Open Data Portal Walkthrough for Medi-Cal Dental Data

Department of Health Care Services
Medi-Cal Dental Services Division
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July 27, 2018

Open Data Portal

Option 1: open link https://data.chhs.ca.gov and search “dental”
Option 2: open link https://data.chhs.ca.gov/dataset?q=dental

CHHS Departments on the Open Data Portal

California Department of Aging
5 Datasets

California Department of Child Support Services
4 Datasets

Department of Developmental Services
8 Datasets

Department of Health Care Services
64 Datasets

Office of Statewide Health Planning & Development
83 Datasets

California Department of Public Health
71 Datasets

California Department of Social Services
9 Datasets

Department of Managed Health Care
4 Datasets

Department of Rehabilitation
13 Datasets

Office of the Patient Advocate
0 Datasets

California Health and Human Services Agency
7 Datasets

Department of Community Services & Development
2 Datasets

Department of State Hospitals
3 Datasets

Emergency Medical Services Authority
3 Datasets

Dental Performance Measures

- Measures Years: Calendar Year (CY) 2013 – 2016
- Stratifications
  - By age
  - By age and county
  - By age and race/ethnicity
  - By age, county and race/ethnicity
- Dental Performance Measures

One-Year Measures	Multi-Year Measures
Annual Dental Visit	Continuity of Care
Dental Treatment	Usual Source of Care
Treatment for caries or Caries-preventive procedure	Utilization 1yr dental service
Dental Exams	Utilization 2yr dental service
Preventive Dental Services	Utilization 3yr dental service
Restorative Dental Treatment	
Use of Sealant (Age 6-9 and 10-14)	

- Eligible Beneficiary Criteria
  - Beneficiaries who were enrolled in Fee-for-Service (FFS) or the same Dental Managed Care (DMC) plan for at least three continuous months during a measure period (3 mo. cont. elig.)
  - Full scope benefits
  - No share of cost

Dental FFS Provider Profile

- Data Elements
  - Provider Number
  - Office Location Number
  - NPI Number
  - Provider Legal Name
  - Enrollment Status Effective Date
  - Provider Type Code
  - Provider Type Code Desc
  - Specialty Code
  - Specialty Code Desc
  - Out Of State Ind
  - Out Of State Desc
  - County Code
  - County Code Desc
  - Address Line 1
  - Address Line 2
  - Address Line 3
  - Address City
  - Address State
  - Address Zip

Navigating a Data Set

https://data.chhs.ca.gov/dataset/test-dhcs-dental-utilization-measures-and-sealant-data-by-age-groups-calendar-year-2013-to-2015

Home / Departments / Department of Health Care ... / Dental Utilization Measures ...

Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 2013 to 2016

Followers
0

Organization

Department of Health Care Services

Department of Health Care Services

The mission of the California Department of Health Care Services (DHCS) is to provide Californians with access to affordable, integrated, high-quality health care, including... read more

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Dataset

Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 2013 to 2016

This dataset shows the use of Medi-Cal dental benefits by Medi-Cal beneficiaries displayed by age groups and calendar year (for 2013, 2014, 2015 and 2016). This information consists of beneficiaries receiving dental services in the following categories: annual dental visit (Current Dental Terminology (CDT) codes D0100-D9999), preventive services (CDT codes D1000-D1999), dental exams (CDT codes D0120, D0145, and D0150), restorative services (CDT codes D2000-D2999), sealants (CDT code D1351) dental treatment (CDT codes D2000-D9999), and caries or fluoride treatment (CDT codes D2000-D2999 or D1203-D1208, D1310, D1330, D1351). The Medi-Cal beneficiaries included in this dataset include those continuously enrolled in either Dental Managed Care or the Dental Fee-for-Service delivery system for at least 3 months.

Data and Resources

Data

Dental Utilization Measures and Sealant Data by ...
This dataset shows the use of Medi-Cal dental benefits by Medi-Cal... Preview Download

Data Dictionary
Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 201... Preview Download

Additional Info

Data Dictionary/Meta Data

Download

Field	Value
Contact Email	opendata@dhcs.ca.gov
Program	Department of Health Care Services, Medi-Cal Dental Services Division
Homepage URL	http://www.dhcs.ca.gov/services/Pages/DentalReports.aspx
Temporal Coverage	2013-2016
Spatial/Geographic Coverage	State

Using a Data Set

Download comma-separated values (CSV) file

Home › Departments › Department of Health Care ... › Dental Utilization Measures ... › Dental Utilization Measures ...

Download | Data API

Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 2013 to 2016

Application programming interface (API)

URL: https://data.chhs.ca.gov/datasets/f256b423-68ed-4958-ae79-9b2505e0578b/resource/ced1302b-0f32-426f-85d7-fb4c9e283444/downloa...

This dataset shows the use of Medi-Cal dental benefits by Medi-Cal beneficiaries displayed by age groups and calendar year (for 2013, 2014, 2015 and 2016). This information consists of beneficiaries receiving dental services in the following categories: annual dental visit (Current Dental Terminology (CDT) codes D0100-D9999), preventive services (CDT codes D1000-D1999), dental exams (CDT codes D0120, D0145, and D0150), restorative services (CDT codes D2000-D2999), sealants (CDT code D1351) dental treatment (CDT codes D2000-D9999), and caries or fluoride treatment (CDT codes D2000-D2999 or D1203-D1208, D1310, D1330, D1351). The Medi-Cal beneficiaries included in this dataset include those continuously enrolled in either Dental Managed Care or the Dental Fee-for-Service delivery system for at least 3 months.

Data Table

Data preview

Embed

Add Filter

Show 10 entries

Hide/Unhide Columns

Showing 1 to 10 of 336 entries (filtered from 0 total entries)

Search:

_id	Calendar Year	Measure	Age Filter	Users	Users Annotation code	Users Annotation Description	Denominator (3 Months Continuous Eligibility)	Denominator Annotation code
1	CY 2013	Annual Dental Visit (D0100 - D9999)	Age <1	3922			251033	
2								
3	CY 2013	Annual Dental Visit (D0100 - D9999)	Age 1-2	127182			577485	
4								
5	CY 2013	Annual Dental Visit	Age 3-5	463983			865127	

Data Preview
Filter and Sort

Data Table

Canonical View

Embed

FILTER

County:

Fresno

Add Filter

Show 10 entries

Hide/Unhide Columns

Showing 1 to 6 of 6 entries (filtered from 0 total entries)

SORT

Search:

_id	County	Calendar Year	Measure	Age Group	Numerator	Denominator	Rate
55	Fresno	CY 2013	Sealant Users	Age 6-9	8250	45291	18.2%
57	Fresno	CY 2014	Sealant Users	Age 6-9	8200	47670	17.2%
59	Fresno	CY 2015	Sealant Users	Age 6-9	8661	49743	17.4%
56	Fresno	CY 2013	Sealant Users	Age 10-14	4093	46990	8.7%
58	Fresno	CY 2014	Sealant Users	Age 10-14	4259	49987	8.5%
60	Fresno	CY 2015	Sealant Users	Age 10-14	4412	53224	8.3%

Showing 1 to 6 of 6 entries (filtered from 0 total entries)

Previous 1 Next

Data Dictionary/Meta Data

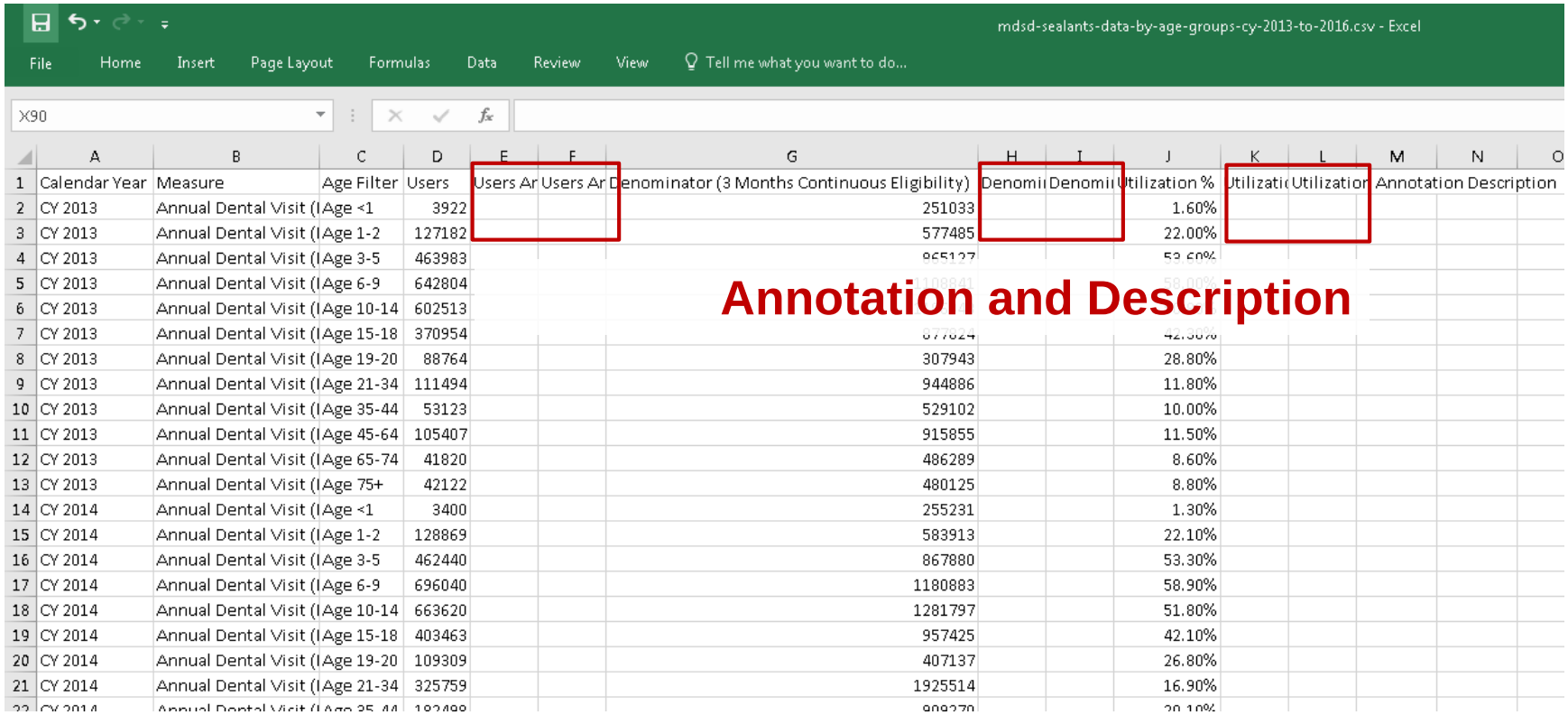
Data Dictionary

Dataset Name: **Dental Utilization Measures and Sealant by Age Calendar Year 2013 to 2016**

Chart/Visualization Name/s: **1.** Click here to enter text.

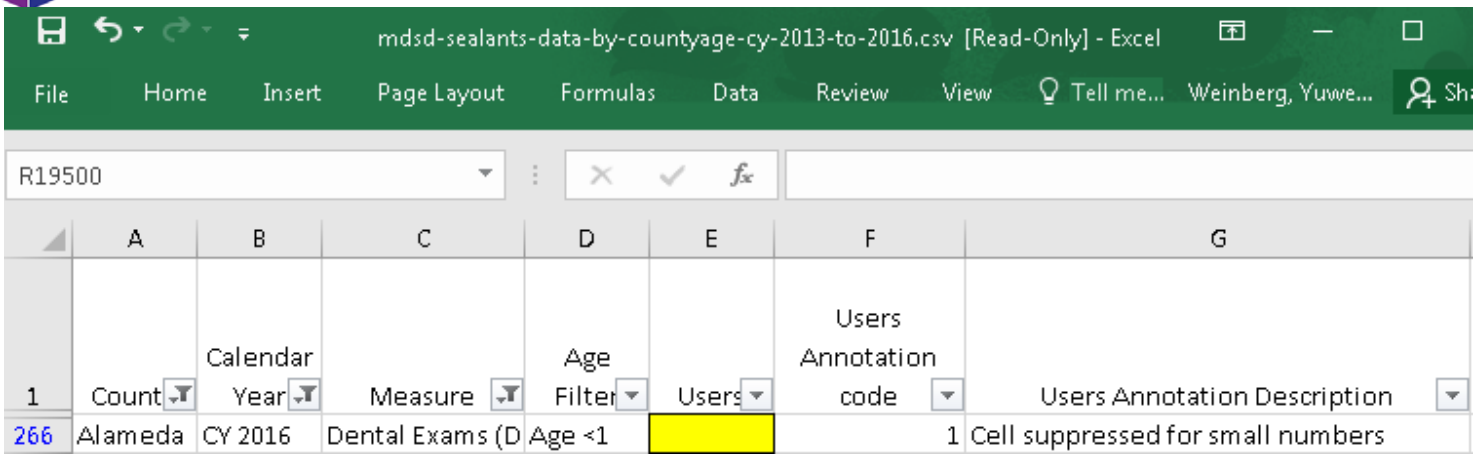
Field Title	Field Name	Data type	Description
Calendar Year	Calendar Year	Text	Calendar Year (CY) of the data: CY 2013, 2014, 2015 and 2016
Age Filter	Age Group	Text	Age Group for Measures: Age <1, Age 1-2, Age 3-5, Age 6-9, Age 10-14, Age 15-18, Age 19-20, Age 21-34, Age 35-44, Age 45-64, Age 65-74, Age 75+
Users	Users	Numeric	Number of users for Measures
Users Annotation code	Users Annotation code	Text	Annotation code
Users Annotation Description	Users Annotation Description	Text	Annotation Description
Denominator (3 Months Continuous Eligibility)	Denominator (3 Months Continuous Eligibility)	Numeric	Elig 3+ months: Number of Full-Scope beneficiaries with no Share of Cost (SOC) with at least 3 months of continuous eligibility in the same plan. This is the denominator for all measures listed above.

Open a dataset in Excel



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Calendar Year	Measure	Age Filter	Users	Users Ar	Users Ar	Denominator (3 Months Continuous Eligibility)	Denomi	Denomi	Utilization %	Utilizati	Utilizatior	Annotation	Description	
2	CY 2013	Annual Dental Visit (I	Age <1	3922			251033			1.60%					
3	CY 2013	Annual Dental Visit (I	Age 1-2	127182			577485			22.00%					
4	CY 2013	Annual Dental Visit (I	Age 3-5	463983			865127			53.60%					
5	CY 2013	Annual Dental Visit (I	Age 6-9	642804			1108841			58.00%					
6	CY 2013	Annual Dental Visit (I	Age 10-14	602513			[illegible]			[illegible]					
7	CY 2013	Annual Dental Visit (I	Age 15-18	370954			877824			42.30%					
8	CY 2013	Annual Dental Visit (I	Age 19-20	88764			307943			28.80%					
9	CY 2013	Annual Dental Visit (I	Age 21-34	111494			944886			11.80%					
10	CY 2013	Annual Dental Visit (I	Age 35-44	53123			529102			10.00%					
11	CY 2013	Annual Dental Visit (I	Age 45-64	105407			915855			11.50%					
12	CY 2013	Annual Dental Visit (I	Age 65-74	41820			486289			8.60%					
13	CY 2013	Annual Dental Visit (I	Age 75+	42122			480125			8.80%					
14	CY 2014	Annual Dental Visit (I	Age <1	3400			255231			1.30%					
15	CY 2014	Annual Dental Visit (I	Age 1-2	128869			583913			22.10%					
16	CY 2014	Annual Dental Visit (I	Age 3-5	462440			867880			53.30%					
17	CY 2014	Annual Dental Visit (I	Age 6-9	696040			1180883			58.90%					
18	CY 2014	Annual Dental Visit (I	Age 10-14	663620			1281797			51.80%					
19	CY 2014	Annual Dental Visit (I	Age 15-18	403463			957425			42.10%					
20	CY 2014	Annual Dental Visit (I	Age 19-20	109309			407137			26.80%					
21	CY 2014	Annual Dental Visit (I	Age 21-34	325759			1925514			16.90%					
22	CY 2014	Annual Dental Visit (I	Age 35-44	182488			909270			20.10%					

Annotation – Small Numbers



	A	B	C	D	E	F	G
1	Count	Calendar Year	Measure	Age Filter	Users	Users Annotation code	Users Annotation Description
266	Alameda	CY 2016	Dental Exams (D	Age <1		1	Cell suppressed for small numbers

- Alameda CY 2016 Age <1 Users of Dental Exams is less than 11
  - Users Annotation code = “1”
  - Users Annotation Description: Cell suppressed for small numbers
  - DHCS Data De-identification Guidelines (DDG) http://www.dhcs.ca.gov/dataandstats/Documents/DHCS-DDG-V2.0-120116.pdf

Annotation – Small Numbers

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Count	Calendar Year	Measure	Age Filter	Users	Users Annotation code	Users Annotation Description	Denominator (3 Months Continuous Eligibility	Denominator Annotation code	Denominator Annotation Description	Utilization	Utilization Annotation code	Utilization Annotation Description
266	Alameda	CY 2016	Dental Exams (D	Age <1		1	Cell suppressed for small numbers	6942				1	Cell suppressed for small numbers

$$\frac{Users}{Denominator(3\,mo.cont.elig.)} = Utilization$$

- **3 mo. cont. elig.** : Beneficiaries who were enrolled in FFS or the same DMC plan for at least 3 continuous months (90 days) during a measure year.
- Alameda CY 2016 Age <1 Users of Dental Exams is less than 11
  - Utilization Annotation code = “1”
  - Utilization Annotation Description: Cell suppressed for small numbers

Annotation – Complementary Cell

	A	B	C	D	E	F	G
1	Count	Calendar Year	Measure	Age Filter	Users	Users Annotation code	Users Annotation Description
266	Alameda	CY 2016	Dental Exams (D	Age <1		1	Cell suppressed for small numbers
267	Alameda	CY 2016	Dental Exams (D	Age 1-2		2	Cell suppressed for complementary cell
268	Alameda	CY 2016	Dental Exams (D	Age 3-5	10801		
269	Alameda	CY 2016	Dental Exams (D	Age 6-9	16984		
270	Alameda	CY 2016	Dental Exams (D	Age 10-14	17136		
271	Alameda	CY 2016	Dental Exams (D	Age 15-18	9997		
272	Alameda	CY 2016	Dental Exams (D	Age 19-20	2898		

- Alameda CY 2016 Age 1-2 Users of Dental Exams is the second lowest among all children age groups
  - User Annotation code = “2”
  - User Annotation Description: Cell suppressed for complementary cell

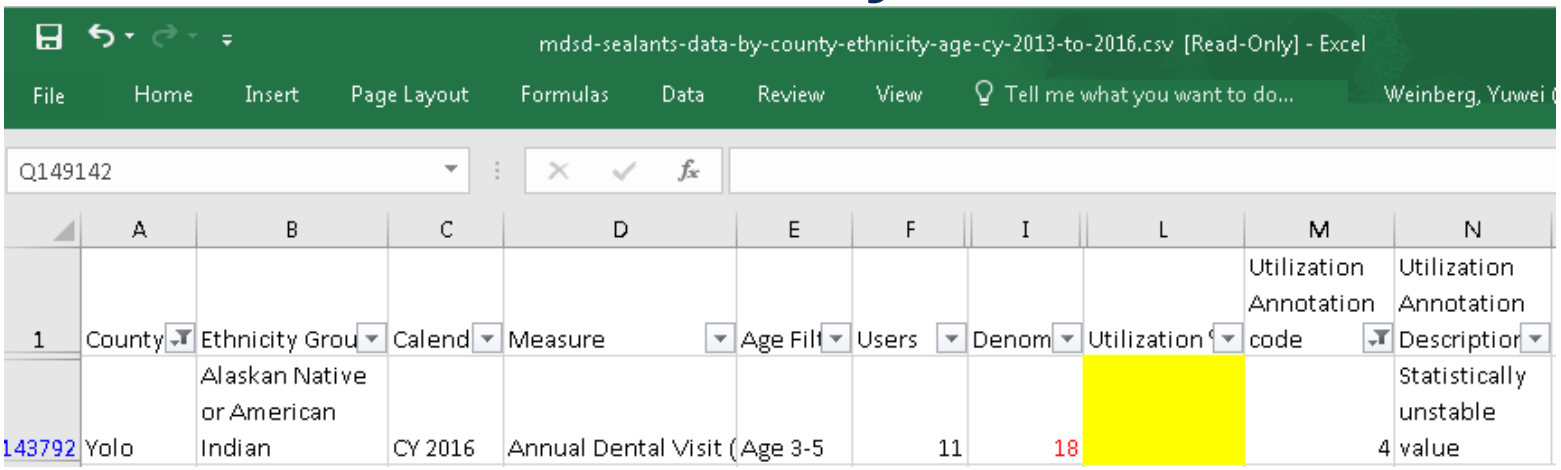
Annotation – Complementary Cell

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Count	Calendar Year	Measure	Age Filter	Users	Users Annotation code	Users Annotation Description	Denominator (3 Months Continuous Eligibility	Denominator Annotation code	Denominator Annotation Description	Utilization	Utilization Annotation code	Utilization Annotation Description
266	Alameda	CY 2016	Dental Exams (D	Age <1		1	Cell suppressed for small numbers	6942				1	Cell suppressed for small numbers
267	Alameda	CY 2016	Dental Exams (D	Age 1-2		2	Cell suppressed for complementary cell	17088				2	Cell suppressed for complementary cell

$$\frac{Users}{Denominator(3\,mo.cont.elig.)} = Utilization$$

- Alameda CY 2016 Age 1-2 Users of Dental Exams is the second lowest among all children age groups
  - Utilization Annotation code = “2”
  - Utilization Annotation Description: Cell suppressed for complementary cell

Annotation – Statistically unstable value



	A	B	C	D	E	F	I	L	M	N
1	County	Ethnicity Grou	Calend	Measure	Age Fil	Users	Denom	Utilization	Utilization Annotation code	Utilization Annotation Descriptior
143792	Yolo	Alaskan Native or American Indian	CY 2016	Annual Dental Visit (	Age 3-5	11	18		4	Statistically unstable value

- Yolo CY 2016 Age 3-5 Denominator of Annual Dental Visit is more than 11 but less than 30
  - Utilization Annotation code = “4”
  - Utilization Annotation Description: Statistically unstable value
  - Example: $\frac{11}{18} = 61\%$ and $\frac{12}{18} = 67\%$, increasing one person makes a 6% increase on the utilization, which is not reliable/stable.

Use Case 1: Dental Transformation Initiative

Domain 1 Goal

- Domain 1: Increase the statewide Preventive Dental Services Utilization for children ages one (1) through twenty (20) enrolled in Medi-Cal by ten (10) percentage points over a five (5) year period.

How can I see Domain 1 improvement on the Open Data Portal?

Criteria:

- Region: Statewide
- Age: 1-20
- Measure: Preventive Dental Services
- Periods:
  - Baseline: CY 2014
  - Program Year 1: CY 2016
- Data Set: Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 2013 to 2016

Use Case: Dental Transformation Initiative

Calendar Year	Age Filter	Users	Denominator (3 Months Continuous Eligibility)
CY 2014	Age 1-2	84,060	583,913
CY 2014	Age 3-5	371,506	867,880
CY 2014	Age 6-9	584,648	1,180,883
CY 2014	Age 10-14	555,465	1,281,797
CY 2014	Age 15-18	320,334	957,425
CY 2014	Age 19-20	80,468	407,137
CY 2016	Age 1-2	121,209	605,175
CY 2016	Age 3-5	433,794	903,380
CY 2016	Age 6-9	693,326	1,247,032
CY 2016	Age 10-14	707,791	1,456,248
CY 2016	Age 15-18	403,378	1,102,856
CY 2016	Age 19-20	106,675	492,478

Calendar Year	Age	Users	Denominator	Utilization %
CY 2014	**Age 1-20**	**1,996,481**	**5,279,035**	**37.82%**
CY 2016	**Age 1-20**	**2,466,173**	**5,807,169**	**42.47%**

- Region: Statewide
- Age: 1-20
- Measure: Preventive Dental Services
- Periods:
  - Baseline: CY 2014
  - Program Year 1: CY 2016
- Data Set: Dental Utilization Measures and Sealant Data by Age Groups Calendar Year 2013 to 2016

CY 2016-CY2014 =Increment

42.47%-37.82% = 4.65%

**Data is slightly differently from the DTI Annual Report Program Year 1 because data is not queried in the same month.*

Billing Provider/Dental Offices

https://data.chhs.ca.gov/dataset/profile-of-enrolled-medi-cal-fee-for-service-ffs-providers-as-of-june-1-2017

Provider Number	Office Location Number	NPI Number	Provider Legal Name	Enrollment Status Effective Date	Provider Type Code	Provider Type Code Desc	Specialty Code	Specialty Code Desc
G86722	01	1487963278	JORDAN LANDING DENTAL CARE	05/02/17	Billing Office	Billing Office	N/A	N/A
G86819	01	1215320775	DENTAL CENTER OF ST GEORGE L	12/20/16	Billing Office	Billing Office	N/A	N/A
G87303	01	1639453327	KIDSPEACE NATIONAL CENTERS I	02/29/16	Billing Office	Billing Office	N/A	N/A
G93985	01	1417981606	DOVE, EDWARD E, DDS	09/27/16	Billing Office	Billing Office	N/A	N/A
G93985	02	1821281809	DOVE, EDWARD E, DDS	09/27/16	Billing Office	Billing Office	N/A	N/A
G93985	05	1417981606	DOVE, EDWARD E, DDS	09/27/16	Billing Office	Billing Office	N/A	N/A
B16356	01	1770691545	HASHIMOTO, W W, DDS	04/28/15	Billing Office	Billing Office	N/A	N/A
B20716	01	1760607196	PRATT, K TERRY, DDS INC	08/04/17	Billing Office	Billing Office	N/A	N/A

Out Of State Ind	Out Of State Desc	County Code	County Code Desc	Address Line 1	Address Line 2	Address Line 3	Address City	Address State	Address Zip
2	Out of state provider	00	Out of state	7611 S JORDAN LANDING		BLVD	WEST JORDAN	UT	84084-5610
2	Out of state provider	00	Out of state	321 N MALL DR STE P101			SAINT GEORG	UT	84790-7338
2	Out of state provider	00	Out of state	4085 INDEPENDENCE DR			SCHNECKSVIL	PA	18078-2574
0	In state provider	15	Kern	3130 UNION AVE			BAKERSFIELD	CA	93305-3443
0	In state provider	19	Los Angeles	20523 DEVONSHIRE ST			CHATSWORTH	CA	91311-3208
2	Out of state provider	00	Out of state	1004 S HOPI AVE			PARKER	AZ	85344-5134
0	In state provider	01	Alameda	38080 MARTHA AVE STE A			FREMONT	CA	94536-3809
0	In state provider	01	Alameda	2217 CENTRAL AVE			ALAMEDA	CA	94501-4410

Rendering Providers

Provider Number	Office Location Number	NPI Number	Provider Legal Name	Enrollment Status Effective Date	Provider Type Code	Provider Type Code Desc	Specialty Code	Specialty Code Desc
		1083865646	YOON, AUDREY J	02/07/15	Rendering Provide	Rendering Provi	25, 30	CERT ORTHODONTIST, PEDODONTIST
		1083885685	ALEXANDER, KEITH A	09/22/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1083922827	MOADEL, MATTHEW N	04/08/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1093179665	WONG, KATHERINE A	05/24/17	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1093841314	BAKHTARI, ARASH H	04/27/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1093847261	COLE, WILLIAM A	04/20/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1093847295	NAKAMURA, HOWARD M	03/27/18	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1104006196	WOOLRIDGE, KENDALL S	09/10/15	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1104899780	TIPTON, DAVID F	07/01/15	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1104915537	HARRISON, KENNETH T	01/13/17	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1104983485	JAMES, KENDALL E	05/11/18	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1104985993	FIROUZ, MAURICE E	02/03/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1114041456	HAIDAR, LOUIE M	02/17/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1114101722	MIRZABAGI, MOSTAFA H	02/22/17	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST
		1114140274	WEINTRAUB, DENIS M	01/13/17	Rendering Provide	Rendering Provi	25, 30	CERT ORTHODONTIST, PEDODONTIST
		1114318342	KIM, SUSAN D	03/02/16	Rendering Provide	Rendering Provi	25	CERT ORTHODONTIST

Out Of State Ind	Out Of State Desc	County Code	County Code Desc	Address Line 1	Address Line 2	Address Line 3	Address City	Address State	Address Zip

Safety Net Clinics

Provider Number	Office Location Number	NPI Number	Provider Legal Name	Enrollment Status Effective Date	Provider Type Code	Provider Type Code Desc	Specialty Code	Specialty Code Desc	Out Of State Ind	Out Of State Desc
		1316937121	ADVENTIST HEALTH CLEARLAKE		053	EVERY WOMAN COUNTS				
		1841626587	ADVENTIST HEALTH CLEARLAKE		035	RURAL HEALTH CLINICS/FEDERALLY QUALIFIED HEALTH CENTER				
		1104959089	ALAMEDA COUNTY MED CTR		058	HEALTH ACCESS PROGRAM				
		1922131804	ALAMEDA COUNTY MED CTR		058	HEALTH ACCESS PROGRAM				
		1548551997	ALAMEDA COUNTY MEDICAL		045	CLINIC EXEMP FROM LICENSURE				
		1033241633	ALAMEDA HEALTH SYSTEM		058	HEALTH ACCESS PROGRAM				
		1710218409	ALLIANCE MEDICAL CENTER		058	HEALTH ACCESS PROGRAM				
		1750399796	ALLIANCE MEDICAL CENTER		058	HEALTH ACCESS PROGRAM				
		1528108610	ALTA FAMILY HEALTH CLIN		058	HEALTH ACCESS PROGRAM				
		1982814745	ALTAMED COMM HEALTH CLIN		035	RURAL HEALTH CLINICS/FEDERALLY QUALIFIED HEALTH CENTER				
		1518171016	ALTAMED HEALTH SERVICES		089	ELECTRONIC HEALTH RECORD INCENTIVE PROGRAM				

Specialty Code	Specialty Code Desc	Out Of State Ind	Out Of State Desc	County Code	County Code Desc	Address Line 1	Address Line 2	Address Line 3	Address City	Address State	Address Zip
						15230 LAKE	SHORE DR		CLEARLAK	CA	95422-8107
ERALLY QUALIFIED HEALTH CENTER						9430 LAKE	SUITE C		LOWER LA	CA	95457-8600
						6955 FOO	STE 200		OAKLAND	CA	94605-2426
						6066 CIVIC	TERRACE AVE		NEWARK	CA	94560-3746
URE						1411 E 31S	KORET BLDG, 6TH FL		OAKLAND	CA	94602-1018
						664 SOUTH	LAND MALL		HAYWARD	CA	94545-2150
						8465 OLD	SUITE 320		WINDSOR	CA	95492-8090
						1381 UNIV	ERSITY ST		HEALDSBU	CA	95448-3314
						888 N ALT	STE 103		DINUBA	CA	93618-3089
ERALLY QUALIFIED HEALTH CENTER						10418 VAI	STE B		EL MONTE	CA	91731-2402
D INCENTIVE PROGRAM						6901 ATLANTIC AVE			BELL	CA	90201-3646

Q&A