

SUPPLEMENTARY MATERIALS

Supplementary Table 1. Descriptive characteristics of California emergency department visits, 2005-2015

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change	P-value
Total ED visits	10187048	10172173	10476830	10777904	11654758	11564940	11960916	12407787	12717983	13379768	14228961	39.7%	<0.001
Age group													
<5	1163718	1138675	1208600	1227060	1385661	1301325	1293277	1279965	1296007	1284076	1360921	16.9%	0.002
5-19	1543281	1508767	1548365	1580477	1850406	1704412	1748506	1768990	1851782	1926985	2060762	33.5%	<0.001
20-44	3540709	3503045	3567013	3621196	3858230	3857008	3984261	4158612	4238892	4546171	4817840	36.1%	<0.001
45-64	2169625	2224611	2321347	2441078	2596714	2671541	2794199	2939632	2997090	3197982	3379431	55.8%	<0.001
65+	1769715	1797075	1831505	1908093	1963747	2030654	2140673	2260588	2334212	2424554	2610007	47.5%	<0.001
Sex													
Male	4749677	4744206	4870474	4982441	5361116	5305158	5478365	5674693	5821163	6111803	6533740	37.6%	<0.001
Female	5400871	5426867	5605380	5794994	6293259	6259489	6482298	6732782	6896402	7267461	7694688	42.5%	<0.001
Unknown	36498	1092	973	463	383	290	251	310	418	504	518	-98.6%	0.243
Race/Ethnicity													
NH White	4629083	4678727	4803242	4882971	5136236	5101499	5215676	5364074	5343623	5473429	5670856	22.5%	<0.001
NH Black	995223	1039629	1103005	1163257	1282527	1298439	1349509	1413949	1427593	1497705	1566555	57.4%	<0.001
Hispanic	3003407	3087315	3289467	3489075	3983295	3913063	4120055	4314009	4580423	4911172	5358365	78.4%	<0.001
Other	853928	897019	952814	971168	1060702	1086787	1123314	1160613	1200721	1303590	1447204	69.5%	<0.001
Payer													
Private	3568181	3524078	3607646	3671131	3831600	3596830	3682133	3749377	3635780	3781082	3788784	6.2%	0.002
Medicaid	2330998	2328948	2475271	2652643	3114505	3117815	3229952	3362952	3629446	4858001	5849956	151.0%	0.001
Medicare	1901449	1961387	2021499	2136053	2213792	2329984	2470110	2642609	2728514	2839188	3002826	57.9%	<0.001
Uninsured/self-pay	1569042	1621182	1677550	1697604	1823444	1838886	1882198	1892743	1909953	1386455	1093733	-30.3%	0.527
Other	813974	734799	691266	617190	669627	679615	694036	757560	810812	511859	488805	-39.9%	0.112
Unknown	3404	1779	3598	3283	1790	1810	2487	2546	3478	3183	4857	42.7%	0.307
MSA													
Urban	9833448	9820399	10126757	10425976	11289497	11207639	11601631	12046167	12345194	12994568	13814543	40.5%	<0.001
Rural	353600	351774	350073	351928	365261	357301	359285	361620	372789	385200	414418	17.2%	0.010

ED, emergency department; NH, non-Hispanic; MSA, Metropolitan Statistical Area.

Supplementary Table 2. California emergency department visits, 2005-2015 – Medicaid insured

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change
Age group, years												
<5	542614	544552	593483	628214	747939	717052	718256	724611	768987	780620	888449	63.73%
5-19	522055	514867	545227	586634	747137	710344	745759	776316	903245	1009845	1190903	128.12%
20-44	793956	788866	824338	878460	1010731	1054531	1098763	1159400	1216910	1860400	2327443	193.15%
45-64	402904	413617	441945	484342	532408	557115	590926	625197	658112	1115845	1337561	231.98%
65+	69469	67046	70278	74993	76290	78773	76248	77428	82192	91291	105600	52.01%
Sex												
Male	957166	949817	1012699	1085992	1281902	1274150	1320155	1376332	1501034	2129754	2598751	171.50%
Female	1371554	1379005	1462442	1566587	1832524	1843597	1909759	1986582	2128339	2728127	3251043	137.03%
Race/Ethnicity												
NH White	731384	719852	754567	794179	895803	906345	922269	941378	960099	1382263	1669637	128.28%
NH Black	308077	319736	342370	377544	432888	438186	457551	482857	508968	680050	772846	150.86%
Hispanic	1048204	1060758	1151617	1254527	1534361	1511196	1590293	1676984	1866746	2389237	2903001	176.95%
Other	181239	181922	188889	188165	218784	232492	232486	235241	257996	360311	464135	156.09%
Unknown	62094	46680	37828	38228	32669	29596	27353	26492	35637	46140	40337	-35.04%

NH, non-Hispanic.

Supplementary Table 3. California emergency department visits, 2005-2015 – privately insured

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change
Age group, years												
<5	429459	408964	425124	430059	459516	418544	410245	391188	361352	340709	323370	-24.70%
5-19	708116	687035	692650	705363	793381	711824	723207	711686	669511	657252	638977	-9.76%
20-44	1346838	1326662	1345311	1351430	1363911	1281028	1337662	1387663	1362165	1460033	1466015	8.85%
45-64	937683	950346	983027	1011740	1036109	1016319	1034170	1078507	1056692	1130772	1157000	23.39%
65+	146085	151071	161534	172539	178683	169115	176849	180333	186060	192316	203422	39.25%
Sex												
Male	1663208	1644771	1683651	1703166	1770583	1651551	1690084	1709483	1652877	1712209	1737064	4.44%
Female	1900535	1878899	1923691	1967771	2060874	1945181	1991951	2039774	1982812	2068747	2051590	7.95%
Race/Ethnicity												
NH White	1735384	1764498	1829347	1838610	1889460	1763218	1787345	1804017	1742043	1764406	1728905	-0.37%
NH Black	259335	274790	290607	294616	314387	301938	312298	322555	305612	308854	303153	16.90%
Hispanic	819647	859756	926181	981879	1087422	1016798	1064338	1094322	1066446	1144353	1166619	42.33%
Other	330650	366942	401212	413098	446058	433656	447306	456385	449984	479157	506248	53.11%
Unknown	423165	258092	160299	142928	94273	81220	70846	72098	71695	84312	83859	-80.18%

NH, non-Hispanic.

Supplementary Table 4. Emergency department visits, 2005-2015 – Medicare insured

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change
Age group, years												
<5	8243	4200	5373	6251	5090	10439	10503	11613	13680	14754	12550	52.25%
5-19	10797	6279	6593	8337	7945	12708	14009	16263	19637	22658	21148	95.87%
20-44	143152	140675	148033	160620	167879	179749	188514	205036	206723	215200	212123	48.18%
45-64	275977	295922	318067	346547	370181	393129	420238	459603	477958	505885	522212	89.22%
65+	1463280	1514311	1543433	1614298	1662697	1733959	1836846	1950094	2010516	2080691	2234793	52.72%
Sex												
Male	821355	844714	867868	917990	950000	1006743	1066235	1142955	1189472	1240239	1318555	60.53%
Female	1077719	1116566	1153548	1218014	1263757	1323213	1403845	1499617	1538996	1598904	1684217	56.28%
Race/Ethnicity												
NH White	1222354	1258172	1299775	1346473	1382103	1441869	1510711	1599925	1624635	1663996	1742676	42.57%
NH Black	159263	170620	181588	198505	211765	224865	238157	257281	264718	277381	290440	82.37%
Hispanic	297507	315033	334522	371907	399036	431504	469415	517413	549923	583293	626736	110.66%
Other	156948	164791	176161	190060	197222	212005	231632	249920	268873	285875	315090	100.76%
Unknown	65377	52771	29453	29108	23666	19741	20195	18070	20365	28643	27884	-57.35%

NH, non-Hispanic.

Supplementary Table 5. Emergency department visits 2005-2015 – uninsured

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change
Age group, years												
<5	115388	120322	125362	114960	120588	107766	107416	105162	106741	101823	95770	-17.00%
5-19	199444	209014	216387	206858	222832	199173	194820	189107	189898	165966	143520	-28.04%
20-44	848935	887578	913148	931697	996065	1015494	1030280	1055437	1072956	777655	587183	-30.83%
45-64	346667	368433	385732	411485	451282	483683	515769	509668	504880	303459	227679	-34.32%
65+	58608	35835	36921	32604	32677	32770	33913	33369	35478	37552	39581	-32.46%
Sex												
Male	859641	890163	912620	922018	984241	994896	1018562	1026193	1028873	748368	603828	-29.76%
Female	705696	730669	764579	775460	839104	843907	863567	866453	880913	637901	489743	-30.60%
Race/Ethnicity												
NH White	593788	617404	649223	648562	697406	709652	710073	713594	695377	459614	335463	-43.50%
NH Black	178541	196121	209552	221673	242739	252220	260977	257628	244939	171578	137722	-22.86%
Hispanic	584084	626675	646508	659205	719615	712070	742101	745133	795756	610154	490429	-16.03%
Other	112259	119253	125578	125144	135331	141106	145983	148282	146588	120039	105257	-6.24%
Unknown	100370	61729	46689	43020	28353	23838	23064	28106	27293	25070	24862	-75.23%

NH, non-Hispanic.