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The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request: cder_mpl1r_wp235

Request ID: cder_mpl1r_wp235

Request Description: In this report we examined counts and follow-up time for individuals with a diagnosis of gender dysphoria in the Merative™ MarketScan® Research Databases. In addition, we examined counts of individuals using Gonadotropin-Releasing Hormone (GnRH) agonists with or without an inclusion requirement for a diagnosis of gender dysphoria before their GnRH agonist exposure.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 11.4.0

Data Source: We queried the Merative™ MarketScan® Research Databases on October 5, 2022. The study period included data from October 1, 2015 to June 30, 2021. Please see Appendix A for the list of dates of available data for the Merative™ MarketScan® Research Databases.

Study Design: We adopted a retrospective cohort design and respectively identified individuals with a diagnosis of gender dysphoria, users of GnRH agonists, and users of GnRH agonists with a prior diagnosis of gender dysphoria. Results were stratified by sex and year. This is a Type 2 analysis in the Query Request Package (QRP) documentation.

Index Event of Interest: For the first diagnosis cohort, we defined diagnosis of gender dysphoria as the index event of interest, using International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. Only the first qualifying gender dysphoria diagnosis in any care setting for each individual was included; cohort re-entry was not allowed.

For the two GnRH agonist user cohorts, we defined exposure to GnRH agonists as the index event of interest using Healthcare Common Procedure Coding System (HCPCS) procedure codes and National Drug Codes (NDCs). Only the first qualifying GnRH agonist outpatient pharmacy dispensing or professional administration in any care setting for each individual was included; cohort re-entry was not allowed.

Please see Appendix B for the ICD-10-CM diagnosis codes and the HCPCS procedure codes used to define the index events of interest in this request. Please see Appendix C for a list of generic and brand names of medical products used to define index events of interest in this request.

Cohort Eligibility Criteria: We required members to be enrolled in health plans with medical and drug coverage in the 90 days prior to the date of their index event (index date); a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. For each of the three different cohorts, we constructed an overall cohort requiring all included members to be of age 12-20 years on their index date. In addition, we created two other age-specific cohorts: 12-16 and 17-20 years. In one of the two GnRH agonist user cohorts, we required a gender dysphoria diagnosis in the 90 days prior to and including the index date using ICD-10-CM diagnosis codes. Please see Appendix D for the ICD-10-CM diagnosis codes used to define the inclusion criteria in this request.

Follow-up (At-risk) Time: For the GnRH user cohorts, we created the exposure episodes based on the number of days of product supplied either directly recorded in individual outpatient pharmacy dispensings or pre-assigned to each qualifying HCPCS procedure code. Please see Appendix B for the days supply value assigned to each HCPCS code. We bridged together all exposure episodes by specifying a large allowable exposure gap of 3,000 days. Follow-up began on the index date and continued until the first occurrence of the following: 1) disenrollment; 2) death; 3) the end of the data provided by Merative™ MarketScan® Research Databases; 4) the end of the query period; or 5) exposure episode end.

Observable Time: For all cohorts, observable time began on the index date and continued until the first occurrence of the following: 1) disenrollment; 2) death; 3) the end of the data provided by Merative™ MarketScan® Research Databases; or 4) the end of the query period.

Overview for Request: cder_mpl1r_wp235

Baseline Characteristics: For all cohorts, we assessed the following characteristics on the index date: age, sex, race, Hispanic ethnicity, and year of the index event. For the two GnRH agonist user cohorts, we examined the GnRH agonist code type identified on the index date: a GnRH agonist NDC code in outpatient pharmacy dispensings or of professional administrations, as well as a GnRH agonist HCPCS code of professional administrations.

In addition, we assessed the presence of a gender dysphoria diagnosis code, both including and excluding the ICD-10 CM code Z87.890, in the 90 days prior to and including the index date. Lastly, we examined the presence of at least two gender dysphoria diagnosis codes ever in the patient's enrollment history before, on, and after the index date. Please see Appendix E for a list of generic and brand names of medical products used to define the baseline characteristics in this request. Please see Appendix F for the ICD-10-CM diagnosis codes and the HCPCS procedure codes used to define the baseline characteristics in this request.

Most Frequent Utilization: For all cohorts, we analyzed the most frequently reported ICD-10-CM diagnosis codes in any care setting in the 90 days prior to and including the index date. We reported the top twenty ICD-10-CM codes tallied by patient count.

Please see Appendices G, H and I for the specifications of parameters used in this request.

Limitations: Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinel-system.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinel-system.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

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Glossary of Terms for Analyses Using Cohort Identification and Descriptive Analysis (CIDA) Module*

The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Table 1a. Characteristics of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	19,332	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	16.9	2.4
	Number	Percent
Age (Years)		
12-16	9,900	51.2%
17-20	9,432	48.8%
Sex		
Female	13,361	69.1%
Male	5,971	30.9%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	-	-
Asian	-	-
Black or African American	-	-
Multi-racial	-	-
Native Hawaiian or Other Pacific Islander	-	-
Unknown	19,332	100.0%
White	-	-
Hispanic origin ¹		
Yes	-	-
No	-	-
Unknown	19,332	100.0%
Year		
2015	966	5.0%
2016	2,041	10.6%
2017	2,580	13.3%
2018	3,138	16.2%
2019	3,510	18.2%
2020	4,168	21.6%
2021	2,929	15.2%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1b. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	1,700	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	16.2	2.6
	Number	Percent
Age (Years)		
12-16	1,028	60.5%
17-20	672	39.5%
Sex		
Female	1,186	69.8%
Male	514	30.2%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	1,700	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	1,700	100.0%
Year		
2015	65	3.8%
2016	304	17.9%
2017	306	18.0%
2018	278	16.4%
2019	289	17.0%
2020	291	17.1%
2021	167	9.8%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	919	54.1%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	781	45.9%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	710	41.8%
Gender Dysphoria diagnosis (excluding Z87.890)	708	41.6%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	754	44.4%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1c. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	710	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	15.0	2.0
	Number	Percent
Age (Years)		
12-16	580	81.7%
17-20	130	18.3%
Sex		
Female	381	53.7%
Male	329	46.3%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	710	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	710	100.0%
Year		
2015	15	2.1%
2016	77	10.8%
2017	100	14.1%
2018	107	15.1%
2019	143	20.1%
2020	161	22.7%
2021	107	15.1%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	426	60.0%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	284	40.0%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	710	100.0%
Gender Dysphoria diagnosis (excluding Z87.890)	708	99.7%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	696	98.0%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1d. Characteristics of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	9,900	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	14.8	1.4
	Number	Percent
Age (Years)		
12-16	9,900	100.0%
Sex		
Female	7,627	77.0%
Male	2,273	23.0%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	9,900	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	9,900	100.0%
Year		
2015	446	4.5%
2016	996	10.1%
2017	1,249	12.6%
2018	1,579	15.9%
2019	1,733	17.5%
2020	2,216	22.4%
2021	1,681	17.0%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1e. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	1,028	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	14.4	1.4
	Number	Percent
Age (Years)		
12-16	1,028	100.0%
Sex		
Female	612	59.5%
Male	416	40.5%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	1,028	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	1,028	100.0%
Year		
2015	32	3.1%
2016	154	15.0%
2017	172	16.7%
2018	147	14.3%
2019	195	19.0%
2020	206	20.0%
2021	122	11.9%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	549	53.4%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	479	46.6%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	580	56.4%
Gender Dysphoria diagnosis (excluding Z87.890)	578	56.2%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	616	59.9%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1f. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	580	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	14.3	1.4
	Number	Percent
Age (Years)		
12-16	580	100.0%
Sex		
Female	329	56.7%
Male	251	43.3%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	580	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	580	100.0%
Year		
2015	13	2.2%
2016	63	10.9%
2017	81	14.0%
2018	81	14.0%
2019	118	20.3%
2020	134	23.1%
2021	90	15.5%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	357	61.6%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	223	38.4%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	580	100.0%
Gender Dysphoria diagnosis (excluding Z87.890)	578	99.7%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	568	97.9%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1g. Characteristics of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	11,667	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	18.7	1.3
	Number	Percent
Age (Years)		
17-20	11,667	100.0%
Sex		
Female	7,356	63.0%
Male	4,311	37.0%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	11,667	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	11,667	100.0%
Year		
2015	531	4.6%
2016	1,182	10.1%
2017	1,600	13.7%
2018	1,935	16.6%
2019	2,238	19.2%
2020	2,555	21.9%
2021	1,626	13.9%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1h. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	672	
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	19.0	1.2
	Number	Percent
Age (Years)		
17-20	672	100.0%
Sex		
Female	574	85.4%
Male	98	14.6%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	672	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	672	100.0%
Year		
2015	33	4.9%
2016	150	22.3%
2017	134	19.9%
2018	131	19.5%
2019	94	14.0%
2020	85	12.6%
2021	45	6.7%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	370	55.1%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	302	44.9%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	130	19.3%
Gender Dysphoria diagnosis (excluding Z87.890)	130	19.3%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	138	20.5%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 1i. Characteristics of Users of Gonadotropin-Releasing Hormone (GnRH) Agonists Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Patient Characteristics	Number	
Unique patients	130	N/A
Demographic Characteristics	Mean	Standard Deviation
Mean Age (Years)	18.1	1.0
	Number	Percent
Age (Years)		
17-20	130	100.0%
Sex		
Female	52	40.0%
Male	78	60.0%
Other	0	0.0%
Race ¹		
American Indian or Alaska Native	.	.
Asian	.	.
Black or African American	.	.
Multi-racial	.	.
Native Hawaiian or Other Pacific Islander	.	.
Unknown	130	100.0%
White	.	.
Hispanic origin ¹		
Yes	.	.
No	.	.
Unknown	130	100.0%
Year		
2015	2	1.5%
2016	14	10.8%
2017	19	14.6%
2018	26	20.0%
2019	25	19.2%
2020	27	20.8%
2021	17	13.1%
Health Characteristics on the Index Date	Number	Percent
GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	69	53.1%
GnRH agonist use identified via National Drug Codes in professional administration procedures	0	0.0%
GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures	61	46.9%
Health Characteristics in the 90 days Prior to and Including the Index Date	Number	Percent
Gender Dysphoria diagnosis	130	100.0%
Gender Dysphoria diagnosis (excluding Z87.890)	130	100.0%
Health Characteristics throughout Enrollment History (before, on, or after the Index Date)	Number	Percent
Gender Dysphoria diagnosis, 2 or more, on separate days	128	98.5%

¹Data not available in Merative™ MarketScan® Research Databases.

Table 2a. Summary of Exposures of Interest Among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
<i>Individuals Diagnosed with Gender Dysphoria</i>								
	19,332	28,714.1	N/A	N/A	N/A	N/A	28,714.1	10,487,823
Users of GnRH Agonists³								
<i>Users of GnRH Agonists</i>								
	1,700	1,019.0	5,426	5,427	283,529	166.78	2,918.8	1,066,088
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
<i>Users of GnRH Agonists Diagnosed with Gender Dysphoria</i>								
	710	585.0	2,497	2,498	166,298	234.22	964.6	352,328

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 2b. Summary of Exposures of Interest Among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
<i>Individuals Diagnosed with Gender Dysphoria</i>	9,900	14,427.4	N/A	N/A	N/A	N/A	14,427.4	5,269,608
Users of GnRH Agonists³								
<i>Users of GnRH Agonists</i>	1,028	705.7	3,417	3,418	198,514	193.11	1,640.9	599,341
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
<i>Users of GnRH Agonists Diagnosed with Gender Dysphoria</i>	580	490.3	2,100	2,101	139,326	240.22	779.2	284,596

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 2c. Summary of Exposures of Interest Among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
<i>Individuals Diagnosed with Gender Dysphoria</i>	11,667	17,291.3	N/A	N/A	N/A	N/A	17,291.3	6,315,646
Users of GnRH Agonists³								
<i>Users of GnRH Agonists</i>	672	313.3	2,009	2,009	85,015	126.51	1,277.9	466,747
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
<i>Users of GnRH Agonists Diagnosed with Gender</i>	130	94.7	397	397	26,972	207.48	185.4	67,732

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 3a. Summary of Exposures of Interest Among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Sex

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
Female	13,361	19,770.9	N/A	N/A	N/A	N/A	19,770.9	7,221,303
Male	5,971	8,943.2	N/A	N/A	N/A	N/A	8,943.2	3,266,520
Other	0	0.0	N/A	N/A	N/A	N/A	0.0	0
Users of GnRH Agonists³								
Female	1,186	649.4	3,823	3,824	179,331	151.21	2,145.2	783,538
Male	514	369.6	1,603	1,603	104,198	202.72	773.6	282,550
Other	0	0.0	0	0	0	NaN	0.0	0
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
Female	381	299.8	1,357	1,358	86,144	226.10	548.1	200,193
Male	329	285.3	1,140	1,140	80,154	243.63	416.5	152,135
Other	0	0.0	0	0	0	NaN	0.0	0

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 3b. Summary of Exposures of Interest Among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Sex

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
Female	7,627	11,108.3	N/A	N/A	N/A	N/A	11,108.3	4,057,290
Male	2,273	3,319.1	N/A	N/A	N/A	N/A	3,319.1	1,212,318
Other	0	0.0	N/A	N/A	N/A	N/A	0.0	0
Users of GnRH Agonists³								
Female	612	400.6	2,071	2,072	112,295	183.49	999.9	365,228
Male	416	305.2	1,346	1,346	86,219	207.26	641.0	234,113
Other	0	0.0	0	0	0	NaN	0.0	0
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
Female	329	263.8	1,185	1,186	75,571	229.70	453.9	165,797
Male	251	226.6	915	915	63,755	254.00	325.3	118,799
Other	0	0.0	0	0	0	NaN	0.0	0

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 3c. Summary of Exposures of Interest Among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Sex

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
Female	7,356	10,864.9	N/A	N/A	N/A	N/A	10,864.9	3,968,390
Male	4,311	6,426.4	N/A	N/A	N/A	N/A	6,426.4	2,347,256
Other	0	0.0	N/A	N/A	N/A	N/A	0.0	0
Users of GnRH Agonists³								
Female	574	248.8	1,752	1,752	67,036	116.79	1,145.3	418,310
Male	98	64.5	257	257	17,979	183.46	132.6	48,437
Other	0	0.0	0	0	0	NaN	0.0	0
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
Female	52	36.0	172	172	10,573	203.33	94.2	34,396
Male	78	58.7	225	225	16,399	210.24	91.3	33,336
Other	0	0.0	0	0	0	NaN	0.0	0

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 4a. Summary of Exposures of Interest Among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Sex

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
2015	966	2,550.4	N/A	N/A	N/A	N/A	2,550.4	931,535
2016	2,041	5,116.6	N/A	N/A	N/A	N/A	5,116.6	1,868,824
2017	2,580	5,860.5	N/A	N/A	N/A	N/A	5,860.5	2,140,540
2018	3,138	5,958.1	N/A	N/A	N/A	N/A	5,958.1	2,176,209
2019	3,510	5,057.1	N/A	N/A	N/A	N/A	5,057.1	1,847,111
2020	4,168	3,490.0	N/A	N/A	N/A	N/A	3,490.0	1,274,708
2021	2,929	681.4	N/A	N/A	N/A	N/A	681.4	248,896
Users of GnRH Agonists³								
2015	65	38.5	267	268	11,363	174.82	170.6	62,298
2016	304	207.8	1,140	1,140	56,052	184.38	794.8	290,304
2017	306	202.9	1,054	1,054	54,981	179.68	727.8	265,843
2018	278	192.1	943	943	52,188	187.73	516.3	188,584
2019	289	199.8	982	982	54,971	190.21	423.4	154,642
2020	291	150.0	788	788	44,242	152.03	248.8	90,874
2021	167	28.0	252	252	9,732	58.28	37.1	13,543
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
2015	15	18.2	107	108	4,978	331.87	28.5	10,410
2016	77	96.0	383	383	25,927	336.71	186.3	68,052
2017	100	116.6	475	475	30,245	302.45	227.0	82,921
2018	107	99.5	385	385	28,407	265.49	171.9	62,796
2019	143	133.4	552	552	38,594	269.89	196.7	71,831
2020	161	102.3	445	445	31,431	195.22	131.6	48,049
2021	107	18.9	150	150	6,716	62.77	22.6	8,269

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 4b. Summary of Exposures of Interest Among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Year

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
2015	446	1,215.4	N/A	N/A	N/A	N/A	1,215.4	443,933
2016	996	2,517.0	N/A	N/A	N/A	N/A	2,517.0	919,316
2017	1,249	2,921.5	N/A	N/A	N/A	N/A	2,921.5	1,067,062
2018	1,579	3,029.3	N/A	N/A	N/A	N/A	3,029.3	1,106,470
2019	1,733	2,521.5	N/A	N/A	N/A	N/A	2,521.5	920,971
2020	2,216	1,829.2	N/A	N/A	N/A	N/A	1,829.2	668,125
2021	1,681	393.5	N/A	N/A	N/A	N/A	393.5	143,731
Users of GnRH Agonists³								
2015	32	27.4	173	174	7,860	245.63	87.4	31,928
2016	154	133.2	711	711	37,443	243.14	401.1	146,520
2017	172	141.0	638	638	37,905	220.38	408.2	149,113
2018	147	119.4	508	508	32,721	222.59	258.9	94,545
2019	195	151.3	667	667	41,742	214.06	287.3	104,936
2020	206	113.3	548	548	33,817	164.16	172.5	63,012
2021	122	20.1	172	172	7,026	57.59	25.4	9,287
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
2015	13	18.0	105	106	4,900	376.92	28.3	10,332
2016	63	85.7	350	350	23,365	370.87	152.3	55,636
2017	81	98.8	397	397	25,602	316.07	183.7	67,106
2018	81	74.7	290	290	20,923	258.31	125.3	45,766
2019	118	111.0	458	458	32,541	275.77	162.6	59,395
2020	134	86.2	370	370	26,373	196.81	108.1	39,491
2021	90	15.9	130	130	5,622	62.47	18.8	6,870

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 4c. Summary of Exposures of Interest Among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021, by Year

	Number of Patients	Total Years at Risk ¹	Number of Exposure Episode Defining-Codes (Adjusted for Same-Day Dispensings)	Number of Exposure Episode Defining-Codes (Not Adjusted for Same-Day Dispensings)	Total Days Supply During Exposure Episodes	Mean Days Supply per Episode	Total Observable Years ²	Total Observable Days ²
Individuals Diagnosed with Gender Dysphoria								
2015	531	1,356.0	N/A	N/A	N/A	N/A	1,356.0	495,280
2016	1,182	2,952.3	N/A	N/A	N/A	N/A	2,952.3	1,078,337
2017	1,600	3,550.0	N/A	N/A	N/A	N/A	3,550.0	1,296,654
2018	1,935	3,654.1	N/A	N/A	N/A	N/A	3,654.1	1,334,650
2019	2,238	3,219.4	N/A	N/A	N/A	N/A	3,219.4	1,175,884
2020	2,555	2,178.1	N/A	N/A	N/A	N/A	2,178.1	795,533
2021	1,626	381.4	N/A	N/A	N/A	N/A	381.4	139,308
Users of GnRH Agonists³								
2015	33	11.1	94	94	3,503	106.15	83.1	30,370
2016	150	74.6	429	429	18,609	124.06	393.7	143,784
2017	134	61.8	416	416	17,076	127.43	319.6	116,730
2018	131	72.7	435	435	19,467	148.60	257.5	94,039
2019	94	48.5	315	315	13,229	140.73	136.1	49,706
2020	85	36.6	240	240	10,425	122.65	76.3	27,862
2021	45	7.9	80	80	2,706	60.13	11.7	4,256
Users of GnRH Agonists Diagnosed with Gender Dysphoria								
2015	2	0.2	2	2	78	39.00	0.2	78
2016	14	10.2	33	33	2,562	183.00	34.0	12,416
2017	19	17.9	78	78	4,643	244.37	43.3	15,815
2018	26	24.7	95	95	7,484	287.85	46.6	17,030
2019	25	22.5	94	94	6,053	242.12	34.0	12,436
2020	27	16.2	75	75	5,058	187.33	23.4	8,558
2021	17	3.0	20	20	1,094	64.35	3.8	1,399

¹Total Years at Risk calculate the duration of use (or duration of exposure episode), gap days included.

²Total Observable Years/Days calculate the amount of time since the index date an individual is in the database.

³GnRH: Gonadotropin-Releasing Hormone

Table 5a. Summary of Time to End of At-Risk Period for Exposures of Interest Among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Total Number of Episodes	Number of Episodes by Episode Length		Distribution of At-Risk Time in Days, by Episode						
		0+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
		Number of Episodes	Percent of Total Episodes							
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	1,700	1,700	100.0%	1	28	129	312	1,973	218.9	263.1
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender Dysphoria</i>	710	710	100.0%	1	72	232	382	1,936	301.0	305.5

¹At- Risk Time calculates the duration of use (or duration of exposure episode), gap days included.

²GnRH: Gonadotropin-Releasing Hormone

Table 5b. Summary of Time to End of At-Risk Period for Exposures of Interest Among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Number of Episodes by Episode Length									
	Total Number of Episodes	0+ days		Distribution of At-Risk Time in Days, by Episode						
		Number of Episodes	Percent of Total Episodes	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	1,028	1,028	100.0%	1	28	160	365	1,936	250.7	288.7
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender</i>	580	580	100.0%	1	77	241	394	1,936	308.8	312.1

¹At- Risk Time calculates the duration of use (or duration of exposure episode), gap days included.

²GnRH: Gonadotropin-Releasing Hormone

Table 5c. Summary of Time to End of At-Risk Period for Exposures of Interest Among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Total Number of Episodes	Number of Episodes by Episode		Distribution of At-Risk Time in Days, by Episode						
		0+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
		Number of Episodes	Percent of Total Episodes							
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	672	672	100.0%	1	30	114	203	1,973	170.3	209.1
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender Dysphoria</i>	130	130	100.0%	1	61	196	365	1,593	266.1	272.1

¹At- Risk Time calculates the duration of use (or duration of exposure episode), gap days included.

²GnRH: Gonadotropin-Releasing Hormone

Table 6a. Summary of Time to End of Observable Data for Exposures of Interest Among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Number of Episodes by Observable Time									
	Total Number of Episodes	0+ days		Distribution of Observable Time in Days, by Episode						
		Number of Episodes	Percent of Total Episodes	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Individuals Diagnosed with Gender Dysphoria										
<i>Individuals Diagnosed with Gender Dysphoria</i>	19,332	19,332	100.0%	1	161	387	801	2,100	542.5	486.4
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	1,700	1,700	100.0%	1	203	464	963	2,099	627.1	529.3
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender</i>	710	710	100.0%	1	141	350	727	2,081	496.2	459.2

¹Time to end of observable data calculates the amount of time since the index date an individual is in the database. Time to end of observable data is for characterization purposes only. It does not necessarily represent at-risk time, and does not consider episode end, outcome occurrence, blackout period, or delay risk period start.

²GnRH: Gonadotropin-Releasing Hormone

Table 6b. Summary of Time to End of Observable Data for Exposures of Interest Among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Number of Episodes by Observable Time									
	Total Number of Episodes	0+ days		Distribution of Observable Time in Days, by Episode						
		Number of Episodes	Percent of Total Episodes	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Individuals Diagnosed with Gender Dysphoria										
<i>Individuals Diagnosed with Gender Dysphoria</i>	9,900	9,900	100.0%	1	151	365	794	2,100	532.3	486.2
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	1,028	1,028	100.0%	1	183	423	848	2,081	583.0	515.0
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender</i>	580	580	100.0%	1	141	347	720	2,081	490.7	457.2

¹Time to end of observable data calculates the amount of time since the index date an individual is in the database. Time to end of observable data is for characterization purposes only. It does not necessarily represent at-risk time, and does not consider episode end, outcome occurrence, blackout period, or delay risk period start.

²GnRH: Gonadotropin-Releasing Hormone

Table 6c. Summary of Time to End of Observable Data for Exposures of Interest Among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021¹

	Number of Episodes by Observable Time									
	Total Number of Episodes	0+ days		Distribution of Observable Time in Days, by Episode						
		Number of Episodes	Percent of Total Episodes	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Individuals Diagnosed with Gender Dysphoria										
<i>Individuals Diagnosed with Gender Dysphoria</i>	11,667	11,667	100.0%	1	169	396	787	2,100	541.3	475.9
Users of GnRH Agonists²										
<i>Users of GnRH Agonists</i>	672	672	100.0%	1	238	541	1,095	2,099	694.6	543.9
Users of GnRH Agonists Diagnosed with Gender Dysphoria										
<i>Users of GnRH Agonists Diagnosed with Gender Dysphoria</i>	130	130	100.0%	1	150	361	806	1,921	521.0	468.9

¹Time to end of observable data calculates the amount of time since the index date an individual is in the database. Time to end of observable data is for characterization purposes only. It does not necessarily represent at-risk time, and does not consider episode end, outcome occurrence, blackout period, or delay risk period start.

²GnRH: Gonadotropin-Releasing Hormone

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.0	Transsexualism	Diagnosis	ICD-10-CM	4,871	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4,098	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3,364	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1,645	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	789	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	680	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	421	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	375	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	341	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	341	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	315	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	260	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	260	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	232	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	192	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	177	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	177	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	161	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	142	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	142	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	135	IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	111	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	96	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM	57	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	52	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	52	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	45	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	43	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	43	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	43	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	39	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	39	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	37	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	37	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	33	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	33	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	31	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	23	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	22	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	22	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	20	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	20	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	20	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	20	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	19	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	19	IPS

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	18	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	18	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	16	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	14	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	13	ED
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	12	IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	12	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	10	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	9	ISS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	9	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	9	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	8	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	8	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	8	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	8	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	7	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	7	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	7	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	7	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	6	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	6	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	6	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	6	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	5	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	5	AV

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	5	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	5	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	5	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	5	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	5	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	4	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	4	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	4	IPP
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	4	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	ED

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPP
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	2	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ISS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	ED
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPP
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPX

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPP
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPP
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ISS

Table 7a. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	ISP
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV

Table 7b. Total Code Counts of Individuals Diagnosed with Gender Dysphoria 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts
F64.0	Transsexualism	Diagnosis	ICD-10-CM	7,087
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6,344
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	4,443
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2,335
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	577
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	202
F64	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2,271	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2,046	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1,555	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1,451	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	343	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	284	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	279	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	192	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	163	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	150	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	145	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	123	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	90	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	69	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	69	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	60	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	55	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	55	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	50	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	50	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	44	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	34	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	34	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	33	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	33	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	30	ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	30	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	30	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	28	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	28	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	28	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	23	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	23	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	23	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	17	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	17	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	16	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	14	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	14	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	14	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	14	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	13	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	13	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	12	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	12	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	10	ED

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	7	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	6	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	5	IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	5	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	5	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	5	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	5	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	4	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	4	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	4	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	3	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	3	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	IPP
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPP
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	2	ED
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	2	OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPP
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPP
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7c. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPP
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPX
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	ISP

Table 7d. Total Code Counts of Individuals Diagnosed with Gender Dysphoria 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3,143
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3,020
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2,043
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1,926
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	278
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	69
F64	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3,322	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2,440	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2,140	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	595	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	499	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	368	AV
F64.0		Diagnosis	ICD-10-CM	326	AV
F64.0	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	244	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	229	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	215	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	165	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	162	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	105	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	98	IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	72	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	62	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	48	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	41	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	40	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM	34	ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	32	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	24	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	20	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	18	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	17	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	16	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	14	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	13	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	13	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	13	ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	12	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	11	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	10	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	10	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	8	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	8	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	7	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	7	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	7	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	6	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	6	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	6	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	5	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	5	OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	5	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	5	ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	5	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	4	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	3	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.0	Transsexualism	Diagnosis	ICD-10-CM	3	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	3	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	3	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	3	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	2	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM	2	ED
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	2	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	IPX
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	2	ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPX

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ISS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ISS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ISS
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		ED
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	1	OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		ED
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64	Gender Identity Disorder	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM	1	IPP
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.0	Transsexualism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV

Table 7e. Full Code Distribution of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts	Encounter Care Setting
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.0	Transsexualism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.0	Transsexualism	Diagnosis	ICD-10-CM		OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		IPS
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	IPX
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	1	ED
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	OA
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM		OA
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	1	AV
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM		ED
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	ISS
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	1	AV
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM		ED

Table 7f. Total Code Counts of Individuals Diagnosed with Gender Dysphoria 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Code	Code Description	Code Category	Code Type	Overall Code Counts
F64.0	Transsexualism	Diagnosis	ICD-10-CM	5,004
F64.9	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	3,943
F64.1	Dual Role Transvestism	Diagnosis	ICD-10-CM	2,950
F64.2	Gender Identity Disorder Of Childhood	Diagnosis	ICD-10-CM	541
F64.8	Other Gender Identity Disorders	Diagnosis	ICD-10-CM	354
Z87.890	Personal History Of Sex Reassignment	Diagnosis	ICD-10-CM	146
F64	Gender Identity Disorder Unspecified	Diagnosis	ICD-10-CM	5

Table 8a. Most Frequent Diagnoses among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code	Code Category	Code Type	Code Description	Code Count	Patient Count	Rank
Individuals Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10	TRANSSEXUALISM	10396	6990	1
Individuals Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10	GENDER IDENTITY DISORDER UNS	8403	6326	2
Individuals Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10	GENERALIZED ANXIETY DISORDER	17436	4570	3
Individuals Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10	DUAL ROLE TRANSVESTISM	6733	4361	4
Individuals Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10	MAJ DEPRESS D/O SINGLE EPIS UNS	9274	3824	5
Individuals Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10	ANXIETY DISORDER UNSPECIFIED	9145	3767	6
Individuals Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10	ENCOUNTER FOR IMMUNIZATION	3741	3282	7
Individuals Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10	GENDER IDENTITY DISORDER CHILDHOOD	3634	2432	8
Individuals Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10	MAJ DEPRESS D/O RECURRENT MOD	8074	2293	9
Individuals Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10	ENC RTN CHLD HLTH EX W/O ABNRM FIND	2497	2269	10
Individuals Diagnosed with Gender Dysphoria	R45851	Diagnosis	ICD-10	SUICIDAL IDEATIONS	4882	1895	11
Individuals Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10	MAJ DEPRESS RECURR SEV W/O PSYCH	8458	1822	12
Individuals Diagnosed with Gender Dysphoria	E349	Diagnosis	ICD-10	ENDOCRINE DISORDER UNSPECIFIED	2097	1307	13
Individuals Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10	OTH LONG TERM CURRENT DRUG THERAPY	1887	1195	14
Individuals Diagnosed with Gender Dysphoria	F4323	Diagnosis	ICD-10	ADJUST D/O MIXED ANX & DEPRESS MOOD	4131	1135	15
Individuals Diagnosed with Gender Dysphoria	F321	Diagnosis	ICD-10	MAJ DEPRESS D/O SINGLE EPIS MOD	3360	1099	16
Individuals Diagnosed with Gender Dysphoria	F900	Diagnosis	ICD-10	ADHD INATTENTIVE TYPE	2803	1035	17
Individuals Diagnosed with Gender Dysphoria	F902	Diagnosis	ICD-10	ADHD COMBINED TYPE	2899	995	18
Individuals Diagnosed with Gender Dysphoria	Z0000	Diagnosis	ICD-10	ENC GEN ADULT EXAM W/O ABNORM FIND	1264	984	19
Individuals Diagnosed with Gender Dysphoria	F4010	Diagnosis	ICD-10	SOCIAL PHOBIA UNSPECIFIED	3029	963	20
Users of GnRH Agonists	F640	Diagnosis	ICD-10	TRANSSEXUALISM	1164	369	1
Users of GnRH Agonists	Z23	Diagnosis	ICD-10	ENCOUNTER FOR IMMUNIZATION	322	279	2
Users of GnRH Agonists	R102	Diagnosis	ICD-10	PELVIC AND PERINEAL PAIN	811	275	3
Users of GnRH Agonists	F649	Diagnosis	ICD-10	GENDER IDENTITY DISORDER UNS	754	271	4
Users of GnRH Agonists	F411	Diagnosis	ICD-10	GENERALIZED ANXIETY DISORDER	1190	266	5
Users of GnRH Agonists	F419	Diagnosis	ICD-10	ANXIETY DISORDER UNSPECIFIED	625	261	6
Users of GnRH Agonists	F642	Diagnosis	ICD-10	GENDER IDENTITY DISORDER CHILDHOOD	713	260	7
Users of GnRH Agonists	N809	Diagnosis	ICD-10	ENDOMETRIOSIS UNSPECIFIED	441	205	8
Users of GnRH Agonists	F329	Diagnosis	ICD-10	MAJ DEPRESS D/O SINGLE EPIS UNS	534	204	9
Users of GnRH Agonists	Z79899	Diagnosis	ICD-10	OTH LONG TERM CURRENT DRUG THERAPY	548	201	10
Users of GnRH Agonists	F641	Diagnosis	ICD-10	DUAL ROLE TRANSVESTISM	703	182	11
Users of GnRH Agonists	N803	Diagnosis	ICD-10	ENDOMETRIOSIS OF PELVIC PERITONEUM	332	181	12
Users of GnRH Agonists	E349	Diagnosis	ICD-10	ENDOCRINE DISORDER UNSPECIFIED	304	160	13

Table 8a. Most Frequent Diagnoses among Individuals 12-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code	Code Category	Code Type	Code Description	Code Count	Patient Count	Rank
Users of GnRH Agonists	N946	Diagnosis	ICD-10	DYSMENORRHEA UNSPECIFIED	354	157	14
Users of GnRH Agonists	Z00129	Diagnosis	ICD-10	ENC RTN CHLD HLTH EX W/O ABNRM FIND	174	153	15
Users of GnRH Agonists	Z5111	Diagnosis	ICD-10	ENCOUNTER FOR ANTINEOPLASTIC CHEMO	1060	150	16
Users of GnRH Agonists	R109	Diagnosis	ICD-10	UNSPECIFIED ABDOMINAL PAIN	278	135	17
Users of GnRH Agonists	R6252	Diagnosis	ICD-10	SHORT STATURE CHILD	316	114	18
Users of GnRH Agonists	F331	Diagnosis	ICD-10	MAJ DEPRESS D/O RECURRENT MOD	487	109	19
Users of GnRH Agonists	R110	Diagnosis	ICD-10	NAUSEA	206	102	20
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10	TRANSSEXUALISM	1164	369	1
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10	GENDER IDENTITY DISORDER UNS	754	271	2
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10	GENDER IDENTITY DISORDER CHILDHOOD	713	260	3
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10	DUAL ROLE TRANSVESTISM	703	182	4
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10	GENERALIZED ANXIETY DISORDER	949	179	5
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10	ANXIETY DISORDER UNSPECIFIED	357	152	6
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10	ENCOUNTER FOR IMMUNIZATION	153	130	7
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E349	Diagnosis	ICD-10	ENDOCRINE DISORDER UNSPECIFIED	234	128	8
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10	MAJ DEPRESS D/O SINGLE EPIS UNS	328	123	9
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10	ENC RTN CHLD HLTH EX W/O ABNRM FIND	99	91	10
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10	MAJ DEPRESS D/O RECURRENT MOD	421	83	11
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10	MAJ DEPRESS RECURR SEV W/O PSYCH	315	56	12
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E559	Diagnosis	ICD-10	VITAMIN D DEFICIENCY UNSPECIFIED	65	48	13
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F321	Diagnosis	ICD-10	MAJ DEPRESS D/O SINGLE EPIS MOD	162	47	14
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10	OTH LONG TERM CURRENT DRUG THERAPY	78	46	15
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F902	Diagnosis	ICD-10	ADHD COMBINED TYPE	156	46	16
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F840	Diagnosis	ICD-10	AUTISTIC DISORDER	301	43	17
Users of GnRH Agonists Diagnosed with Gender Dysphoria	J029	Diagnosis	ICD-10	ACUTE PHARYNGITIS UNSPECIFIED	58	41	18
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F4323	Diagnosis	ICD-10	ADJUST D/O MIXED ANX & DEPRESS MOOD	176	41	19
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F900	Diagnosis	ICD-10	ADHD INATTENTIVE TYPE	175	40	20

Table 8b. Most Frequent Diagnoses among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code		Code Description	Code Count	Patient Count	Rank
	Code	Category				
Individuals Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10-CM TRANSSEXUALISM	4801	3197	1
Individuals Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER UNS	3982	3097	2
Individuals Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10-CM GENERALIZED ANXIETY DISORDER	10923	2642	3
Individuals Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10-CM MAJ DEPRESS D/O SINGLE EPIS UNS	6028	2343	4
Individuals Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10-CM ANXIETY DISORDER UNSPECIFIED	5373	2236	5
Individuals Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER CHILDHOOD	3162	2116	6
Individuals Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10-CM DUAL ROLE TRANSVESTISM	3059	1952	7
Individuals Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10-CM ENCOUNTER FOR IMMUNIZATION	2164	1934	8
Individuals Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10-CM ENC RTN CHLD HLTH EX W/O ABNRM FIND	2061	1886	9
Individuals Diagnosed with Gender Dysphoria	R45851	Diagnosis	ICD-10-CM SUICIDAL IDEATIONS	3569	1366	10
Individuals Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10-CM MAJ DEPRESS D/O RECURRENT MOD	4444	1228	11
Individuals Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10-CM MAJ DEPRESS RECURR SEV W/O PSYCH	5551	1155	12
Individuals Diagnosed with Gender Dysphoria	F321	Diagnosis	ICD-10-CM MAJ DEPRESS D/O SINGLE EPIS MOD	2432	757	13
Individuals Diagnosed with Gender Dysphoria	F4323	Diagnosis	ICD-10-CM ADJUST D/O MIXED ANX & DEPRESS MOOD	2572	686	14
Individuals Diagnosed with Gender Dysphoria	F902	Diagnosis	ICD-10-CM ADHD COMBINED TYPE	2062	657	15
Individuals Diagnosed with Gender Dysphoria	F900	Diagnosis	ICD-10-CM ADHD INATTENTIVE TYPE	1678	610	16
Individuals Diagnosed with Gender Dysphoria	F4010	Diagnosis	ICD-10-CM SOCIAL PHOBIA UNSPECIFIED	2055	610	17
Individuals Diagnosed with Gender Dysphoria	Z00121	Diagnosis	ICD-10-CM ENC RTN CHLD HLTH EXAM W/ABNRM FIND	621	590	18
Individuals Diagnosed with Gender Dysphoria	F322	Diagnosis	ICD-10-CM MAJ DEPRESS 1 EPIS SEV W/O PSYCHOT	1851	579	19
Individuals Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10-CM OTH LONG TERM CURRENT DRUG THERAPY	883	533	20
Users of GnRH Agonists	F640	Diagnosis	ICD-10-CM TRANSSEXUALISM	887	292	1
Users of GnRH Agonists	F642	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER CHILDHOOD	684	245	2
Users of GnRH Agonists	F649	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER UNS	604	214	3
Users of GnRH Agonists	F411	Diagnosis	ICD-10-CM GENERALIZED ANXIETY DISORDER	947	179	4
Users of GnRH Agonists	Z23	Diagnosis	ICD-10-CM ENCOUNTER FOR IMMUNIZATION	201	178	5
Users of GnRH Agonists	F419	Diagnosis	ICD-10-CM ANXIETY DISORDER UNSPECIFIED	380	160	6
Users of GnRH Agonists	F641	Diagnosis	ICD-10-CM DUAL ROLE TRANSVESTISM	561	139	7
Users of GnRH Agonists	Z00129	Diagnosis	ICD-10-CM ENC RTN CHLD HLTH EX W/O ABNRM FIND	155	138	8
Users of GnRH Agonists	E349	Diagnosis	ICD-10-CM ENDOCRINE DISORDER UNSPECIFIED	237	130	9
Users of GnRH Agonists	F329	Diagnosis	ICD-10-CM MAJ DEPRESS D/O SINGLE EPIS UNS	335	129	10
Users of GnRH Agonists	R6252	Diagnosis	ICD-10-CM SHORT STATURE CHILD	307	110	11
Users of GnRH Agonists	Z79899	Diagnosis	ICD-10-CM OTH LONG TERM CURRENT DRUG THERAPY	256	95	12
Users of GnRH Agonists	F331	Diagnosis	ICD-10-CM MAJ DEPRESS D/O RECURRENT MOD	381	73	13
Users of GnRH Agonists	E300	Diagnosis	ICD-10-CM DELAYED PUBERTY	193	68	14

Table 8b. Most Frequent Diagnoses among Individuals 12-16 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code		Code Description	Code Count	Patient Count	Rank
	Code	Category				
Users of GnRH Agonists	E559	Diagnosis	ICD-10-CM VITAMIN D DEFICIENCY UNSPECIFIED	88	64	15
Users of GnRH Agonists	E301	Diagnosis	ICD-10-CM PRECOCIOUS PUBERTY	139	64	16
Users of GnRH Agonists	Z5111	Diagnosis	ICD-10-CM ENCOUNTER FOR ANTINEOPLASTIC CHEMO	456	63	17
Users of GnRH Agonists	J029	Diagnosis	ICD-10-CM ACUTE PHARYNGITIS UNSPECIFIED	93	61	18
Users of GnRH Agonists	F902	Diagnosis	ICD-10-CM ADHD COMBINED TYPE	167	58	19
Users of GnRH Agonists	F840	Diagnosis	ICD-10-CM AUTISTIC DISORDER	430	54	20
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10-CM TRANSSEXUALISM	887	292	1
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER CHILDHOOD	684	245	2
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10-CM GENDER IDENTITY DISORDER UNS	604	214	3
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10-CM GENERALIZED ANXIETY DISORDER	864	149	4
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10-CM DUAL ROLE TRANSVESTISM	561	139	5
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10-CM ANXIETY DISORDER UNSPECIFIED	271	118	6
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E349	Diagnosis	ICD-10-CM ENDOCRINE DISORDER UNSPECIFIED	184	104	7
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10-CM ENCOUNTER FOR IMMUNIZATION	111	101	8
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10-CM MAJ DEPRESS D/O SINGLE EPIS UNS	256	101	9
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10-CM ENC RTN CHLD HLTH EX W/O ABNRM FIND	89	84	10
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10-CM MAJ DEPRESS D/O RECURRENT MOD	362	65	11
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10-CM MAJ DEPRESS RECURR SEV W/O PSYCH	253	46	12
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F321	Diagnosis	ICD-10-CM MAJ DEPRESS D/O SINGLE EPIS MOD	149	41	13
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F902	Diagnosis	ICD-10-CM ADHD COMBINED TYPE	143	40	14
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E559	Diagnosis	ICD-10-CM VITAMIN D DEFICIENCY UNSPECIFIED	50	38	15
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F840	Diagnosis	ICD-10-CM AUTISTIC DISORDER	272	36	16
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F4323	Diagnosis	ICD-10-CM ADJUST D/O MIXED ANX & DEPRESS MOOD	159	36	17
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F900	Diagnosis	ICD-10-CM ADHD INATTENTIVE TYPE	168	35	18
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10-CM OTH LONG TERM CURRENT DRUG THERAPY	57	33	19
Users of GnRH Agonists Diagnosed with Gender Dysphoria	J029	Diagnosis	ICD-10-CM ACUTE PHARYNGITIS UNSPECIFIED	44	33	20

Table 8c. Most Frequent Diagnoses among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code				Patient		
	Code	Category	Code Type	Code Description	Code Count	Count	Rank
Individuals Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10-CM	TRANSSEXUALISM	8509	4937	1
Individuals Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10-CM	GENDER IDENTITY DISORDER UNS	6061	3967	2
Individuals Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10-CM	DUAL ROLE TRANSVESTISM	5344	2924	3
Individuals Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10-CM	GENERALIZED ANXIETY DISORDER	9259	2568	4
Individuals Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10-CM	ANXIETY DISORDER UNSPECIFIED	4942	1982	5
Individuals Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O SINGLE EPIS UNS	4247	1901	6
Individuals Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10-CM	ENCOUNTER FOR IMMUNIZATION	2144	1810	7
Individuals Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O RECURRENT MOD	4910	1394	8
Individuals Diagnosed with Gender Dysphoria	E349	Diagnosis	ICD-10-CM	ENDOCRINE DISORDER UNSPECIFIED	1805	1105	9
Individuals Diagnosed with Gender Dysphoria	Z0000	Diagnosis	ICD-10-CM	ENC GEN ADULT EXAM W/O ABNORM FIND	1278	993	10
Individuals Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10-CM	MAJ DEPRESS RECURR SEV W/O PSYCH	3929	854	11
Individuals Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10-CM	OTH LONG TERM CURRENT DRUG THERAPY	1234	813	12
Individuals Diagnosed with Gender Dysphoria	R45851	Diagnosis	ICD-10-CM	SUICIDAL IDEATIONS	1666	659	13
Individuals Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10-CM	ENC RTN CHLD HLTH EX W/O ABNRM FIND	745	654	14
Individuals Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10-CM	GENDER IDENTITY DISORDER CHILDHOOD	1208	621	15
Individuals Diagnosed with Gender Dysphoria	F900	Diagnosis	ICD-10-CM	ADHD INATTENTIVE TYPE	1709	588	16
Individuals Diagnosed with Gender Dysphoria	F4323	Diagnosis	ICD-10-CM	ADJUST D/O MIXED ANX & DEPRESS MOOD	2013	559	17
Individuals Diagnosed with Gender Dysphoria	F4010	Diagnosis	ICD-10-CM	SOCIAL PHOBIA UNSPECIFIED	1532	500	18
Individuals Diagnosed with Gender Dysphoria	Z113	Diagnosis	ICD-10-CM	ENC SCREEN INFECTIONS SEXL TRANSMS	751	499	19
Individuals Diagnosed with Gender Dysphoria	F321	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O SINGLE EPIS MOD	1463	494	20
Users of GnRH Agonists	R102	Diagnosis	ICD-10-CM	PELVIC AND PERINEAL PAIN	702	228	1
Users of GnRH Agonists	N809	Diagnosis	ICD-10-CM	ENDOMETRIOSIS UNSPECIFIED	375	175	2
Users of GnRH Agonists	N803	Diagnosis	ICD-10-CM	ENDOMETRIOSIS OF PELVIC PERITONEUM	275	156	3
Users of GnRH Agonists	N946	Diagnosis	ICD-10-CM	DYSMENORRHEA UNSPECIFIED	278	120	4
Users of GnRH Agonists	Z79899	Diagnosis	ICD-10-CM	OTH LONG TERM CURRENT DRUG THERAPY	292	106	5
Users of GnRH Agonists	Z23	Diagnosis	ICD-10-CM	ENCOUNTER FOR IMMUNIZATION	121	101	6
Users of GnRH Agonists	F419	Diagnosis	ICD-10-CM	ANXIETY DISORDER UNSPECIFIED	245	101	7
Users of GnRH Agonists	R109	Diagnosis	ICD-10-CM	UNSPECIFIED ABDOMINAL PAIN	182	89	8
Users of GnRH Agonists	Z5111	Diagnosis	ICD-10-CM	ENCOUNTER FOR ANTINEOPLASTIC CHEMO	604	87	9
Users of GnRH Agonists	F411	Diagnosis	ICD-10-CM	GENERALIZED ANXIETY DISORDER	243	87	10
Users of GnRH Agonists	F640	Diagnosis	ICD-10-CM	TRANSSEXUALISM	277	77	11
Users of GnRH Agonists	F329	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O SINGLE EPIS UNS	199	75	12
Users of GnRH Agonists	Z01818	Diagnosis	ICD-10-CM	ENCOUNTER OTHER PREPROCEDURAL EXAM	91	65	13
Users of GnRH Agonists	R110	Diagnosis	ICD-10-CM	NAUSEA	118	59	14

Table 8c. Most Frequent Diagnoses among Individuals 17-20 Years of Age in the Merative™ MarketScan® Research Databases from October 1, 2015 to June 30, 2021

Group	Code				Patient		
	Code	Category	Code Type	Code Description	Code Count	Count	Rank
Users of GnRH Agonists	F649	Diagnosis	ICD-10-CM	GENDER IDENTITY DISORDER UNS	150	57	15
Users of GnRH Agonists	N920	Diagnosis	ICD-10-CM	EXCESS FREQ MENSTRUATION W/REG CYCL	127	56	16
Users of GnRH Agonists	G8929	Diagnosis	ICD-10-CM	OTHER CHRONIC PAIN	106	54	17
Users of GnRH Agonists	Z452	Diagnosis	ICD-10-CM	ENC ADJUSTMENT & MANAGEMENT VAD	140	53	18
Users of GnRH Agonists	R112	Diagnosis	ICD-10-CM	NAUSEA WITH VOMITING UNSPECIFIED	131	52	19
Users of GnRH Agonists	D649	Diagnosis	ICD-10-CM	ANEMIA UNSPECIFIED	144	51	20
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F640	Diagnosis	ICD-10-CM	TRANSSEXUALISM	277	77	1
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F649	Diagnosis	ICD-10-CM	GENDER IDENTITY DISORDER UNS	150	57	2
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F641	Diagnosis	ICD-10-CM	DUAL ROLE TRANSVESTISM	142	43	3
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F419	Diagnosis	ICD-10-CM	ANXIETY DISORDER UNSPECIFIED	86	34	4
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F411	Diagnosis	ICD-10-CM	GENERALIZED ANXIETY DISORDER	85	30	5
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z23	Diagnosis	ICD-10-CM	ENCOUNTER FOR IMMUNIZATION	42	29	6
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E349	Diagnosis	ICD-10-CM	ENDOCRINE DISORDER UNSPECIFIED	50	24	7
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F329	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O SINGLE EPIS UNS	72	22	8
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F331	Diagnosis	ICD-10-CM	MAJ DEPRESS D/O RECURRENT MOD	59	18	9
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F642	Diagnosis	ICD-10-CM	GENDER IDENTITY DISORDER CHILDHOOD	29	15	10
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z79899	Diagnosis	ICD-10-CM	OTH LONG TERM CURRENT DRUG THERAPY	21	13	11
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F648	Diagnosis	ICD-10-CM	OTHER GENDER IDENTITY DISORDERS	13	10	12
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F332	Diagnosis	ICD-10-CM	MAJ DEPRESS RECURR SEV W/O PSYCH	62	10	13
Users of GnRH Agonists Diagnosed with Gender Dysphoria	E559	Diagnosis	ICD-10-CM	VITAMIN D DEFICIENCY UNSPECIFIED	15	10	14
Users of GnRH Agonists Diagnosed with Gender Dysphoria	L700	Diagnosis	ICD-10-CM	ACNE VULGARIS	12	9	15
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z5181	Diagnosis	ICD-10-CM	ENC THERAPEUTC DRUG LEVL MONITORING	12	8	16
Users of GnRH Agonists Diagnosed with Gender Dysphoria	R5383	Diagnosis	ICD-10-CM	OTHER FATIGUE	11	8	17
Users of GnRH Agonists Diagnosed with Gender Dysphoria	J029	Diagnosis	ICD-10-CM	ACUTE PHARYNGITIS UNSPECIFIED	14	8	18
Users of GnRH Agonists Diagnosed with Gender Dysphoria	Z00129	Diagnosis	ICD-10-CM	ENC RTN CHLD HLTH EX W/O ABNRM FIND	10	7	19
Users of GnRH Agonists Diagnosed with Gender Dysphoria	F840	Diagnosis	ICD-10-CM	AUTISTIC DISORDER	29	7	20

Appendix A. Dates of Available Data for Each Data Partner (DP) as of October 5, 2022

Data Partner	DP Start Date	DP End Date¹
Merative™ MarketScan®	01/01/2010	6/30/2021

¹End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

Appendix B. List of Healthcare Common Procedure Coding System, Level II (HCPCS) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Index Events in this Request

Code	Description	Code Category	Code Type	Assigned Days Supply Value
Gender Dysphoria				
F64	Gender identity disorder	Diagnosis	ICD-10-CM	N/A
F64.0	Transsexualism	Diagnosis	ICD-10-CM	N/A
F64.1	Dual role transvestism	Diagnosis	ICD-10-CM	N/A
F64.2	Gender identity disorder of childhood	Diagnosis	ICD-10-CM	N/A
F64.8	Other gender identity disorders	Diagnosis	ICD-10-CM	N/A
F64.9	Gender identity disorder, unspecified	Diagnosis	ICD-10-CM	N/A
Z87.890	Personal history of sex reassignment	Diagnosis	ICD-10-CM	N/A
Gonadotropin-Releasing Hormone Agonists				
C9016	Injection, triptorelin extended release, 3.75 mg	Procedure	HCPCS	168
C9430	Leuprolide acetate, per 1 mg, brand name	Procedure	HCPCS	28
J1675	Injection, histrelin acetate, 10 mcg	Procedure	HCPCS	28
J1950	Injection, leuprolide acetate (for depot suspension), per 3.75 mg	Procedure	HCPCS	28
J1951	Injection, leuprolide acetate for depot suspension (Fensolvi), 0.25 mg	Procedure	HCPCS	183
J1952	Leuprolide injectable, camcevi, 1 mg	Procedure	HCPCS	183
J3315	Injection, triptorelin pamoate, 3.75 mg	Procedure	HCPCS	28
J3316	Injection, triptorelin, extended-release, 3.75 mg	Procedure	HCPCS	168
J9202	Goserelin acetate implant, per 3.6 mg	Procedure	HCPCS	28
J9217	Leuprolide acetate (for depot suspension), 7.5 mg	Procedure	HCPCS	28
J9218	Leuprolide acetate, per 1 mg	Procedure	HCPCS	28
J9219	Leuprolide acetate implant, 65 mg	Procedure	HCPCS	365
J9225	Histrelin implant (Vantas), 50 mg	Procedure	HCPCS	365
J9226	Histrelin implant (Supprelin LA), 50 mg	Procedure	HCPCS	365
Q2020	Injection, histrelin acetate, 10 mcg	Procedure	HCPCS	28
S0133	Histrelin, implant, 50 mg	Procedure	HCPCS	365

Appendix C. List of Generic and Brand Names of Medical Products Used to Define Index Events in this Request

Generic Name	Brand Name
Gonadotropin-Releasing Hormone Agonists	
goserelin acetate	Zoladex
histrelin acetate	Supprelin LA
histrelin acetate	Vantas
leuprolide acetate	Eligard
leuprolide acetate	Eligard (3 month)
leuprolide acetate	Eligard (4 month)
leuprolide acetate	Eligard (6 month)
leuprolide acetate	Fensolvi
leuprolide acetate	Lupron Depot
leuprolide acetate	Lupron Depot (3 month)
leuprolide acetate	Lupron Depot (4 month)
leuprolide acetate	Lupron Depot (6 Month)
leuprolide acetate	Lupron Depot-Ped
leuprolide acetate	Lupron Depot-Ped (3 month)
leuprolide acetate	leuprolide
leuprolide mesylate	Camcevi (6 month)
nafarelin acetate	Synarel
triptorelin pamoate	Trelstar
triptorelin pamoate	Triptodur

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
Gender Dysphoria			
F64	Gender identity disorder	Diagnosis	ICD-10-CM
F64.0	Transsexualism	Diagnosis	ICD-10-CM
F64.1	Dual role transvestism	Diagnosis	ICD-10-CM
F64.2	Gender identity disorder of childhood	Diagnosis	ICD-10-CM
F64.8	Other gender identity disorders	Diagnosis	ICD-10-CM
F64.9	Gender identity disorder, unspecified	Diagnosis	ICD-10-CM
Z87.890	Personal history of sex reassignment	Diagnosis	ICD-10-CM

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
Gonadotropin-Releasing Hormone Agonists	
goserelin acetate	Zoladex
histrelin acetate	Supprelin LA
histrelin acetate	Vantas
leuprolide acetate	Eligard
leuprolide acetate	Eligard (3 month)
leuprolide acetate	Eligard (4 month)
leuprolide acetate	Eligard (6 month)
leuprolide acetate	Fensolvi
leuprolide acetate	Lupron Depot
leuprolide acetate	Lupron Depot (3 month)
leuprolide acetate	Lupron Depot (4 month)
leuprolide acetate	Lupron Depot (6 Month)
leuprolide acetate	Lupron Depot-Ped
leuprolide acetate	Lupron Depot-Ped (3 month)
leuprolide acetate	leuprolide
leuprolide mesylate	Camcevi (6 month)
nafarelin acetate	Synarel
triptorelin pamoate	Trelstar
triptorelin pamoate	Triptodur

Appendix F. List of Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and National Drug Code (NDC) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type	Assigned Days Supply Value
Gonadotropin-Releasing Hormone Agonists				
C9016	Injection, triptorelin extended release, 3.75 mg	Procedure	HCPCS	168
C9430	Leuprolide acetate, per 1 mg, brand name	Procedure	HCPCS	28
J1675	Injection, histrelin acetate, 10 mcg	Procedure	HCPCS	28
J1950	Injection, leuprolide acetate (for depot suspension), per 3.75 mg	Procedure	HCPCS	28
J1951	Injection, leuprolide acetate for depot suspension (Fensolvi), 0.25 mg	Procedure	HCPCS	183
J1952	Leuprolide injectable, camcevi, 1 mg	Procedure	HCPCS	183
J3315	Injection, triptorelin pamoate, 3.75 mg	Procedure	HCPCS	28
J3316	Injection, triptorelin, extended-release, 3.75 mg	Procedure	HCPCS	168
J9202	Goserelin acetate implant, per 3.6 mg	Procedure	HCPCS	28
J9217	Leuprolide acetate (for depot suspension), 7.5 mg	Procedure	HCPCS	28
J9218	Leuprolide acetate, per 1 mg	Procedure	HCPCS	28
J9219	Leuprolide acetate implant, 65 mg	Procedure	HCPCS	365
J9225	Histrelin implant (Vantas), 50 mg	Procedure	HCPCS	365
J9226	Histrelin implant (Supprelin LA), 50 mg	Procedure	HCPCS	365
Q2020	Injection, histrelin acetate, 10 mcg	Procedure	HCPCS	28
S0133	Histrelin, implant, 50 mg	Procedure	HCPCS	365
Gender Dysphoria				
F64	Gender identity disorder	Diagnosis	ICD-10-CM	N/A
F64.0	Transsexualism	Diagnosis	ICD-10-CM	N/A
F64.1	Dual role transvestism	Diagnosis	ICD-10-CM	N/A
F64.2	Gender identity disorder of childhood	Diagnosis	ICD-10-CM	N/A
F64.8	Other gender identity disorders	Diagnosis	ICD-10-CM	N/A
F64.9	Gender identity disorder, unspecified	Diagnosis	ICD-10-CM	N/A
Z87.890	Personal history of sex reassignment	Diagnosis	ICD-10-CM	N/A
Gender Dysphoria Excluding Z Code				
F64	Gender identity disorder	Diagnosis	ICD-10-CM	N/A
F64.0	Transsexualism	Diagnosis	ICD-10-CM	N/A
F64.1	Dual role transvestism	Diagnosis	ICD-10-CM	N/A
F64.2	Gender identity disorder of childhood	Diagnosis	ICD-10-CM	N/A
F64.8	Other gender identity disorders	Diagnosis	ICD-10-CM	N/A
F64.9	Gender identity disorder, unspecified	Diagnosis	ICD-10-CM	N/A

Appendix G. Specifications Defining Index Events for this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) module, version 11.4.0, to examine counts and follow-up time for individuals with a diagnosis of gender dysphoria in the Merative™ MarketScan® Research Databases. In addition, we examined counts of individuals using Gonadotropin-Releasing Hormone (GnRH) agonists with or without an inclusion requirement for a diagnosis of gender dysphoria before their GnRH agonist exposure.

Query period: 10/01/2015 - 06/30/2021
Coverage requirement: Medical & Drug Coverage
Pre-index enrollment requirement: 90 days
Post-index requirement: none
Post-episode requirement for Type 2 analyses: none
Enrollment gap: 45
Age groups (years): 12-16, 17-20; 12-16; 17-20
Stratifications: Year, sex
Censor output categorization: Requesting Censor Table
Follow-up time output categorization: Requesting Follow-up Time Table
Most Frequent Utilization: Requesting the Most Frequent Utilization table
Restrictions: None
Envelope macro: On
Distribution of index-defining codes: Yes (Scenario 1)
Never-exposed cohort: No
Freeze data: No

Exposure

Scenario	Index Exposure	Cohort definition	Incident exposure washout period	Exclude evidence of days supply if exposure washout includes dispensings	Build Episodes on Point Exposure?	Treatment episode gap	Exposure episode extension
1	Gender Dysphoria	First valid exposure episodes during query period (cohort def: 01)	0	N/A	Yes	N/A	N/A
2	GnRH Agonists	First valid exposure episodes during query period (cohort def: 01)	0	N/A	No	3000 days	0
3	GnRH Agonists	First valid exposure episodes during query period (cohort def: 01)	0	N/A	No	3000 days	0

International Classification of Diseases, Ninth Edition and Tenth Edition (ICD-9 & ICD-10), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360.

National Drug Codes (NDCs) are checked against First Data Bank's FDB MedKnowledge®.

Appendix G. Specifications Defining Index Events for this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) module, version 11.4.0, to examine counts and follow-up time for individuals with a diagnosis of gender dysphoria in the Merative™ MarketScan® Research Databases. In addition, we examined counts of individuals using Gonadotropin-Releasing Hormone (GnRH) agonists with or without an inclusion requirement for a diagnosis of gender dysphoria before their GnRH agonist exposure.

Exposure								
Scenario	Minimum exposure episode duration	Minimum days supplied	Maximum exposure episode duration	Care setting	Principal diagnosis position	Forced supply to attach to dispensings	Create Baseline Table?	Censor treatment episode at evidence of:
1	N/A	N/A	--	Any Care Setting	Any	N/A	Yes	Death; Data Partner end date; Query end date; Disenrollment
2	1	1	no limit	Any Care Setting	N/A	Yes for Procedure=HCPCS and Procedure=NDC (not available in MarketScan), see code-specific assigned values in Appendix B	Yes	Death; Data Partner end date; Query end date; Disenrollment; Episode end
3	1	1	no limit	Any Care Setting	N/A	Yes for Procedure=HCPCS and Procedure=NDC (not available in MarketScan), see code-specific assigned values in Appendix B	Yes	Death; Data Partner end date; Query end date; Disenrollment; Episode end

Appendix G (continued). Specifications Defining Inclusion/Exclusion Criteria for this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) module, version 11.4.0, to examine counts and follow-up time for individuals with a diagnosis of gender dysphoria in the Merative™ MarketScan® Research Databases. In addition, we examined counts of individuals using Gonadotropin-Releasing Hormone (GnRH) agonists with or without an inclusion requirement for a diagnosis of gender dysphoria before their GnRH agonist exposure.

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Inclusion/Exclusion Criteria

Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Exclude evidence of days supply if inclusion/ exclusion evaluation period includes dispensings	Number of instances the criteria should be found in evaluation period	Minimum Days Supplied
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Gender dysphoria	Inclusion	Any care setting	Any	-90	0	N/A	1	N/A

International Classification of Diseases, Ninth Edition and Tenth Edition (ICD-9 & ICD-10), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360.

National Drug Codes (NDCs) are checked against First Data Bank's FDB MedKnowledge®.

Appendix H. Specifications Defining Parameters for Baseline Characteristics in this Request

Baseline Characteristics

Scenario	Covar Num	Covariate	Care setting	Principal diagnosis position	Code Category	Evaluation period start	Evaluation period end	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Forced supply to attach to dispensings
2, 3	1	GnRH agonist use identified via National Drug Codes in outpatient pharmacy dispensings	*Any care setting	*Any	*Drug Code	0	0	*Evaluation period should search for only evidence of a dispensing date	1	1	N/A
2, 3	2	GnRH agonist use identified via National Drug Codes in professional administration procedures	*Any care setting	*Any	*Procedure Code	0	0	N/A	1	N/A	PX=NDC not available in MarketScan
2, 3	3	GnRH agonist use identified via Healthcare Common Procedure Coding System (HCPCS) code in professional administration procedures (Appendix F)	*Any care setting	*Any	*Procedure Code	0	0	N/A	1	N/A	See code-specific assigned values in Appendix F
2, 3	4	Gender Dysphoria	*Any care setting	*Any	*Diagnosis Code	-90	0	N/A	1	N/A	N/A
2, 3	5	Gender Dysphoria	*Any care setting	*Any	*Diagnosis Code	ever	ever	N/A	2	N/A	N/A
2, 3	6	Gender Dysphoria excluding Z87.891	*Any care setting	*Any	*Diagnosis Code	-90	0	N/A	1	N/A	N/A

Appendix I. Most Frequent Utilization Specifications Used in this Request

Most Frequent Utilization						
Number of codes to return	Most Frequent Utilization evaluation period start	Most Frequent Utilization evaluation period end	Code Category	Encounter care setting	Principal encounter	Counting method
Top 20	-90	0	*Diagnosis codes	*Any care setting	*Any	*The Most Frequent Utilization output is sorted by patient counts