	78.6
Salinas Valley Memorial Hospital	Participating	San Francisco Bay Area and San Jose	370	314	84.9
San Antonio Community Hospital	Participating	Inland Empire, Riverside and San Bernardino	170	143	84.1
San Joaquin Community Hospital	Declined to Participate	Central California	370	291	78.6
San Jose Medical Center (Columbia)	Declined to Participate	Greater San Francisco Bay Area and San Jose	115	89	77.4
Santa Barbara Cottage Hospital	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	372	266	71.5
Santa Clara Valley Medical Center	Declined to Participate	San Francisco Bay Area and San Jose	98	65	66.3
Santa Monica—UCLA Medical Center	Participating	Greater Los Angeles	66	44	66.7
Santa Rosa Memorial Hospital	Declined to Participate	San Francisco Bay Area and San Jose	345	245	71.0
Scripps Memorial Hospital—La Jolla	Participating	Greater San Diego	601	339	56.4
Scripps Mercy Hospital and Medical Center	Declined to Participate	Greater San Diego	302	222	73.5
Sequoia Hospital	Participating	San Francisco Bay Area and San Jose	516	250	48.4
Seton Medical Center	Participating	San Francisco Bay Area and San Jose	673	558	82.9
Sharp Chula Vista Medical Center	Participating	Greater San Diego	328	260	79.3
Sharp Grossmont Hospital	Participating	Greater San Diego	190	133	70.0

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Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures*	Number of Isolated CABG Surgeries*	Isolated CABG as a % of all Open-heart Procedures
Sharp Memorial Hospital	Participating	Greater San Diego	474	314	66.2
St. Agnes Medical Center	Declined to Participate	Central California	519	388	74.8
St. Bernadine Medical Center	Participating	Inland Empire, Riverside and San Bernardino	697	565	81.1
St. Francis Medical Center	Participating	Greater Los Angeles	108	89	82.4
St. Helena Hospital	Participating	San Francisco Bay Area and San Jose	287	250	87.1
St. John's Hospital and Health Center	Participating	Greater Los Angeles	200	141	70.5
St. John's Regional Medical Center	Participating	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	262	198	75.6
St. Joseph Hospital—Orange	Participating	Orange County	381	292	76.6
St. Joseph's Medical Center—Stockton	Participating	Central California	357	282	79.0
St. Jude Medical Center	Participating	Orange County	270	197	73.0
St. Mary Medical Center—Long Beach	Participating	Greater Los Angeles	101	79	78.2
St. Mary Regional Medical Center— Apple Valley	Declined to Participate	Inland Empire, Riverside and San Bernardino	131	117	89.3
St. Mary's Medical Center—San Francisco	Declined to Participate	San Francisco Bay Area and San Jose	972	831	85.5
St. Vincent Medical Center	Participating	Greater Los Angeles	359	229	63.8
Stanford University Hospital	Participating	San Francisco Bay Area and San Jose	567	275	48.5
Summit Medical Center	Participating	San Francisco Bay Area and San Jose	232	153	65.9
Sutter Memorial Hospital	Participating	Sacramento Valley and Northern California	1080	707	65.5
Torrance Memorial Medical Center	Participating	Greater Los Angeles	300	201	67.0
Tri-City Medical Center	Participating	Greater San Diego	278	226	81.3
UC San Diego University Medical Center (Thornton and Hillcrest)	Participating (both hospitals)	Greater San Diego	189	49	25.9
UCLA Medical Center	Participating	Greater Los Angeles	571	180	31.5
UCSF Medical Center	Participating	San Francisco Bay Area and San Jose	507	138	27.2
UCSF/Mount Zion	Participating	San Francisco Bay Area and San Jose	56	42	75.0

Table 2: California Hospitals that Perform Adult CABG Surgeries—1998 (cont.)

Hospital	CCMRP Participation Status in 1997/98 Program	Region	Number of Open-heart Procedures*	Number of Isolated CABG Surgeries*	Isolated CABG as a % of all Open-heart Procedures
University of California Davis Medical Center	Participating	Sacramento Valley and Northern California	207	136	65.7
University of California Irvine Medical Center	Participating	Orange County	138	95	68.8
USC University Hospital	Participating	Greater Los Angeles	182	72	39.6
Valley Presbyterian Hospital	Declined to Participate	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	86	72	83.7
Washington Hospital—Fremont	Participating	San Francisco Bay Area and San Jose	217	166	76.5
West Anaheim Medical Center	Declined to Participate	Orange County	67	62	92.5
West Hills Regional Medical Center	Declined to Participate	San Fernando Valley, Antelope Valley, Ventura and Santa Barbara	113	82	72.6
Western Medical Center—Santa Ana	Declined to Participate	Orange County	159	124	78.0
Western Medical Center Hospital—Anaheim	Declined to Participate	Orange County	200	164	82.0
White Memorial Medical Center	Declined to Participate	Greater Los Angeles	112	90	80.4

*Source: Office of Statewide Health Planning and Development (OSHPD) Patient Discharge database. Excludes three Veterans Administration Hospitals in Los Angeles, San Diego, and San Francisco that also perform CABG surgeries. For this table, counts of surgical procedures are calculated from the patient's date of discharge from a hospital (that is, a patient receiving a CABG surgery on December 30, 1997 who was discharged on January 3, 1998 is counted among 1998 discharges).

For the 1997-1998 Reporting period, 79 of the 118 hospitals that regularly performed CABG surgery in 1998 voluntarily submitted data to CCMRP for public reporting of their risk-adjusted hospital mortality rates. Among hospitals that elected not to join the program, hospital staff gave a range of reasons for not participating, including a lack of sufficient staff resources to collect data, discomfort with publicly releasing data, and concern about the adequacy of the risk-adjustment method to fairly account for the sickness level of the patients they treat.

Because hospitals that chose not to participate did not submit data to CCMRP, a direct comparison of their risk-adjusted rates is not possible. However, based on OSHPD hospital discharge abstracts for the year 1998, the 79 participating hospitals performed a total of 19,714 isolated CABG surgeries, while the 38 non-participating hospitals performed a total of 7,946 cases. Table 3 provides a comparison of the number of isolated CABG surgeries and the "raw" or unadjusted death rate for participating and non-participating hospitals.

Table 3: Comparison of Unadjusted Mortality Rates for CCMRP Participating and Non-Participating Hospitals, 1998 Data				
	Number of Isolated CABG's	Share of All California CABG Cases (%)	In-hospital Deaths After CABG	Unadjusted Death Rate (%)
Participating Hospitals (79)⁷	19,714	71.3	522	2.65
Non-Participating Hospitals (38)	7,946	28.7	213	2.68
Total (118)	27,660	100.0	735	2.66

On average, participating hospitals performed more CABG surgeries than non-participants (approximately 250 per year for participants vs. 209 per year for non-participants), but the unadjusted death rate for the two groups is essentially identical. Participating hospitals performed 71% of isolated CABG surgeries in California in 1998.

⁷ For the 1997-1998 data reporting period, 80 out of a total of 118 California hospitals participated in CCMRP. However, CCMRP reports risk-adjusted mortality rates only for 79 hospital reporting units because UC San Diego University Medical Center, which represents two hospital facilities (Thornton and Hillcrest), submitted combined data for 1997-1998.

