



Issue Brief

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Data Brief: Sexual and Reproductive Health Services Among People with Employer-Sponsored Insurance

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Reproductive and sexual health services play an important role in daily life and wellbeing for many people. These services include preventive services (such as screenings for sexually transmitted infections and reproductive cancers), contraceptive services, and services relating to pregnancy and childbirth.

The objective of this report is to provide national and state data on the use of reproductive and sexual health services among people with health insurance coverage through an employer.

We use HCCI's commercial claims dataset to examine 11 services, which we categorized into contraceptive services, sterilization, and services related to termination of pregnancy. For each, we assess overall volume of services and rates in the eligible population, nationally, by state, and by age group. Below we highlight key findings from each category of services, followed by the full national and state data for each of the 11 services.

Contraceptive Services

In this category, oral contraceptives were used most frequently (476,000 services in 2020), followed by ring (271,000), injectable (145,000), intrauterine devices [IUDs] (120,000), patch (92,000), and implantable (33,000) contraceptives. We looked at but ultimately excluded diaphragm use from this category due to low volume. Nationally, use of implantable, IUD, and patch contraceptive services increased from 2016 to 2019, though use of implants and IUDs declined slightly in 2020. In contrast, use of oral, ring, and injectable contraceptives declined over the same period. Oral, patch, injectable, and implantable contraceptives were most commonly used among females aged 18-24, while the highest use rates of ring contraceptives and IUDs were among females aged 25-34.

Sterilization

In this category, we focus on rates of tubal ligation and vasectomy services. The national rate of tubal ligation services has declined since 2016. In contrast, national vasectomy services rates increased from 2016 to 2019, but dropped substantially in 2020. Tubal ligation use was highest for females aged 44-45, followed closely by those aged 35-44. Vasectomy use for males aged 34-44 was almost twice as high as those aged 25-34. We do not include rates

of services related to placement of the Essure insert for bilateral occlusion of the fallopian tubes since this service is no longer available; we also do not include bilateral salpingectomy services given this procedure was only recommended as of 2019.

Pregnancy Termination Services

This category includes treatment for ectopic pregnancies and missed/incomplete/septic abortions, which we refer to as spontaneous abortions based on existing literature (see [here](#), [here](#), and [here](#), for example) as well as induced abortions. Nationally, rates of services to treat ectopic pregnancies and spontaneous abortions declined slightly from 2016 to 2020. Rates of induced abortion declined from 2016 to 2017, increased until 2019, and declined again in 2020. Use of these services was highest among females aged 25-34.

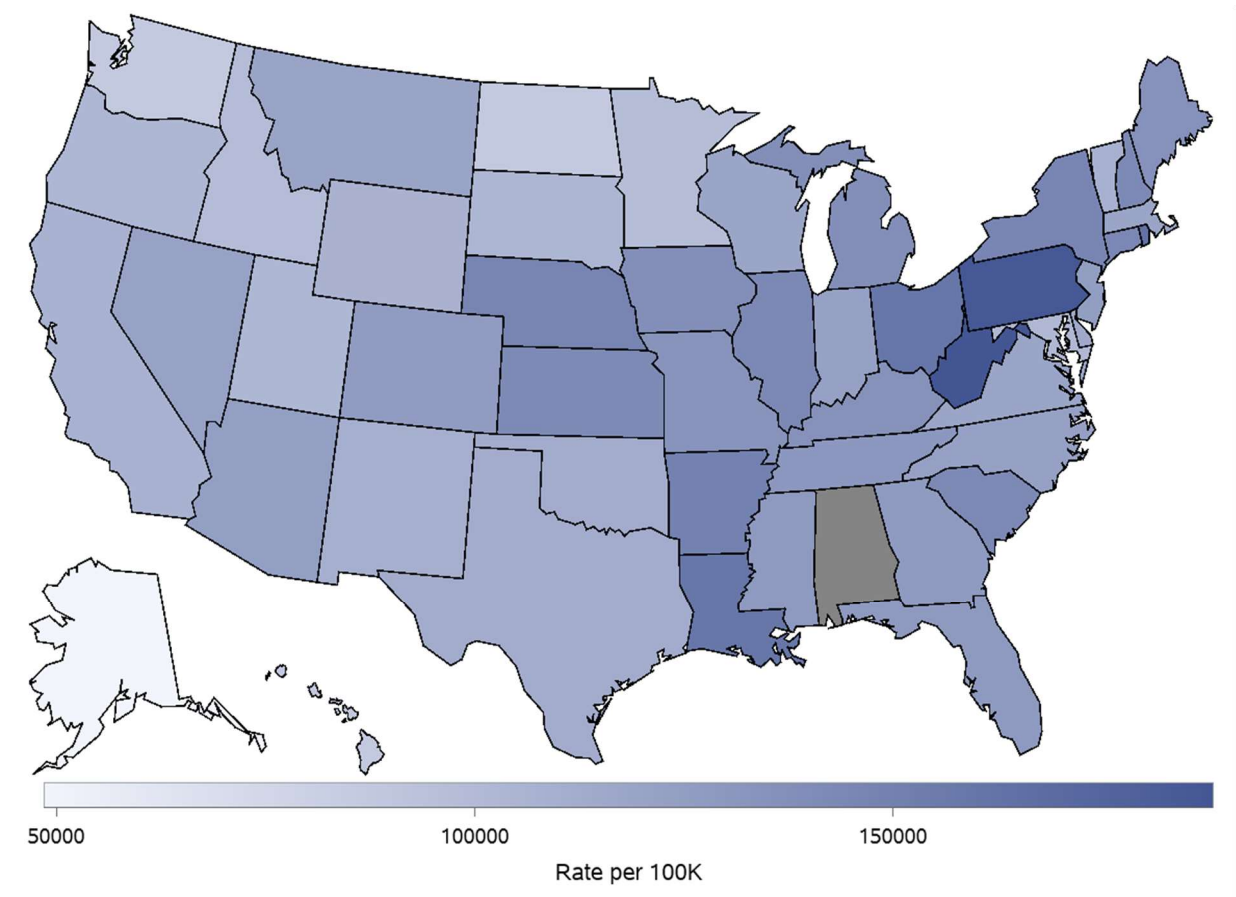
Reported service rates may understate actual use of these services since we include only those services covered by employer-sponsored health insurance (ESI). [Studies show](#) that many women who receive abortion services pay out of pocket and do not use their insurance. In those cases, the service would not generate a claim and, therefore, would not be included in the rates shown here.

Contraceptive Services: Oral Contraception

Oral contraception was the most common contraceptive service among reproductive aged females with ESI. Nationally, HCCI data show 127,096 claims (largely prescription fills) per 100,000 females aged 18-44 in 2020 for oral contraceptives. (The same person could have multiple claims.) The rate of oral contraception use ranged from 48,486 per 100,000 in Alaska to 188,150 in West Virginia. Across the US, rates of oral contraception claims decreased 30% between 2016 and 2020.

Oral contraception was identified by HCPCS and NDC codes in medical and pharmacy claims.

Rate of Oral Contraception Use per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Oral Contraception Use per 100,000 Females Aged 18-44 by State and Year

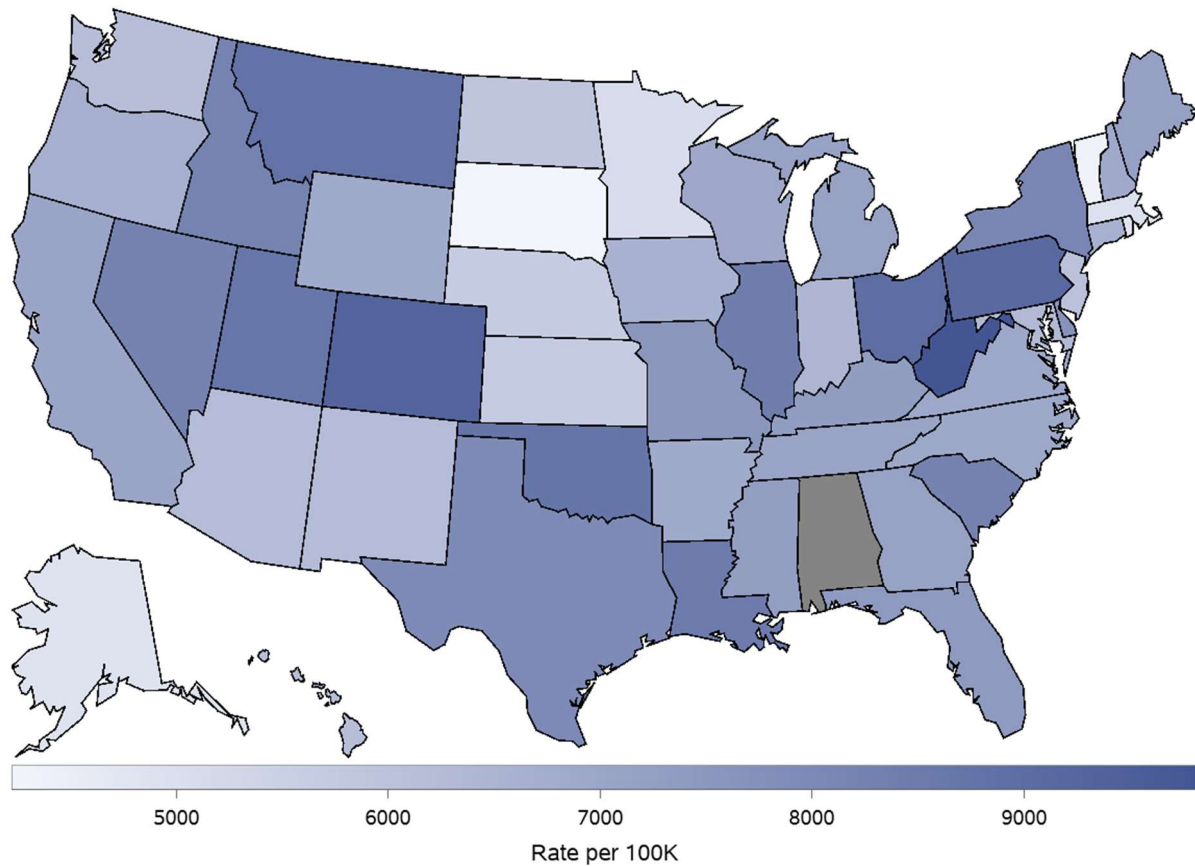
State	2016	2017	2018	2019	2020		State	2016	2017	2018	2019	2020
National	181,185	171,055	154,227	143,378	127,096		MT	172,815	157,547	148,655	138,859	119,259
AK	96,961	89,739	75,336	64,435	48,486		NC	169,715	155,597	143,736	134,014	122,130
AR	189,895	181,841	171,410	162,638	149,088		ND	121,687	108,946	109,671	103,932	86,136
AZ	176,266	169,567	158,789	145,845	123,565		NE	200,103	190,160	175,400	160,774	146,575
CA	157,579	149,494	127,514	131,639	107,158		NH	237,734	218,943	202,845	169,609	141,747
CO	180,776	171,320	155,793	143,319	125,883		NJ	158,425	150,578	141,054	132,454	124,376
CT	231,665	219,164	199,280	169,789	143,546		NM	155,298	148,185	137,822	121,314	109,407
DC	186,193	167,601	130,588	108,540	100,721		NV	147,155	143,136	135,721	128,960	120,770
DE	139,850	133,458	127,070	124,375	114,529		NY	225,267	212,180	185,890	165,821	145,140
FL	173,863	164,188	151,314	142,265	128,166		OH	198,502	189,516	177,042	169,256	158,629
GA	161,935	154,356	142,909	141,812	126,795		OK	156,402	148,749	137,545	122,144	112,262
HI	94,472	95,469	90,723	90,357	86,655		OR	138,073	123,898	113,527	109,526	102,825
IA	184,442	172,731	164,097	154,232	137,647		PA	216,379	207,188	197,234	201,648	186,349
ID	117,501	113,528	108,527	103,804	97,835		RI	311,531	282,720	246,325	200,251	162,992
IL	192,799	181,477	156,292	156,980	142,624		SC	179,165	163,772	167,450	147,103	141,800
IN	162,559	154,267	142,240	136,301	121,805		SD	141,612	127,768	130,791	127,464	103,740
KS	191,205	183,586	174,000	168,731	141,200		TN	178,430	164,437	150,224	140,077	130,024
KY	190,876	179,005	162,795	153,360	134,658		TX	145,222	134,903	121,443	121,732	111,887
LA	205,303	203,533	180,012	173,512	158,764		UT	124,814	123,461	109,870	109,838	102,777
MA	255,794	237,636	204,039	147,794	118,635		VA	170,987	155,090	138,540	125,562	118,525
MD	146,985	135,583	116,419	105,802	101,768		VT	154,093	138,762	127,947	118,895	108,092
ME	166,237	155,274	153,755	155,361	135,463		WA	196,881	176,195	144,548	99,864	86,115
MI	167,351	163,001	154,704	147,865	137,357		WI	162,720	150,170	137,120	134,045	118,677
MN	123,217	122,956	112,186	108,913	97,465		WV	198,855	198,783	189,346	186,630	188,150
MO	197,247	188,456	175,326	161,963	133,178		WY	143,288	123,195	125,930	119,755	106,461
MS	162,239	148,023	138,237	134,242	127,811							

Contraceptive Services: Ring

Nationally, the rate of contraceptive ring use in the HCCI data was 7,250 related services per 100,000 females aged 18-44 in 2020, ranging from 4,223 in South Dakota to 9,814 in West Virginia. Across the US, the rate of contraceptive ring services decreased 31% between 2016 and 2020.

Contraceptive ring services were identified by HCPCS and NDC codes in medical and pharmacy claims.

Rate of Contraceptive Ring Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Contraceptive Ring Services per 100,000 Females Aged 18-44 by State and Year

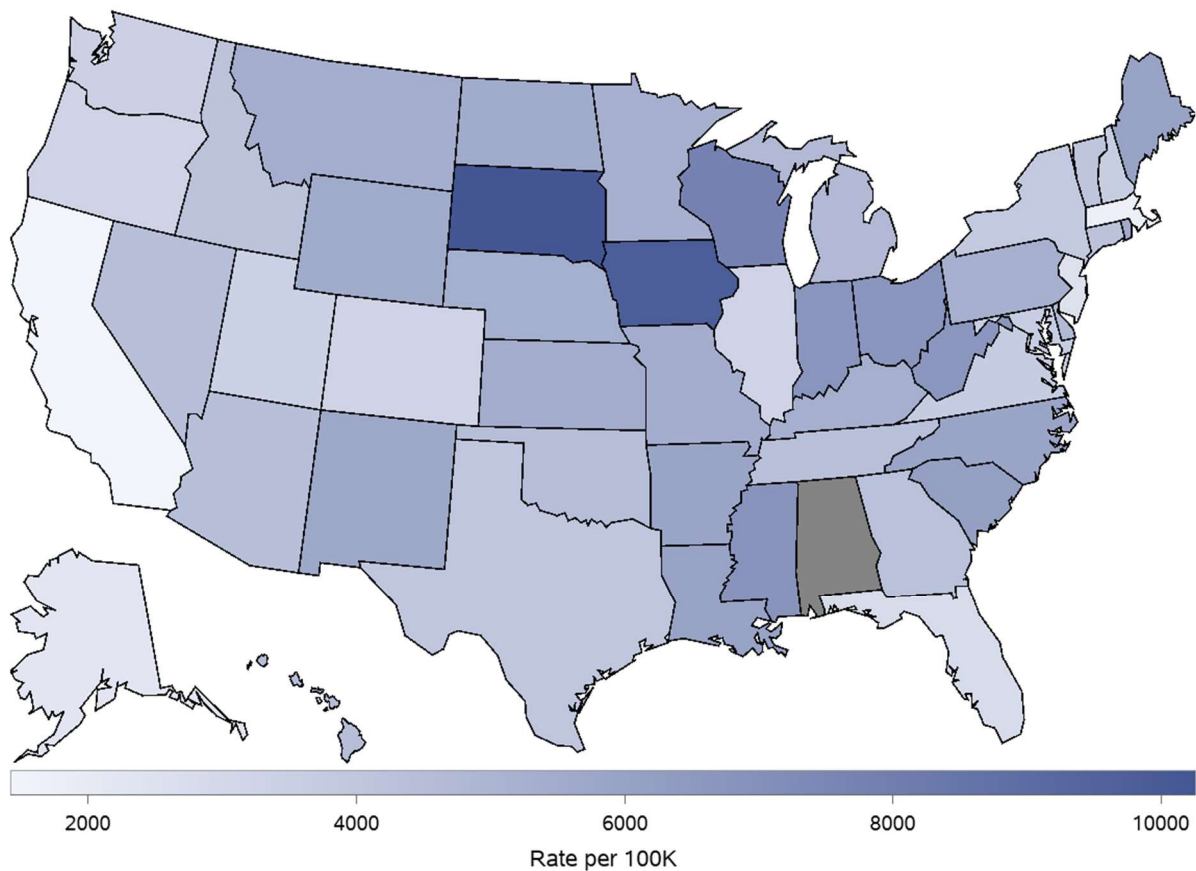
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	10,583	9,963	9,058	8,485	7,250	MT	11,244	8,770	8,483	7,889	8,775
AK	9,414	9,109	6,916	6,301	4,832	NC	9,854	8,858	8,293	7,681	6,928
AR	7,953	8,178	8,196	7,048	6,860	ND	7,883	6,100	6,415	4,488	5,908
AZ	8,789	8,614	8,147	7,644	6,207	NE	8,329	7,752	6,782	6,489	5,645
CA	11,187	10,923	9,142	10,047	7,035	NH	11,845	11,230	10,514	8,363	6,827
CO	12,492	11,836	10,960	9,973	9,295	NJ	8,518	7,960	7,485	6,580	6,034
CT	11,502	10,301	9,174	7,867	6,598	NM	9,920	9,129	6,948	8,786	6,207
DC	16,106	13,322	10,389	9,322	7,355	NV	9,037	9,594	8,419	9,110	8,210
DE	10,234	10,382	10,127	8,502	7,656	NY	13,549	12,609	11,098	9,803	8,086
FL	9,322	9,089	8,603	8,446	7,404	OH	11,312	10,801	10,528	9,682	8,968
GA	8,507	8,377	7,811	8,219	7,138	OK	11,658	10,357	9,470	9,104	8,669
HI	6,426	6,486	6,727	7,390	6,112	OR	10,793	9,845	9,140	8,326	6,638
IA	9,350	8,715	7,913	7,215	6,566	PA	12,852	12,094	11,618	10,041	9,080
ID	7,757	7,274	8,530	8,002	8,186	RI	8,733	9,059	9,033	6,228	4,774
IL	12,357	11,184	9,174	9,387	8,390	SC	11,969	11,117	11,161	9,609	8,204
IN	7,883	7,803	8,053	7,711	6,411	SD	7,635	5,975	5,116	5,133	4,223
KS	7,942	7,795	7,652	7,413	5,684	TN	9,302	8,575	7,888	7,520	7,065
KY	8,963	8,409	8,314	8,234	7,306	TX	10,305	9,580	8,862	8,770	7,924
LA	10,332	9,931	9,098	9,106	8,447	UT	8,738	8,220	8,669	8,087	8,650
MA	11,135	11,064	8,903	6,573	4,910	VA	10,021	9,276	8,210	7,346	6,910
MD	10,090	9,907	7,640	6,976	6,275	VT	7,279	8,002	6,860	6,398	4,317
ME	7,761	8,338	9,960	9,654	7,160	WA	14,900	13,272	10,610	7,413	6,130
MI	7,444	7,599	7,908	7,951	7,131	WI	9,393	8,281	7,561	7,345	6,901
MN	7,936	8,246	6,978	6,884	5,078	WV	12,134	11,221	11,216	11,153	9,814
MO	10,206	10,119	9,718	9,471	7,504	WY	7,315	5,075	6,236	8,102	6,843
MS	7,181	6,997	6,268	7,045	7,254						

Contraceptive Services: Injectable

Nationally, the rate of injectable contraceptive services in the HCCI data was 3,984 per 100,000 females aged 18-44 in 2020, ranging from 1,422 in California to 10,251 in South Dakota. Across the US, the rate of injectable contraceptive use decreased 13% between 2016 and 2020.

Injectable contraceptives were identified by HCPCS and NDC codes in medical and pharmacy claims.

Rate of Injectable Contraceptive Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Injectable Contraceptive Services per 100,000 Females Aged 18-44 by State and Year

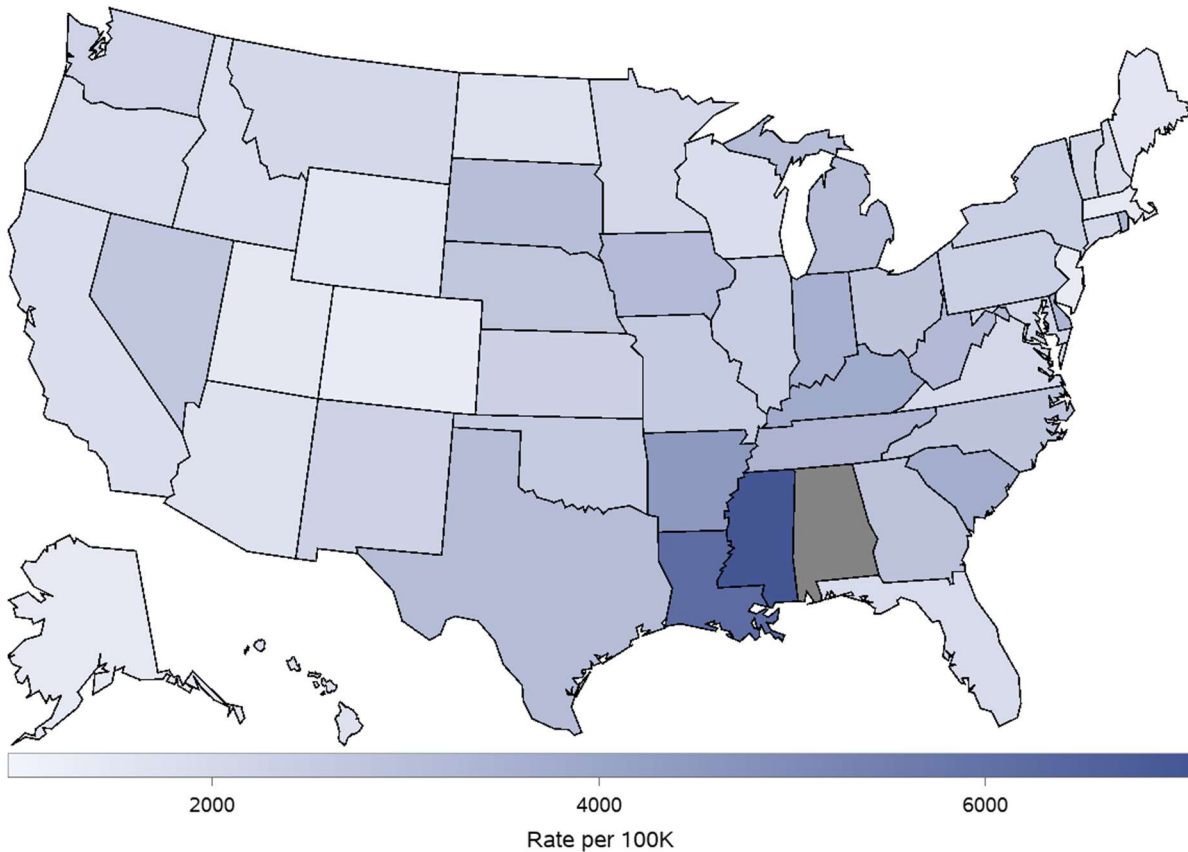
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	4,582	4,513	4,395	4,298	3,984	MT	5,753	5,804	5,439	6,263	5,317
AK	3,902	3,981	3,213	2,844	2,229	NC	6,596	6,448	6,320	6,354	5,863
AR	5,742	5,171	5,353	6,218	5,819	ND	7,091	4,947	6,871	6,194	5,526
AZ	4,576	4,878	4,387	4,346	4,350	NE	6,346	6,132	5,843	5,600	5,307
CA	1,665	1,745	1,729	1,833	1,422	NH	4,293	4,091	4,047	3,785	3,561
CO	3,931	3,496	3,455	3,305	3,255	NJ	2,543	2,687	2,667	2,611	2,529
CT	3,892	4,010	4,468	4,611	4,235	NM	6,213	6,745	6,059	5,939	5,676
DC	2,566	2,709	1,932	2,088	1,454	NV	3,984	4,679	4,761	4,139	4,397
DE	6,272	5,949	5,221	5,518	4,716	NY	4,336	4,121	3,935	4,120	3,799
FL	2,729	2,659	2,661	2,768	2,803	OH	5,845	6,198	6,271	6,508	6,646
GA	4,099	4,109	4,011	4,129	4,279	OK	5,551	5,623	5,567	5,299	4,466
HI	4,157	4,635	5,519	5,092	4,401	OR	4,112	3,975	3,965	3,404	3,241
IA	10,588	10,544	10,996	11,513	9,801	PA	5,823	5,603	5,507	5,481	5,198
ID	4,649	4,847	4,608	4,357	4,192	RI	5,058	6,144	5,525	5,715	5,476
IL	2,876	3,031	3,117	3,362	3,263	SC	6,232	6,131	6,514	6,159	6,140
IN	6,247	6,023	5,995	6,819	6,700	SD	11,123	10,457	10,729	10,775	10,251
KS	6,455	6,433	5,966	5,994	5,449	TN	5,603	5,012	4,909	4,450	4,321
KY	5,600	5,756	5,455	5,963	5,305	TX	4,245	4,186	4,161	4,286	3,977
LA	6,639	6,534	6,389	6,344	5,942	UT	4,172	3,896	3,828	3,983	3,349
MA	2,753	2,447	2,573	2,482	1,683	VA	4,005	3,713	3,206	3,332	3,686
MD	4,632	4,731	4,180	3,923	3,608	VT	5,784	4,946	4,604	4,846	4,085
ME	7,337	6,795	6,415	5,904	5,934	WA	4,430	4,081	3,909	3,869	3,425
MI	5,955	5,795	5,261	5,391	4,715	WI	9,022	8,792	8,807	8,338	7,698
MN	6,160	6,210	6,334	6,055	5,235	WV	5,993	5,857	5,492	5,885	6,639
MO	6,124	6,073	6,128	5,648	5,368	WY	4,487	6,992	5,288	5,197	5,521
MS	6,645	6,795	7,508	7,152	6,764						

Contraceptive Services: Patch

Nationally, the rate of use of contraceptive patches (hormone-containing patches) in the HCCI data was 2,452 per 100,000 females aged 18-44 in 2020, ranging from 941 in District of Columbia to 7,067 in Mississippi. Across the US, the rate of contraceptive patch use increased 19% between 2016 and 2020.

Contraceptive patch services were identified by HCPCS and NDC codes in medical and pharmacy claims.

Rate of Contraceptive Patch Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Contraceptive Patch Services per 100,000 Females Aged 18-44 by State and Year

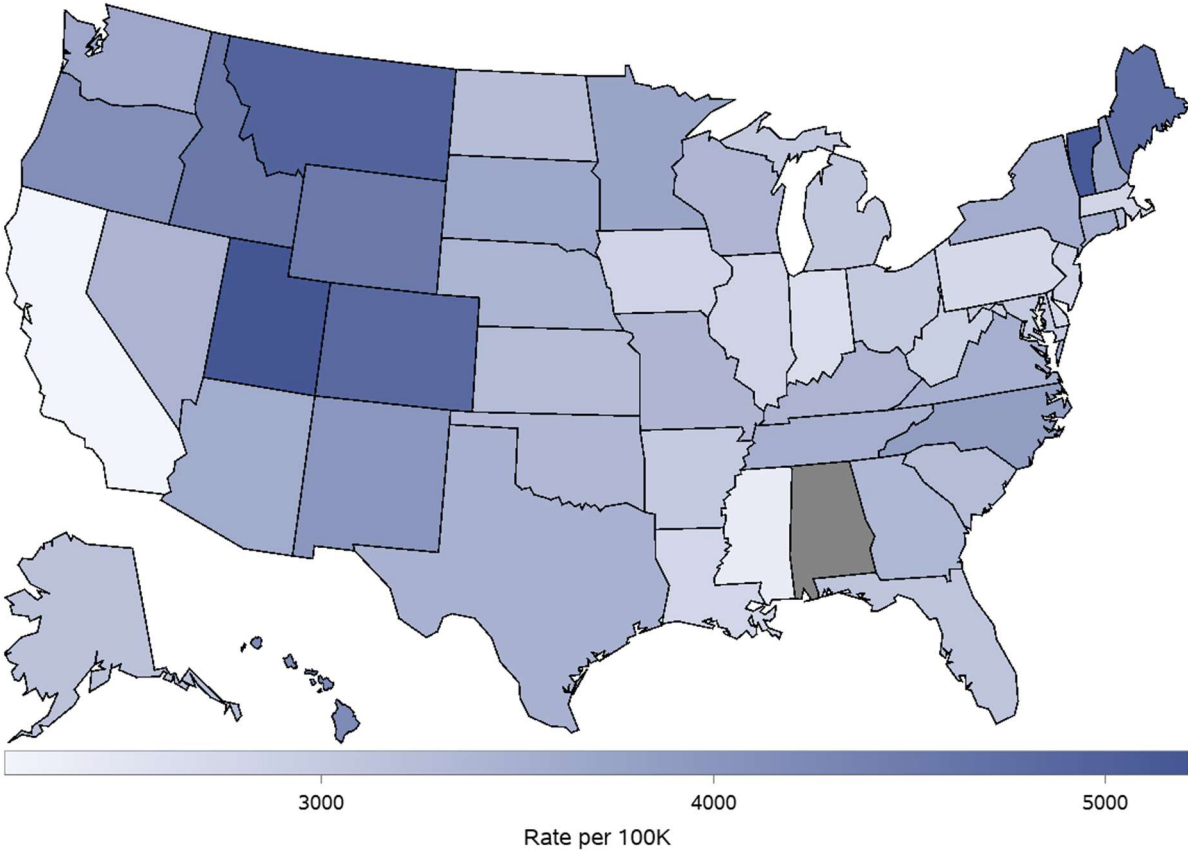
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	2,066	2,175	2,330	2,400	2,452	MT	1,277	2,129	2,584	1,626	1,980
AK	1,681	1,225	1,733	1,581	1,396	NC	2,504	2,554	2,767	2,915	2,818
AR	3,003	3,360	3,441	4,846	4,448	ND	.	1,660	2,833	2,596	1,667
AZ	1,356	1,391	1,732	1,703	1,666	NE	2,349	2,288	2,501	2,237	2,709
CA	1,477	1,603	1,690	2,032	1,766	NH	2,122	1,846	1,829	1,774	1,854
CO	1,629	1,559	1,685	1,493	1,287	NJ	994	1,037	1,169	1,116	1,295
CT	1,687	1,861	2,315	2,371	2,055	NM	1,962	2,512	2,524	2,407	2,267
DC	1,910	1,635	1,612	1,221	941	NV	1,918	1,869	2,094	3,161	2,679
DE	2,161	2,431	2,672	3,211	3,346	NY	2,283	2,273	2,289	2,305	2,348
FL	1,307	1,558	1,723	1,959	1,911	OH	2,033	2,149	2,307	2,515	2,795
GA	2,058	2,071	2,494	2,601	2,853	OK	2,278	2,588	2,563	2,776	2,533
HI	2,726	2,310	3,070	2,764	1,654	OR	2,102	2,348	2,516	1,898	1,901
IA	3,054	3,839	3,631	2,583	3,160	PA	1,839	2,066	2,263	2,202	2,315
ID	1,266	1,194	1,274	1,905	1,844	RI	3,832	3,153	3,962	2,772	3,218
IL	2,139	2,007	2,058	2,511	2,459	SC	2,758	2,809	3,594	2,993	3,665
IN	2,720	3,101	3,148	3,486	3,586	SD	3,567	3,515	4,124	4,249	2,998
KS	1,759	1,971	1,962	2,137	2,294	TN	2,345	2,549	2,773	3,267	3,407
KY	2,653	2,780	3,384	3,244	3,778	TX	2,204	2,311	2,563	2,977	3,080
LA	3,943	4,637	4,904	5,711	6,190	UT	986	1,227	1,288	1,590	1,430
MA	1,842	2,028	2,094	1,761	1,391	VA	1,760	1,818	1,743	1,734	2,000
MD	2,080	2,460	2,331	2,101	2,101	VT	2,010	2,272	2,348	1,497	2,120
ME	2,056	1,652	1,586	1,146	1,483	WA	3,377	3,141	2,735	2,289	2,208
MI	1,963	2,377	2,358	2,605	3,093	WI	2,148	1,895	1,582	1,774	1,776
MN	1,602	1,613	1,863	1,703	2,003	WV	2,612	3,201	2,900	3,144	3,180
MO	1,927	1,849	2,089	2,140	2,529	WY	1,998	.	1,313	1,065	1,527
MS	5,217	4,827	5,564	5,082	7,067						

Contraceptive Services: Intrauterine Device [IUD]

Nationally, the rate of IUD services in the HCCI data was 3,195 per 100,000 females aged 18-44 in 2020, ranging from 2,190 in California to 5,213 in Utah. Across the US, the rate of IUD service use increased 3% between 2016 and 2020.

IUDs (including copper and hormonal IUDs) were identified by CPT/HCPCS, ICD10-Procedure, and NDC codes in medical and pharmacy claims.

Rate of IUD Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of IUD Services per 100,000 Females Aged 18-44 by State and Year

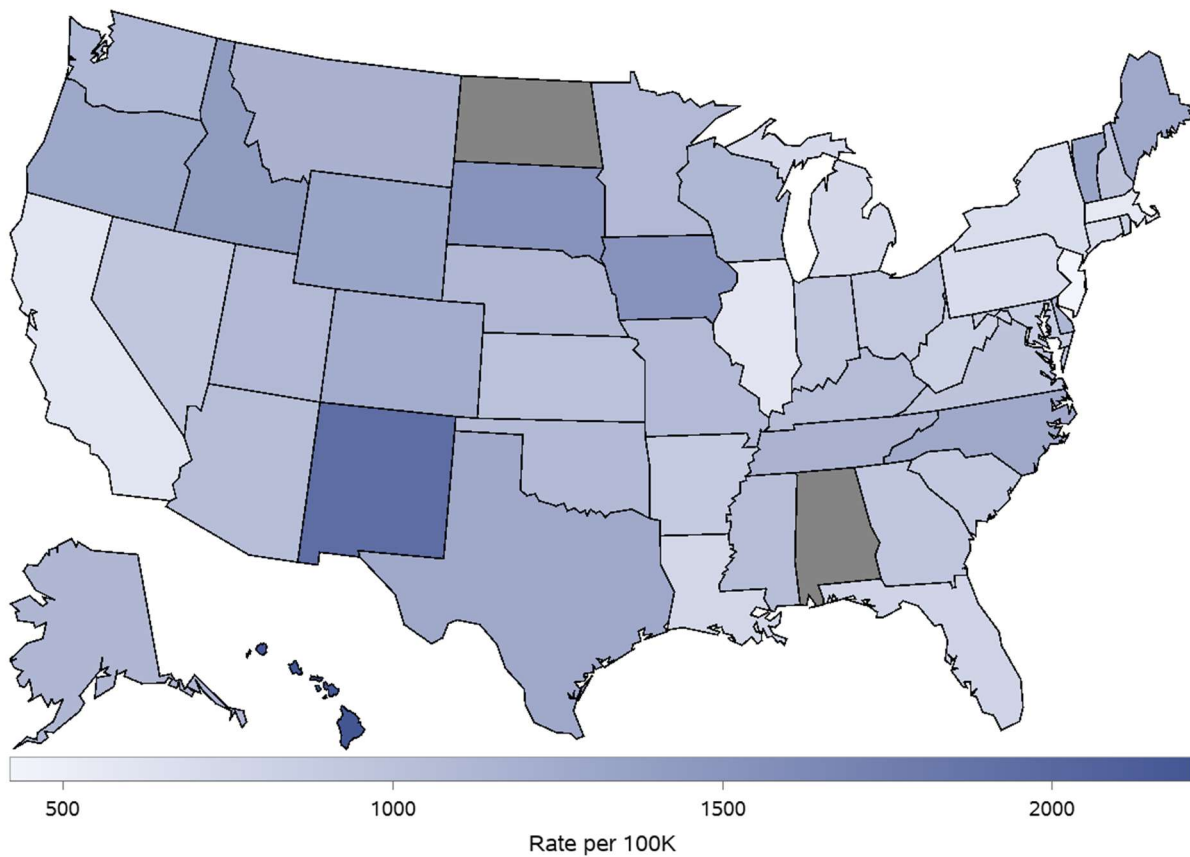
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	3,104	3,517	3,454	3,550	3,195	MT	4,646	5,338	4,908	5,646	4,937
AK	4,932	4,965	4,613	4,316	3,155	NC	3,854	4,280	4,089	4,217	3,843
AR	2,178	2,553	2,990	3,125	2,999	ND	3,064	2,880	2,963	3,858	3,240
AZ	3,372	3,703	3,580	3,675	3,572	NE	3,272	3,700	3,401	3,635	3,417
CA	2,345	2,723	2,700	2,808	2,190	NH	4,004	4,461	4,386	4,221	3,744
CO	4,777	5,306	5,104	4,826	4,827	NJ	3,044	3,599	3,178	3,347	2,824
CT	3,600	4,123	3,978	4,127	3,503	NM	4,148	4,817	4,379	5,148	3,972
DC	4,523	5,512	4,499	4,355	3,692	NV	3,023	3,431	3,255	3,517	3,410
DE	2,981	3,467	3,300	3,492	2,713	NY	3,600	3,970	3,787	3,958	3,550
FL	2,728	3,029	3,163	3,255	3,100	OH	2,689	3,135	3,224	3,320	2,993
GA	3,024	3,539	3,411	3,610	3,348	OK	2,738	3,158	3,123	3,399	3,340
HI	3,000	3,287	3,070	3,965	4,177	OR	4,369	4,635	5,243	4,990	4,113
IA	3,024	3,682	3,222	3,368	2,816	PA	2,510	2,981	2,931	2,980	2,691
ID	4,061	4,534	4,554	4,796	4,556	RI	3,692	3,873	3,357	3,833	3,174
IL	2,680	3,178	3,040	3,098	2,822	SC	2,901	3,330	3,468	3,557	3,268
IN	2,419	2,746	2,922	2,977	2,639	SD	3,540	3,515	3,566	3,705	3,643
KS	2,846	3,407	3,367	3,463	3,273	TN	3,372	3,793	3,765	3,844	3,495
KY	2,712	3,079	3,314	3,470	3,412	TX	3,241	3,630	3,474	3,690	3,458
LA	2,345	2,530	2,787	2,928	2,763	UT	4,786	5,302	5,313	5,393	5,213
MA	3,702	3,921	3,649	3,431	2,773	VA	3,571	4,362	4,062	3,947	3,497
MD	3,676	3,969	3,665	3,577	3,001	VT	5,686	6,695	5,801	6,153	5,145
ME	5,397	6,129	5,511	5,708	4,707	WA	4,481	4,688	4,322	4,313	3,656
MI	2,719	3,115	3,189	3,205	3,038	WI	3,088	3,552	3,591	3,514	3,375
MN	3,557	4,069	4,100	4,288	3,696	WV	2,749	3,254	3,371	3,437	2,885
MO	3,160	3,422	3,471	3,664	3,355	WY	3,733	4,624	4,522	4,261	4,523
MS	1,754	2,119	2,102	2,347	2,361						

Contraceptive Services: Implantable

Nationally, the rate of implantable contraceptive services in the HCCI data was 882 per 100,000 females aged 18-44 in 2020, ranging from 418 in New Jersey to 2,215 in Hawaii. Across the US, the rate of implantable contraceptive services increased 14% between 2016 and 2020.

Implantable contraceptive services were identified by HCPCS, ICD-10-Procedure, and NDC codes in medical and pharmacy claims.

Rate of Implantable Contraceptive Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Implantable Contraceptive Services per 100,000 Females Aged 18-44 by State and Year

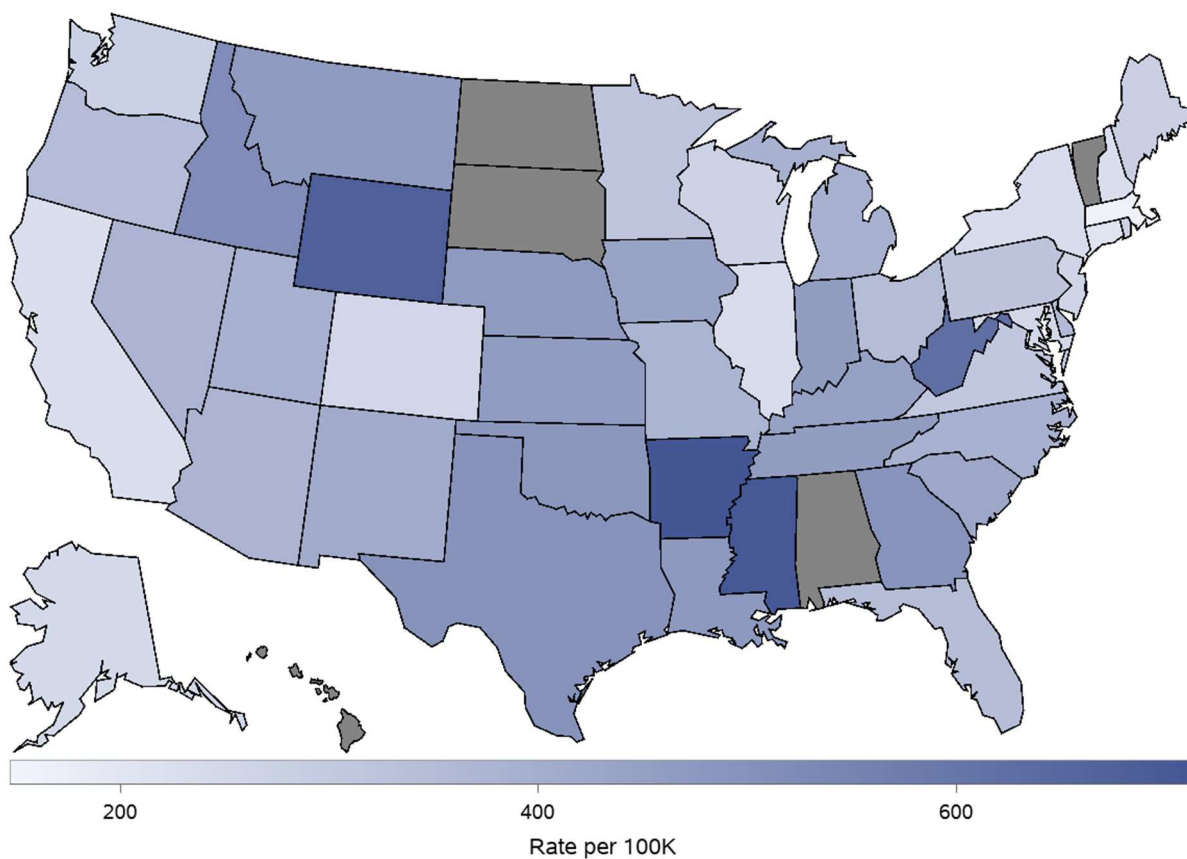
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	773	901	909	1,008	882	MT	1,368	1,080	1,581	1,370	1,166
AK	1,629	2,021	1,526	1,553	1,110	NC	1,165	1,293	1,278	1,507	1,267
AR	741	840	788	938	885	ND	998	.	1,270	1,001	.
AZ	808	959	970	1,026	1,024	NE	1,012	1,168	1,068	1,162	1,099
CA	376	509	569	724	583	NH	937	1,133	1,116	1,352	969
CO	1,125	1,188	1,265	1,314	1,229	NJ	281	409	400	438	418
CT	787	912	841	859	695	NM	1,567	1,662	2,009	2,249	1,946
DC	798	813	866	970	825	NV	781	990	960	1,075	930
DE	994	1,541	1,385	1,358	1,118	NY	624	723	708	833	675
FL	542	803	751	872	779	OH	716	868	936	1,023	905
GA	799	969	971	1,072	934	OK	993	1,013	1,053	1,365	1,084
HI	1,157	1,377	1,359	2,373	2,215	OR	1,186	1,454	1,517	1,481	1,283
IA	1,209	1,445	1,397	1,639	1,518	PA	597	687	684	793	694
ID	1,321	1,404	1,460	1,671	1,422	RI	728	1,051	827	981	836
IL	420	530	534	624	580	SC	942	1,116	1,125	984	916
IN	895	974	938	1,089	947	SD	1,030	1,260	1,333	1,632	1,515
KS	892	1,034	1,025	1,088	996	TN	1,103	1,198	1,192	1,238	1,155
KY	905	1,004	1,040	1,157	1,045	TX	1,019	1,170	1,161	1,369	1,266
LA	760	817	780	885	743	UT	1,174	1,204	1,242	1,386	1,085
MA	625	732	823	777	545	VA	851	1,004	1,084	1,062	962
MD	871	1,040	1,055	957	861	VT	1,814	1,588	1,220	1,606	1,319
ME	1,162	1,246	1,419	1,488	1,266	WA	1,099	1,205	1,131	1,260	1,107
MI	697	742	726	806	724	WI	883	904	1,000	1,144	1,096
MN	990	1,157	1,304	1,381	1,094	WV	861	976	1,044	1,083	821
MO	1,022	1,092	1,057	1,255	1,066	WY	1,244	1,128	912	1,582	1,322
MS	982	1,200	953	1,125	1,024						

Sterilization: Tubal Ligation

Nationally, the rate of tubal ligation services in the HCCI data was 347 per 100,000 females aged 18-44 in 2020, ranging from 156 in Massachusetts to 714 in Arkansas. Across the US, the rate of tubal ligation services decreased 45% between 2016 and 2020.

Tubal ligation services include fallopian tube resection, occlusion, or destruction as identified by CPT/HCPCS, ICD-10-Procedure, and NDC codes in medical and pharmacy claims.

Rate of Tubal Ligation Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Tubal Ligation Services per 100,000 Females Aged 18-44 by State and Year

State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	636	543	496	429	347	MT	642	565	473	414	467
AK	581	532	490	415	241	NC	652	595	538	481	387
AR	997	871	832	778	714	ND	.	.	634	.	.
AZ	614	563	486	489	377	NE	658	586	633	534	471
CA	442	353	326	324	228	NH	398	402	371	293	227
CO	526	438	382	300	254	NJ	465	412	379	321	261
CT	335	284	264	205	208	NM	812	594	716	584	409
DC	202	.	118	85	.	NV	754	662	636	482	377
DE	579	528	569	396	356	NY	408	323	302	271	234
FL	651	441	436	372	344	OH	664	577	514	480	350
GA	767	716	663	593	491	OK	852	777	751	712	480
HI	508	412	303	.	.	OR	525	509	430	420	348
IA	648	652	577	566	439	PA	615	546	468	403	319
ID	769	753	629	700	516	RI	408	412	335	295	273
IL	441	382	327	277	234	SC	762	655	588	500	422
IN	760	695	619	582	459	SD	658	656	.	499	.
KS	810	743	654	596	463	TN	794	670	638	579	458
KY	835	748	644	558	445	TX	878	719	705	605	496
LA	864	774	688	647	473	UT	662	618	461	380	389
MA	295	228	220	159	156	VA	606	517	438	381	309
MD	454	383	317	273	249	VT	.	.	.	.	.
ME	624	449	421	322	279	WA	490	432	369	328	274
MI	594	535	508	472	388	WI	438	415	354	333	268
MN	557	504	450	380	315	WV	1,102	914	876	716	622
MO	655	607	566	493	378	WY	992	843	915	562	676
MS	1,123	1,078	1,073	862	706						

Rate of Vasectomy Services per 100,000 Males Aged 18-64 by State and Year

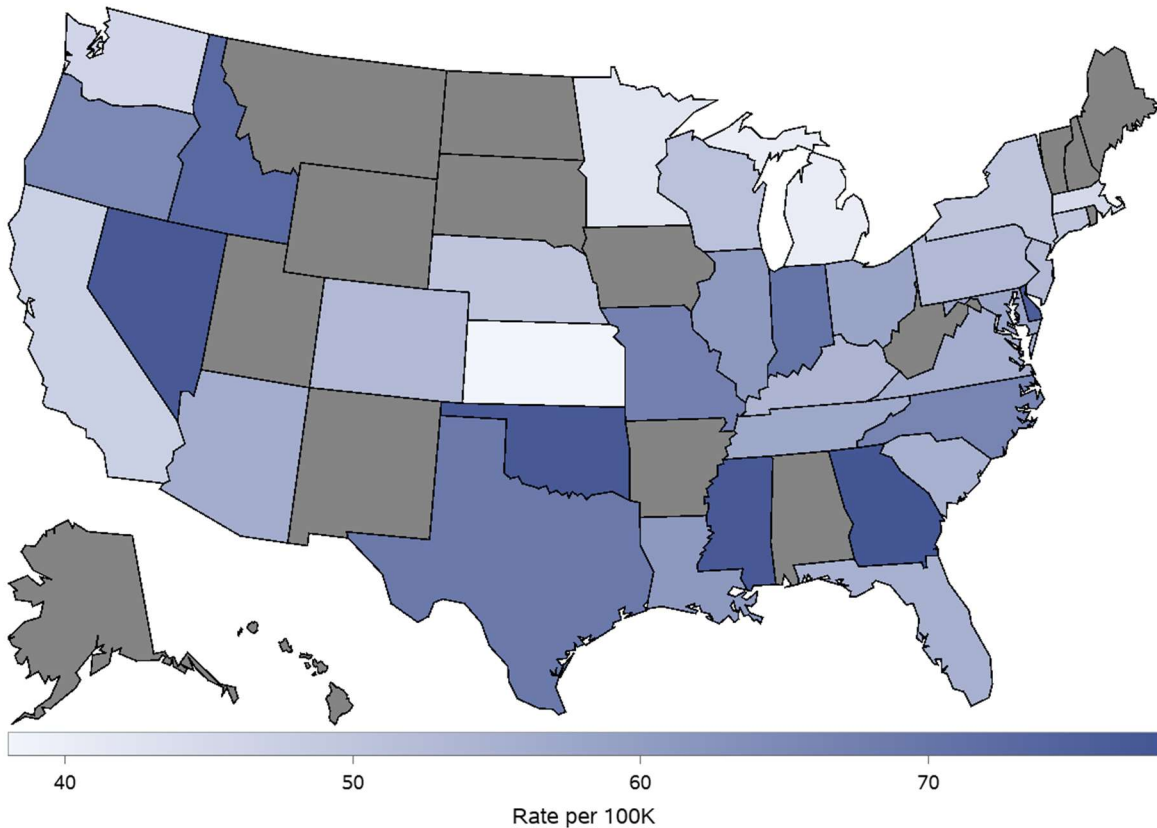
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	472	474	487	509	428	MT	764	717	764	722	620
AK	568	577	643	585	453	NC	467	498	486	516	436
AR	489	469	448	510	398	ND	590	824	657	687	575
AZ	571	607	627	641	530	NE	601	624	639	630	564
CA	351	358	368	421	308	NH	510	549	479	578	449
CO	760	779	665	728	655	NJ	302	335	330	351	262
CT	357	335	375	384	314	NM	496	512	508	543	439
DC	218	192	246	280	221	NV	457	436	485	507	442
DE	463	404	422	455	385	NY	371	371	361	398	326
FL	363	285	359	335	314	OH	468	523	534	549	445
GA	414	414	434	448	400	OK	622	608	611	663	600
HI	235	183	163	207	.	OR	629	650	640	705	617
IA	630	566	589	616	545	PA	483	515	504	539	412
ID	726	778	777	842	770	RI	421	400	459	542	405
IL	475	490	488	522	423	SC	425	447	453	497	452
IN	540	533	550	568	505	SD	584	523	695	739	574
KS	586	605	597	621	559	TN	527	540	519	575	518
KY	501	519	548	573	496	TX	456	456	463	483	438
LA	511	540	561	596	583	UT	824	750	840	917	750
MA	454	460	456	452	348	VA	388	414	451	456	366
MD	395	420	491	493	401	VT	473	789	582	710	733
ME	555	559	517	542	413	WA	667	672	673	700	564
MI	561	547	562	583	487	WI	632	566	575	648	529
MN	673	699	719	729	503	WV	417	440	455	489	414
MO	539	560	611	628	556	WY	701	646	713	666	656
MS	418	394	388	445	360						

Pregnancy Termination Services: Ectopic Pregnancy Treatment

An ectopic pregnancy can be a life-threatening emergency but is relatively rare; nationally, the rate of treatment services for ectopic pregnancy in the HCCI data was 56 per 100,000 females aged 18-44 in 2020. This rate ranged from 38 in Kansas to 78 in Georgia. Across the US, the rate of ectopic pregnancy treatment services decreased 8% between 2016 and 2020.

Ectopic pregnancy treatment services include surgical or laparoscopic treatment of ectopic pregnancy, identified by CPT/HCPCS and ICD-10-Procedure codes in medical claims.

Rate of Ectopic Pregnancy Treatment Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Ectopic Pregnancy Treatment Services per 100,000 Females Aged 18-44 by State and Year

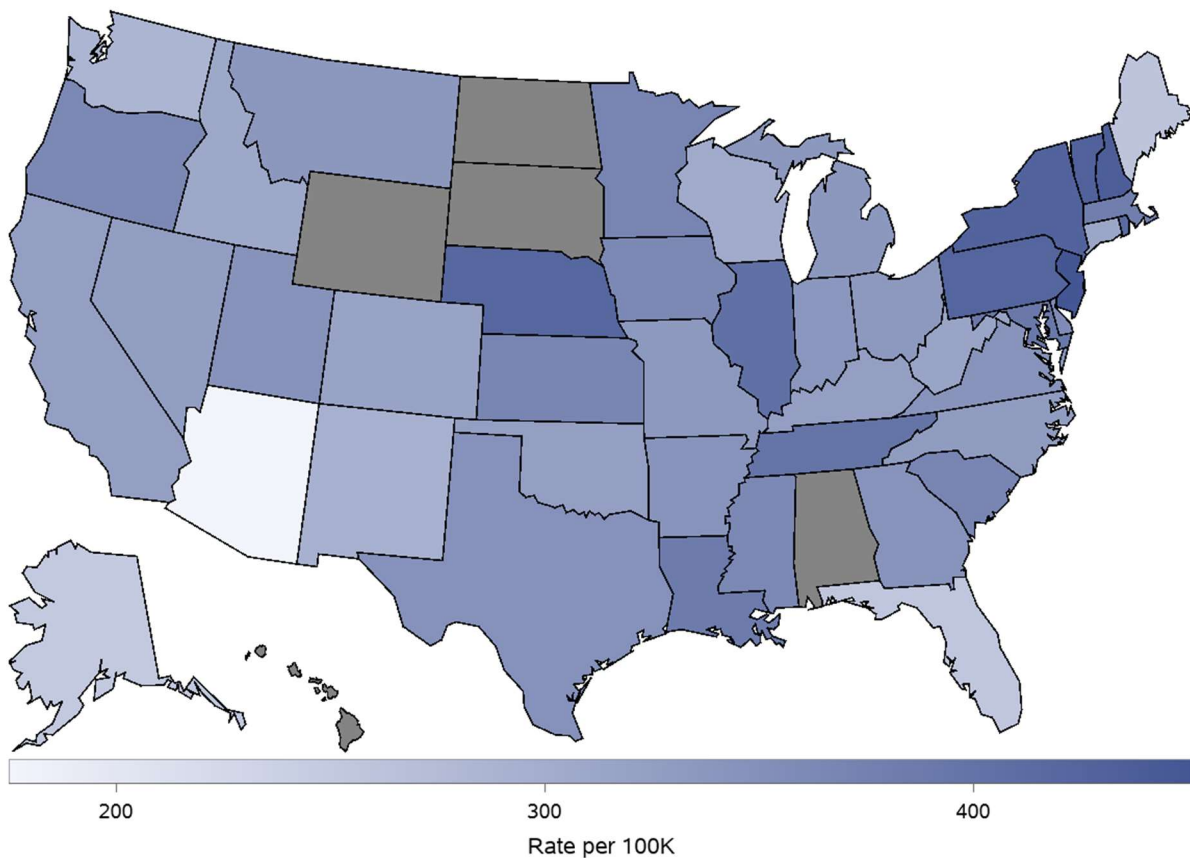
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	61	59	58	57	56	MT	.	.	.	.	.
AK	.	.	.	75	.	NC	67	64	55	69	66
AR	65	.	.	89	.	ND	.	.	.	.	.
AZ	65	52	64	56	56	NE	81	79	68	75	50
CA	48	57	48	46	47	NH	.	.	.	.	.
CO	84	55	68	60	53	NJ	56	51	52	62	53
CT	52	36	60	50	50	NM	.	.	.	.	.
DC	.	.	.	.	.	NV	89	81	.	76	77
DE	68	.	54	79	76	NY	53	62	51	56	50
FL	54	45	48	43	55	OH	62	66	51	53	58
GA	72	64	72	70	78	OK	74	58	82	77	77
HI	.	.	.	.	.	OR	.	.	.	72	65
IA	67	77	.	65	.	PA	58	58	53	51	53
ID	58	74	63	54	73	RI	.	.	.	.	.
IL	56	54	62	55	61	SC	78	64	79	71	55
IN	65	72	57	67	70	SD	.	.	.	.	.
KS	46	68	45	57	38	TN	53	49	68	48	57
KY	61	58	68	58	54	TX	75	70	64	62	69
LA	85	67	67	56	61	UT	64	70	.	62	.
MA	42	42	41	30	45	VA	70	56	64	52	56
MD	66	51	72	73	58	VT	.	.	.	.	.
ME	.	.	.	.	.	WA	55	61	48	54	46
MI	66	48	52	57	40	WI	66	51	52	45	51
MN	.	78	72	75	42	WV	64	68	.	58	.
MO	45	61	64	67	67	WY	.	.	.	.	.
MS	.	101	95	86	77						

Pregnancy Termination Services: Spontaneous Abortions

Nationally, the HCCI data show 352 spontaneous abortion services per 100,000 females aged 18-44 in 2020, ranging from 175 in Arizona to 451 in New Jersey. Across the US, the rate of spontaneous abortion services decreased 15% between 2016 and 2020.

Spontaneous abortion services include surgical treatment of incomplete, septic, and missed abortions and/or anesthesia for missed abortion, as identified by CPT/HCPCS codes in medical claims.

Rate of Spontaneous Abortion Services per 100,000 Females Aged 18-44 in 2020 by State



States shaded in grey have insufficient data or other data limitations.

Rate of Spontaneous Abortion Services per 100,000 Females Aged 18-44 by State and Year

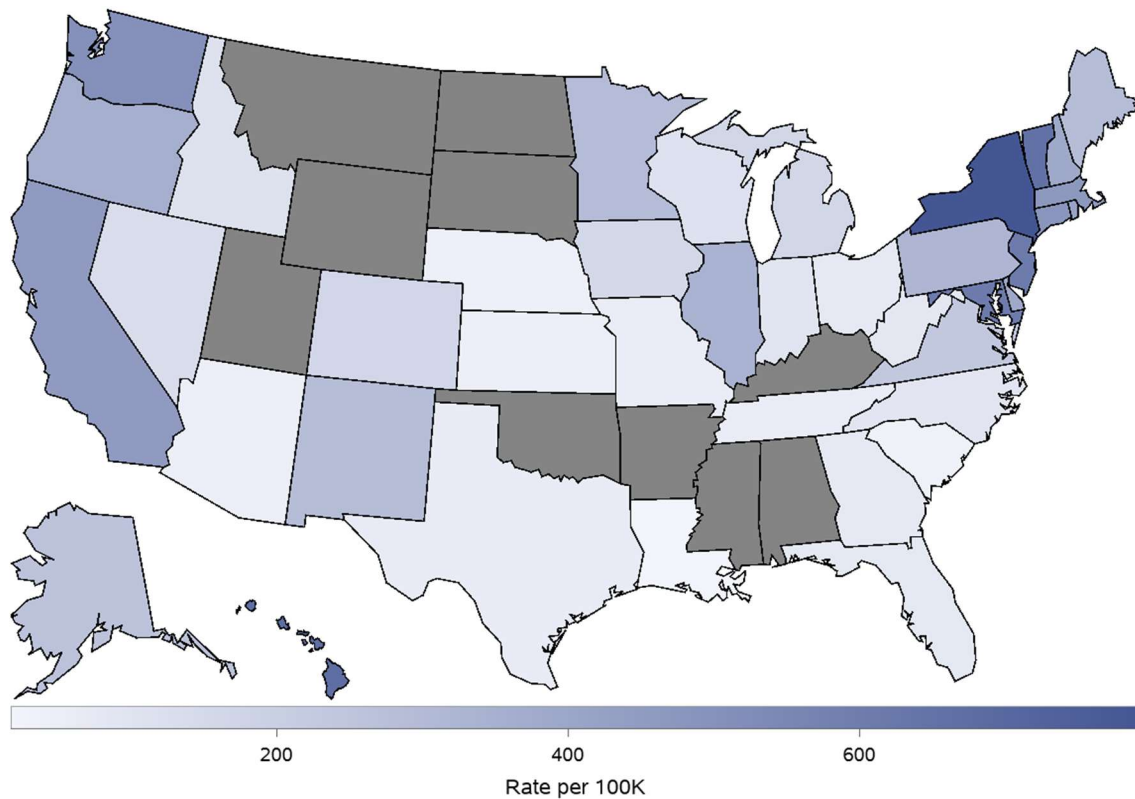
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	415	399	391	381	352	MT	337	329	364	331	335
AK	338	339	297	266	250	NC	368	395	356	359	329
AR	333	339	302	360	343	ND	.	.	.	.	.
AZ	203	194	200	179	175	NE	454	441	420	471	420
CA	392	392	375	386	324	NH	455	398	418	389	436
CO	340	361	334	295	317	NJ	535	544	500	505	451
CT	399	398	368	410	312	NM	240	247	264	305	293
DC	437	539	401	465	404	NV	319	297	259	327	325
DE	439	399	449	415	356	NY	495	501	487	489	427
FL	348	257	300	254	255	OH	389	395	388	378	334
GA	403	384	372	344	343	OK	378	334	351	328	324
HI	411	412	.	275	.	OR	276	321	285	345	361
IA	418	384	388	357	361	PA	464	443	460	452	423
ID	354	326	348	344	308	RI	460	259	544	458	414
IL	459	457	445	434	404	SC	426	408	392	397	366
IN	362	380	359	352	338	SD	.	585	.	430	.
KS	411	424	400	382	367	TN	420	436	388	385	397
KY	377	399	349	358	323	TX	420	388	372	348	346
LA	433	408	407	455	385	UT	412	448	392	325	345
MA	510	493	444	402	379	VA	421	443	415	423	343
MD	459	486	452	412	390	VT	.	476	386	457	429
ME	359	380	336	372	259	WA	359	337	349	321	286
MI	400	385	371	370	335	WI	349	297	311	343	302
MN	378	434	406	368	368	WV	362	344	388	358	315
MO	378	379	362	353	334	WY	526	.	.	.	.
MS	439	424	419	439	362						

Pregnancy Termination Services: Induced Abortions

Nationally, the rate of induced abortion services in the HCCI data was 259 per 100,000 females aged 18-44 in 2020, ranging from 17 in Louisiana to 792 in New York. Across the US, the rate of induced abortion services increased 1% between 2016 and 2020.

Induced abortion services pertain to medication (Mifeprex), surgical procedures, and/or anesthesia for abortion services identified by CPT/HCPCS and ICD-10-Procedure codes in medical claims.

Rate of Induced Abortion Services per 100,000 Females Aged 18-44 in 2020 by State



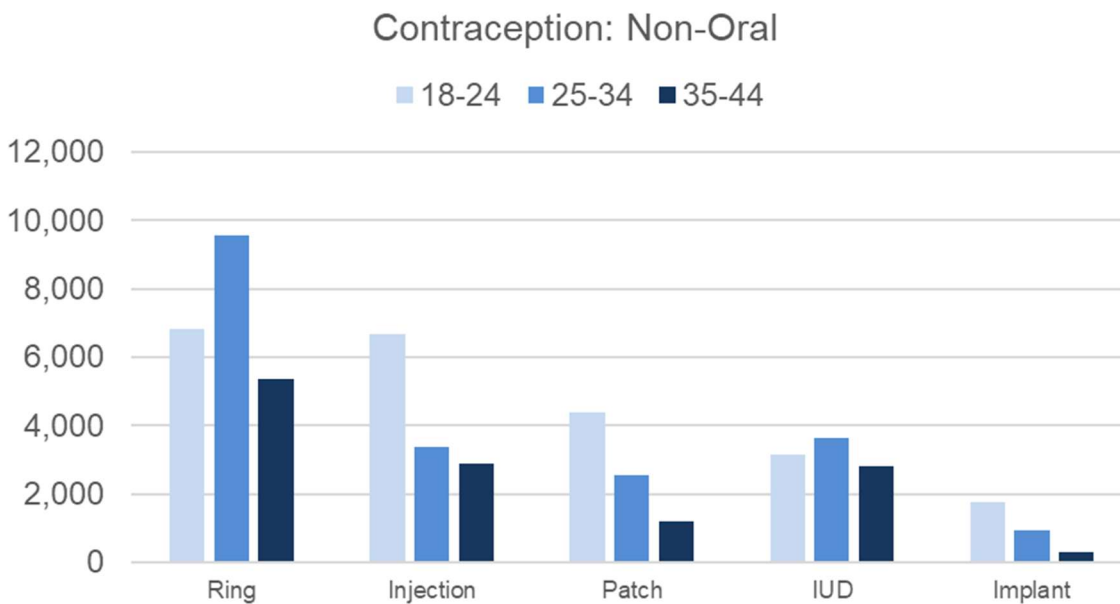
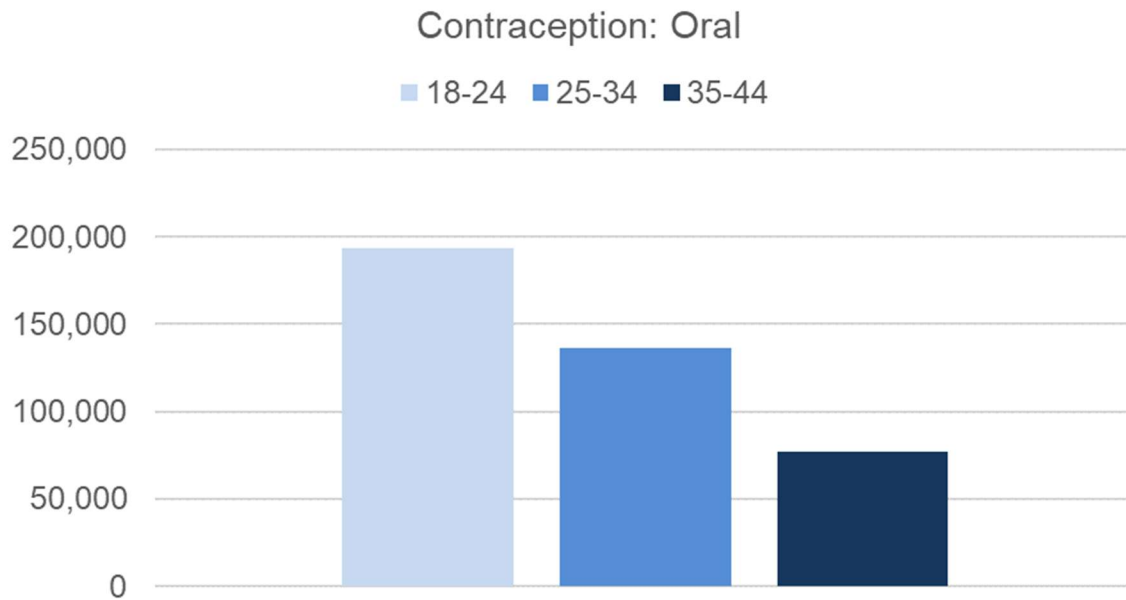
States shaded in grey have insufficient data or other data limitations.

Rate of Induced Abortion Services per 100,000 Females Aged 18-44 by State and Year

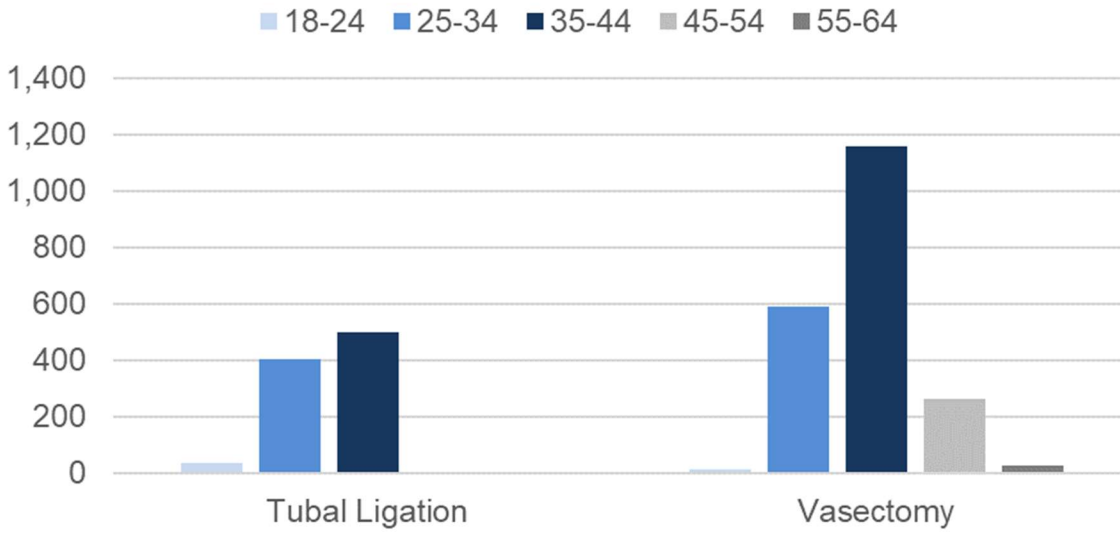
State	2016	2017	2018	2019	2020	State	2016	2017	2018	2019	2020
National	256	244	254	276	259	MT	191	191	178	.	.
AK	348	307	354	316	258	NC	102	84	73	67	87
AR	.	.	.	.	.	ND	.	.	.	.	.
AZ	97	76	61	69	42	NE	36	39	39	38	41
CA	377	375	441	529	451	NH	504	382	434	460	387
CO	226	181	201	211	166	NJ	720	650	641	691	604
CT	685	566	469	499	476	NM	262	169	279	299	288
DC	489	539	549	465	456	NV	.	97	93	149	132
DE	692	528	473	484	384	NY	838	834	837	848	792
FL	109	86	107	91	75	OH	87	84	68	69	71
GA	107	93	98	92	74	OK	.	.	26	.	.
HI	919	845	817	682	670	OR	314	265	261	332	356
IA	137	175	138	130	153	PA	416	393	361	374	321
ID	58	76	76	60	109	RI	763	498	468	576	409
IL	277	289	285	290	336	SC	47	41	39	34	27
IN	100	117	117	104	94	SD	.	.	.	.	.
KS	39	48	48	41	44	TN	58	47	46	36	53
KY	31	.	.	.	.	TX	75	72	62	61	61
LA	17	.	18	18	17	UT	.	.	.	.	.
MA	609	595	575	578	462	VA	215	231	291	259	231
MD	486	528	661	624	604	VT	490	503	490	472	651
ME	342	287	271	287	289	WA	469	568	476	477	504
MI	196	201	192	175	161	WI	99	111	88	123	110
MN	308	325	314	309	290	WV	113	131	99	85	79
MO	51	49	42	51	53	WY	.	.	.	.	.
MS	.	.	.	.	.	

Sexual Health and Reproductive Services by Age among ESI Enrollees

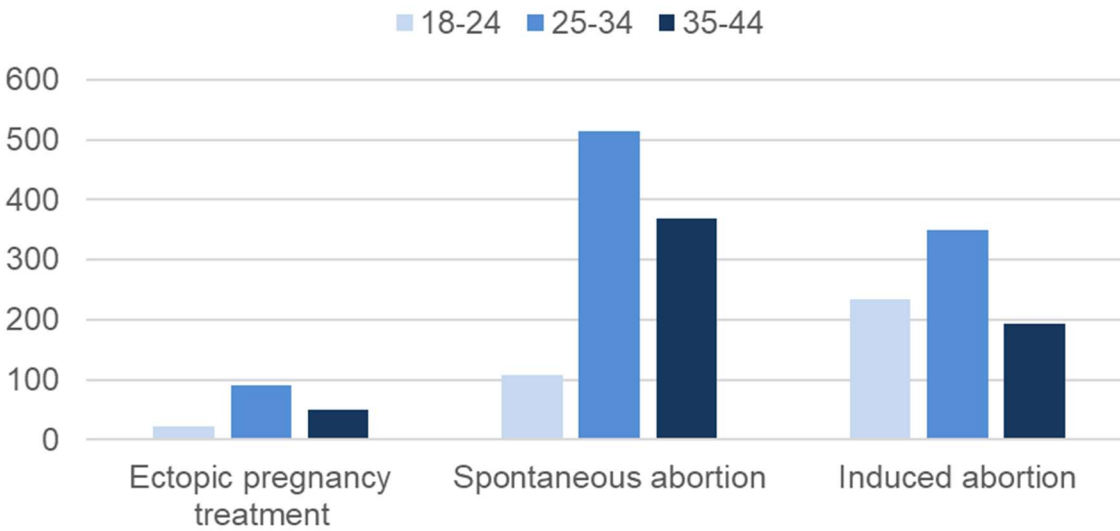
Below, we show national rates (per 100,000 eligible individuals) of each service by age group in 2020. Use rates by age group were consistent over the study period, 2016-2020. Please see the Downloadable Data accompanying this report for age-specific rates over time and in additional age groups.



Sterilization



Pregnancy Termination



Methodology

We defined a list of reproductive and sexual health services used by [OASH](#). The services identified from OASH include oral contraceptives, contraceptive ring, contraceptive patch, diaphragm, injectable contraceptives, IUD, implantable contraceptives, and tubal ligation. We expanded on this list by adding vasectomy and services that result in termination of pregnancy (treatment of ectopic pregnancies, spontaneous abortions, and induced abortions). We used procedural codes (CPT/HCPCS, ICD-10-Procedure) and NDC codes to identify medical and pharmacy claims for these services.

This report only identifies services rendered and paid for by employer sponsored insurance and rates are only representative of the services provided for each category. We apply the word “use” throughout this report to indicate services rendered and identified through claims, not current contraceptive or reproductive status. For example, IUDs are long-acting contraceptives and may be used for many years so there may be more individuals currently using an IUD than the number of IUD services performed in a year. In contrast, oral contraceptive services (i.e., prescription fills) could occur multiple times for an individual in a single year as monthly or quarterly prescriptions are filled. Therefore, interpreting our measure of use is limited to the number of services in the eligible population and not the number of people currently using a given service or product.

For most services, the rate denominator included eligible individuals (males aged 18-64 for vasectomies, females aged 18-44 for all other services) with continuous enrollment in an employer sponsored insurance plan with medical and pharmacy coverage for each calendar year. Vasectomy, tubal ligation, and pregnancy termination services only required medical coverage. Individuals contribute towards each service numerator maximum of once per day during each calendar year and rates are presented per 100,000 eligible individuals. No additional exclusion criteria (such as recent pregnancy, evidence of menopause, etc.) was applied to the denominator. We categorized individuals as female or male based on the reported sex in their enrollment file in the HCCI commercial claims data, excluding those with multiple different sex records in the calendar year. For each service, state-level data was excluded if there were fewer than 25 services in the calendar year; AL was excluded across all services due to data limitations.