Collaborative Service Areas:
ORAL HEALTH DATA

Bureau of Oral and Health Delivery Systems | October 2021

I-Smile
Iowa Department of Public Health

IDPH
IOWA Department
of PUBLIC HEALTH

SUMMARY

Statewide

- Over 40% of Iowa children 20 and younger are enrolled in Medicaid;
- Children under 3 enrolled in Medicaid are least likely to access dental care and children under 1 enrolled in Medicaid are 10 times more likely to receive a dental service from I-Smile than either a dental clinic or FQHC;
- 41 of Iowa's 99 counties do not have a dentist taking new referrals of Medicaid enrollees;
- Children ages 3-5 are most likely to use a medical setting for preventable dental diagnoses (extensive decay abscesses, etc.) compared to children through 20 years of age.

Non-White Groups

- Children of non-white racial and ethnic groups make up 21 percent of Iowa's 20 and younger population, with Buena Vista, Crawford, Marshall, Wright and Franklin counties among those with highest proportions;
- Children of non-white racial and ethnic groups are more likely experience a preventable dental diagnosis in a medical setting than white children;
- Counties with higher proportions of non-white populations (i.e. Buena Vista) also have higher rates of being uninsured, free/reduced lunch eligibility, Medicaid-enrollment, and using a medical setting for preventable dental diagnoses.

Geographic Areas

- Buena Vista, Crawford, Marshall, Tama, Wright, Franklin, & Woodbury counties show high need in uninsured, Medicaid enrollment, non-white populations, English proficiency, and free/reduced lunch rates;
- Southern-most two rows of counties hold the highest proportions of children 18 and younger in poverty;
- Southeastern Iowa counties are least likely to receive a dental service from a dental clinic
- Children enrolled in Medicaid and residing in northwestern and southeastern Iowa counties are least likely to receive a dental service from any provider

ANY DENTAL OR ORAL HEALTH SERVICE

Data Source: Centers of Medicaid and Medicare Service, EPSDT Report, FFY2019
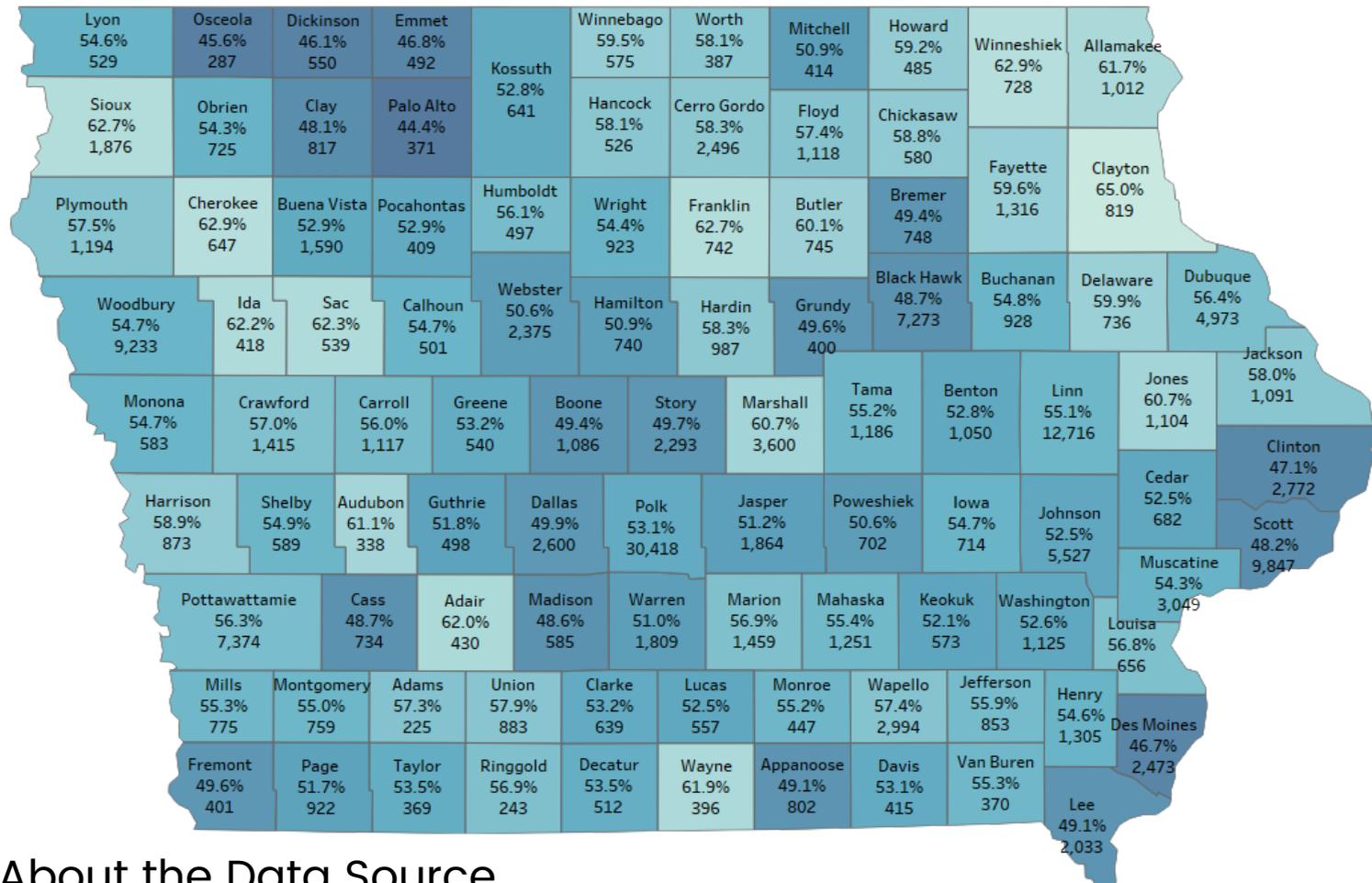
Indicator

The percentage of children ages 20 and younger enrolled in Iowa Medicaid that had a reimbursed dental or oral health service within Federal Fiscal Year 2019.

STATE VALUE: 53.6% (175,965 kids)

Main Findings

Counties in northwestern Iowa, including Palo Alto, Osceola, Dickinson, and Emmet counties, as well as Des Moines and Clinton are among those with the lowest rates, with less than half of children ages 20 and younger receiving a dental service from any provider.

Iowa county map with dental service percentages:

County	%	Count
Lyon	54.6%	529
Osceola	45.6%	287
Dickinson	46.1%	550
Emmet	46.8%	492
Kossuth	52.8%	641
Winnebago	59.5%	575
Worth	58.1%	387
Mitchell	50.9%	414
Howard	59.2%	485
Winneshiek	62.9%	728
Allamakee	61.7%	1,012
Sioux	62.7%	1,876
Obrien	54.3%	725
Clay	48.1%	817
Palo Alto	44.4%	371
Hancock	58.1%	526
Cerro Gordo	58.3%	2,496
Floyd	57.4%	1,118
Chickasaw	58.8%	580
Fayette	59.6%	1,316
Clayton	65.0%	819
Plymouth	57.5%	1,194
Cherokee	62.9%	647
Buena Vista	52.9%	1,590
Pocahontas	52.9%	409
Humboldt	56.1%	497
Wright	54.4%	923
Franklin	62.7%	742
Butler	60.1%	745
Bremer	49.4%	748
Woodbury	54.7%	9,233
Ida	62.2%	418
Sac	62.3%	539
Calhoun	54.7%	501
Webster	50.6%	2,375
Hamilton	50.9%	740
Hardin	58.3%	987
Grundy	49.6%	400
Black Hawk	48.7%	7,273
Buchanan	54.8%	928
Delaware	59.9%	736
Dubuque	56.4%	4,973
Monona	54.7%	583
Crawford	57.0%	1,415
Carroll	56.0%	1,117
Greene	53.2%	540
Boone	49.4%	1,086
Story	49.7%	2,293
Marshall	60.7%	3,600
Tama	55.2%	1,186
Benton	52.8%	1,050
Linn	55.1%	12,716
Jones	60.7%	1,104
Jackson	58.0%	1,091
Clinton	47.1%	2,772
Harrison	58.9%	873
Shelby	54.9%	589
Audubon	61.1%	338
Guthrie	51.8%	498
Dallas	49.9%	2,600
Polk	53.1%	30,418
Jasper	51.2%	1,864
Poweshiek	50.6%	702
Iowa	54.7%	714
Johnson	52.5%	5,527
Cedar	52.5%	682
Scott	48.2%	9,847
Muscatine	54.3%	3,049
Pottawattamie	56.3%	7,374
Cass	48.7%	734
Adair	62.0%	430
Madison	48.6%	585
Warren	51.0%	1,809
Marion	56.9%	1,459
Mahaska	55.4%	1,251
Keokuk	52.1%	573
Washington	52.6%	1,125
Louisa	56.8%	656
Mills	55.3%	775
Montgomery	55.0%	759
Adams	57.3%	225
Union	57.9%	883
Clarke	53.2%	639
Lucas	52.5%	557
Monroe	55.2%	447
Wapello	57.4%	2,994
Jefferson	55.9%	853
Henry	54.6%	1,305
Des Moines	46.7%	2,473
Fremont	49.6%	401
Page	51.7%	922
Taylor	53.5%	369
Ringgold	56.9%	243
Decatur	53.5%	512
Wayne	61.9%	396
Appanoose	49.1%	802
Davis	53.1%	415
Van Buren	55.3%	370
Lee	49.1%	2,033

About the Data Source

Federal statute requires states to annually report information relating to Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) services provided under the State plan. Iowa Medicaid Enterprise further disaggregates the data by county. Strengths: allows us to better understand access to services among enrollees across the state; comparable across states. Limitations: Doesn't allow for further disaggregate data, such as by service provider or race and ethnicity.

DENTAL CLINIC VISIT

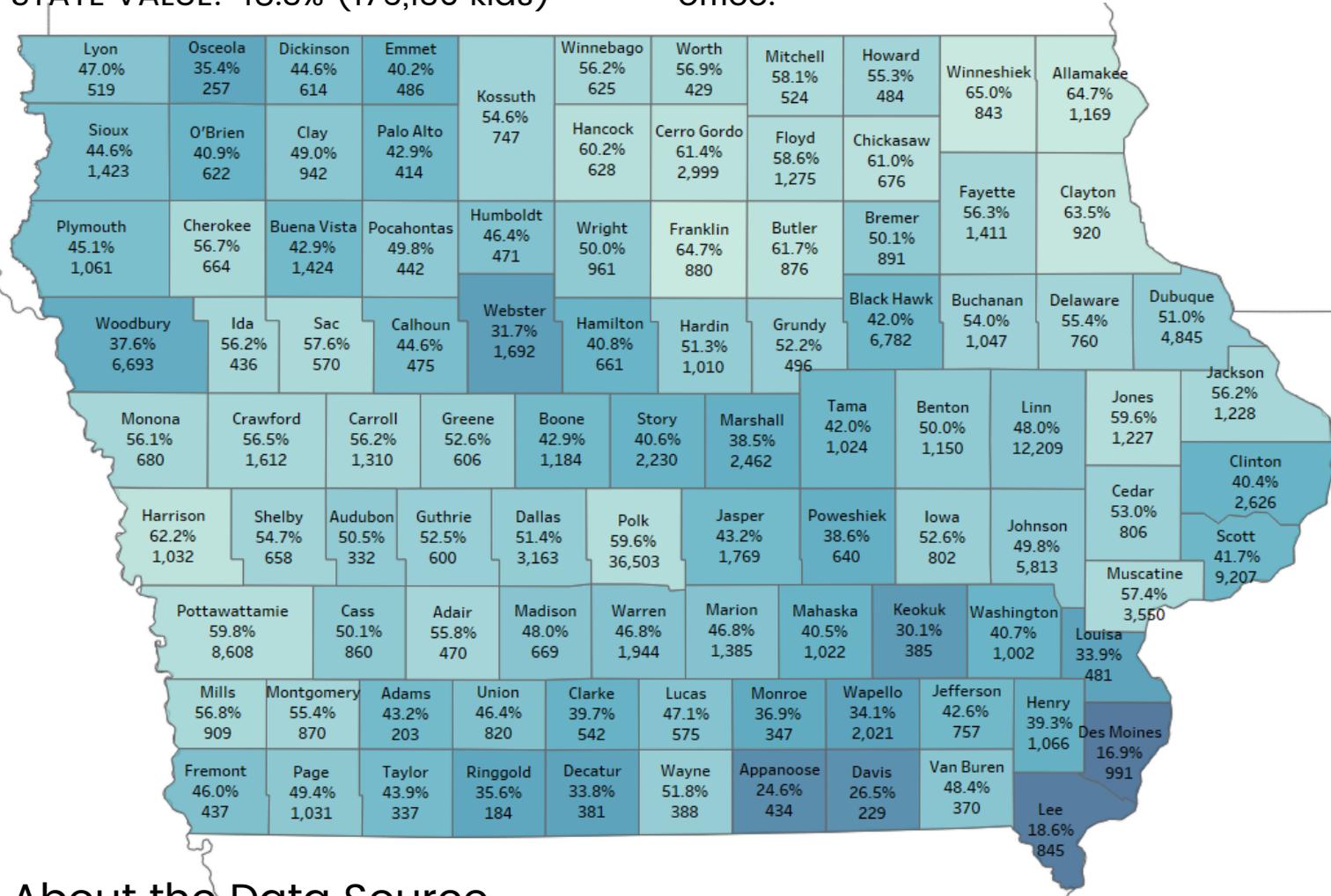*Data Source: Iowa Medicaid Enterprise Paid Claims, SFY2019*

Indicator

The percentage of children ages 20 and younger enrolled in Iowa Medicaid with a reimbursed dental claim from a dental office within State Fiscal Year 2019.

STATE VALUE: 48.3% (176,130 kids)

Main Findings

Counties in southern Iowa, including Des Moines, Lee, Davis, and Appanoose counties are those with the lowest rates, with **less than 1 in 5 children ages 20 and younger enrolled in Iowa Medicaid received a dental service from a dental office.**

County	Percentage	Count
Lyon	47.0%	519
Osceola	35.4%	257
Dickinson	44.6%	614
Emmet	40.2%	486
Winnebago	56.2%	625
Worth	56.9%	429
Mitchell	58.1%	524
Howard	55.3%	484
Winneshiek	65.0%	843
Allamakee	64.7%	1,169
Sioux	44.6%	1,423
O'Brien	40.9%	622
Clay	49.0%	942
Palo Alto	42.9%	414
Kossuth	54.6%	747
Hancock	60.2%	628
Cerro Gordo	61.4%	2,999
Floyd	58.6%	1,275
Chickasaw	61.0%	676
Fayette	56.3%	1,411
Clayton	63.5%	920
Plymouth	45.1%	1,061
Cherokee	56.7%	664
Buena Vista	42.9%	1,424
Pocahontas	49.8%	442
Humboldt	46.4%	471
Wright	50.0%	961
Franklin	64.7%	880
Butler	61.7%	876
Bremer	50.1%	891
Woodbury	37.6%	6,693
Ida	56.2%	436
Sac	57.6%	570
Calhoun	44.6%	475
Webster	31.7%	1,692
Hamilton	40.8%	661
Hardin	51.3%	1,010
Grundy	52.2%	496
Black Hawk	42.0%	6,782
Buchanan	54.0%	1,047
Delaware	55.4%	760
Dubuque	51.0%	4,845
Monona	56.1%	680
Crawford	56.5%	1,612
Carroll	56.2%	1,310
Greene	52.6%	606
Boone	42.9%	1,184
Story	40.6%	2,230
Marshall	38.5%	2,462
Tama	42.0%	1,024
Benton	50.0%	1,150
Linn	48.0%	12,209
Jones	59.6%	1,227
Jackson	56.2%	1,228
Harrison	62.2%	1,032
Shelby	54.7%	658
Audubon	50.5%	332
Guthrie	52.5%	600
Dallas	51.4%	3,163
Polk	59.6%	36,503
Jasper	43.2%	1,769
Poweshiek	38.6%	640
Iowa	52.6%	802
Johnson	49.8%	5,813
Cedar	53.0%	806
Clinton	40.4%	2,626
Scott	41.7%	9,207
Pottawattamie	59.8%	8,608
Cass	50.1%	860
Adair	55.8%	470
Madison	48.0%	669
Warren	46.8%	1,944
Marion	46.8%	1,385
Mahaska	40.5%	1,022
Keokuk	30.1%	385
Washington	40.7%	1,002
Muscatine	57.4%	3,550
Louisa	33.9%	481
Mills	56.8%	909
Montgomery	55.4%	870
Adams	43.2%	203
Union	46.4%	820
Clarke	39.7%	542
Lucas	47.1%	575
Monroe	36.9%	347
Wapello	34.1%	2,021
Jefferson	42.6%	757
Henry	39.3%	1,066
Des Moines	16.9%	991
Fremont	46.0%	437
Page	49.4%	1,031
Taylor	43.9%	337
Ringgold	35.6%	184
Decatur	33.8%	381
Wayne	51.8%	388
Appanoose	24.6%	434
Davis	26.5%	229
Van Buren	48.4%	370
Lee	18.6%	845

About the Data Source

Iowa Medicaid Enterprise Paid Claims collects reimbursed dental claims and enrollment information based on State Fiscal Year. Strengths: allows us to better understand access to services among enrollees across the state. Limitations: The data system is meant to pay claims rather than collect data.
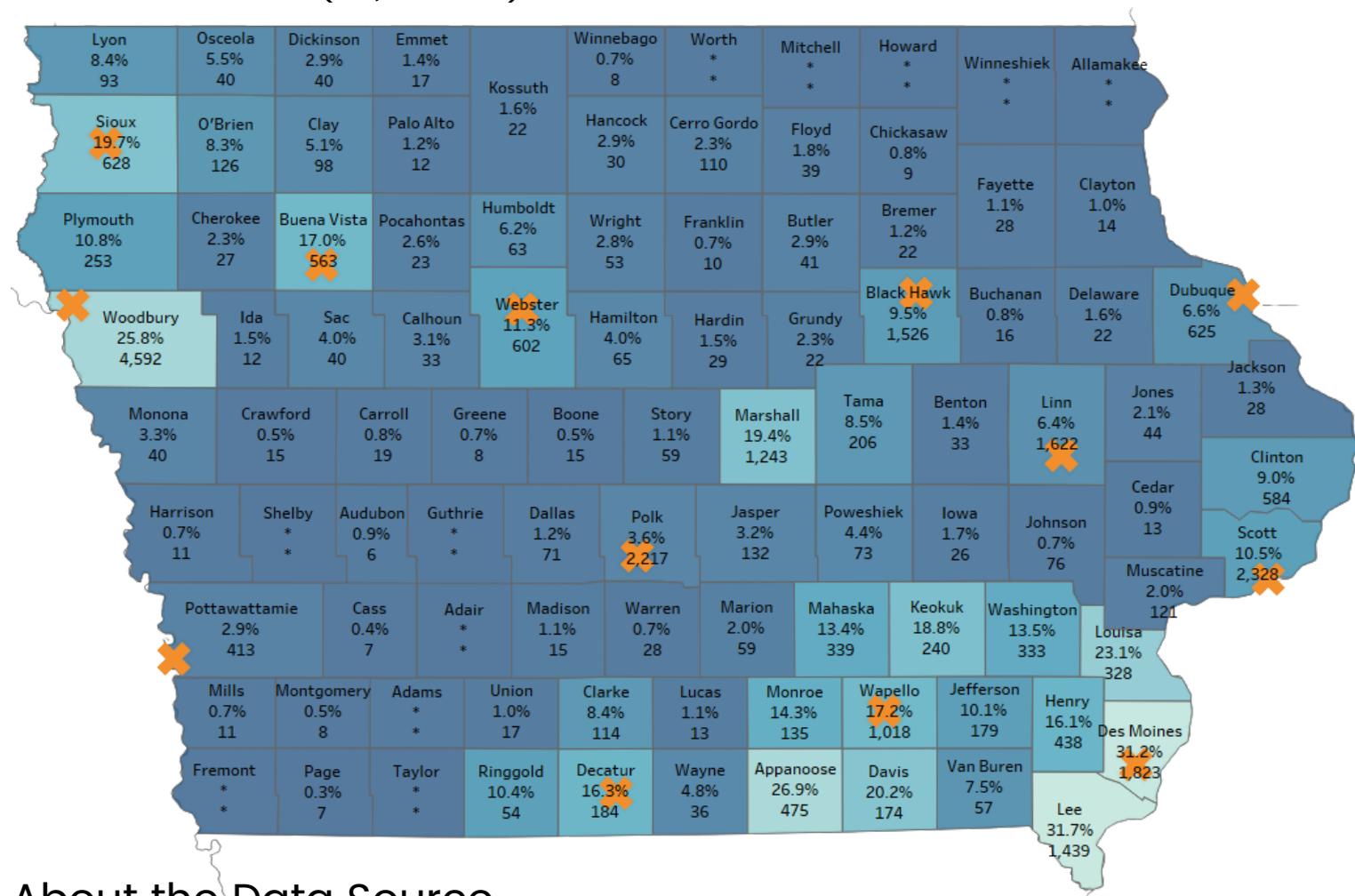
FQHC DENTAL VISIT

Indicator

The percentage of children ages 20 and younger enrolled in Iowa Medicaid with a reimbursed dental claim from a Federally Qualified Health Center (FQHC) within State Fiscal Year 2019.

Main Findings

Counties in southern Iowa, including Des Moines, Lee, and Appanoose counties are those with the highest rates, with **nearly 1 in 3 children ages 20 and younger enrolled in Iowa Medicaid received a dental service from a FQHC.**

STATE VALUE: 7.4% (26,921 kids)

Map of Iowa counties showing FQHC dental visit rates:

County	%	Count
Lyon	8.4%	93
Osceola	5.5%	40
Dickinson	2.9%	40
Emmet	1.4%	17
Kossuth	1.6%	22
Winnebago	0.7%	8
Worth	*	*
Mitchell	*	*
Howard	*	*
Winneshiek	*	*
Allamakee	*	*
Sioux	19.7%	628
O'Brien	8.3%	126
Clay	5.1%	98
Palo Alto	1.2%	12
Hancock	2.9%	30
Cerro Gordo	2.3%	110
Floyd	1.8%	39
Chickasaw	0.8%	9
Fayette	1.1%	28
Clayton	1.0%	14
Plymouth	10.8%	253
Cherokee	2.3%	27
Buena Vista	17.0%	563
Pocahontas	2.6%	23
Humboldt	6.2%	63
Wright	2.8%	53
Franklin	0.7%	10
Butler	2.9%	41
Bremer	1.2%	22
Black Hawk	9.5%	1,526
Buchanan	0.8%	16
Delaware	1.6%	22
Dubuque	6.6%	625
Woodbury	25.8%	4,592
Ida	1.5%	12
Sac	4.0%	40
Calhoun	3.1%	33
Webster	11.3%	602
Hamilton	4.0%	65
Hardin	1.5%	29
Grundy	2.3%	22
Jackson	1.3%	28
Monona	3.3%	40
Crawford	0.5%	15
Carroll	0.8%	19
Greene	0.7%	8
Boone	0.5%	15
Story	1.1%	59
Marshall	19.4%	1,243
Tama	8.5%	206
Benton	1.4%	33
Linn	6.4%	1,622
Jones	2.1%	44
Clinton	9.0%	584
Cedar	0.9%	13
Harrison	0.7%	11
Shelby	*	*
Audubon	0.9%	6
Guthrie	*	*
Dallas	1.2%	71
Polk	3.6%	2,217
Jasper	3.2%	132
Poweshiek	4.4%	73
Iowa	1.7%	26
Johnson	0.7%	76
Scott	10.5%	2,328
Muscatine	2.0%	121
Pottawattamie	2.9%	413
Cass	0.4%	7
Adair	*	*
Madison	1.1%	15
Warren	0.7%	28
Marion	2.0%	59
Mahaska	13.4%	339
Keokuk	18.8%	240
Washington	13.5%	333
Louisa	23.1%	328
Mills	0.7%	11
Montgomery	0.5%	8
Adams	*	*
Union	1.0%	17
Clarke	8.4%	114
Lucas	1.1%	13
Monroe	14.3%	135
Wapello	17.2%	1,018
Jefferson	10.1%	179
Henry	16.1%	438
Des Moines	31.2%	1,823
Fremont	*	*
Page	0.3%	7
Taylor	*	*
Ringgold	10.4%	54
Decatur	16.3%	184
Wayne	4.8%	36
Appanoose	26.9%	475
Davis	20.2%	174
Van Buren	7.5%	57
Lee	31.7%	1,439

About the Data Source

Iowa Medicaid Enterprise Paid Claims collects reimbursed dental claims and enrollment information based on State Fiscal Year. Strengths: allows us to better understand access to services among enrollees across the state. Limitations: The data system is meant to pay claims rather than collect data.

I-SMILE DENTAL VISIT

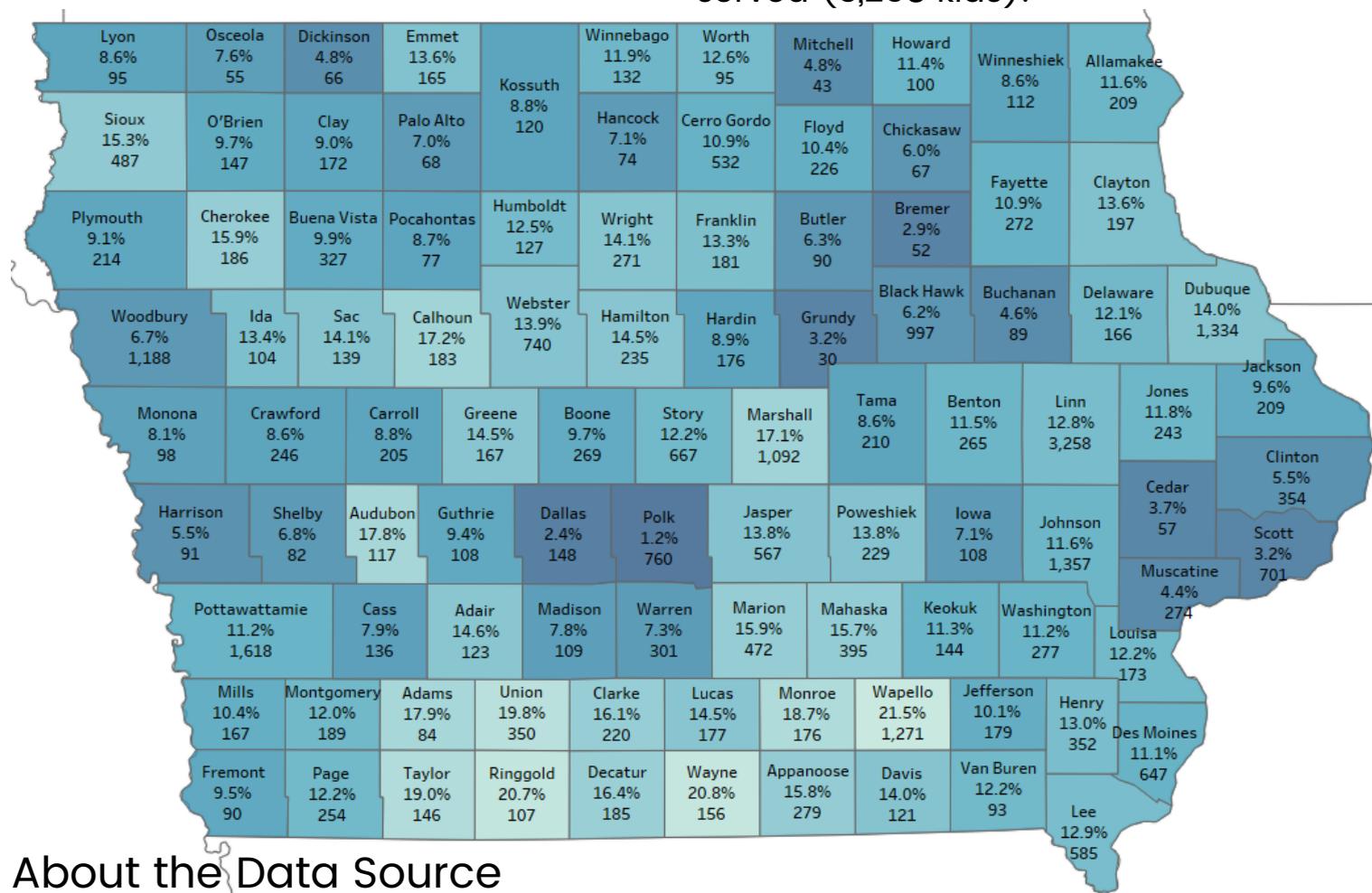*Data Source: Iowa Medicaid Enterprise Paid Claims, SFY2019*

Indicator

The percentage of children ages 20 and younger enrolled in Iowa Medicaid with a reimbursed dental claim from I-Smile within State Fiscal Year 2019.

STATE VALUE: 8.7% (31,798 kids)

Main Findings

Counties in southern Iowa, including Wapello, Wayne, and Ringgold counties are those with the highest rates, with more than 1 in 5 children ages 20 and younger enrolled in Iowa Medicaid received a dental service from I-Smile. Linn county had the most children served (3,258 kids).

County	%	Count
Lyon	8.6%	95
Osceola	7.6%	55
Dickinson	4.8%	66
Emmet	13.6%	165
Kossuth	8.8%	120
Winnebago	11.9%	132
Worth	12.6%	95
Mitchell	4.8%	43
Howard	11.4%	100
Winneshiek	8.6%	112
Allamakee	11.6%	209
Sioux	15.3%	487
O'Brien	9.7%	147
Clay	9.0%	172
Palo Alto	7.0%	68
Hancock	7.1%	74
Cerro Gordo	10.9%	532
Floyd	10.4%	226
Chickasaw	6.0%	67
Fayette	10.9%	272
Clayton	13.6%	197
Plymouth	9.1%	214
Cherokee	15.9%	186
Buena Vista	9.9%	327
Pocahontas	8.7%	77
Humboldt	12.5%	127
Wright	14.1%	271
Franklin	13.3%	181
Butler	6.3%	90
Bremer	2.9%	52
Black Hawk	6.2%	997
Buchanan	4.6%	89
Delaware	12.1%	166
Dubuque	14.0%	1,334
Woodbury	6.7%	1,188
Ida	13.4%	104
Sac	14.1%	139
Calhoun	17.2%	183
Webster	13.9%	740
Hamilton	14.5%	235
Hardin	8.9%	176
Grundy	3.2%	30
Jackson	9.6%	209
Monona	8.1%	98
Crawford	8.6%	246
Carroll	8.8%	205
Greene	14.5%	167
Boone	9.7%	269
Story	12.2%	667
Marshall	17.1%	1,092
Tama	8.6%	210
Benton	11.5%	265
Linn	12.8%	3,258
Jones	11.8%	243
Clinton	5.5%	354
Harrison	5.5%	91
Shelby	6.8%	82
Audubon	17.8%	117
Guthrie	9.4%	108
Dallas	2.4%	148
Polk	1.2%	760
Jasper	13.8%	567
Poweshiek	13.8%	229
Iowa	7.1%	108
Johnson	11.6%	1,357
Cedar	3.7%	57
Scott	3.2%	701
Muscatine	4.4%	274
Pottawattamie	11.2%	1,618
Cass	7.9%	136
Adair	14.6%	123
Madison	7.8%	109
Warren	7.3%	301
Marion	15.9%	472
Mahaska	15.7%	395
Keokuk	11.3%	144
Washington	11.2%	277
Louisa	12.2%	173
Mills	10.4%	167
Montgomery	12.0%	189
Adams	17.9%	84
Union	19.8%	350
Clarke	16.1%	220
Lucas	14.5%	177
Monroe	18.7%	176
Wapello	21.5%	1,271
Jefferson	10.1%	179
Henry	13.0%	352
Des Moines	11.1%	647
Fremont	9.5%	90
Page	12.2%	254
Taylor	19.0%	146
Ringgold	20.7%	107
Decatur	16.4%	185
Wayne	20.8%	156
Appanoose	15.8%	279
Davis	14.0%	121
Van Buren	12.2%	93
Lee	12.9%	585

About the Data Source

Iowa Medicaid Enterprise Paid Claims collects reimbursed dental claims and enrollment information based on State Fiscal Year. Strengths: allows us to better understand access to services among enrollees across the state. Limitations: The data system is meant to pay claims rather than collect data.

DENTISTS TAKING NEW MEDICAID REFERRALS

Data Source: Dental Referral Survey of I-Smile Coordinators, June 2021
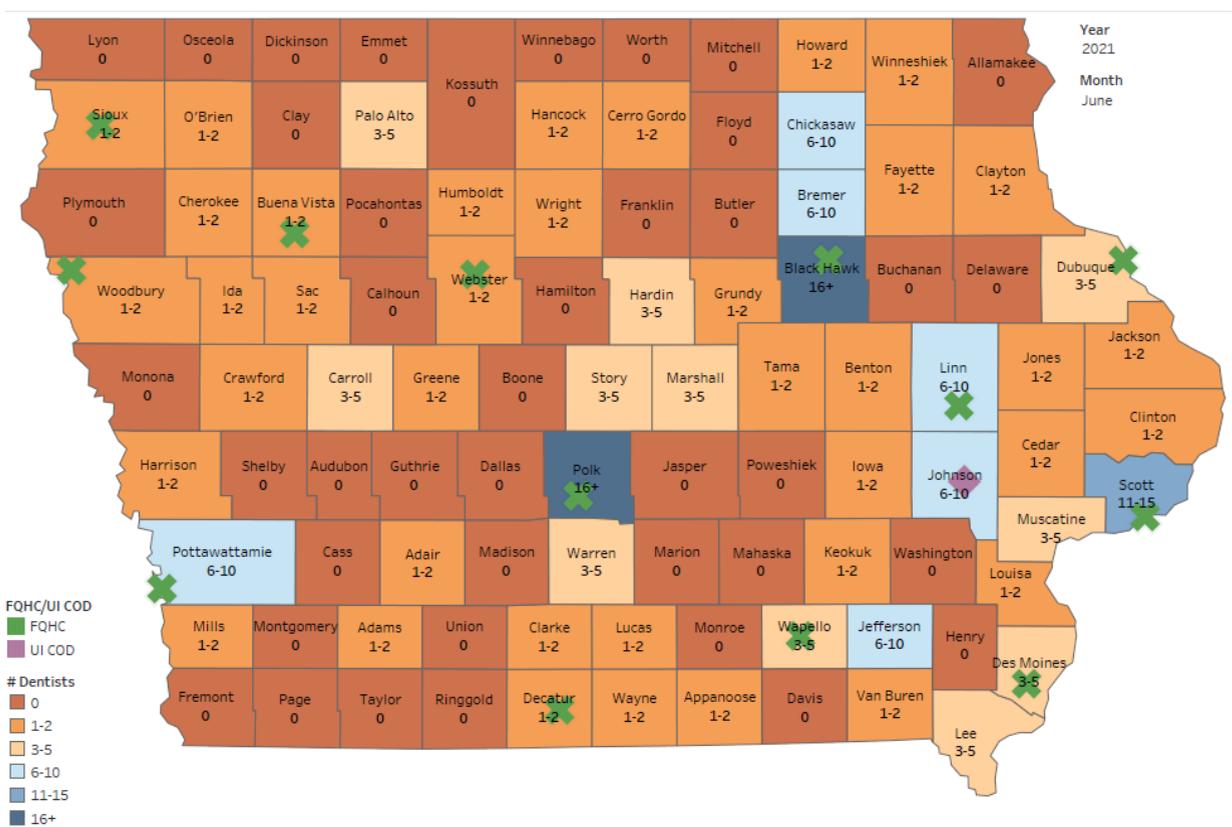
Indicator

The number of dentists in each county taking new referrals for Medicaid enrollees as of June 2021.

STATE VALUE: n/a

Main Findings

Forty-one of Iowa's 99 counties (41%) do **not have a dentist taking new referrals for Medicaid enrollees.** These counties are spread out across the state, but are most heavily concentrated in northwestern and southwestern Iowa.

Year 2021
Month June

County	# Dentists
Lyon	0
Osceola	0
Dickinson	0
Emmet	0
Kossuth	0
Winnebago	0
Worth	0
Mitchell	0
Howard	1-2
Winneshiek	1-2
Allamakee	0
Sioux	1-2
O'Brien	1-2
Clay	0
Palo Alto	3-5
Hancock	1-2
Cerro Gordo	1-2
Floyd	0
Chickasaw	6-10
Fayette	1-2
Clayton	1-2
Plymouth	0
Cherokee	1-2
Buena Vista	1-2
Pocahontas	0
Humboldt	1-2
Wright	1-2
Franklin	0
Butler	0
Bremer	6-10
Black Hawk	16+
Buchanan	0
Delaware	0
Dubuque	3-5
Woodbury	1-2
Ida	1-2
Sac	1-2
Calhoun	0
Webster	1-2
Hamilton	0
Hardin	3-5
Grundy	1-2
Jackson	1-2
Monona	0
Crawford	1-2
Carroll	3-5
Greene	1-2
Boone	0
Story	3-5
Marshall	3-5
Tama	1-2
Benton	1-2
Linn	6-10
Jones	1-2
Clinton	1-2
Harrison	1-2
Shelby	0
Audubon	0
Guthrie	0
Dallas	0
Polk	16+
Jasper	0
Poweshiek	0
Iowa	1-2
Johnson	6-10
Cedar	1-2
Scott	11-15
Muscatine	3-5
Pottawattamie	6-10
Cass	0
Adair	1-2
Madison	0
Warren	3-5
Marion	0
Mahaska	0
Keokuk	1-2
Washington	0
Louisa	1-2
Mills	1-2
Montgomery	0
Adams	1-2
Union	0
Clarke	1-2
Lucas	1-2
Monroe	0
Wapello	3-5
Jefferson	6-10
Henry	0
Des Moines	3-5
Fremont	0
Page	0
Taylor	0
Ringgold	0
Decatur	1-2
Wayne	1-2
Appanoose	1-2
Davis	0
Van Buren	1-2
Lee	3-5

FQHC/UI COD
- FQHC
- UI COD

Dentists
- 0
- 1-2
- 3-5
- 6-10
- 11-15
- 16+

* Dentists are counted in each county of practice (duplicated across counties)
* Dentists providing services at FQHC main and satellite clinics are included, however the University of Iowa College of Dentistry (UI COD) is excluded
* Does not account for hours worked or restrictions of each dentist (i.e. only taking those living in the town/county, 1 day a month)

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June 2021

About the Data Source

The Dental Referral Survey is asked of I-Smile Coordinators on a six month interval. Dentists are counted in a county if they can be referred to in that county at any point, even if it is not their primary office. Dentists practicing at FQHCs are included in the count. Limitations: Changes frequently; does not determine amount of availability or conditions of referrals (i.e. must live in same town/county, only for 1 day per month)

REPORTED DENTAL VISIT DURING PREGNANCY

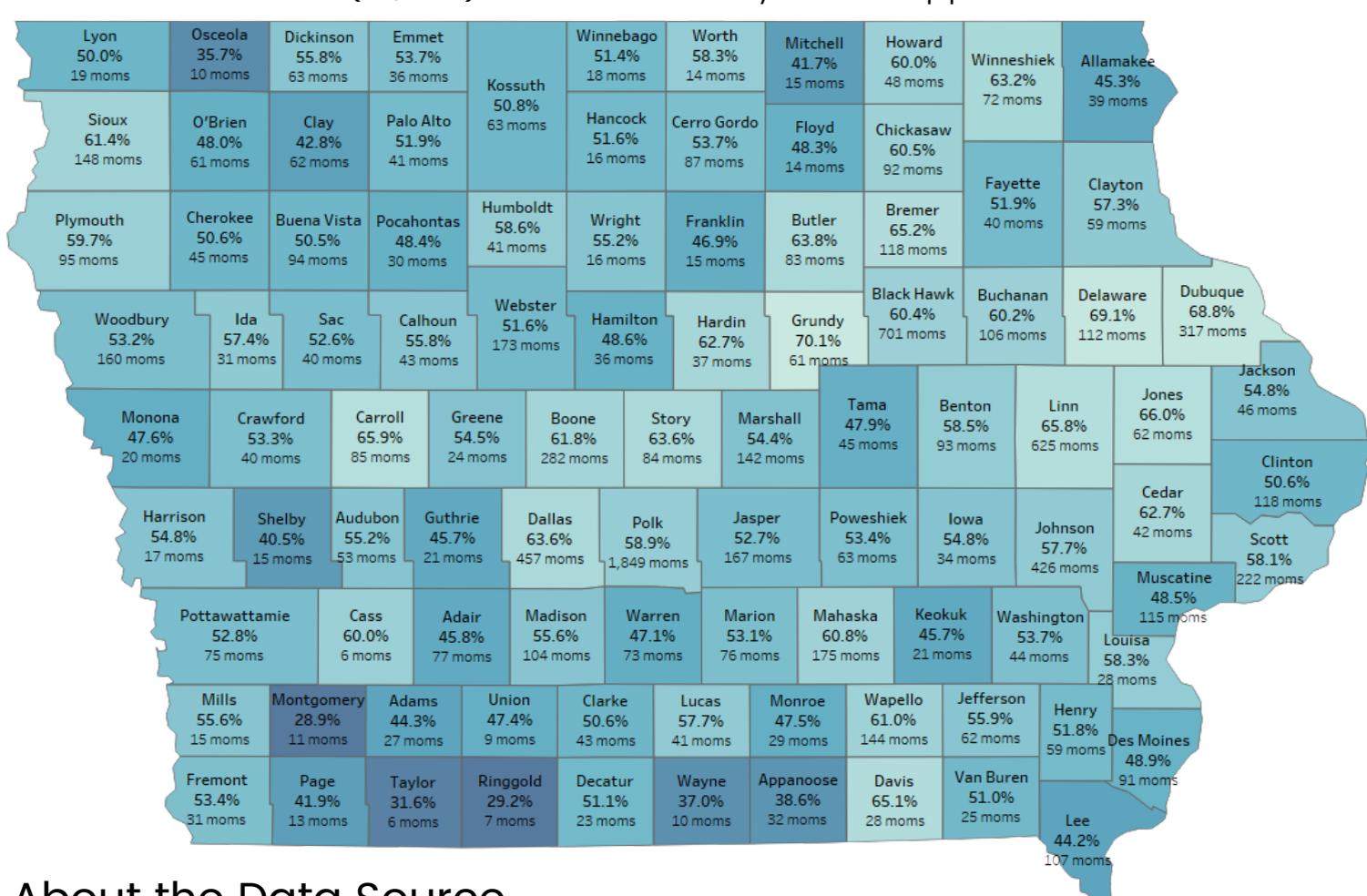*Data Source: Iowa Barriers to Prenatal Care Survey, 2019*

Indicator

The percentage of new birth moms in each county who reported having a dental visit during their most recent pregnancy.

STATE VALUE: 57.2% (10,526)

Main Findings

Less than 1 in 3 new birth mothers in southwestern Iowa counties Montgomery, Ringgold, and Taylor reported a dental visit during pregnancy. Followed closely by Osceola, Wayne and Appanoose counties.

County	%	moms
Lyon	50.0%	19 moms
Osceola	35.7%	10 moms
Dickinson	55.8%	63 moms
Emmet	53.7%	36 moms
Kossuth	50.8%	63 moms
Winnebago	51.4%	18 moms
Worth	58.3%	14 moms
Mitchell	41.7%	15 moms
Howard	60.0%	48 moms
Winneshiek	63.2%	72 moms
Allamakee	45.3%	39 moms
Sioux	61.4%	148 moms
O'Brien	48.0%	61 moms
Clay	42.8%	62 moms
Palo Alto	51.9%	41 moms
Hancock	51.6%	16 moms
Cerro Gordo	53.7%	87 moms
Floyd	48.3%	14 moms
Chickasaw	60.5%	92 moms
Fayette	51.9%	40 moms
Clayton	57.3%	59 moms
Plymouth	59.7%	95 moms
Cherokee	50.6%	45 moms
Buena Vista	50.5%	94 moms
Pocahontas	48.4%	30 moms
Humboldt	58.6%	41 moms
Wright	55.2%	16 moms
Franklin	46.9%	15 moms
Butler	63.8%	83 moms
Bremer	65.2%	118 moms
Black Hawk	60.4%	701 moms
Buchanan	60.2%	106 moms
Delaware	69.1%	112 moms
Dubuque	68.8%	317 moms
Woodbury	53.2%	160 moms
Ida	57.4%	31 moms
Sac	52.6%	40 moms
Calhoun	55.8%	43 moms
Webster	51.6%	173 moms
Hamilton	48.6%	36 moms
Hardin	62.7%	37 moms
Grundy	70.1%	61 moms
Jackson	54.8%	46 moms
Monona	47.6%	20 moms
Crawford	53.3%	40 moms
Carroll	65.9%	85 moms
Greene	54.5%	24 moms
Boone	61.8%	282 moms
Story	63.6%	84 moms
Marshall	54.4%	142 moms
Tama	47.9%	45 moms
Benton	58.5%	93 moms
Linn	65.8%	625 moms
Jones	66.0%	62 moms
Clinton	50.6%	118 moms
Harrison	54.8%	17 moms
Shelby	40.5%	15 moms
Audubon	55.2%	53 moms
Guthrie	45.7%	21 moms
Dallas	63.6%	457 moms
Polk	58.9%	1,849 moms
Jasper	52.7%	167 moms
Poweshiek	53.4%	63 moms
Iowa	54.8%	34 moms
Johnson	57.7%	426 moms
Cedar	62.7%	42 moms
Scott	58.1%	222 moms
Muscatine	48.5%	115 moms
Pottawattamie	52.8%	75 moms
Cass	60.0%	6 moms
Adair	45.8%	77 moms
Madison	55.6%	104 moms
Warren	47.1%	73 moms
Marion	53.1%	76 moms
Mahaska	60.8%	175 moms
Keokuk	45.7%	21 moms
Washington	53.7%	44 moms
Louisa	58.3%	28 moms
Mills	55.6%	15 moms
Montgomery	28.9%	11 moms
Adams	44.3%	27 moms
Union	47.4%	9 moms
Clarke	50.6%	43 moms
Lucas	57.7%	41 moms
Monroe	47.5%	29 moms
Wapello	61.0%	144 moms
Jefferson	55.9%	62 moms
Henry	51.8%	59 moms
Des Moines	48.9%	91 moms
Fremont	53.4%	31 moms
Page	41.9%	13 moms
Taylor	31.6%	6 moms
Ringgold	29.2%	7 moms
Decatur	51.1%	23 moms
Wayne	37.0%	10 moms
Appanoose	38.6%	32 moms
Davis	65.1%	28 moms
Van Buren	51.0%	25 moms
Lee	44.2%	107 moms

About the Data Source

The Iowa Barriers to Prenatal Care Survey is provided to every mother who gives birth in an Iowa hospital. Oral health questions are asked every other year. Strengths: this is a census sample, meaning all mothers giving birth in Iowa are included, providing a robust sample size. Limitations: Iowa mothers giving birth outside of Iowa or through home birth are not included in the survey results.

I-SMILE DECAY

Data Source: I-Smile Program Data (signifycommunity), SFY2020
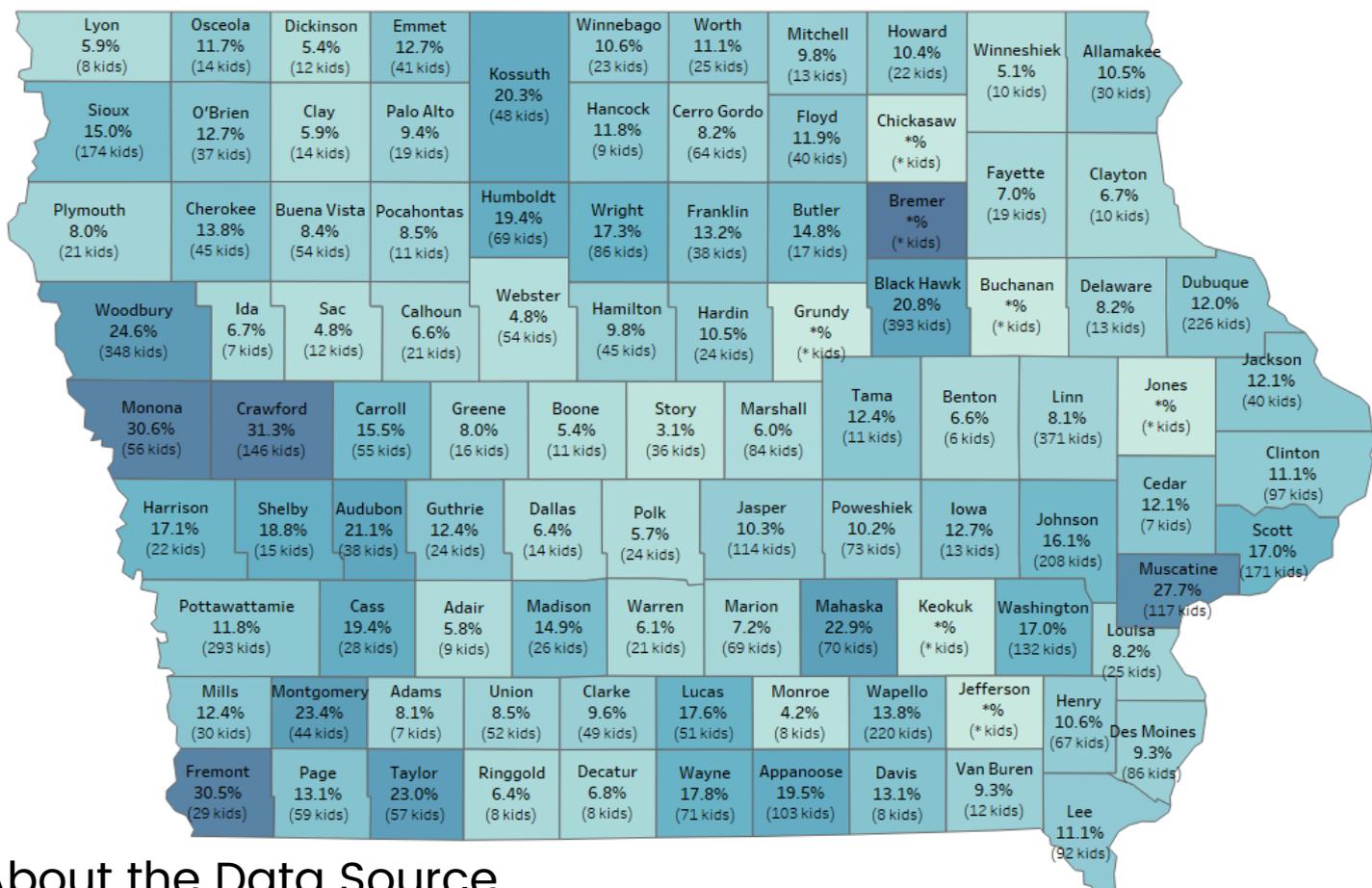
Indicator

The percentage of children age 0-20 screened by I-Smile in each county with decay.

STATE VALUE: 12.2% (5,647 kids)

*indicates suppressed value: count of 1-5

Main Findings

Counties in western Iowa, including Crawford, Monona, and Fremont counties, report decay among nearly 1 in 3 children screened through I-Smile. Non-white children have a higher decay rate (15.1%) than white children (10.8%) and compose one third of participants.

Lyon 5.9% (8 kids)
Osceola 11.7% (14 kids)
Dickinson 5.4% (12 kids)
Emmet 12.7% (41 kids)
Kossuth 20.3% (48 kids)
Winnebago 10.6% (23 kids)
Worth 11.1% (25 kids)
Mitchell 9.8% (13 kids)
Howard 10.4% (22 kids)
Winneshiek 5.1% (10 kids)
Allamakee 10.5% (30 kids)

Sioux 15.0% (174 kids)
O'Brien 12.7% (37 kids)
Clay 5.9% (14 kids)
Palo Alto 9.4% (19 kids)
Hancock 11.8% (9 kids)
Cerro Gordo 8.2% (64 kids)
Floyd 11.9% (40 kids)
Chickasaw *% (*kids)
Fayette 7.0% (19 kids)
Clayton 6.7% (10 kids)

Plymouth 8.0% (21 kids)
Cherokee 13.8% (45 kids)
Buena Vista 8.4% (54 kids)
Pocahontas 8.5% (11 kids)
Humboldt 19.4% (69 kids)
Wright 17.3% (86 kids)
Franklin 13.2% (38 kids)
Butler 14.8% (17 kids)
Bremer *% (*kids)
Black Hawk 20.8% (393 kids)
Buchanan *% (*kids)
Delaware 8.2% (13 kids)
Dubuque 12.0% (226 kids)

Woodbury 24.6% (348 kids)
Ida 6.7% (7 kids)
Sac 4.8% (12 kids)
Calhoun 6.6% (21 kids)
Webster 4.8% (54 kids)
Hamilton 9.8% (45 kids)
Hardin 10.5% (24 kids)
Grundy *% (*kids)
Jackson 12.1% (40 kids)

Monona 30.6% (56 kids)
Crawford 31.3% (146 kids)
Carroll 15.5% (55 kids)
Greene 8.0% (16 kids)
Boone 5.4% (11 kids)
Story 3.1% (36 kids)
Marshall 6.0% (84 kids)
Tama 12.4% (11 kids)
Benton 6.6% (6 kids)
Linn 8.1% (371 kids)
Jones *% (*kids)
Clinton 11.1% (97 kids)

Harrison 17.1% (22 kids)
Shelby 18.8% (15 kids)
Audubon 21.1% (38 kids)
Guthrie 12.4% (24 kids)
Dallas 6.4% (14 kids)
Polk 5.7% (24 kids)
Jasper 10.3% (114 kids)
Poweshiek 10.2% (73 kids)
Iowa 12.7% (13 kids)
Johnson 16.1% (208 kids)
Cedar 12.1% (7 kids)
Scott 17.0% (171 kids)

Pottawattamie 11.8% (293 kids)
Cass 19.4% (28 kids)
Adair 5.8% (9 kids)
Madison 14.9% (26 kids)
Warren 6.1% (21 kids)
Marion 7.2% (69 kids)
Mahaska 22.9% (70 kids)
Keokuk *% (*kids)
Washington 17.0% (132 kids)
Muscatine 27.7% (117 kids)
Louisa 8.2% (25 kids)

Mills 12.4% (30 kids)
Montgomery 23.4% (44 kids)
Adams 8.1% (7 kids)
Union 8.5% (52 kids)
Clarke 9.6% (49 kids)
Lucas 17.6% (51 kids)
Monroe 4.2% (8 kids)
Wapello 13.8% (220 kids)
Jefferson *% (*kids)
Henry 10.6% (67 kids)
Des Moines 9.3% (86 kids)

Fremont 30.5% (29 kids)
Page 13.1% (59 kids)
Taylor 23.0% (57 kids)
Ringgold 6.4% (8 kids)
Decatur 6.8% (8 kids)
Wayne 17.8% (71 kids)
Appanoose 19.5% (103 kids)
Davis 13.1% (8 kids)
Van Buren 9.3% (12 kids)
Lee 11.1% (92 kids)

About the Data Source

The I-Smile Program Data, via signifycommunity, collects information on I-Smile program participants and services, including oral health status, access to services, and demographics. Strengths: allows us to compare contractor service areas and identify areas of need or discrepancy. Limitations: **program data is not representative of the county population**, it is only representative of those children served and screened by I-Smile; contractor screening populations can vary making county comparison less valid.

PREVENTABLE DENTAL CASES IN MEDICAL SETTING

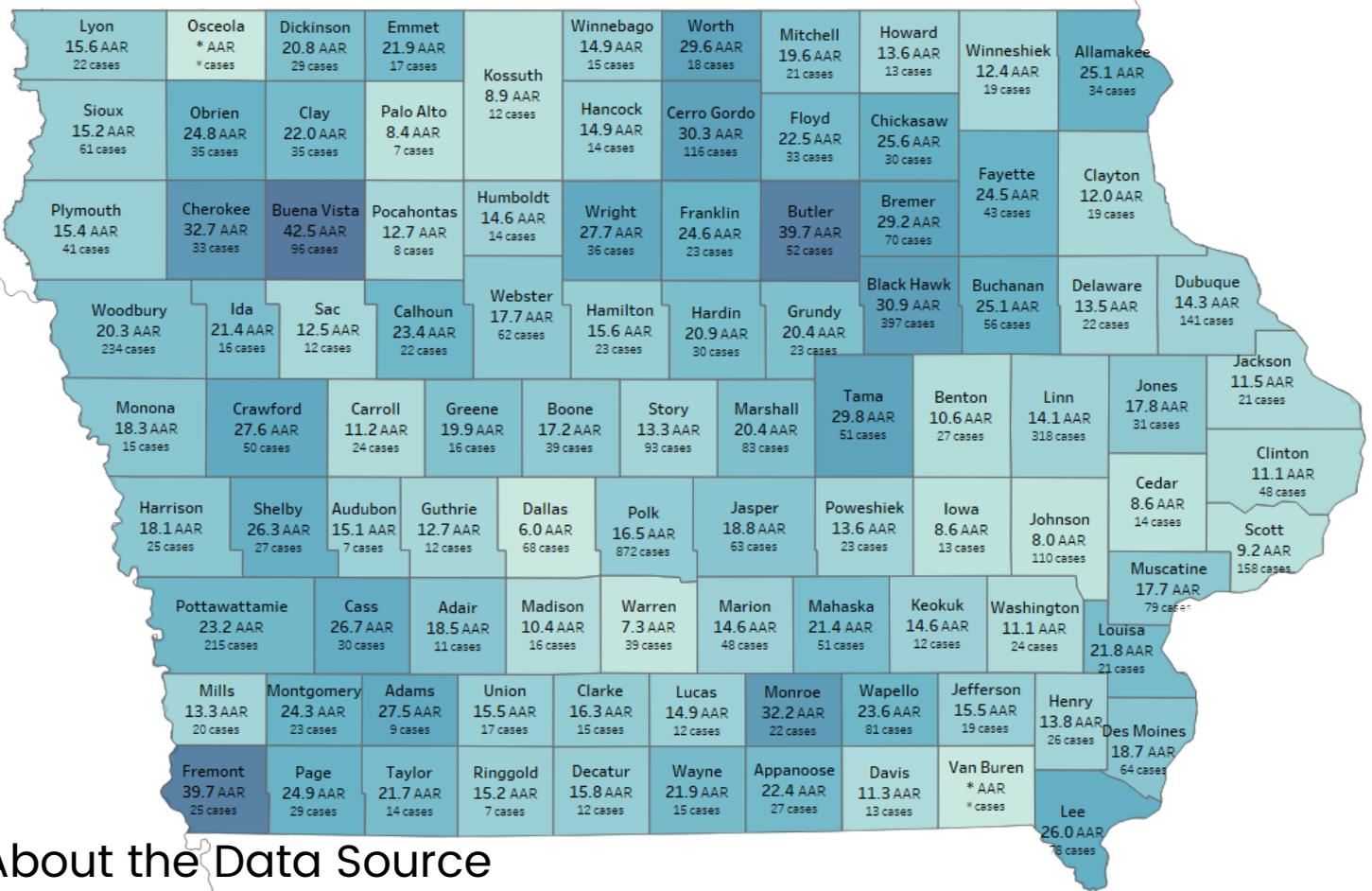*Data Source: Iowa Hospital Outpatient Data, 2019*

Indicator

The number of billed preventable dental cases billed in an **outpatient** medical setting among children 0-20 in 2019. (Based on ICD-10 codes)

STATE VALUE: 5,296 cases
(16.8 cases per 10,000 kids)

Main Findings

- Most common among children ages 3-5 (2,596 cases)
- Higher rates among non-white racial and ethnic groups
- Most cases in Polk county (872 cases)
- Highest rates among Buena Vista, Butler, and Fremont counties (~40 cases per 10K Iowans)

County map of Iowa showing AAR and case counts:

County	AAR	Cases
Lyon	15.6 AAR	22 cases
Osceola	* AAR	* cases
Dickinson	20.8 AAR	29 cases
Emmet	21.9 AAR	17 cases
Kossuth	8.9 AAR	12 cases
Winnebago	14.9 AAR	15 cases
Worth	29.6 AAR	18 cases
Mitchell	19.6 AAR	21 cases
Howard	13.6 AAR	13 cases
Winneshiek	12.4 AAR	19 cases
Allamakee	25.1 AAR	34 cases
Sioux	15.2 AAR	61 cases
Obrien	24.8 AAR	35 cases
Clay	22.0 AAR	35 cases
Palo Alto	8.4 AAR	7 cases
Hancock	14.9 AAR	14 cases
Cerro Gordo	30.3 AAR	116 cases
Floyd	22.5 AAR	33 cases
Chickasaw	25.6 AAR	30 cases
Fayette	24.5 AAR	43 cases
Clayton	12.0 AAR	19 cases
Plymouth	15.4 AAR	41 cases
Cherokee	32.7 AAR	33 cases
Buena Vista	42.5 AAR	96 cases
Pocahontas	12.7 AAR	8 cases
Humboldt	14.6 AAR	14 cases
Wright	27.7 AAR	36 cases
Franklin	24.6 AAR	23 cases
Butler	39.7 AAR	52 cases
Bremer	29.2 AAR	70 cases
Black Hawk	30.9 AAR	397 cases
Buchanan	25.1 AAR	56 cases
Delaware	13.5 AAR	22 cases
Dubuque	14.3 AAR	141 cases
Woodbury	20.3 AAR	234 cases
Ida	21.4 AAR	16 cases
Sac	12.5 AAR	12 cases
Calhoun	23.4 AAR	22 cases
Webster	17.7 AAR	62 cases
Hamilton	15.6 AAR	23 cases
Hardin	20.9 AAR	30 cases
Grundy	20.4 AAR	23 cases
Jackson	11.5 AAR	21 cases
Monona	18.3 AAR	15 cases
Crawford	27.6 AAR	50 cases
Carroll	11.2 AAR	24 cases
Greene	19.9 AAR	16 cases
Boone	17.2 AAR	39 cases
Story	13.3 AAR	93 cases
Marshall	20.4 AAR	83 cases
Tama	29.8 AAR	51 cases
Benton	10.6 AAR	27 cases
Linn	14.1 AAR	318 cases
Jones	17.8 AAR	31 cases
Clinton	11.1 AAR	48 cases
Harrison	18.1 AAR	25 cases
Shelby	26.3 AAR	27 cases
Audubon	15.1 AAR	7 cases
Guthrie	12.7 AAR	12 cases
Dallas	6.0 AAR	68 cases
Polk	16.5 AAR	872 cases
Jasper	18.8 AAR	63 cases
Poweshiek	13.6 AAR	23 cases
Iowa	8.6 AAR	13 cases
Johnson	8.0 AAR	110 cases
Cedar	8.6 AAR	14 cases
Scott	9.2 AAR	158 cases
Muscatine	17.7 AAR	79 cases
Pottawattamie	23.2 AAR	215 cases
Cass	26.7 AAR	30 cases
Adair	18.5 AAR	11 cases
Madison	10.4 AAR	16 cases
Warren	7.3 AAR	39 cases
Marion	14.6 AAR	48 cases
Mahaska	21.4 AAR	51 cases
Keokuk	14.6 AAR	12 cases
Washington	11.1 AAR	24 cases
Louisa	21.8 AAR	21 cases
Mills	13.3 AAR	20 cases
Montgomery	24.3 AAR	23 cases
Adams	27.5 AAR	9 cases
Union	15.5 AAR	17 cases
Clarke	16.3 AAR	15 cases
Lucas	14.9 AAR	12 cases
Monroe	32.2 AAR	22 cases
Wapello	23.6 AAR	81 cases
Jefferson	15.5 AAR	19 cases
Henry	13.8 AAR	26 cases
Des Moines	18.7 AAR	64 cases
Fremont	39.7 AAR	25 cases
Page	24.9 AAR	29 cases
Taylor	21.7 AAR	14 cases
Ringgold	15.2 AAR	7 cases
Decatur	15.8 AAR	12 cases
Wayne	21.9 AAR	15 cases
Appanoose	22.4 AAR	27 cases
Davis	11.3 AAR	13 cases
Van Buren	* AAR	* cases
Lee	26.0 AAR	78 cases

About the Data Source

The Iowa Hospital Association collects outpatient data from Iowa hospitals on behalf of the Iowa Department of Public Health per state statute. Strengths: allows high risk groups to be identified across counties. Limitations: multiple visits by the same patient cannot be identified or excluded. Residents of border counties may receive care outside of Iowa and would not be counted in these data.