



Issue Brief

September 2023

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, updated with data from 2021. Note that the report measures use as the number of services received and not the number of people [currently using a given service](#) or product.

We used 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 assessed the 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 (7,946,836 services in 2021), followed by ring (466,180), injectable (126,043), patch (124,161), intrauterine devices [IUDs] (116,107), and implantable (29,599) contraceptives. We looked at but ultimately excluded diaphragm use from this category due to low volume. Nationally, use of patch contraceptive services increased from 2017 to 2021. In contrast, use of oral, ring, and injectable contraceptives declined over the same period. IUD rates fluctuated throughout the time period, and implant rates increased until 2019 and declined thereafter. 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 examined rates of tubal ligation and vasectomy services. The national rate of tubal ligation services has declined from 2017 to 2021, with rates dropping especially low in 2020. In contrast, national vasectomy services rates increased from 2017 to 2019, dropped substantially in 2020, and continued to rise in 2021. Tubal ligation use was highest for

females aged 44-45, followed closely by those aged 35-44. Vasectomy rates were highest among males aged 35-44, over one and half times rates among those aged 25-34.

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 and increased in 2021. Rates of induced abortion increased from 2017 until 2019 and declined in the following two years. Use of these services was highest among females aged 25-34.

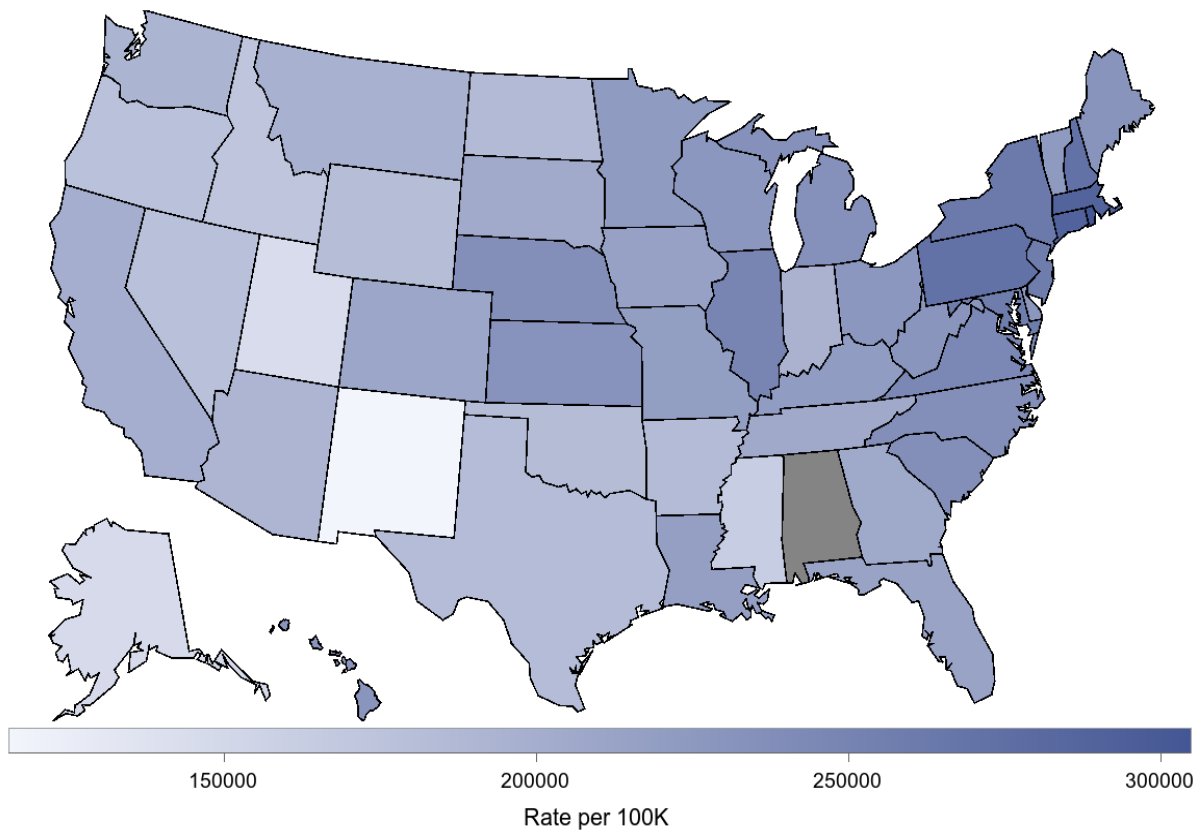
Reported service rates may understate actual use of these services since we include only those services covered by employer-sponsored health insurance (ESI). [Studies show](#) that many women who receive abortion services pay out of pocket and do not use their insurance. In those cases, the service would 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 223,588 claims (largely prescription fills) per 100,000 females aged 18-44 in 2021 for oral contraceptives. (The same person could have multiple claims.) The rate of oral contraception use ranged from 115,444 in New Mexico to 304,698 in Rhode Island. Across the US, rates of oral contraception claims decreased 7% between 2017 and 2021.

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 2021 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

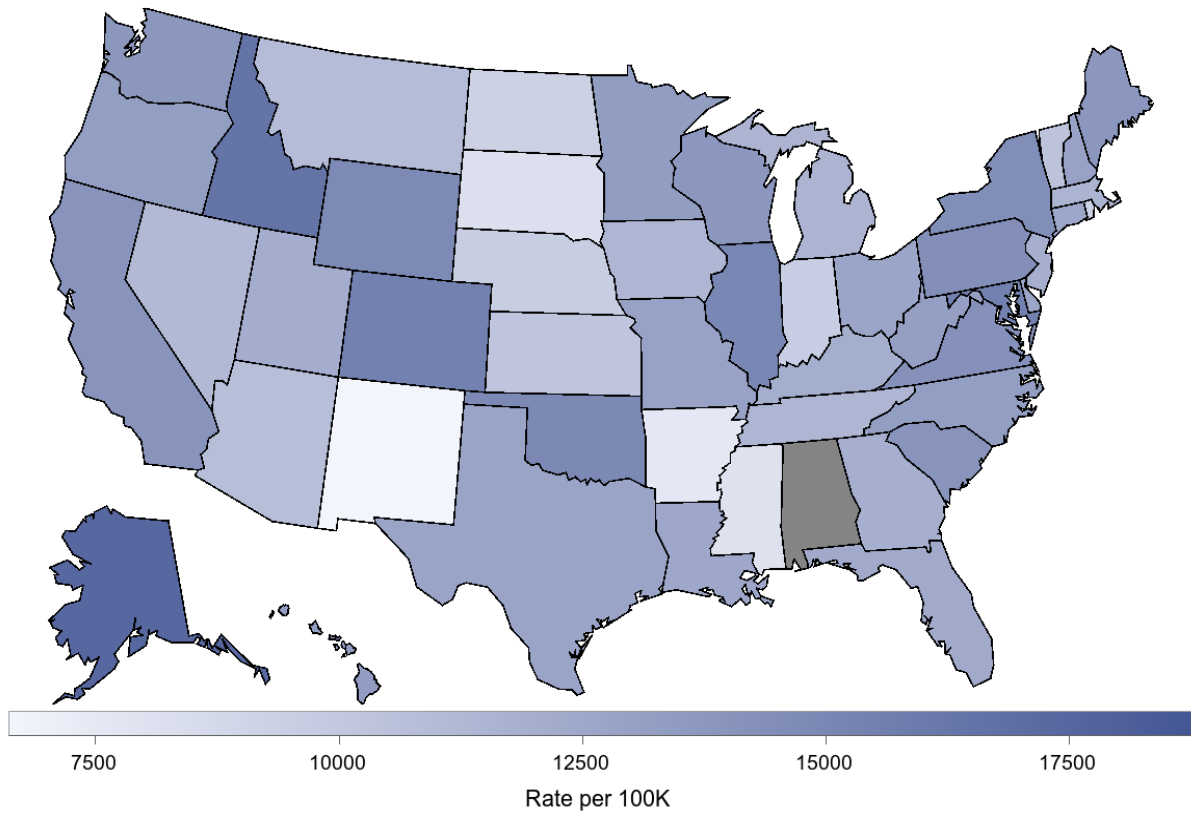
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	240,234	240,135	239,594	233,691	223,588	MT	243,063	240,839	236,752	222,036	195,374
AK	173,639	157,940	137,007	107,180	146,479	NC	252,217	256,487	256,281	253,743	236,374
AR	214,682	211,244	213,846	206,391	183,375	ND	223,198	229,489	224,309	192,715	184,956
AZ	204,247	207,498	203,548	191,423	190,546	NE	272,466	267,955	263,105	254,741	236,132
CA	187,795	196,476	206,997	206,703	198,771	NH	292,140	291,614	294,099	278,448	270,830
CO	227,872	224,433	229,835	221,158	208,932	NJ	261,434	262,823	258,468	258,892	257,463
CT	301,748	306,676	312,721	302,568	289,818	NM	172,387	168,276	158,269	150,522	115,444
DC	241,996	285,345	258,695	254,008	266,476	NV	174,629	183,227	181,674	179,604	177,237
DE	263,792	252,194	243,474	236,371	226,803	NY	284,404	279,288	284,346	279,040	262,413
FL	230,257	229,242	228,691	225,713	211,900	OH	250,210	246,169	248,213	248,565	227,006
GA	214,278	214,699	223,256	217,791	205,482	OK	211,251	213,150	200,992	210,944	182,847
HI	227,819	227,864	232,634	235,305	229,067	OR	171,187	182,216	179,148	177,420	176,517
IA	236,524	240,220	241,414	236,725	215,346	PA	296,401	297,720	295,517	290,050	270,422
ID	194,424	192,494	195,203	191,129	171,763	RI	325,742	315,602	317,135	322,825	304,698
IL	250,856	248,728	267,231	264,519	247,963	SC	236,672	242,727	231,146	242,527	235,725
IN	205,112	206,971	219,031	208,076	194,342	SD	220,867	234,680	247,776	194,517	203,524
KS	255,548	254,273	253,660	245,370	231,402	TN	229,506	223,638	224,729	222,136	205,098
KY	234,597	234,378	248,144	235,674	220,619	TX	192,739	189,363	202,765	200,902	182,743
LA	250,255	242,029	249,433	243,001	217,484	UT	149,798	149,047	152,565	147,144	144,142
MA	305,207	291,170	273,199	255,580	287,458	VA	238,964	256,543	249,805	247,440	244,151
MD	231,980	261,508	249,311	247,936	258,152	VT	286,821	280,715	274,198	261,890	223,038
ME	257,559	243,282	259,779	252,539	230,894	WA	205,674	212,507	173,422	158,152	192,755
MI	264,759	265,313	266,531	257,279	233,450	WI	259,076	250,019	259,070	240,880	226,940
MN	266,063	252,770	250,000	230,309	222,202	WV	243,703	239,759	241,189	242,477	229,468
MO	247,039	243,303	230,914	223,336	218,465	WY	188,902	208,708	214,442	204,137	181,579
MS	177,439	171,531	179,399	182,544	162,698						

Contraceptive Services: Ring

Nationally, the rate of contraceptive ring use in the HCCI data was 13,116 related services per 100,000 females aged 18-44 in 2021, ranging from 6,606 in New Mexico to 18,771 in District of Columbia. Across the US, the rate of contraceptive ring services decreased 3% between 2017 and 2021.

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 2021 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

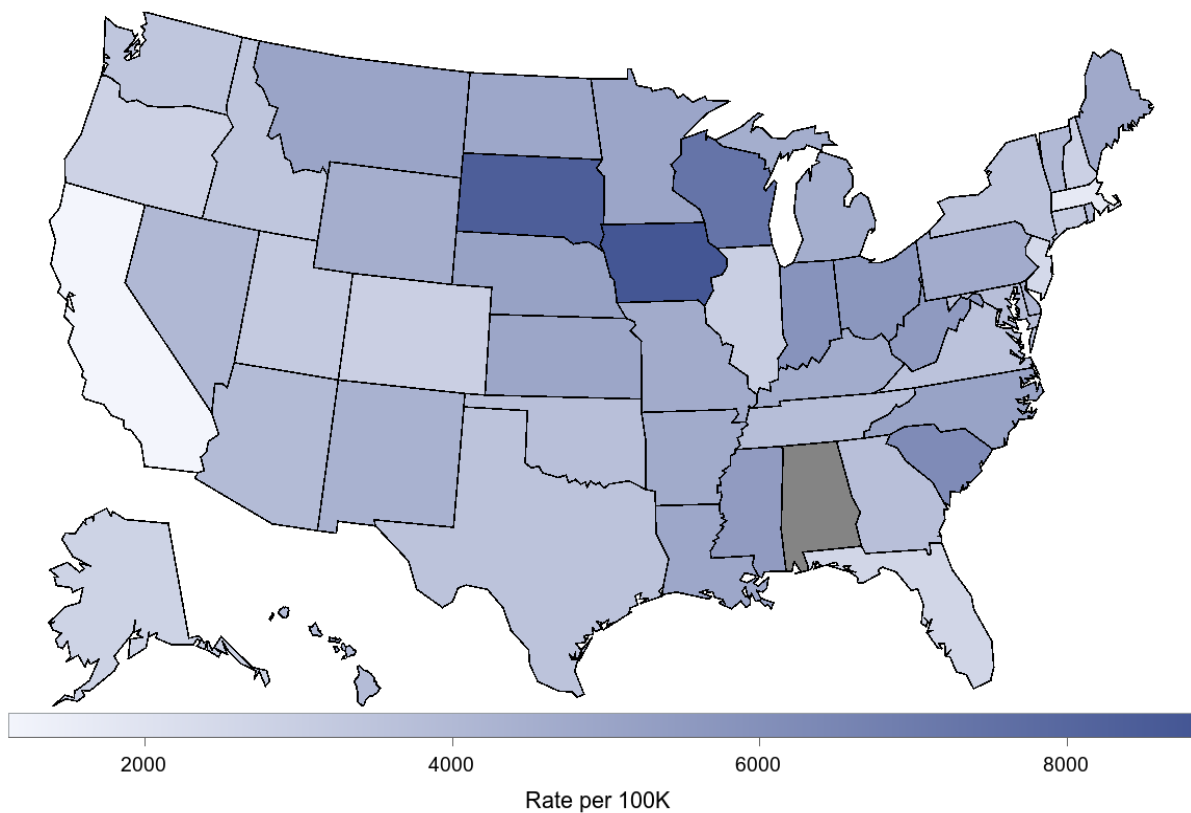
State	2017	2018	2019	2020	2021		State	2017	2018	2019	2020	2021
National	13,515	13,812	13,765	13,340	13,116		MT	14,123	14,098	14,226	15,127	10,899
AK	17,004	14,383	13,302	10,316	17,431		NC	13,895	13,952	13,991	13,806	13,244
AR	8,924	9,380	8,778	8,987	7,535		ND	12,371	14,852	11,271	12,993	9,299
AZ	10,459	11,121	11,257	10,631	10,714		NE	10,950	10,893	10,541	10,114	9,551
CA	13,252	13,579	13,829	13,272	14,002		NH	14,020	15,096	14,315	13,950	12,918
CO	15,747	15,959	16,158	16,888	15,440		NJ	12,609	12,957	12,351	12,111	11,941
CT	13,791	14,558	14,627	14,044	12,519		NM	10,143	8,988	11,044	8,074	6,606
DC	19,208	22,554	21,874	18,243	18,771		NV	11,202	11,159	12,031	11,899	11,170
DE	17,509	17,122	16,773	16,653	12,690		NY	15,968	15,774	15,841	15,167	14,464
FL	12,399	12,862	13,364	12,946	12,287		OH	13,771	14,248	14,026	14,042	12,712
GA	11,773	11,846	12,828	12,461	11,916		OK	15,305	15,368	15,648	16,161	14,851
HI	15,170	17,968	18,951	16,814	13,263		OR	13,696	14,828	14,200	12,966	13,261
IA	11,926	11,827	10,607	10,862	11,355		PA	15,328	16,010	15,430	15,185	14,355
ID	12,063	14,301	14,810	15,356	16,436		RI	9,316	9,964	9,444	9,438	9,274
IL	15,534	15,143	16,277	15,818	15,021		SC	14,281	14,747	13,093	14,725	13,958
IN	10,003	11,112	11,675	10,551	9,630		SD	9,645	9,829	10,183	8,397	8,145
KS	10,770	10,982	10,660	10,577	10,202		TN	12,566	12,070	12,066	11,989	11,367
KY	11,184	11,786	12,801	12,460	12,029		TX	13,507	13,623	14,235	14,212	12,732
LA	12,343	12,338	13,347	13,129	12,512		UT	10,113	12,196	11,890	12,799	12,064
MA	13,319	12,245	11,596	10,759	11,572		VA	14,301	15,320	14,659	14,827	14,217
MD	16,532	17,031	16,556	15,625	15,450		VT	15,268	15,037	14,763	10,568	10,420
ME	13,089	14,096	14,611	13,525	13,725		WA	15,424	15,173	12,362	11,281	13,766
MI	10,271	11,110	11,712	10,880	11,518		WI	13,606	14,001	14,364	14,311	13,779
MN	16,777	15,536	15,213	12,552	13,292		WV	14,001	14,094	14,206	12,712	13,121
MO	13,000	13,594	13,329	13,325	12,891		WY	9,538	9,925	12,953	13,135	14,743
MS	8,283	7,399	8,714	9,743	8,044							

Contraceptive Services: Injectable

Nationally, the rate of injectable contraceptive services in the HCCI data was 3,546 per 100,000 females aged 18-44 in 2021, ranging from 1,112 in California to 8,821 in Iowa. Across the US, the rate of injectable contraceptive use decreased 19% between 2017 and 2021.

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 2021 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

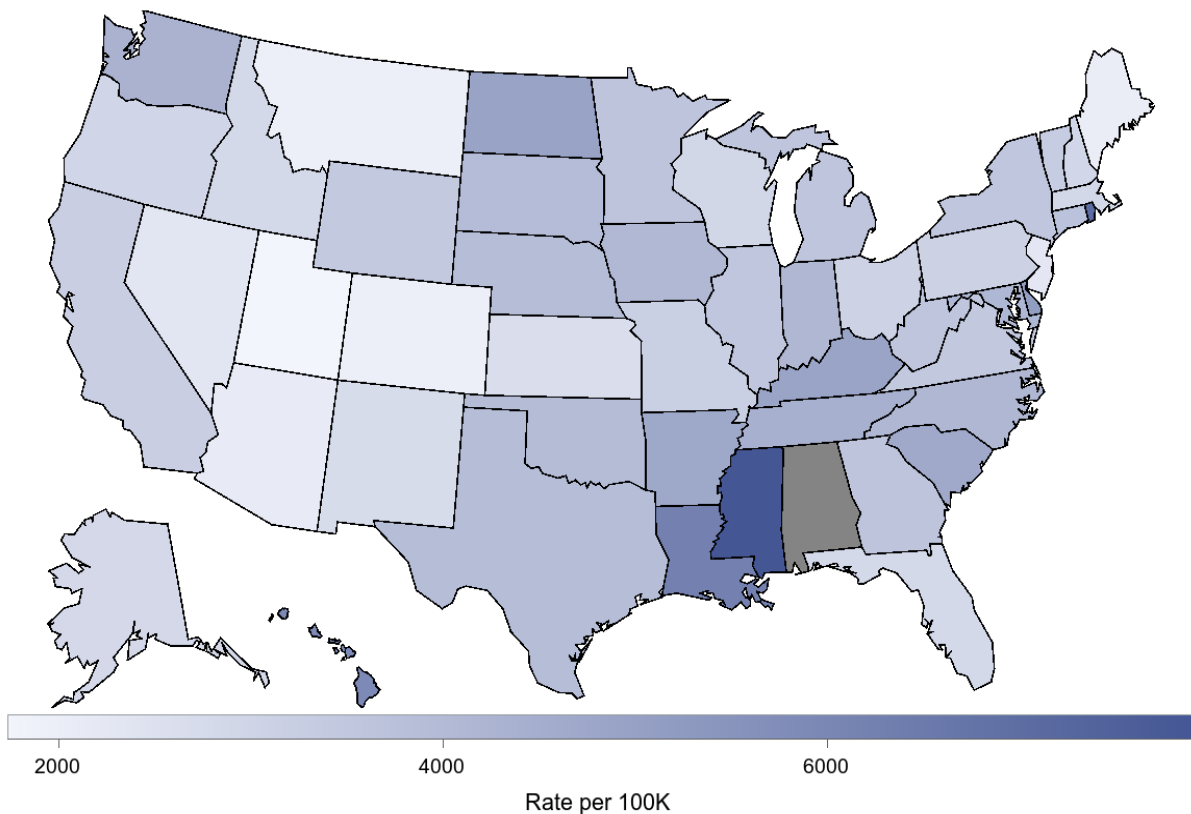
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	4,388	4,268	4,151	3,818	3,546	MT	5,483	5,308	6,233	5,168	5,005
AK	3,770	3,134	2,794	2,219	2,759	NC	6,108	5,967	5,905	5,402	5,079
AR	4,960	5,253	5,938	5,717	4,693	ND	4,312	6,533	5,416	5,109	4,892
AZ	4,697	4,210	4,165	4,188	3,902	NE	6,011	5,719	5,544	5,251	5,135
CA	1,665	1,671	1,751	1,336	1,112	NH	3,943	3,876	3,627	3,280	2,859
CO	3,389	3,365	3,181	3,165	2,909	NJ	2,645	2,615	2,553	2,446	2,434
CT	3,781	4,227	4,241	3,726	3,116	NM	6,348	5,809	5,745	5,306	4,360
DC	2,513	1,814	1,979	1,400	1,414	NV	4,646	4,693	3,874	4,021	4,026
DE	5,840	5,152	5,426	4,624	4,128	NY	3,960	3,763	3,916	3,581	3,515
FL	2,624	2,624	2,705	2,719	2,600	OH	6,034	6,045	6,146	6,167	5,651
GA	3,951	3,873	3,931	3,896	3,704	OK	5,256	5,136	4,902	4,164	3,690
HI	4,531	5,452	4,986	4,233	3,854	OR	3,895	3,903	3,285	3,108	2,772
IA	10,364	10,822	11,263	9,526	8,821	PA	5,503	5,422	5,378	5,095	4,660
ID	4,741	4,456	4,190	4,056	3,365	RI	5,568	4,920	5,179	4,925	4,044
IL	2,957	3,035	3,287	3,175	2,952	SC	5,979	6,401	6,003	6,046	6,214
IN	5,912	5,874	6,417	6,174	5,832	SD	10,243	10,451	10,632	10,055	8,417
KS	6,314	5,834	5,880	5,347	4,915	TN	4,966	4,846	4,381	4,241	3,764
KY	5,609	5,300	5,784	5,123	4,640	TX	4,070	4,036	4,168	3,871	3,524
LA	6,401	6,233	6,190	5,831	4,857	UT	3,755	3,686	3,869	3,284	3,159
MA	2,254	2,365	2,313	1,475	1,664	VA	3,636	3,126	3,232	3,476	3,542
MD	4,540	4,076	3,811	3,528	3,747	VT	4,901	4,639	4,671	3,902	4,000
ME	6,354	5,961	5,601	5,527	4,765	WA	4,010	3,838	3,801	3,364	3,364
MI	5,696	5,172	5,273	4,593	4,548	WI	8,684	8,731	8,280	7,462	7,332
MN	6,138	6,248	5,945	5,133	4,965	WV	5,655	5,234	5,578	6,203	5,512
MO	5,959	6,024	5,455	5,108	4,679	WY	6,972	5,100	4,960	5,337	4,524
MS	6,696	7,355	6,927	6,654	5,428						

Contraceptive Services: Patch

Nationally, the rate of use of contraceptive patches (hormone-containing patches) in the HCCI data was 3,493 per 100,000 females aged 18-44 in 2021, ranging from 1,733 in Utah to 7,914 in Mississippi. Across the US, the rate of contraceptive patch service use increased 42% between 2017 and 2021.

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

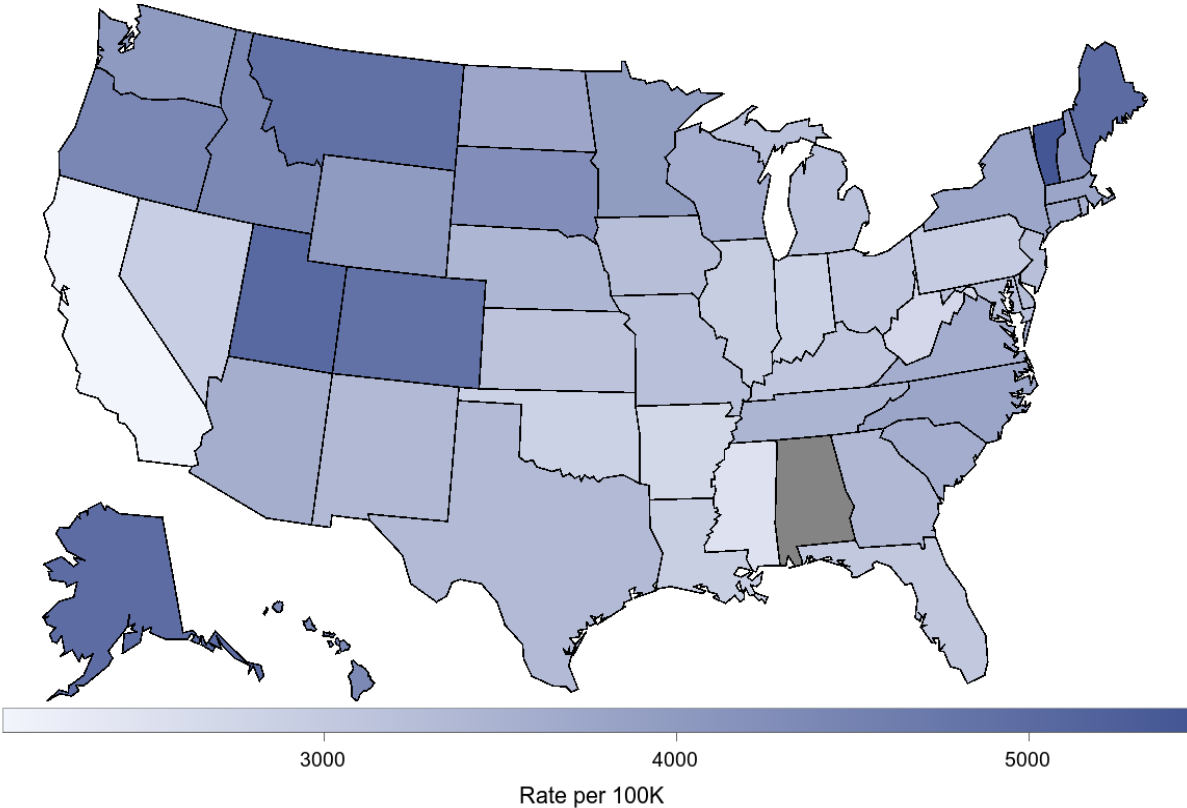
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	2,463	2,844	3,115	3,413	3,493	MT	2,463	2,844	3,115	3,413	3,493
AK	1,982	2,681	2,842	2,707	2,825	NC	1,982	2,681	2,842	2,707	2,825
AR	3,289	3,357	5,006	4,552	4,712	ND	3,289	3,357	5,006	4,552	4,712
AZ	1,377	1,834	1,837	2,222	2,112	NE	1,377	1,834	1,837	2,222	2,112
CA	1,793	2,294	2,875	2,933	3,214	NH	1,793	2,294	2,875	2,933	3,214
CO	1,650	1,745	1,847	2,071	1,970	NJ	1,650	1,745	1,847	2,071	1,970
CT	2,065	2,825	3,431	3,418	3,691	NM	2,065	2,825	3,431	3,418	3,691
DC	1,937	2,270	2,384	1,888	2,936	NV	1,937	2,270	2,384	1,888	2,936
DE	3,297	3,734	4,452	4,914	5,128	NY	3,297	3,734	4,452	4,914	5,128
FL	1,734	2,074	2,485	2,622	2,799	OH	1,734	2,074	2,485	2,622	2,799
GA	2,345	2,926	3,208	3,659	3,625	OK	2,345	2,926	3,208	3,659	3,625
HI	3,992	6,059	5,607	3,882	5,892	OR	3,992	6,059	5,607	3,882	5,892
IA	4,128	4,226	3,312	4,034	4,082	PA	4,128	4,226	3,312	4,034	4,082
ID	1,608	1,752	2,479	2,705	2,812	RI	1,608	1,752	2,479	2,705	2,812
IL	2,310	2,668	3,243	3,440	3,539	SC	2,310	2,668	3,243	3,440	3,539
IN	3,309	3,682	4,321	4,813	4,126	SD	3,309	3,682	4,321	4,813	4,126
KS	2,121	2,141	2,485	2,784	2,630	TN	2,121	2,141	2,485	2,784	2,630
KY	3,071	3,899	3,763	4,556	4,847	TX	3,071	3,899	3,763	4,556	4,847
LA	4,567	5,065	6,098	6,862	6,203	UT	4,567	5,065	6,098	6,862	6,203
MA	2,234	2,356	2,483	2,190	2,833	VA	2,234	2,356	2,483	2,190	2,833
MD	3,132	3,827	3,805	4,032	4,139	VT	3,132	3,827	3,805	4,032	4,139
ME	2,442	1,961	1,732	2,335	2,045	WA	2,442	1,961	1,732	2,335	2,045
MI	2,594	2,793	2,980	3,826	3,586	WI	2,594	2,793	2,980	3,826	3,586
MN	2,907	3,488	3,380	3,802	3,612	WV	2,907	3,488	3,380	3,802	3,612
MO	2,132	2,503	2,539	3,061	3,154	WY	2,132	2,503	2,539	3,061	3,154
MS	4,901	5,899	5,903	8,097	7,914						

Contraceptive Services: Intrauterine Device [IUD]

Nationally, the rate of IUD services in the HCCI data was 3,267 per 100,000 females aged 18-44 in 2021, ranging from 2,088 in California to 5,451 in Vermont. Across the US, the rate of IUD service use decreased 6% between 2017 and 2021.

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 2021 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

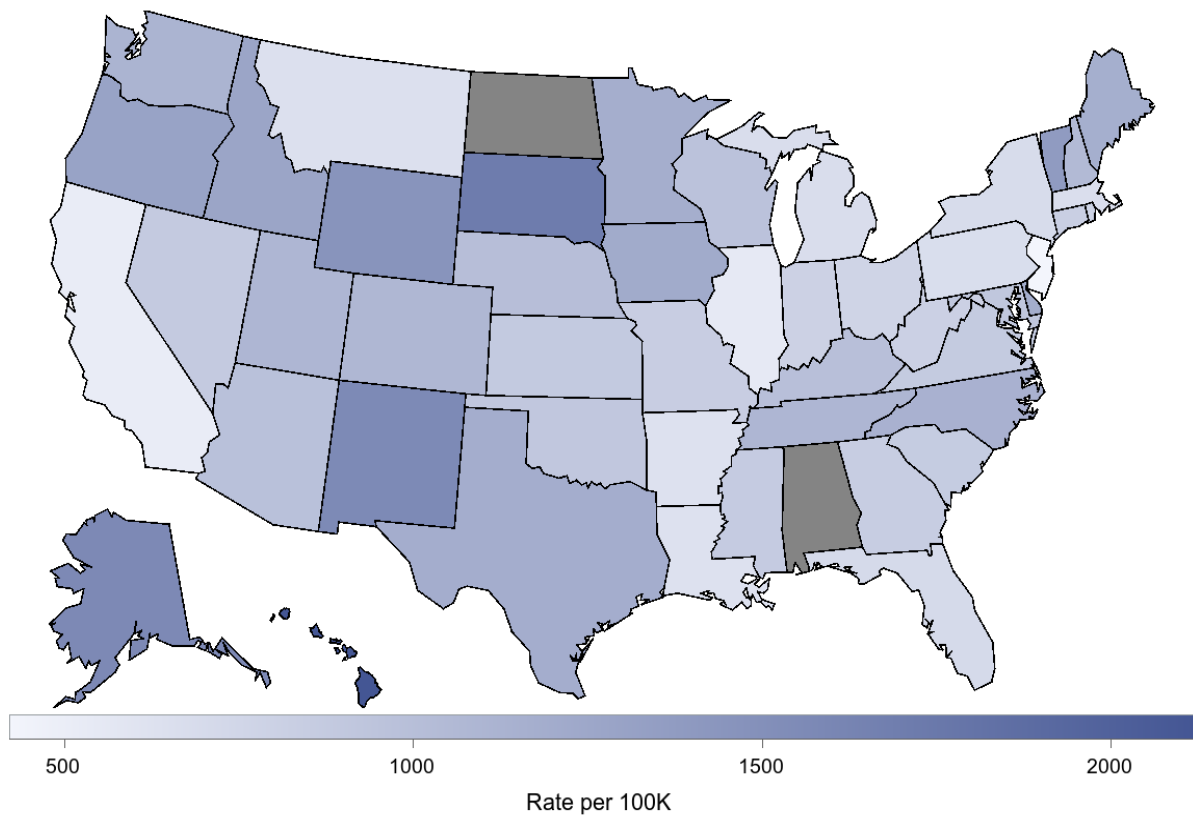
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	3,480	3,386	3,507	3,159	3,267	MT	5,271	4,860	5,586	4,910	4,882
AK	4,904	4,568	4,289	3,134	4,965	NC	4,240	4,065	4,175	3,809	3,764
AR	2,501	2,926	3,093	2,945	2,693	ND	2,747	2,795	3,721	3,217	3,741
AZ	3,682	3,548	3,653	3,540	3,576	NE	3,645	3,367	3,607	3,371	3,415
CA	2,657	2,628	2,696	2,100	2,088	NH	4,439	4,344	4,192	3,645	4,199
CO	5,232	5,068	4,771	4,789	4,863	NJ	3,551	3,117	3,281	2,762	3,205
CT	4,081	3,950	4,087	3,462	3,730	NM	4,647	4,271	5,042	3,891	3,341
DC	5,465	4,470	4,329	3,683	4,533	NV	3,387	3,192	3,469	3,347	2,897
DE	3,447	3,287	3,415	2,680	3,272	NY	3,939	3,756	3,927	3,525	3,746
FL	3,029	3,165	3,256	3,108	3,029	OH	3,091	3,175	3,276	2,947	3,053
GA	3,501	3,384	3,591	3,323	3,372	OK	3,128	3,061	3,352	3,309	2,827
HI	3,273	3,020	3,950	4,121	4,363	OR	4,609	5,154	4,928	4,084	4,400
IA	3,641	3,162	3,347	2,795	3,241	PA	2,925	2,881	2,934	2,662	2,944
ID	4,455	4,507	4,724	4,460	4,391	RI	3,839	3,327	3,787	3,147	3,498
IL	3,136	2,835	3,057	2,785	2,900	SC	3,311	3,431	3,540	3,235	3,601
IN	2,710	2,876	2,917	2,606	2,826	SD	3,512	3,618	3,635	3,642	4,253
KS	3,394	3,357	3,448	3,259	3,141	TN	3,777	3,742	3,810	3,476	3,439
KY	3,044	3,283	3,435	3,384	3,067	TX	3,597	3,270	3,659	3,433	3,324
LA	2,495	2,738	2,915	2,739	2,891	UT	5,216	5,249	5,315	5,178	5,062
MA	3,885	3,616	3,404	2,742	3,764	VA	4,327	4,034	3,907	3,459	3,595
MD	3,906	3,615	3,525	2,969	3,192	VT	6,668	5,765	6,138	5,065	5,451
ME	6,064	5,470	5,689	4,687	4,982	WA	4,665	4,286	4,270	3,626	4,001
MI	3,074	3,150	3,168	2,999	3,178	WI	3,522	3,574	3,485	3,343	3,602
MN	4,032	4,041	4,234	3,639	3,967	WV	3,201	3,271	3,330	2,852	2,702
MO	3,399	3,434	3,636	3,329	3,202	WY	4,573	4,444	4,283	4,462	3,986
MS	2,102	2,053	2,331	2,334	2,473						

Contraceptive Services: Implantable

Nationally, the rate of implantable contraceptive services in the HCCI data was 833 per 100,000 females aged 18-44 in 2021, ranging from 420 in New Jersey to 2,119 in Hawaii. Across the US, the rate of implantable contraceptive service use decreased 6% between 2017 and 2021.

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 2021 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

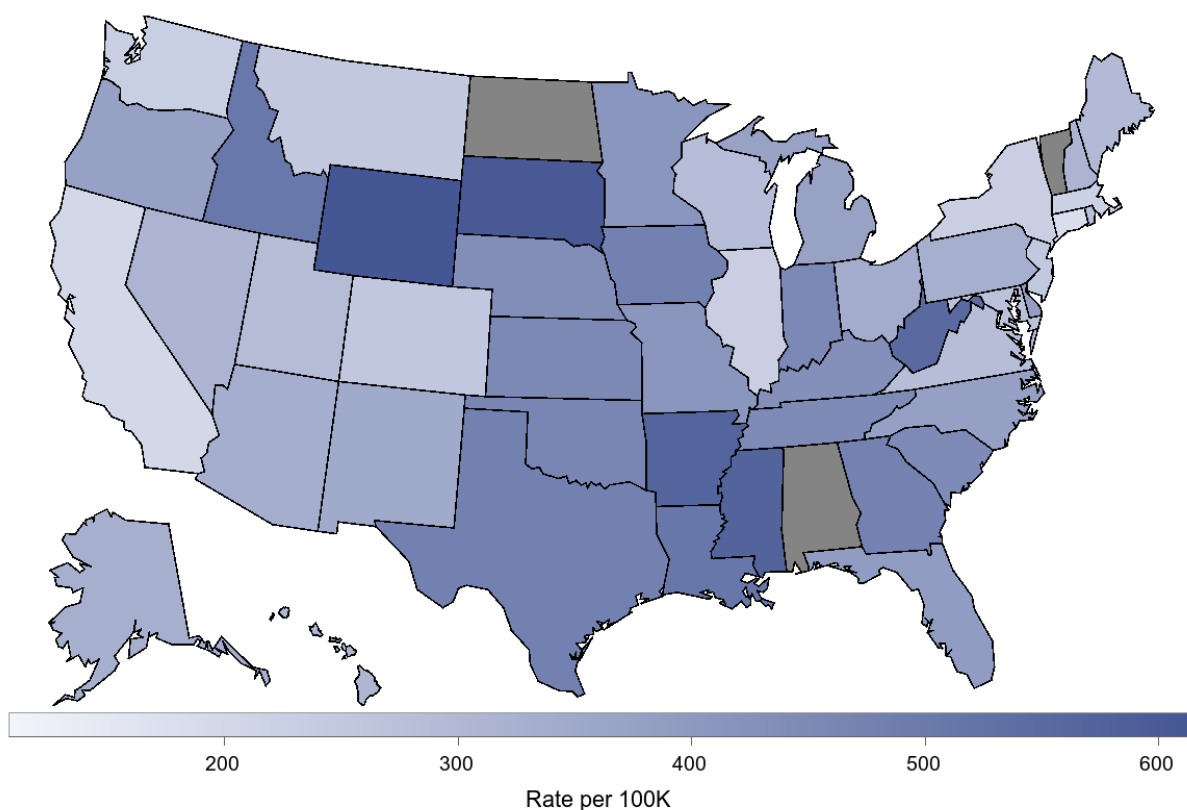
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	886	894	988	864	833	MT	1,080	1,569	1,370	1,153	634
AK	1,997	1,489	1,555	1,099	1,564	NC	1,259	1,261	1,480	1,244	1,137
AR	821	770	930	877	627	ND	.	1,162	995	.	.
AZ	949	964	1,012	1,014	974	NE	1,143	1,059	1,145	1,090	999
CA	489	548	687	548	515	NH	1,119	1,102	1,338	913	1,044
CO	1,176	1,249	1,300	1,202	1,074	NJ	398	393	426	407	420
CT	889	827	843	677	822	NM	1,631	1,966	2,231	1,865	1,563
DC	766	843	947	820	990	NV	968	939	1,048	888	874
DE	1,528	1,363	1,343	1,098	1,189	NY	713	703	823	669	685
FL	798	746	869	772	705	OH	848	929	1,002	868	765
GA	956	959	1,055	927	843	OK	1,000	1,010	1,324	1,071	903
HI	1,348	1,342	2,358	2,159	2,119	OR	1,427	1,475	1,431	1,259	1,296
IA	1,404	1,373	1,611	1,490	1,207	PA	673	669	773	676	665
ID	1,330	1,381	1,624	1,378	1,274	RI	1,034	807	970	836	782
IL	522	523	611	570	543	SC	1,093	1,105	963	905	857
IN	949	922	1,082	913	799	SD	1,200	1,330	1,596	1,515	1,710
KS	1,024	1,009	1,078	989	877	TN	1,180	1,180	1,224	1,140	1,085
KY	989	1,023	1,137	1,035	991	TX	1,157	1,142	1,350	1,247	1,185
LA	807	767	840	687	632	UT	1,180	1,233	1,339	1,055	1,086
MA	725	808	751	533	659	VA	954	1,063	1,027	936	867
MD	1,005	1,034	939	853	911	VT	1,587	1,217	1,548	1,318	1,381
ME	1,217	1,371	1,449	1,216	1,168	WA	1,190	1,115	1,242	1,096	1,111
MI	730	706	785	709	670	WI	901	988	1,141	1,087	955
MN	1,129	1,290	1,358	1,063	1,174	WV	952	1,022	1,055	802	808
MO	1,078	1,045	1,232	1,049	837	WY	1,124	911	1,578	1,283	1,455
MS	1,182	936	1,109	996	859						

Sterilization: Tubal Ligation

Nationally, the rate of tubal ligation services in the HCCI data was 339 per 100,000 females aged 18-44 in 2021, ranging from 108 in District of Columbia to 615 in Wyoming. Across the US, the rate of tubal ligation service use decreased 36% between 2017 and 2021.

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 2021 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

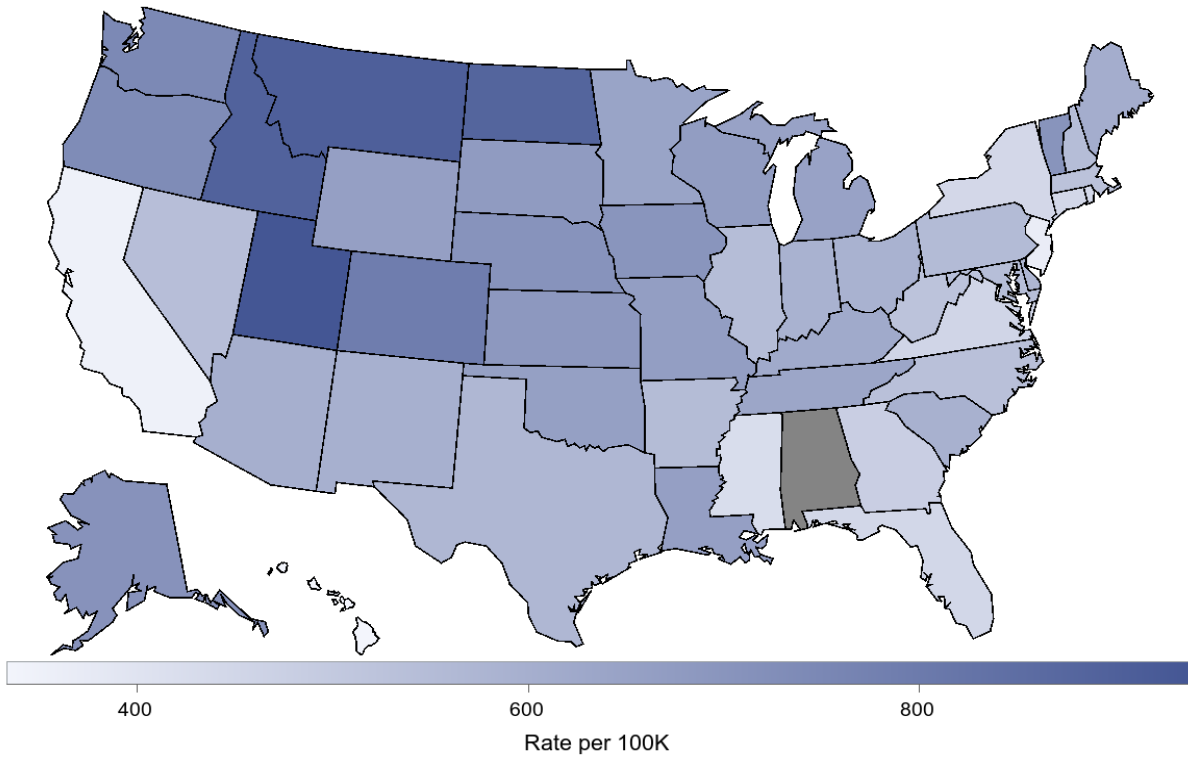
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	530	483	417	337	339	MT	552	453	413	447	247
AK	493	455	373	232	329	NC	577	527	469	378	379
AR	841	818	760	691	566	ND	.	641	.	.	.
AZ	546	470	469	364	332	NE	575	605	516	463	435
CA	335	306	303	210	198	NH	394	367	293	213	313
CO	427	364	290	245	253	NJ	396	359	302	247	248
CT	273	247	195	191	182	NM	576	706	558	394	347
DC	.	101	.	.	108	NV	614	608	446	336	312
DE	519	559	382	342	382	NY	312	291	259	218	229
FL	477	503	456	431	390	OH	560	491	462	341	338
GA	695	642	568	471	473	OK	761	733	687	447	460
HI	412	303	.	.	308	OR	500	423	401	336	373
IA	644	543	548	409	476	PA	533	456	390	306	329
ID	726	613	666	499	507	RI	412	335	281	264	277
IL	359	306	261	218	229	SC	642	577	492	427	444
IN	666	598	560	440	453	SD	616	.	499	.	603
KS	722	645	586	454	450	TN	652	625	568	446	443
KY	725	630	542	462	427	TX	691	673	571	470	477
LA	747	665	627	455	508	UT	578	446	364	368	288
MA	224	210	155	148	219	VA	501	420	364	304	286
MD	361	307	265	239	270	VT	.	.	.	.	.
ME	445	411	312	270	295	WA	413	352	309	252	227
MI	524	498	460	377	372	WI	408	347	322	261	283
MN	501	435	366	304	408	WV	864	855	694	602	550
MO	590	546	480	363	411	WY	820	895	544	673	615
MS	1,056	1,037	832	689	570						

Sterilization: Vasectomy

Nationally, the rate of vasectomy services in the HCCI data was 540 per 100,000 males aged 18-64 in 2021, ranging from 333 in Hawaii to 940 in Utah. Across the US, the rate of vasectomy services increased 15% between 2017 and 2021.

Vasectomy services were identified by CPT/HCPCS codes in medical claims.

Rate of Vasectomy Services per 100,000 Males Aged 18-64 in 2021 by State



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

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

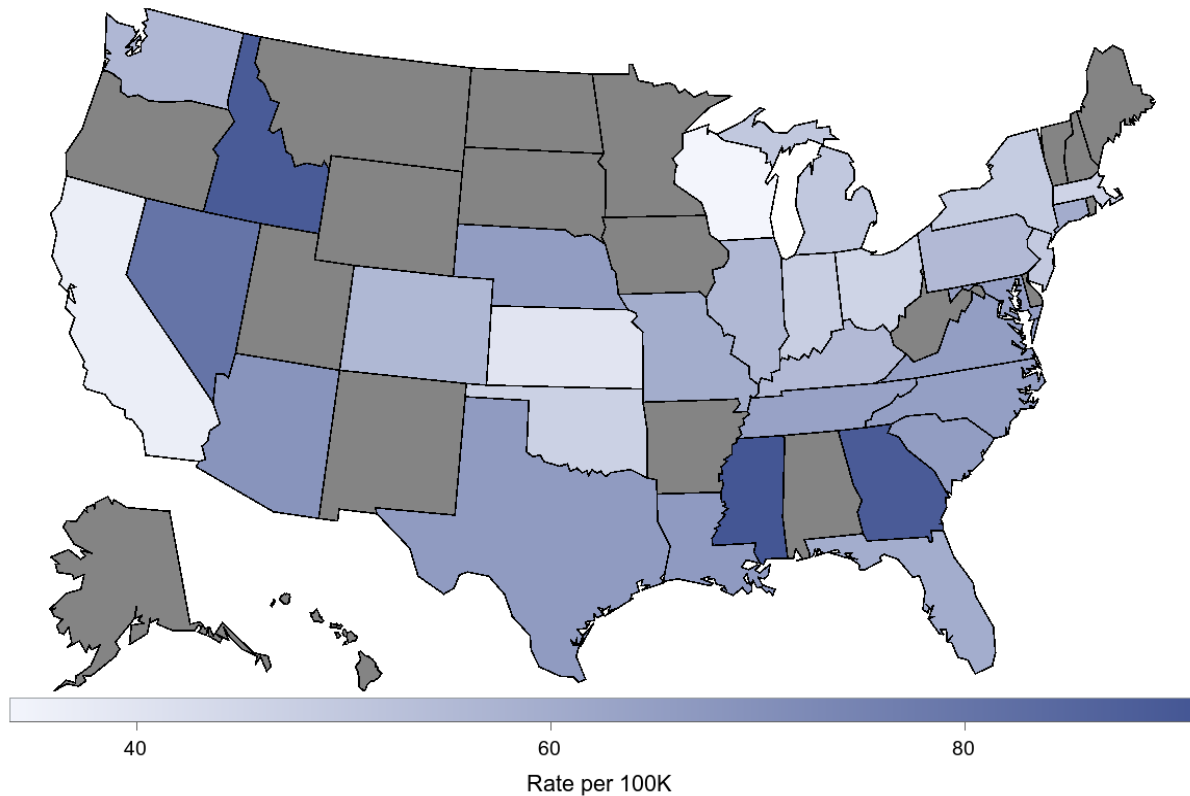
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	470	484	507	425	540	MT	702	751	718	609	903
AK	563	614	565	427	707	NC	495	483	513	433	534
AR	465	444	505	395	550	ND	766	627	684	558	882
AZ	599	621	634	519	597	NE	592	593	591	546	705
CA	354	361	413	297	349	NH	533	466	569	427	546
CO	771	655	715	644	788	NJ	330	326	346	257	364
CT	330	369	373	306	447	NM	502	502	541	437	595
DC	192	247	270	218	335	NV	429	482	492	438	540
DE	393	409	445	380	573	NY	367	358	396	322	444
FL	308	406	404	380	447	OH	513	518	533	439	589
GA	408	425	441	392	479	OK	604	608	655	598	656
HI	183	163	207	.	333	OR	636	627	692	610	733
IA	552	566	592	526	698	PA	508	497	533	405	553
ID	758	747	816	739	892	RI	397	459	534	400	443
IL	477	478	513	415	546	SC	440	446	491	456	592
IN	523	535	552	493	589	SD	493	685	722	573	676
KS	596	589	609	551	685	TN	531	510	567	511	635
KY	514	536	576	511	619	TX	450	458	476	431	567
LA	533	558	593	573	659	UT	746	829	908	740	940
MA	458	454	448	345	526	VA	404	442	448	367	452
MD	414	484	488	396	543	VT	788	581	701	725	703
ME	539	503	521	387	605	WA	666	662	690	552	743
MI	538	554	576	478	647	WI	547	562	630	515	669
MN	693	713	718	499	642	WV	427	446	478	402	522
MO	554	604	619	545	665	WY	609	692	647	623	659
MS	384	378	432	348	424						

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 2021. This rate ranged from 34 in Wisconsin to 91 in Mississippi. Across the US, the rate of ectopic pregnancy treatment services decreased 1% between 2017 and 2021.

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 2021 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

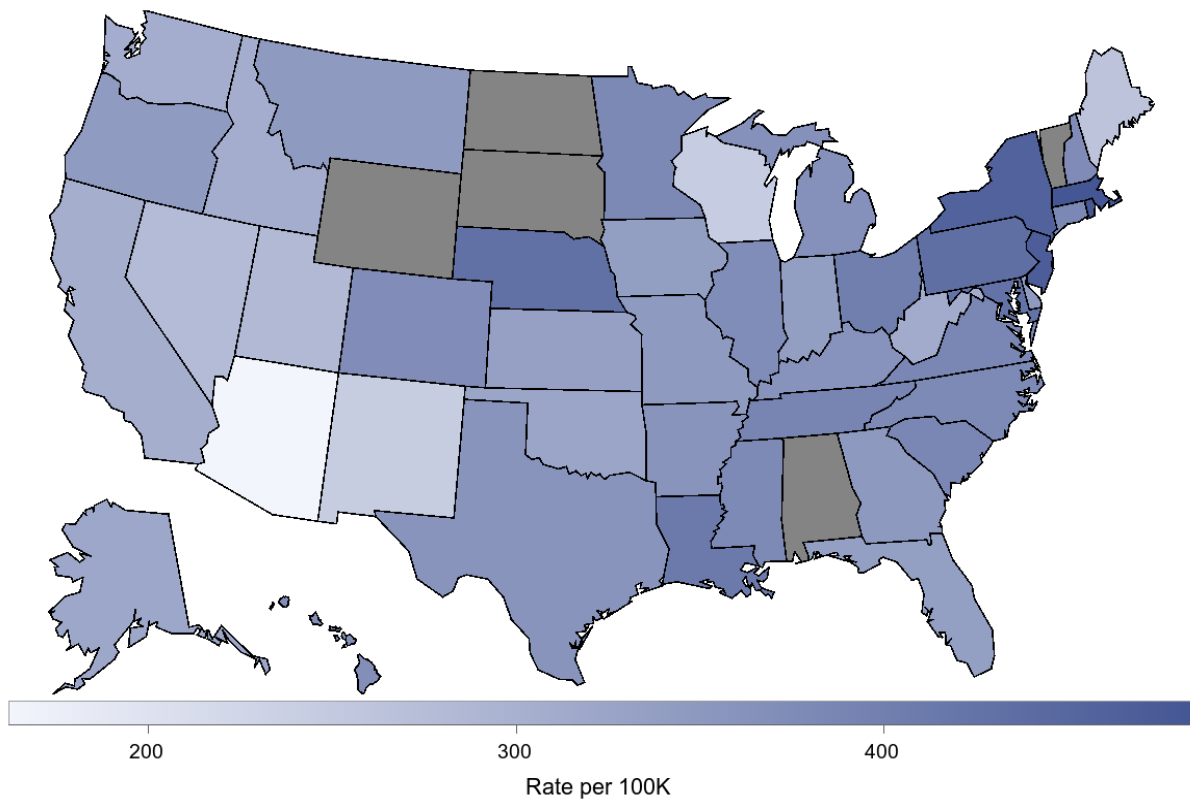
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	57	56	55	54	56	MT	.	.	.	.	.
AK	.	.	.	.	.	NC	62	53	68	66	65
AR	.	.	80	.	.	ND	.	.	.	.	.
AZ	49	62	51	54	69	NE	78	67	73	48	65
CA	52	44	42	42	36	NH	.	.	.	.	.
CO	54	64	57	52	56	NJ	47	50	56	47	49
CT	36	60	48	48	60	NM	.	.	.	.	.
DC	.	.	.	.	.	NV	81	.	76	70	80
DE	.	54	77	73	.	NY	60	49	52	46	49
FL	49	53	51	65	60	OH	64	49	49	55	46
GA	62	69	65	71	89	OK	56	79	73	75	47
HI	.	.	.	.	.	OR	.	.	72	62	.
IA	72	.	.	.	.	PA	56	52	48	51	55
ID	67	58	.	65	89	RI	.	.	.	.	.
IL	49	57	51	58	56	SC	64	77	68	52	65
IN	65	57	67	69	48	SD	.	.	.	.	.
KS	66	44	56	37	40	TN	47	67	47	55	63
KY	55	64	56	58	55	TX	67	61	57	64	66
LA	67	66	55	60	66	UT	70	.	58	.	.
MA	42	41	30	44	46	VA	55	59	48	52	65
MD	51	71	72	58	65	VT	.	.	.	.	.
ME	.	.	.	.	.	WA	57	47	50	45	56
MI	46	47	57	40	50	WI	51	52	42	51	34
MN	74	74	75	42	.	WV	66	.	56	.	.
MO	59	61	64	63	60	WY	.	.	.	.	.
MS	99	91	82	75	91						

Pregnancy Termination Services: Spontaneous Abortions

Nationally, the HCCI data show 369 spontaneous abortion services per 100,000 females aged 18-44 in 2021, ranging from 162 in Arizona to 484 in Massachusetts. Across the US, the rate of spontaneous abortion services decreased 7% between 2017 and 2021.

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 2021 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

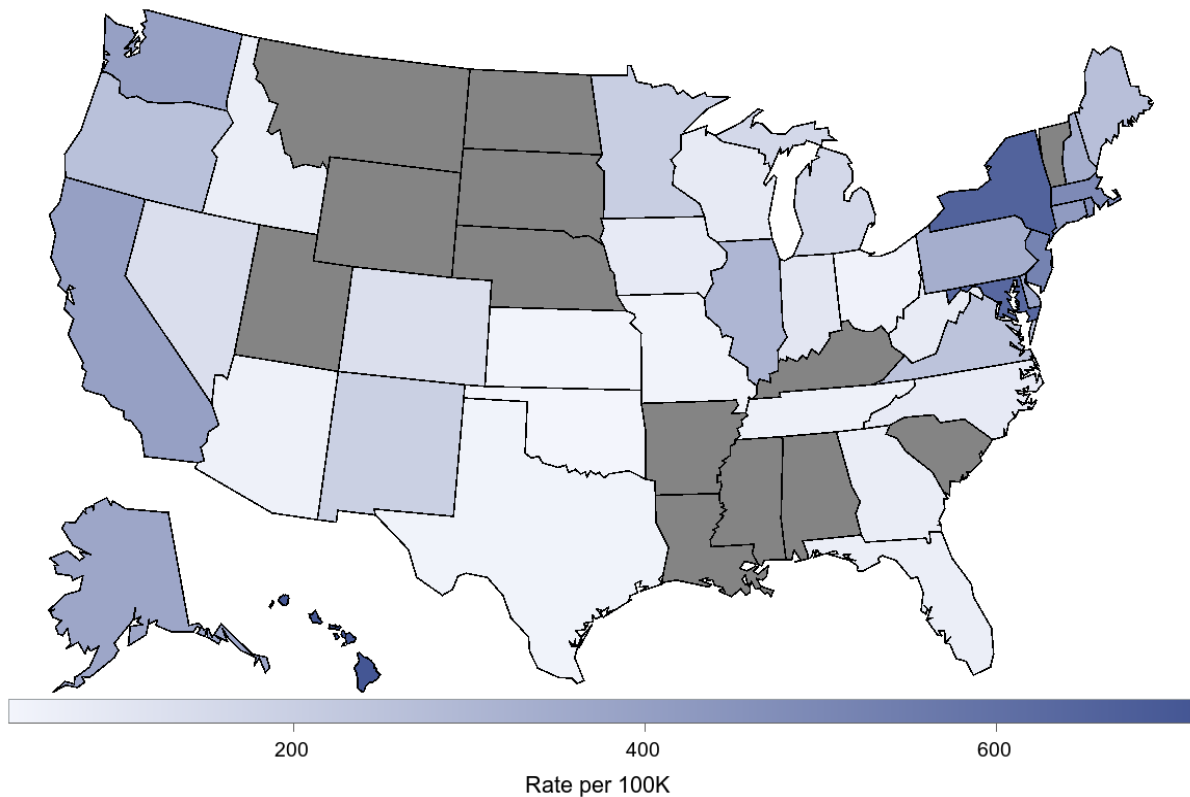
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	395	388	379	351	369	MT	328	350	324	335	346
AK	321	297	256	244	320	NC	391	350	356	326	379
AR	334	291	361	333	358	ND	.	.	.	.	.
AZ	189	197	176	172	162	NE	437	409	466	416	430
CA	384	367	378	312	305	NH	398	418	386	430	374
CO	359	331	294	310	371	NJ	538	492	498	444	469
CT	394	364	400	312	382	NM	247	264	305	293	243
DC	533	403	468	390	402	NV	297	249	322	305	279
DE	394	447	413	350	345	NY	495	482	482	423	458
FL	282	353	317	329	336	OH	389	381	373	332	401
GA	378	367	337	335	348	OK	325	344	320	313	324
HI	412	.	275	.	367	OR	312	279	335	358	343
IA	378	381	350	346	338	PA	439	456	448	417	433
ID	307	330	330	308	307	RI	259	537	458	409	479
IL	430	410	400	380	372	SC	390	378	381	355	384
IN	364	342	335	331	337	SD	598	.	430	.	.
KS	418	399	379	365	334	TN	430	381	381	391	387
KY	389	346	349	345	360	TX	383	367	342	341	358
LA	402	400	445	379	410	UT	443	381	309	343	283
MA	491	442	400	377	484	VA	438	411	417	347	384
MD	482	448	409	386	425	VT	476	386	457	429	.
ME	375	336	372	255	263	WA	329	342	311	274	306
MI	379	365	369	331	363	WI	287	305	333	293	244
MN	433	407	366	363	380	WV	337	380	354	315	311
MO	372	355	346	326	345	WY	.	.	.	.	.
MS	413	410	432	351	378						

Pregnancy Termination Services: Induced Abortions

Nationally, the rate of induced abortion services in the HCCI data was 236 per 100,000 females aged 18-44 in 2021, ranging from 37 in Oklahoma to 712 in Hawaii. Across the US, the rate of induced abortion services increased 2% between 2017 and 2021.

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 2021 by State



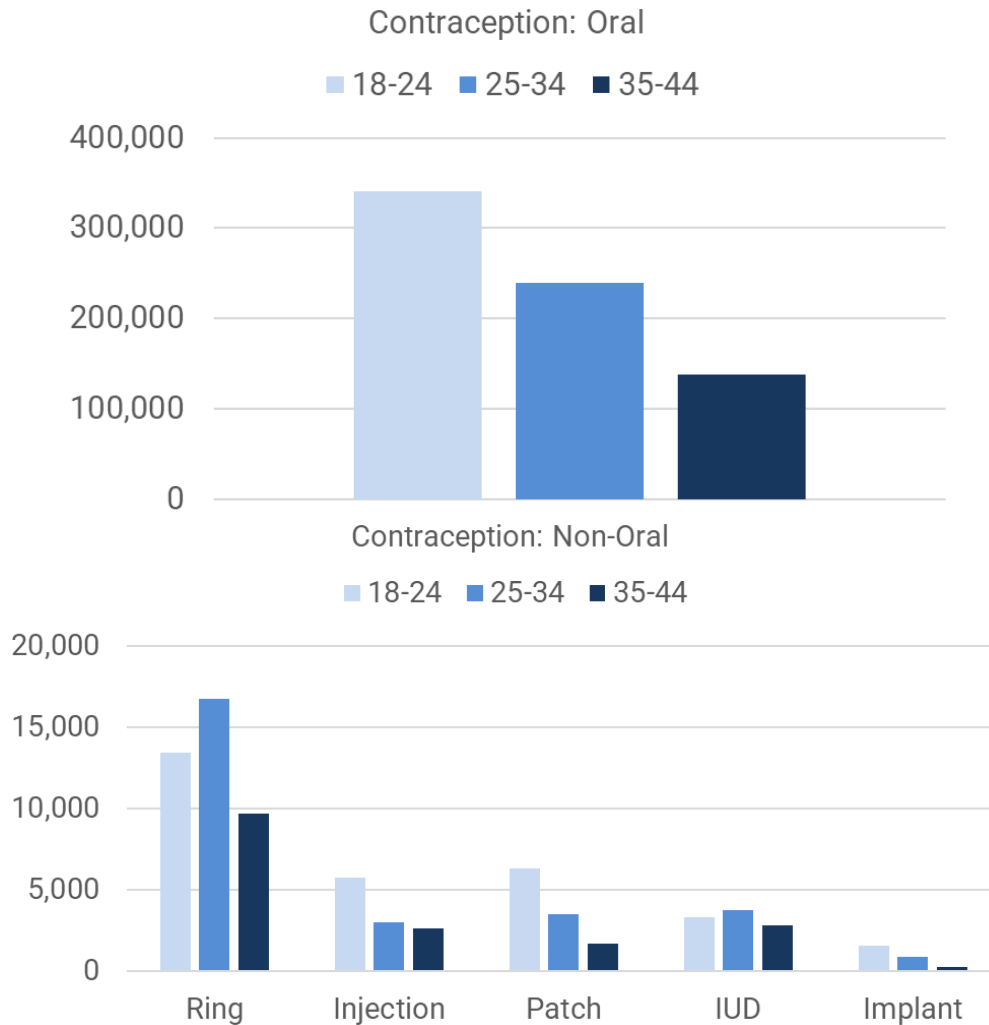
States shaded in grey have insufficient data or other data limitations.

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

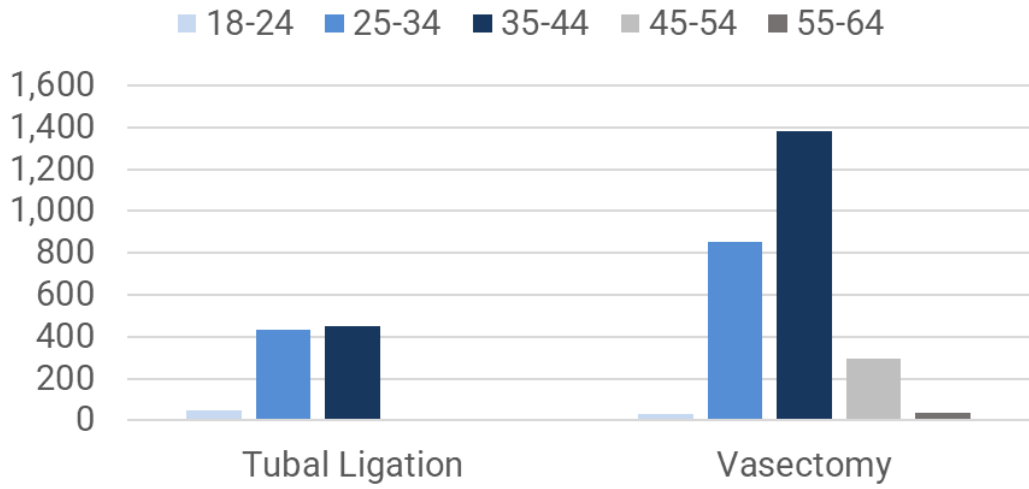
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
National	231	240	256	240	236	MT	171	.	.	.	.
AK	261	332	280	201	369	NC	75	70	64	82	81
AR	.	.	.	.	.	ND	.	.	.	.	.
AZ	72	58	67	40	53	NE	38	36	36	41	.
CA	328	378	457	384	396	NH	370	418	423	339	336
CO	169	179	188	145	128	NJ	612	602	616	553	521
CT	526	436	458	432	419	NM	146	254	234	255	194
DC	496	540	446	456	427	NV	97	87	121	106	131
DE	519	455	465	372	367	NY	799	790	801	739	655
FL	87	120	106	84	67	OH	81	64	66	63	47
GA	90	94	86	70	70	OK	.	.	.	.	37
HI	823	793	682	649	712	OR	210	203	270	316	258
IA	132	126	117	140	81	PA	382	351	358	306	338
ID	57	61	50	75	66	RI	498	454	583	396	470
IL	269	262	259	296	301	SC	41	39	31	27	.
IN	111	104	101	92	98	SD	.	.	.	.	.
KS	38	43	38	39	38	TN	44	42	37	50	53
KY	.	29	.	.	.	TX	69	59	56	57	45
LA	.	18	19	19	.	UT	.	.	.	.	.
MA	581	562	557	439	488	VA	223	280	249	228	248
MD	470	617	580	565	633	VT	489	504	471	611	.
ME	259	230	252	200	263	WA	495	411	423	437	395
MI	193	183	169	156	160	WI	102	76	108	96	83
MN	304	274	238	232	201	WV	104	85	63	74	77
MO	40	36	40	44	45	WY	.	.	.	.	.
MS	.	.	.	.	.	

Sexual Health and Reproductive Services by Age among ESI Enrollees

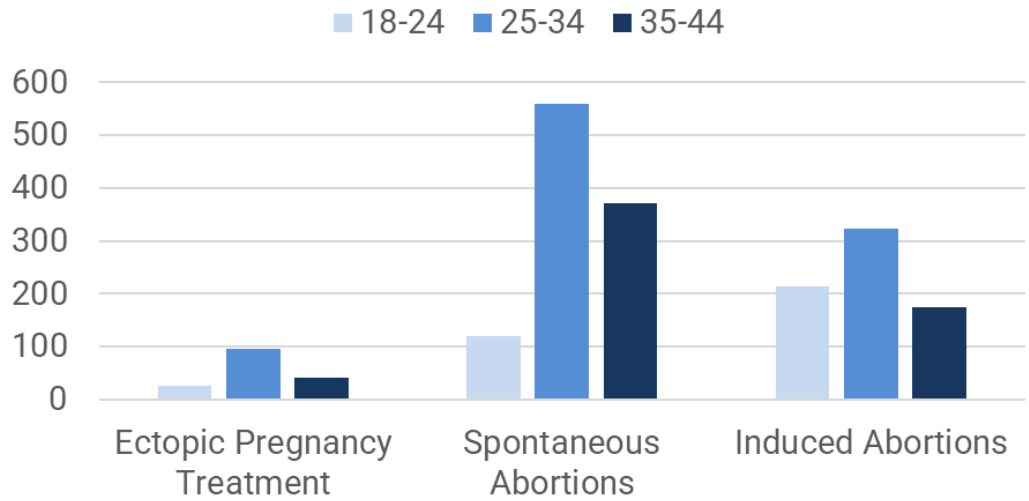
Below, we show national rates (per 100,000 eligible individuals) of each service by age group in 2021. Please see the Downloadable Data accompanying this report for age-specific rates over time and in additional age groups.



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 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. Services for oral contraceptives, contraceptive patch, and contraceptive ring were standardized to a 30 days' supply to adjust for changing prescription fill patterns over time. 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.