



# Issue Brief

September 2023

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

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**R**eproductive 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.

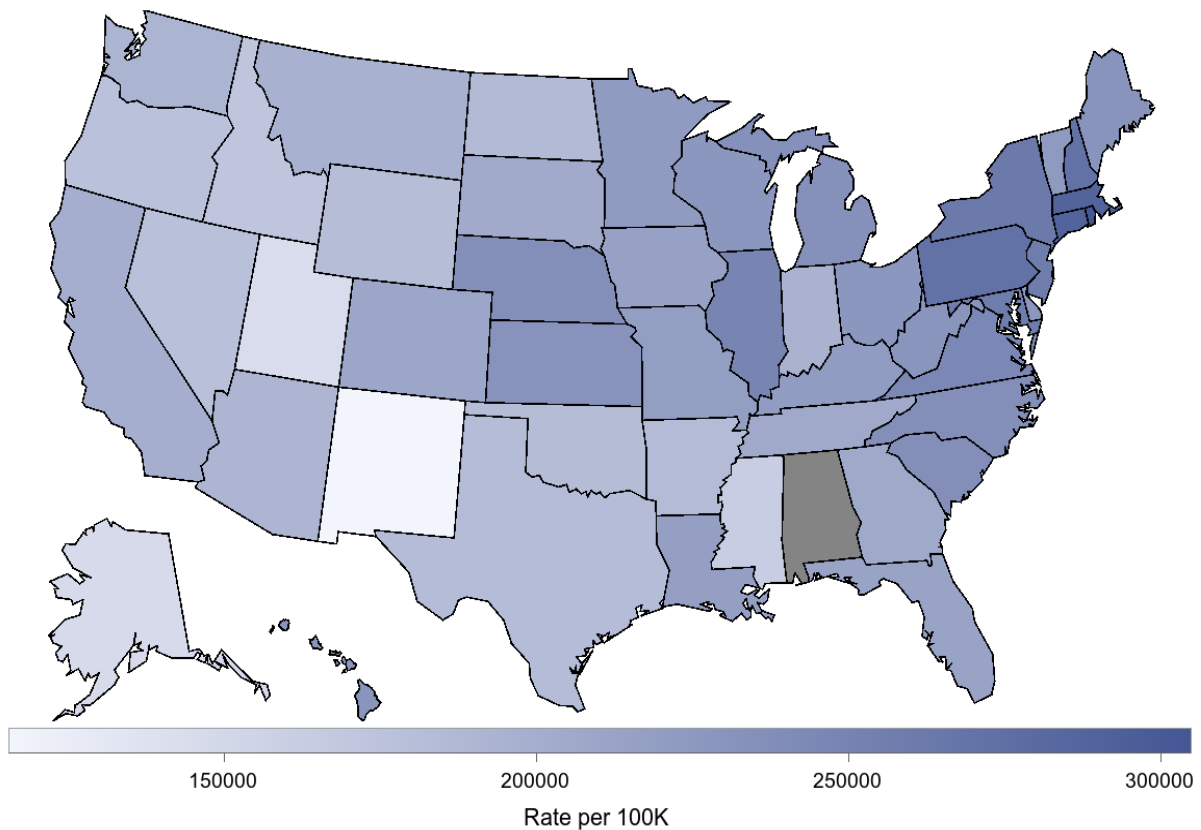
Reported service rates may understate actual use of these services since we include only those services covered by employer-sponsored health insurance (ESI). [Studies show](#) that many women who receive abortion services pay out of pocket and do not use their insurance. In those cases, the service would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

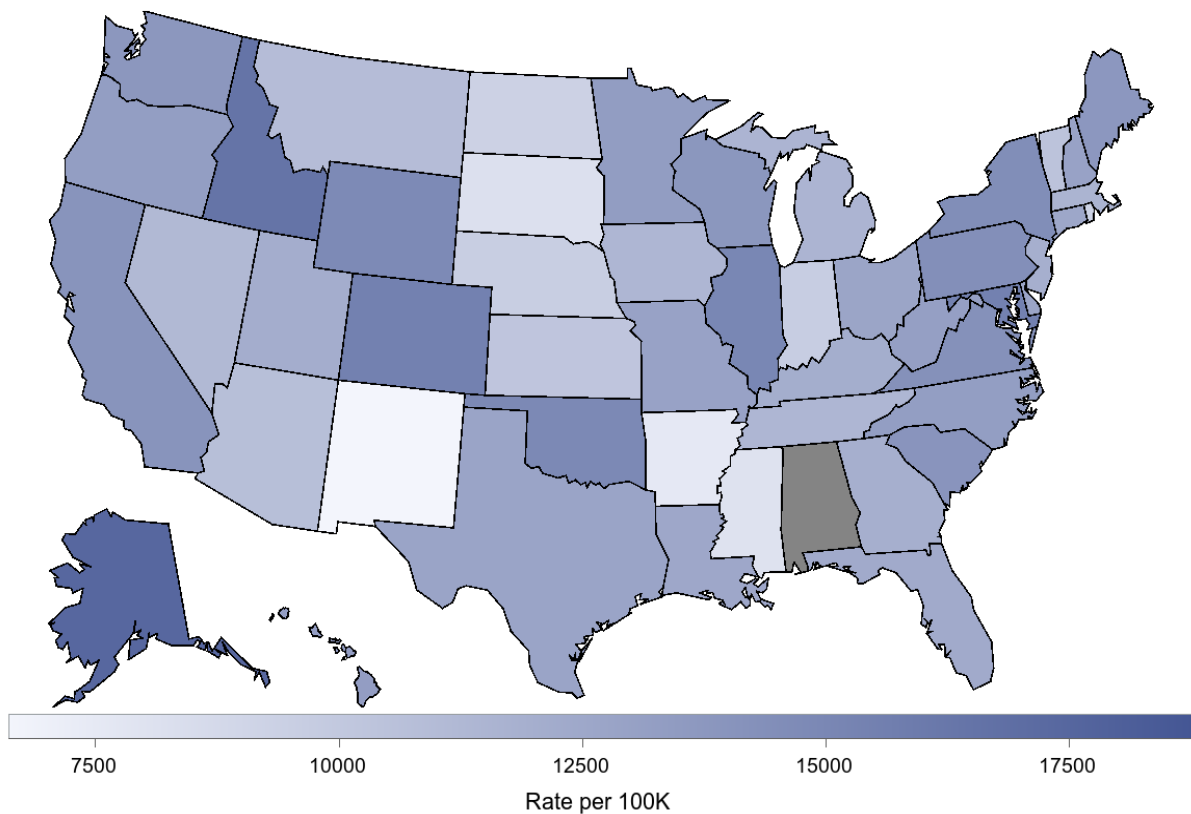
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
<b>National</b>	240,234	240,135	239,594	233,691	223,588	<b>MT</b>	243,063	240,839	236,752	222,036	195,374
<b>AK</b>	173,639	157,940	137,007	107,180	146,479	<b>NC</b>	252,217	256,487	256,281	253,743	236,374
<b>AR</b>	214,682	211,244	213,846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

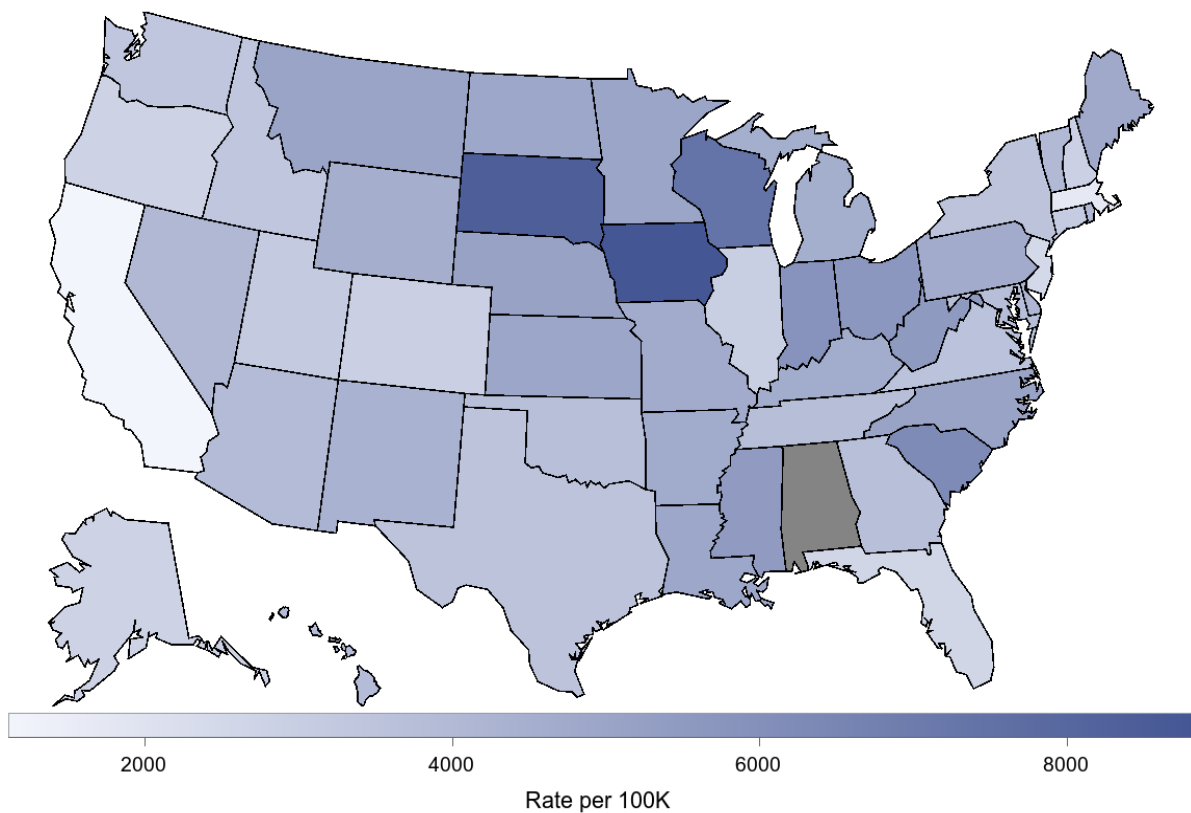
State	2017	2018	2019	2020	2021		State	2017	2018	2019	2020	2021
<b>National</b>	13,515	13,812	13,765	13,340	13,116		<b>MT</b>	14,123	14,098	14,226	15,127	10,899
<b>AK</b>	17,004	14,383	13,302	10,316	17,431		<b>NC</b>	13,895	13,952	13,991	13,806	13,244
<b>AR</b>	8,924	9,380	8,778	8,987	7,535		<b>ND</b>	12,371	14,852	11,271	12,993	9,299
<b>AZ</b>	10,459	11,121	11,257	10,631	10,714		<b>NE</b>	10,950	10,893	10,541	10,114	9,551
<b>CA</b>	13,252	13,579	13,829	13,272	14,002		<b>NH</b>	14,020	15,096	14,315	13,950	12,918
<b>CO</b>	15,747	15,959	16,158	16,888	15,440		<b>NJ</b>	12,609	12,957	12,351	12,111	11,941
<b>CT</b>	13,791	14,558	14,627	14,044	12,519		<b>NM</b>	10,143	8,988	11,044	8,074	6,606
<b>DC</b>	19,208	22,554	21,874	18,243	18,771		<b>NV</b>	11,202	11,159	12,031	11,899	11,170
<b>DE</b>	17,509	17,122	16,773	16,653	12,690		<b>NY</b>	15,968	15,774	15,841	15,167	14,464
<b>FL</b>	12,399	12,862	13,364	12,946	12,287		<b>OH</b>	13,771	14,248	14,026	14,042	12,712
<b>GA</b>	11,773	11,846	12,828	12,461	11,916		<b>OK</b>	15,305	15,368	15,648	16,161	14,851
<b>HI</b>	15,170	17,968	18,951	16,814	13,263		<b>OR</b>	13,696	14,828	14,200	12,966	13,261
<b>IA</b>	11,926	11,827	10,607	10,862	11,355		<b>PA</b>	15,328	16,010	15,430	15,185	14,355
<b>ID</b>	12,063	14,301	14,810	15,356	16,436		<b>RI</b>	9,316	9,964	9,444	9,438	9,274
<b>IL</b>	15,534	15,143	16,277	15,818	15,021		<b>SC</b>	14,281	14,747	13,093	14,725	13,958
<b>IN</b>	10,003	11,112	11,675	10,551	9,630		<b>SD</b>	9,645	9,829	10,183	8,397	8,145
<b>KS</b>	10,770	10,982	10,660	10,577	10,202		<b>TN</b>	12,566	12,070	12,066	11,989	11,367
<b>KY</b>	11,184	11,786	12,801	12,460	12,029		<b>TX</b>	13,507	13,623	14,235	14,212	12,732
<b>LA</b>	12,343	12,338	13,347	13,129	12,512		<b>UT</b>	10,113	12,196	11,890	12,799	12,064
<b>MA</b>	13,319	12,245	11,596	10,759	11,572		<b>VA</b>	14,301	15,320	14,659	14,827	14,217
<b>MD</b>	16,532	17,031	16,556	15,625	15,450		<b>VT</b>	15,268	15,037	14,763	10,568	10,420
<b>ME</b>	13,089	14,096	14,611	13,525	13,725		<b>WA</b>	15,424	15,173	12,362	11,281	13,766
<b>MI</b>	10,271	11,110	11,712	10,880	11,518		<b>WI</b>	13,606	14,001	14,364	14,311	13,779
<b>MN</b>	16,777	15,536	15,213	12,552	13,292		<b>WV</b>	14,001	14,094	14,206	12,712	13,121
<b>MO</b>	13,000	13,594	13,329	13,325	12,891		<b>WY</b>	9,538	9,925	12,953	13,135	14,743
<b>MS</b>	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
<b>National</b>	4,388	4,268	4,151	3,818	3,546	<b>MT</b>	5,483	5,308	6,233	5,168	5,005
<b>AK</b>	3,770	3,134	2,794	2,219	2,759	<b>NC</b>	6,108	5,967	5,905	5,402	5,079
<b>AR</b>	4,960	5,253	5,938	5,717	4,693	<b>ND</b>	4,312	6,533	5,416	5,109	4,892
<b>AZ</b>	4,697	4,210	4,165	4,188	3,902	<b>NE</b>	6,011	5,719	5,544	5,251	5,135
<b>CA</b>	1,665	1,671	1,751	1,336	1,112	<b>NH</b>	3,943	3,876	3,627	3,280	2,859
<b>CO</b>	3,389	3,365	3,181	3,165	2,909	<b>NJ</b>	2,645	2,615	2,553	2,446	2,434
<b>CT</b>	3,781	4,227	4,241	3,726	3,116	<b>NM</b>	6,348	5,809	5,745	5,306	4,360
<b>DC</b>	2,513	1,814	1,979	1,400	1,414	<b>NV</b>	4,646	4,693	3,874	4,021	4,026
<b>DE</b>	5,840	5,152	5,426	4,624	4,128	<b>NY</b>	3,960	3,763	3,916	3,581	3,515
<b>FL</b>	2,624	2,624	2,705	2,719	2,600	<b>OH</b>	6,034	6,045	6,146	6,167	5,651
<b>GA</b>	3,951	3,873	3,931	3,896	3,704	<b>OK</b>	5,256	5,136	4,902	4,164	3,690
<b>HI</b>	4,531	5,452	4,986	4,233	3,854	<b>OR</b>	3,895	3,903	3,285	3,108	2,772
<b>IA</b>	10,364	10,822	11,263	9,526	8,821	<b>PA</b>	5,503	5,422	5,378	5,095	4,660
<b>ID</b>	4,741	4,456	4,190	4,056	3,365	<b>RI</b>	5,568	4,920	5,179	4,925	4,044
<b>IL</b>	2,957	3,035	3,287	3,175	2,952	<b>SC</b>	5,979	6,401	6,003	6,046	6,214
<b>IN</b>	5,912	5,874	6,417	6,174	5,832	<b>SD</b>	10,243	10,451	10,632	10,055	8,417
<b>KS</b>	6,314	5,834	5,880	5,347	4,915	<b>TN</b>	4,966	4,846	4,381	4,241	3,764
<b>KY</b>	5,609	5,300	5,784	5,123	4,640	<b>TX</b>	4,070	4,036	4,168	3,871	3,524
<b>LA</b>	6,401	6,233	6,190	5,831	4,857	<b>UT</b>	3,755	3,686	3,869	3,284	3,159
<b>MA</b>	2,254	2,365	2,313	1,475	1,664	<b>VA</b>	3,636	3,126	3,232	3,476	3,542
<b>MD</b>	4,540	4,076	3,811	3,528	3,747	<b>VT</b>	4,901	4,639	4,671	3,902	4,000
<b>ME</b>	6,354	5,961	5,601	5,527	4,765	<b>WA</b>	4,010	3,838	3,801	3,364	3,364
<b>MI</b>	5,696	5,172	5,273	4,593	4,548	<b>WI</b>	8,684	8,731	8,280	7,462	7,332
<b>MN</b>	6,138	6,248	5,945	5,133	4,965	<b>WV</b>	5,655	5,234	5,578	6,203	5,512
<b>MO</b>	5,959	6,024	5,455	5,108	4,679	<b>WY</b>	6,972	5,100	4,960	5,337	4,524
<b>MS</b>	6,696	7,355	6,927	6,654	5,428						

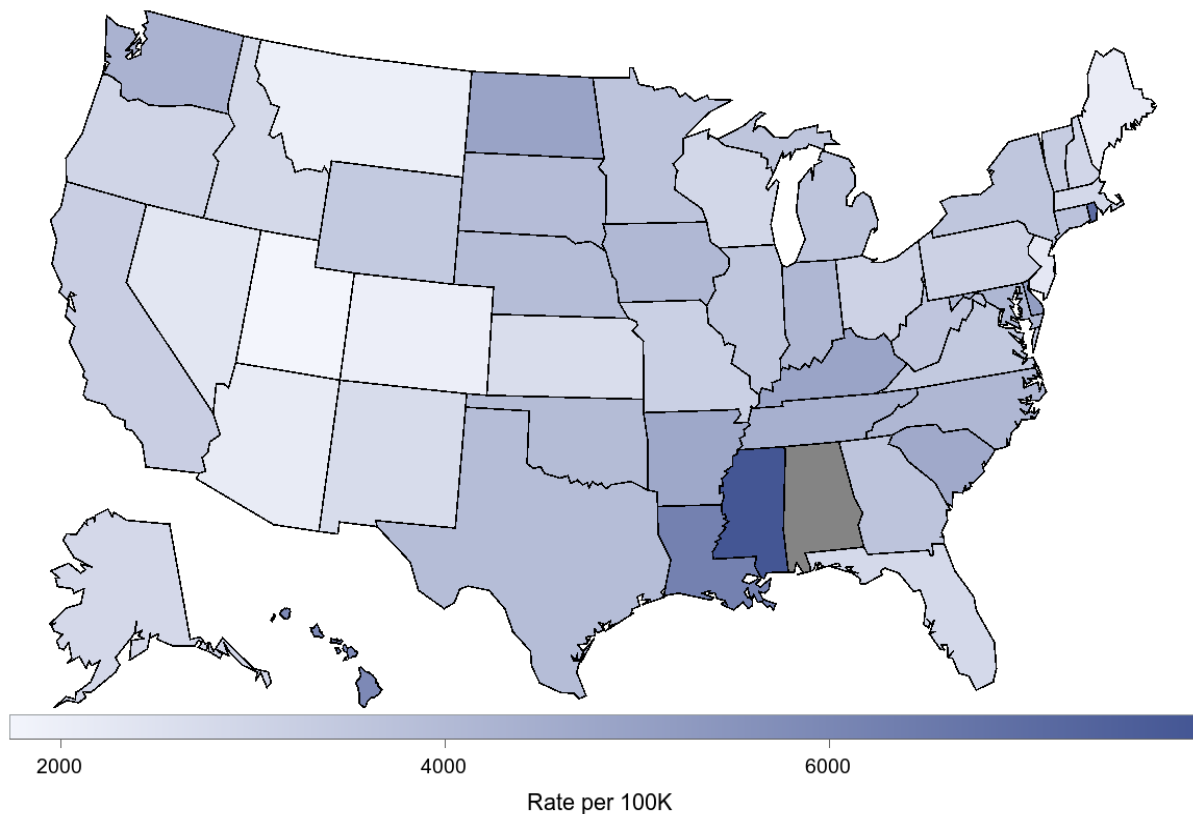


## Contraceptive Services: Patch

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**

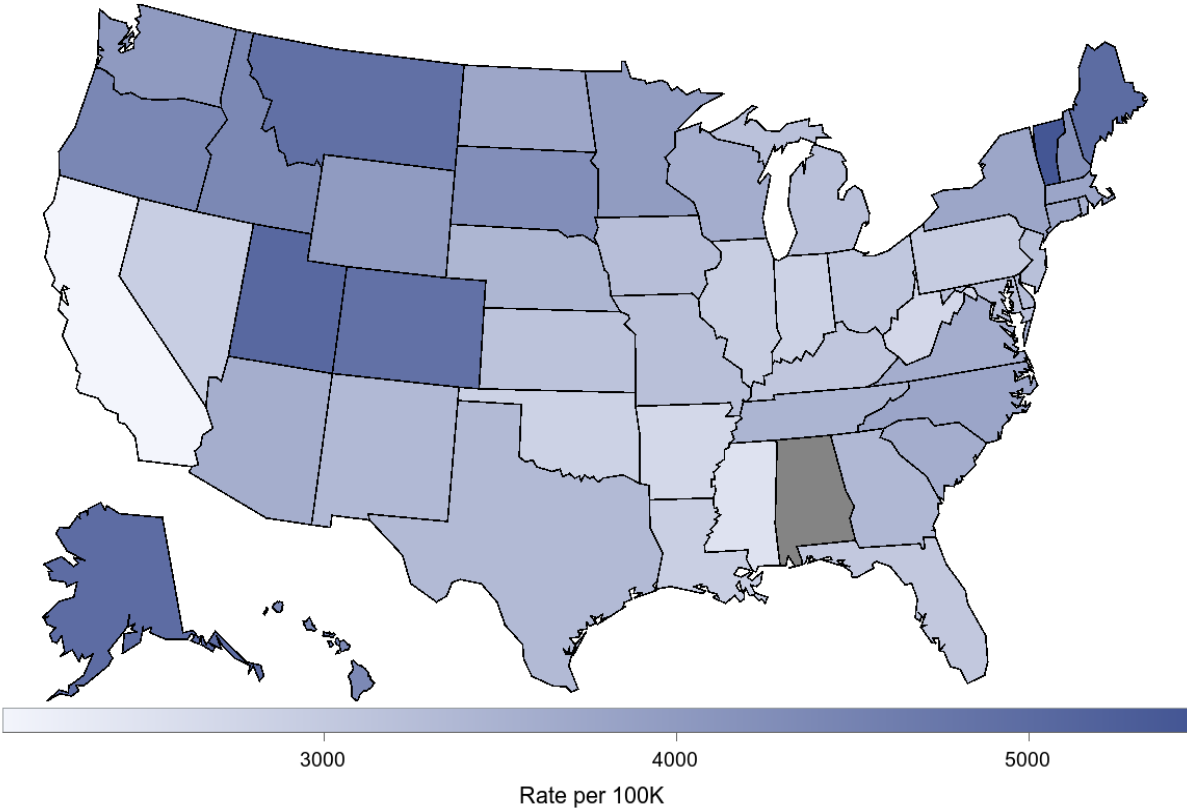
<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>National</b>	2,463	2,844	3,115	3,413	3,493	<b>MT</b>	2,463	2,844	3,115	3,413	3,493
<b>AK</b>	1,982	2,681	2,842	2,707	2,825	<b>NC</b>	1,982	2,681	2,842	2,707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

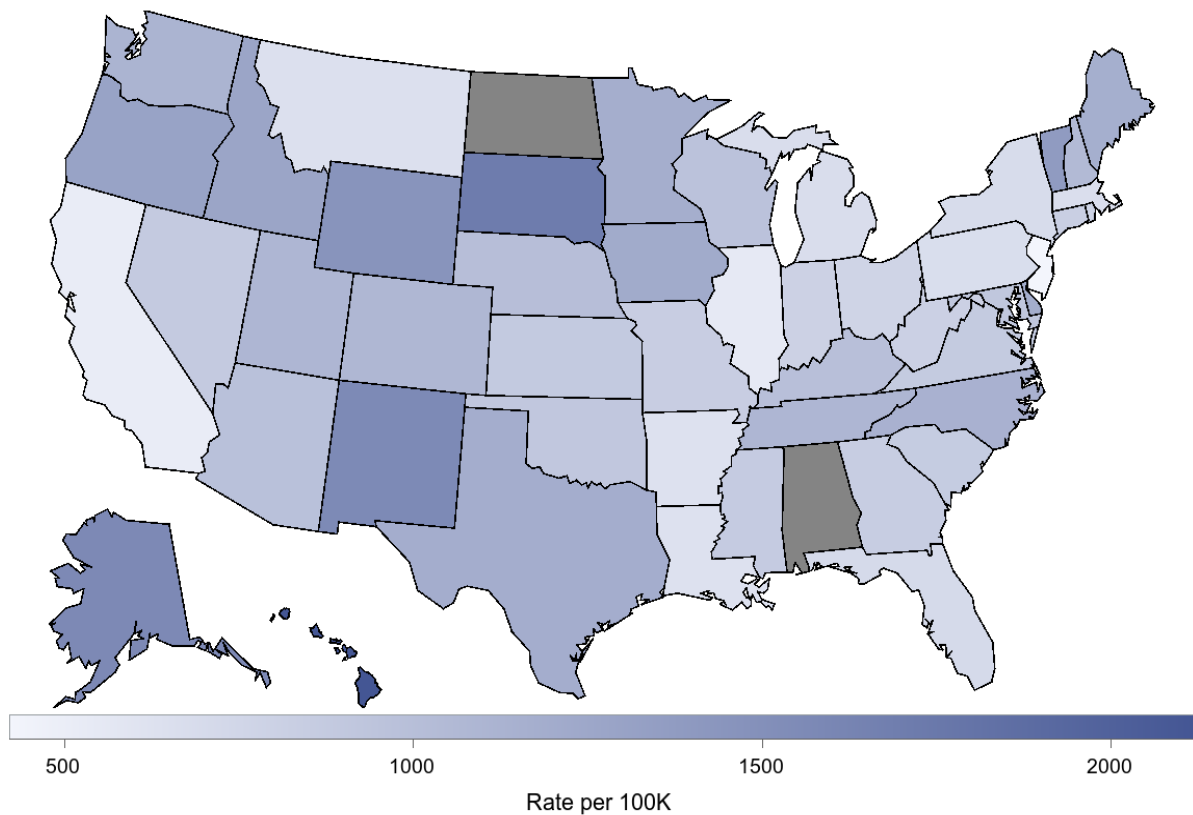
<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>National</b>	3,480	3,386	3,507	3,159	3,267	<b>MT</b>	5,271	4,860	5,586	4,910	4,882
<b>AK</b>	4,904	4,568	4,289	3,134	4,965	<b>NC</b>	4,240	4,065	4,175	3,809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

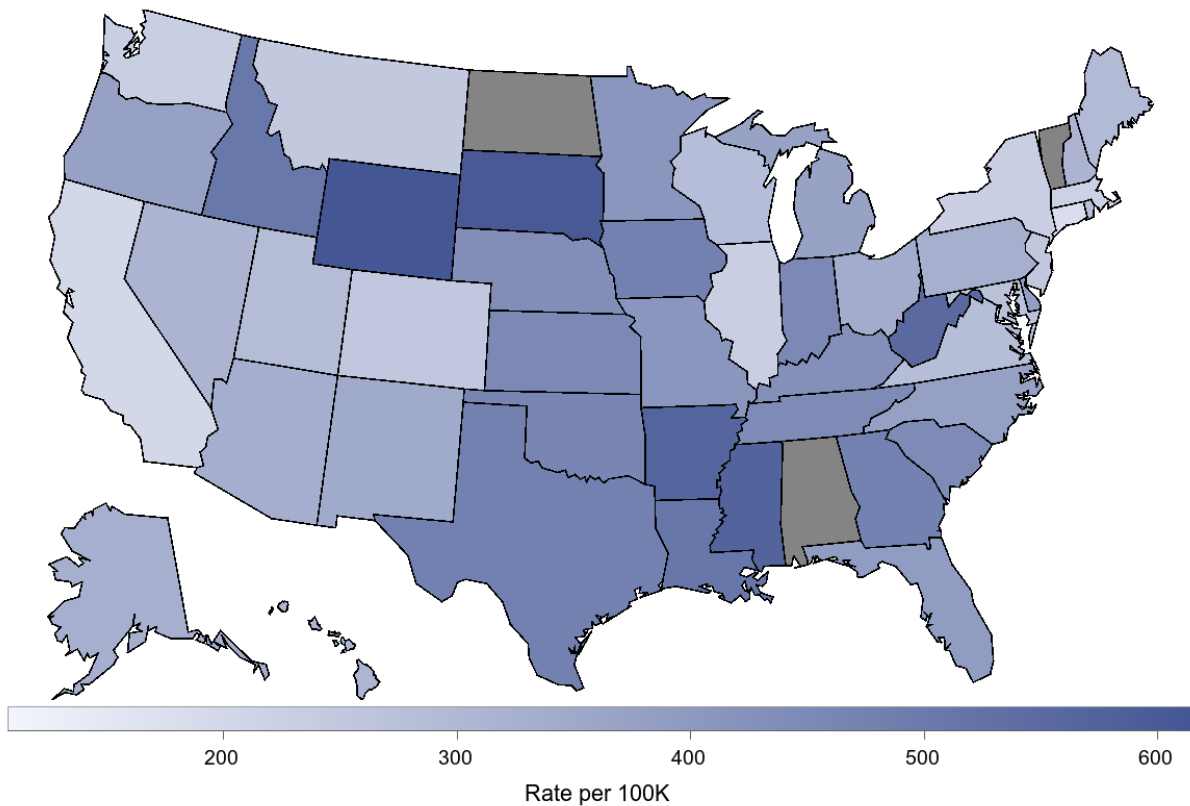
<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>National</b>	886	894	988	864	833	<b>MT</b>	1,080	1,569	1,370	1,153	634
<b>AK</b>	1,997	1,489	1,555	1,099	1,564	<b>NC</b>	1,259	1,261	1,480	1,244	1,137
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

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





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

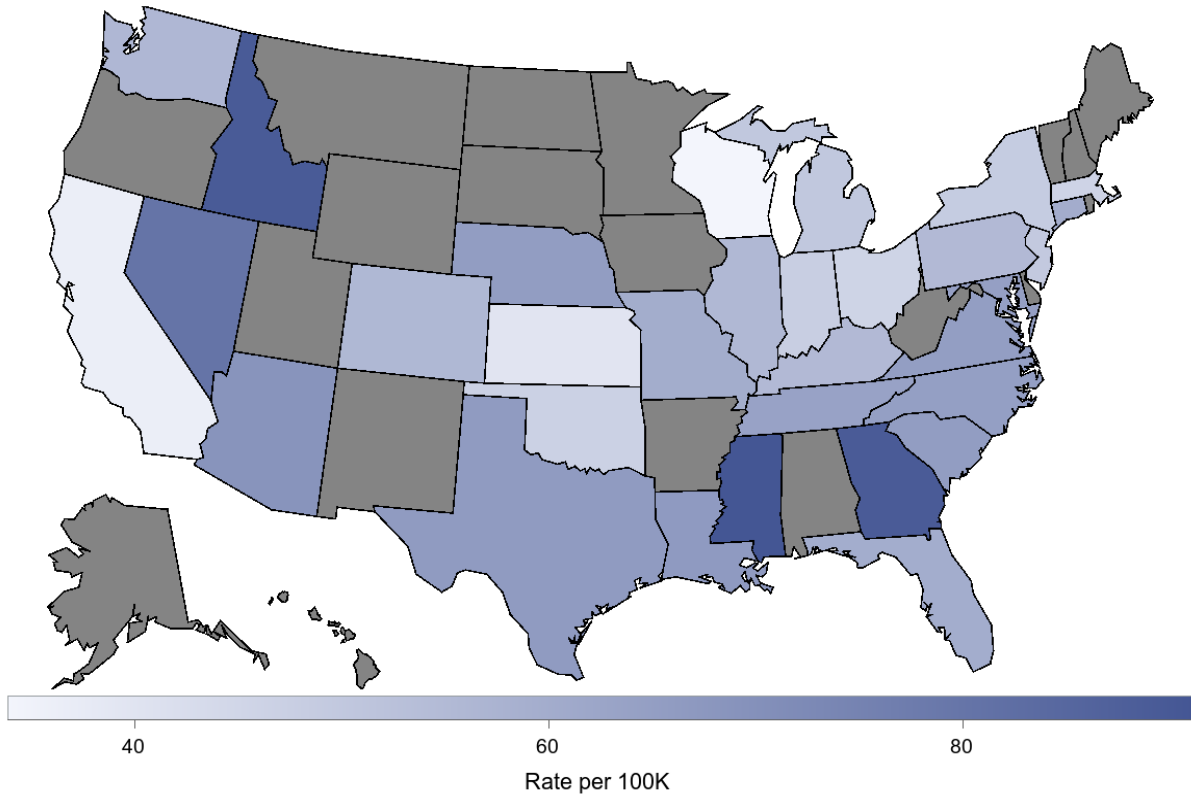
<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>State</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>National</b>	470	484	507	425	540	<b>MT</b>	702	751	718	609	903
<b>AK</b>	563	614	565	427	707	<b>NC</b>	495	483	513	433	534
<b>AR</b>	465	444	505	395	550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

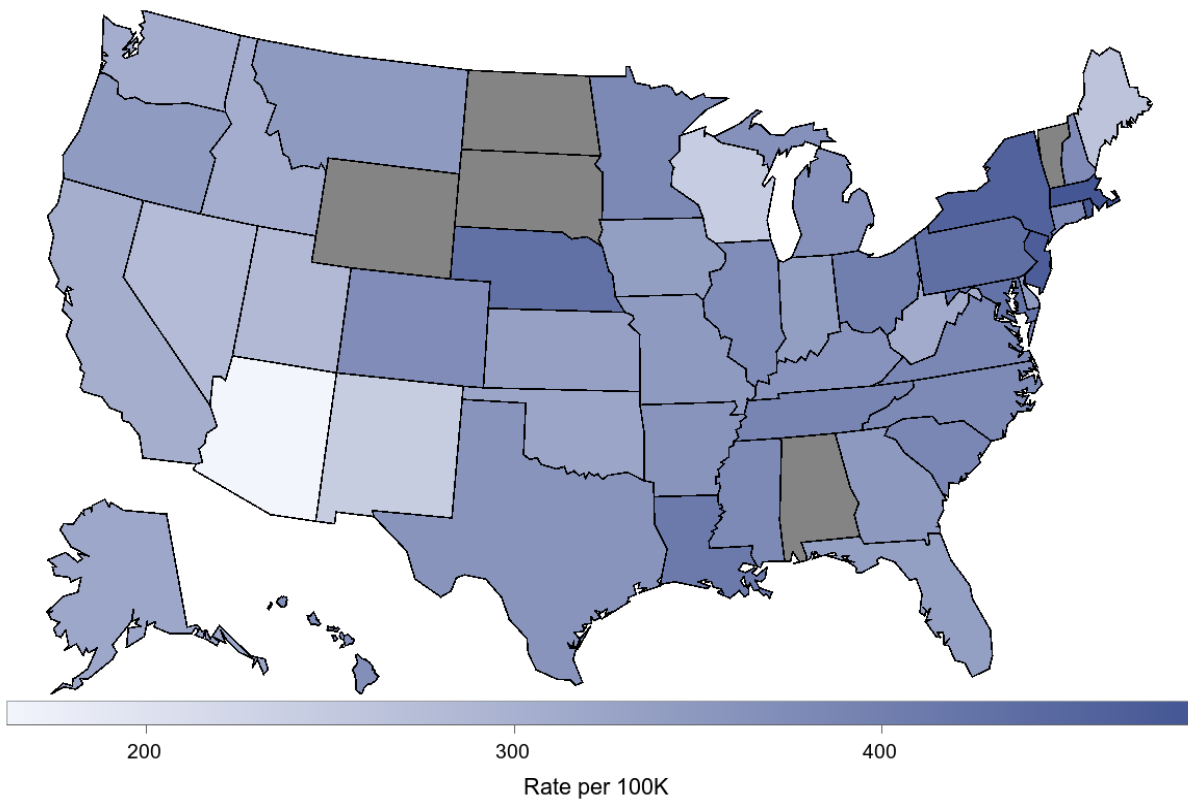
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
<b>National</b>	57	56	55	54	56	<b>MT</b>	.	.	.	.	.
<b>AK</b>	.	.	.	.	.	<b>NC</b>	62	53	68	66	65
<b>AR</b>	.	.	80	.	.	<b>ND</b>	.	.	.	.	.
<b>AZ</b>	49	62	51	54	69	<b>NE</b>	78	67	73	48	65
<b>CA</b>	52	44	42	42	36	<b>NH</b>	.	.	.	.	.
<b>CO</b>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

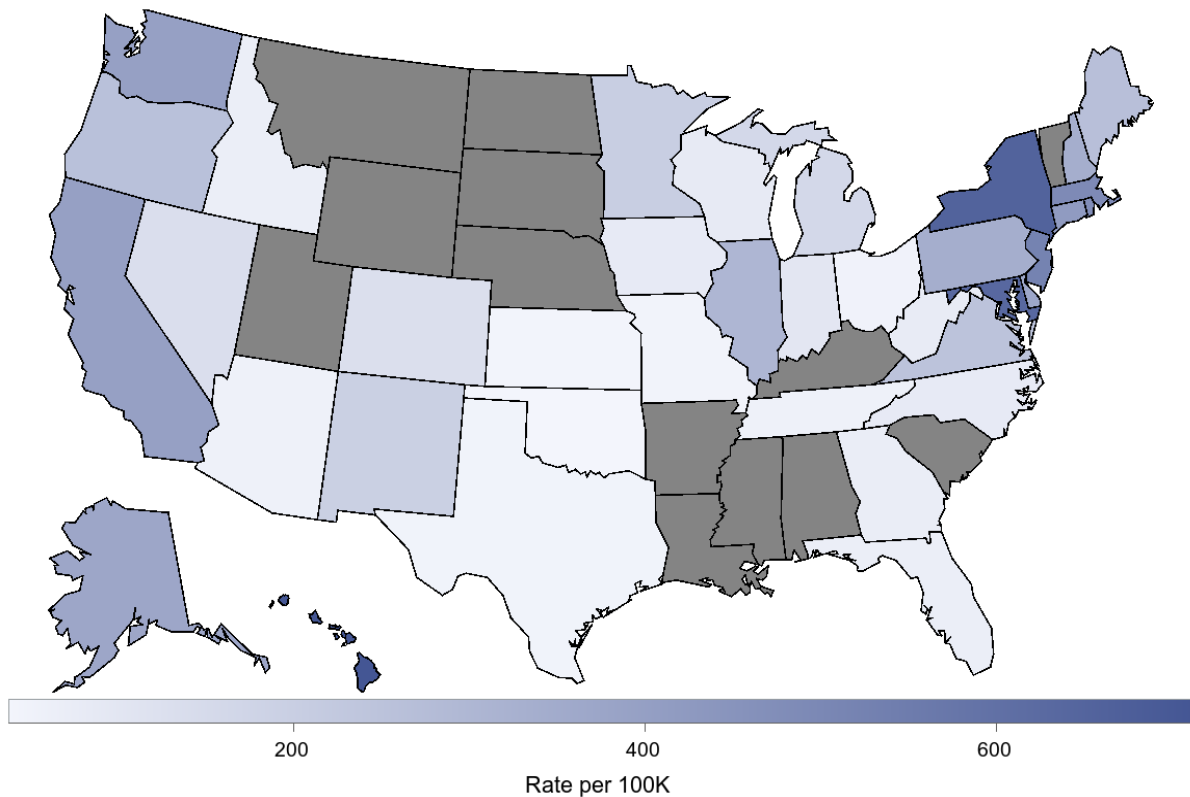
State	2017	2018	2019	2020	2021	State	2017	2018	2019	2020	2021
<b>National</b>	395	388	379	351	369	<b>MT</b>	328	350	324	335	346
<b>AK</b>	321	297	256	244	320	<b>NC</b>	391	350	356	326	379
<b>AR</b>	334	291	361	333	358	<b>ND</b>	.	.	.	.	.
<b>AZ</b>	189	197	176	172	162	<b>NE</b>	437	409	466	416	430
<b>CA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

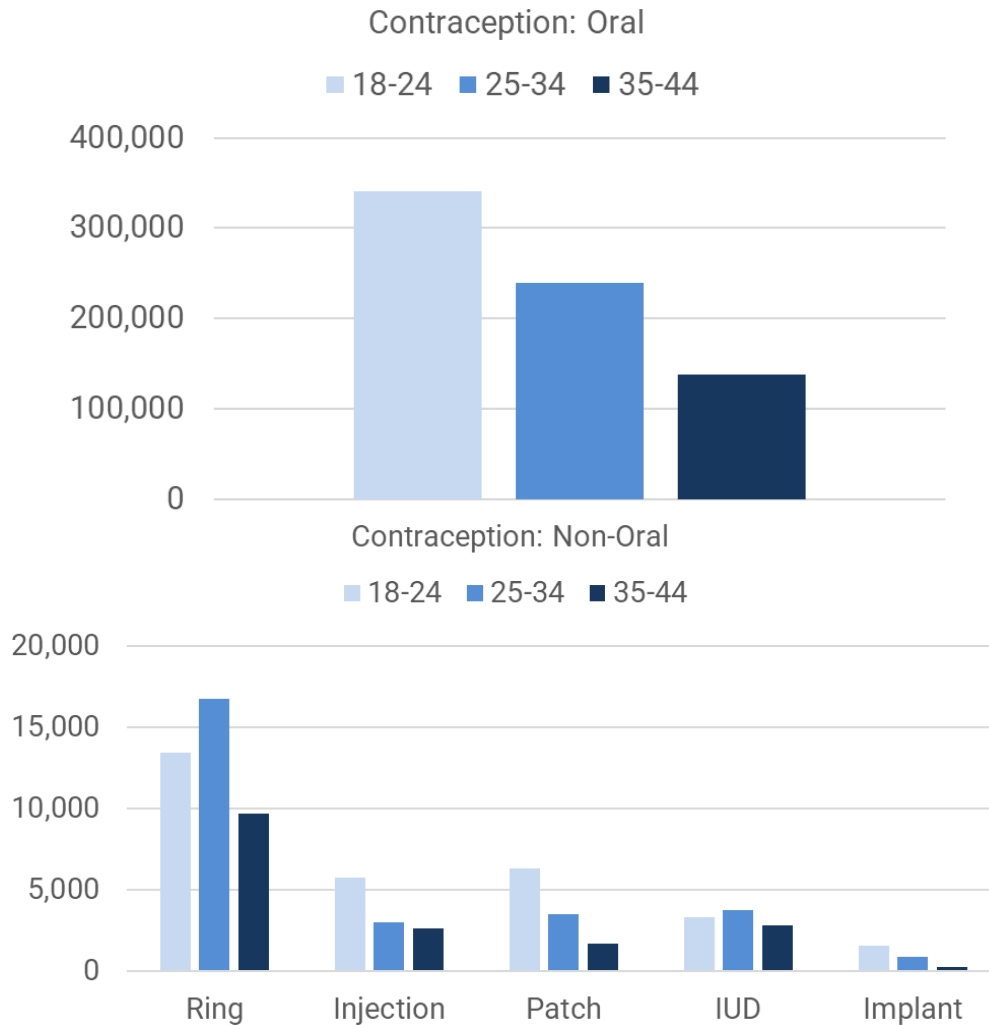
**Rate of Induced Abortion Services per 100,000 Females Aged 18-44 by State and Year**

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

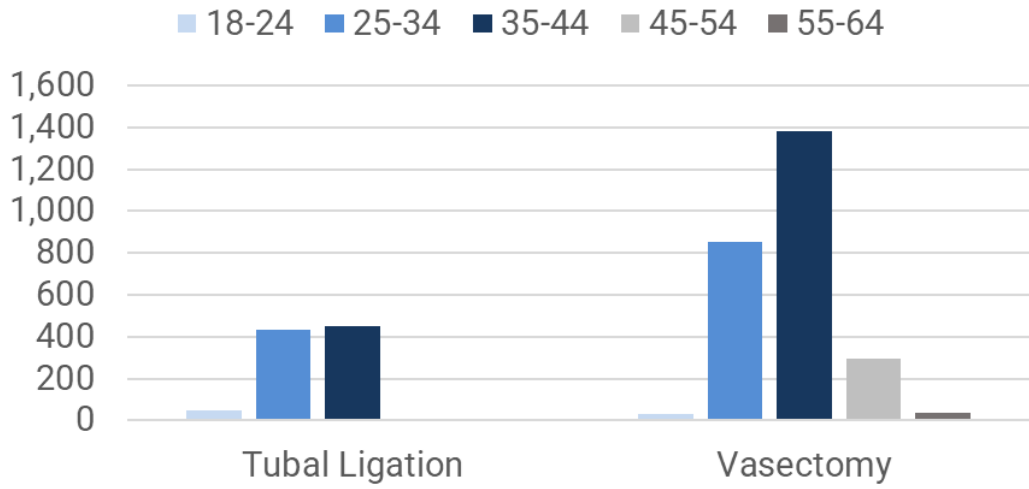


## Sexual Health and Reproductive Services by Age among ESI Enrollees

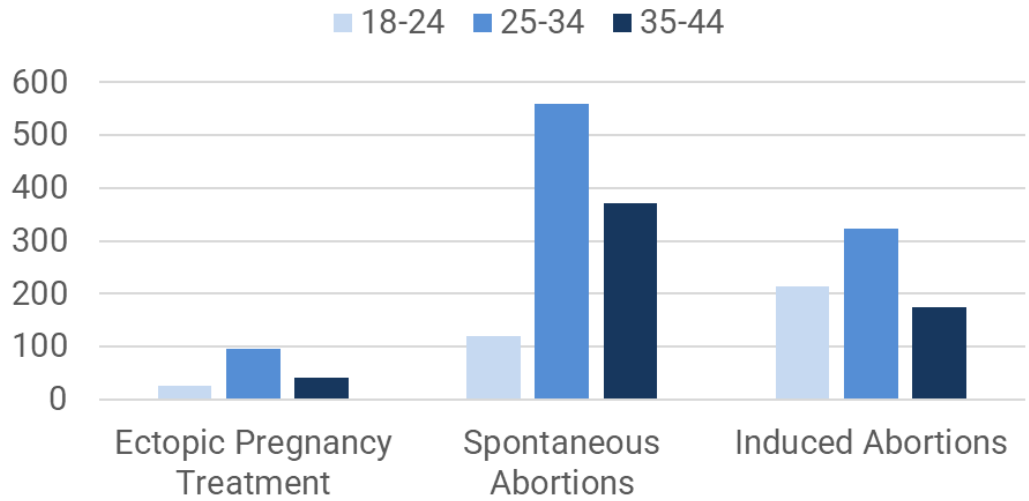
Below, we show national rates (per 100,000 eligible individuals) of each service by age group in 2021. Please see the Downloadable Data accompanying this report for age-specific rates over time and in additional age groups.



### 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.