

MERATIVE[®] MARKETSCAN[®] RESEARCH DATABASES

Commercial Database & Medicare Database User Guide

Data Year 2022

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Requests for permission to make copies of any part of this report should be mailed to:

Merative
100 Phoenix Drive
Ann Arbor, Michigan 48108

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Introduction

The Merative™ MarketScan® Research Databases capture person-specific clinical utilization, expenditures, and enrollment across inpatient, outpatient, prescription drug, and carve-out services. The data come from a selection of large employers, health plans, and government and public organizations. The MarketScan Research Databases link paid claims and encounter data to detailed patient information across sites and types of providers and over time. The annual medical databases include private-sector health data from approximately 350 payers. Historically, more than 20 billion service records are available in the MarketScan databases. These data represent the medical experience of insured employees and their dependents for active employees, early retirees, Consolidated Omnibus Budget Reconciliation Act (COBRA) continuees, and Medicare-eligible retirees with employer-provided Medicare Supplemental and Medicare Advantage plans.

The Merative MarketScan Research Databases are composed of six individual databases, which are described below and summarized in Exhibit 1.

Commercial Database

The Merative MarketScan Commercial Database (CCAEC) contains data from active employees, early retirees, COBRA continuees, and dependents insured by employer-sponsored plans (that is, individuals not eligible for Medicare).

The database has the following table structure:

- Inpatient Admissions Table (I)
- Facility Header Table (F)
- Inpatient Services Table (S)
- Outpatient Services Table (O)
- Outpatient Pharmaceutical Claims Table (D)
- Annual Enrollment Summary Table (A)
- Enrollment Detail Table (T)

Medicare Database

The Merative MarketScan Medicare Database (MDCR) is created for Medicare-eligible retirees with employer-sponsored Medicare Supplemental and Medicare Advantage plans. This database contains predominantly fee-for-service plan data.

The Medicare Database table structure is identical to the Commercial Database table structure.

Both the Medicare-paid amounts and the employer-paid supplemental insurance amounts are included in this database. Only plans in which both the Medicare-paid amounts and the employer-paid amounts were available and evident on the claims were selected for this database.

In the 2020 data year, Medicare Advantage members were added to the dataset to help provide MarketScan users with a more representative, complete, and longitudinal view of the commercially insured US population aged 65 and older. The resulting database includes data from both Medicare Supplemental and Medicare Advantage plans, and a series of monthly flags to distinguish between plan types.

Health and Productivity Management Database

The Merative MarketScan Health and Productivity Management (HPM) Database is an integrated database that contains absence, short-term disability, long-term disability, and worker's compensation experiences. This information is linkable to the medical, pharmacy, and enrollment data in the MarketScan Commercial Database for these employees, making the resulting database a unique and valuable resource for examining health and productivity issues for an employed, privately insured population.

A separate User Guide is provided to customers licensing the HPM Database.

Benefit Plan Design Database

The Merative MarketScan Benefit Plan Design (BPD) Database consists of data for selected benefit plans represented in the MarketScan Research Databases from 1995 forward. A separate User Guide is provided to customers licensing the BPD Database. Benefit plan design information is available for the Commercial and Medicare Databases.

Multi-State Medicaid Database

The Merative MarketScan Multi-Medicaid Database contains the pooled healthcare experience of approximately seven million Medicaid enrollees from multiple states. It includes inpatient services and prescription drug claims, as well as information on enrollment, long-term care, and other medical care. In addition to standard demographic variables such as age and sex, the database includes variables of particular value to researchers investigating Medicaid populations (for example, race/ethnicity, maintenance assistance status, Medicare eligibility).

MarketScan Lab Database

The Merative MarketScan Lab Database contains the pooled healthcare experience of over one million covered lives, gleaned from sources that include both Commercial and Medicare coverage. It captures laboratory tests for a subset of the covered lives and mainly represents lab tests ordered in office-based practice. Linkage of lab results to claims supports analyses that are not feasible with claims alone, such as determining effectiveness of treatment, measuring severity of illness, identifying patients for whom treatment may be indicated, and verifying diagnoses recorded on claims.

Note: This User Guide is intended to cover the Commercial Database and the Medicare Database. The data you receive may contain some or all of the MarketScan data described herein.

Exhibit 1. Overview of the Merative MarketScan Research Databases

Database	Content	Covered Lives	Tables
Commercial (CCAEC)	Healthcare coverage eligibility and service use of individuals in plans or product lines with fee-for-service plans and fully capitated or partially capitated plans	Active employees and dependents, early (non-Medicare) retirees and dependents, COBRA continuees	Medical/Surgical: Inpatient Admissions (I) Facility Header (F) Inpatient Services (S) Outpatient Services (O) Prescription Drug (D) Enrollment (A,T)
Medicare (MDCR)	Healthcare coverage eligibility and service use of individuals in plans or product lines with fee-for-service plans and fully capitated or partially capitated plans	Medicare-eligible active and retired employees and their Medicare-eligible dependents from employer-sponsored supplemental plans	Medical/Surgical: Inpatient Admissions (I) Facility Header (F) Inpatient Services (S) Outpatient Services (O) Prescription Drug (D) Enrollment (A,T)

Database	Content	Covered Lives	Tables
Benefit Plan Design (BPD)	Plan characteristics derived from the medical claims submitted by each plan. Additional information specific to each plan is available in the BPD User Guide.	Not applicable	Links to CCAE and MDCR Databases for a subset of plans included in those databases
Health and Productivity Management (HPM)	Absence, short-term disability, long-term disability, and worker's compensation experience for a subset of the covered lives represented in the CCAE Database	Active employees	Absenteeism (ABS) Short-Term Disability (STD) Long-Term Disability (LTD) Worker's Compensation (WC) Eligibility (Elig) Linkable to the medical and prescription drug claims information appearing in the CCAE Database

Database	Content	Covered Lives	Tables
Medicaid	Healthcare coverage eligibility and service use of individuals enrolled in state Medicaid programs for several states and/or Medicaid Managed Care programs	Medicaid recipients for several states	Medical/Surgical: Inpatient Admissions (I) Facility Header (F) Inpatient Services (S) Outpatient Services (O) Long-Term Care (L) Prescription Drug (D) Enrollment (A,T)
Lab	Healthcare service use and eligibility for individuals enrolled in Commercial and Medicare programs, along with laboratory test records and results	Individuals enrolled in Commercial and Medicare programs	Medical/Surgical: Inpatient Admissions (I) Facility Header (F) Inpatient Services (S) Outpatient Services (O) Prescription Drug (D) Enrollment (A,T) Lab Test Results (R)

Abbreviation: COBRA, Consolidated Omnibus Budget Reconciliation Act.

Overview of tables

Note: All of the tables and databases described below are available in both the Commercial Database and the Medicare Database. Exhibit 2 contains the data flow diagram.

Medical/Surgical tables

The MarketScan databases contain inpatient and outpatient medical/surgical data stored in four tables: Inpatient Admissions, Inpatient Services, Facility Header, and Outpatient Services.

Inpatient Admissions table (I)

The Inpatient Admissions Table contains records that summarize information about a hospital admission. Merative constructs this table after identifying all encounters or claims (service records) associated with an admission (for example, hospital claims, physician claims, surgeon claims, and claims from independent laboratories). Facility and professional payment information then is summarized for all services. The summarized information is stored in an admission record in the Inpatient Admissions Table. For definitions of key financial variables, see [Financial Variables](#).

The admission record also includes data that can be identified only after all claims for an admission have been identified. These additional data include the principal procedure, principal diagnosis, major diagnostic category (MDC), and diagnosis-related group (DRG). Merative uses the Centers for Medicare & Medicaid Services (CMS) DRG Grouper to assign an MDC and DRG to the admission record.

In addition to the principal procedure and diagnosis codes, the admission record includes all diagnoses and procedures (up to 14 each) found on the service records that make up the admission. These additional codes (Diagnosis 2 through Diagnosis 15 and Procedure 2 through Procedure 15) are assigned chronologically on the basis of service dates and do not duplicate the principal code.

To be considered an admission, the grouping of these service records must meet certain criteria (for example, a room and board claim must be present). If these criteria are not met, the records are stored in the Outpatient Services Table (O) and no admission record is created.

Facility Header table (F)

The Facility Header Table contains complete header information from facility claims. A Facility Header Record identifier (FACHDID) exists on both the Facility Header Table and the Inpatient Services and Outpatient Claims Tables to identify the individual service records that each header record comprises.

Facility inpatient service records are derived from the Uniform Billing (UB04) form. This form does not link financial information to specific procedures or diagnoses.

Inpatient Services table (S)

The Inpatient Services Table contains the individual facility and professional encounters and services that the inpatient admission record comprises. A Cases and Services Link identifier (CASEID) exists on both the Inpatient Admissions and the Inpatient Services Tables to identify the individual service records that each admission record comprises.

Facility inpatient service records are derived from the UB04 form. This form does not link financial information to specific procedures or diagnoses. Physician services are derived from the CMS 1500 form.

Note: The Inpatient Services Table contains both facility and physician services associated with an inpatient admission. The Inpatient Admissions Table differs from UB04 discharge data in that Merative combines the facility charges with the physician services associated with an inpatient admission. UB04 revenue codes are retained in the MarketScan data when available; however, not all data contributors provide the codes on adjudicated claims.

Outpatient Services table (O)

The Outpatient Services Table contains encounters and claims for services that were rendered in a doctor's office, hospital outpatient facility, emergency department, or other outpatient facility. A small percentage of claims in this table may represent inpatient services, because the claim was not incorporated into an inpatient admission (for example, no room and board charge was found). These claims generally have an "inpatient" Place of Service (STDPLAC) code.

Outpatient Pharmaceutical Claims table (D)

Outpatient pharmaceutical claims data are available for a large portion of the individuals represented in the medical/surgical and populations tables. The outpatient pharmaceutical data are linked by ENROLID to the medical/surgical data. Each record represents either a mail-order or retail program prescription drug claim.

Note: Before you begin your analysis, carefully determine which data sources (for example, medical/surgical, outpatient pharmaceutical, enrollment) will be necessary to support your analytic plan. If you require more than one of these data sources, it first may be necessary to use the various cohort flags to determine which data contributors or plans have the required data. These are found through the Cohort Drug (RX) indicator, Mental Health and Substance Abuse Coverage (MHSACOVG), and/or Enrollee ID Derivation Flag (EIDFLAG) and Enrollment Flag (ENRFLAG) variables.

Enrollment tables (A, T)

The Enrollment tables contain person-level enrollment records with demographic and plan information on users and nonusers of services contained in the MarketScan CCAE and Medicare Supplemental Databases.

The Annual Enrollment Summary Table contains a single record per person per year. The annual summary contains monthly arrays of certain variables such as indicators of enrollment (yes/no), days enrolled, data type, and plan type in each month during the year. There also are variables indicating the number of months during the year with enrollment and the total annual enrollment days.

The Enrollment Detail Table contains one record per person per month of enrollment for an individual enrollee regardless of whether any demographic values have changed from the previous month.

If you need to track changes in variables such as the RX indicator or Geographic Location of Employee (EGEOLOC), use the Enrollment Detail Table.

Beginning with the 2001 data, all data contributors submit person-level enrollment information. When using MarketScan Database releases prior to 2001, the ENRFLAG variable allows the user to select only claims supported by person-level enrollment. When ENRFLAG=1, it indicates that person-level enrollment information is available for that data contributor.

Records where ENROLID Is missing

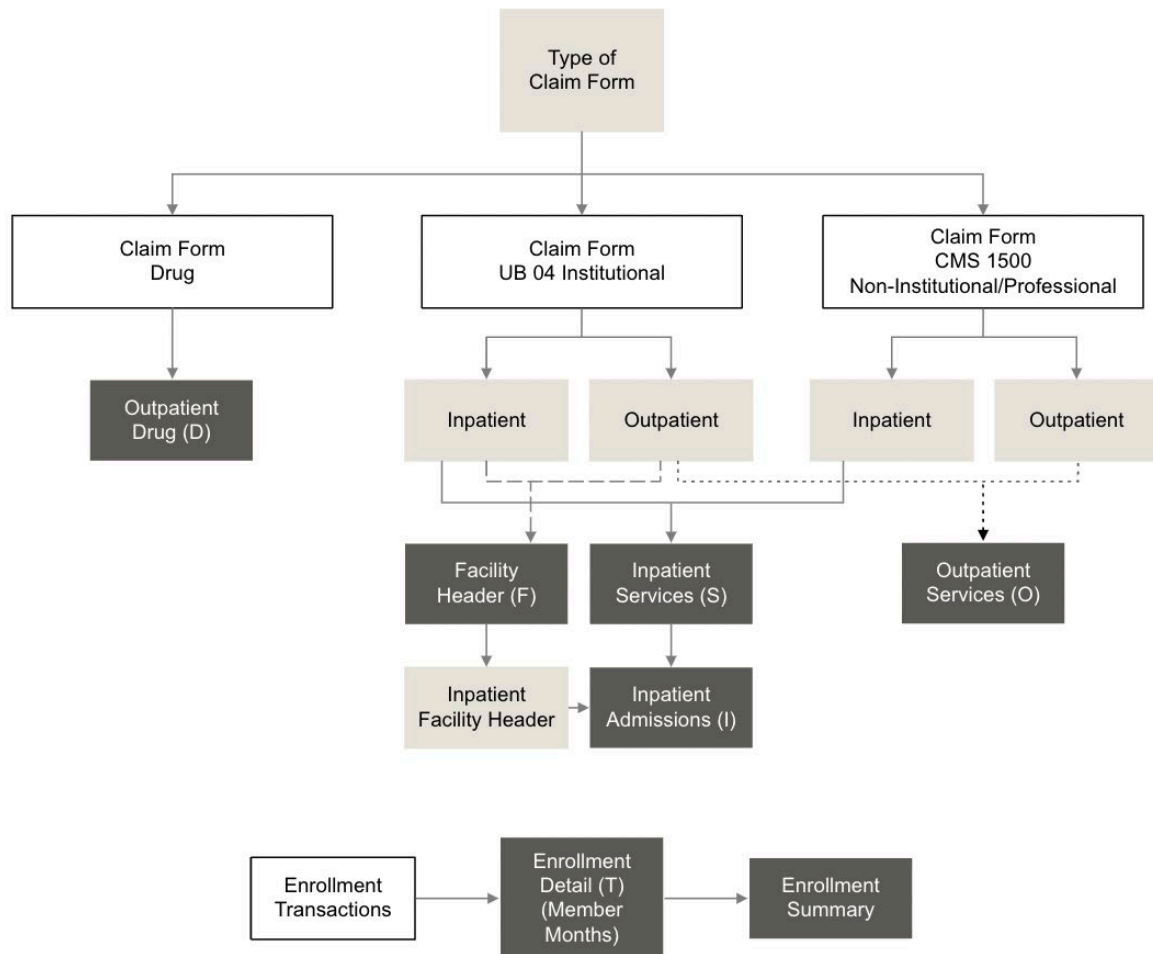
There may be records in which ENRFLAG=1 but the Enrollee ID (ENROLID) is missing. This occurs in less than 1 percent of records. Individual claim records from a data contributor may not have these identifiers assigned if certain key variables are missing (see [Person-Level Identifiers](#)). These records may be excluded from analysis, depending on the needs of your study.

Member Days (MEMDAYS)

When obtaining an underlying population or covered life count, evaluate the Date Enrollment Start (DTSTART) and Date Enrollment End (DTEND) data before summing Member Days (MEMDAYS). If a time-based subset or study period is required, the DTSTART and DTEND may be outside the beginning and ending dates of the subset criteria. If so, adjust the DTSTART and DTEND to match the study period and recalculate the member days before calculating an enrollee count.

For example, a record may have DTSTART and DTEND of 1/1/2022 and 1/31/2022, respectively. The MEMDAYS variable on this record is 31 days. If the study period of data begins on 1/15/2022, the DTSTART should be reset to reflect the 1/15/2022 beginning date and MEMDAYS should be recalculated to 16 days ($\text{MEMDAYS} = \text{DTEND} - \text{DTSTART} + 1$).

Exhibit 2. Data flow diagram



Abbreviations: CMS, Centers for Medicare & Medicaid Services; UB, Uniform Billing.

Overview of encounter records

Encounter records represent the service use and cost of individuals in partially and fully capitated plans and allow for the empirical investigation of healthcare under a variety of managed care arrangements.

Historically, not all fully or partially capitated health plans have maintained rigorous cost and utilization data collection systems. Many managed care services are prepaid in fixed sums for each member, which minimizes the need for administrative systems to collect financial encounter information at the time of service delivery. Therefore, unlike indemnity plans (which adjudicate claims for reimbursement), certain types of managed care plans do not process claims for the purpose of financial reporting. For these plans, service delivery information is disconnected from charge and payment information. Instead of generating a claim for reimbursement of prepaid capitated services, a managed care plan generates an encounter record.

An encounter record provides demographic information about the patient, provider characteristics, and diagnosis and procedure codes; however, in many instances it provides only limited financial information. This presents a certain challenge when using encounter records to analyze healthcare costs.

The challenge involves the correct measurement of reimbursement for capitated managed care plans. Many encounter records contain a Payment (PAY) amount of \$1 or \$0 for capitated services. The prepaid capitation amounts, whether in the form of per member per month fees or bulk capitation payments, were not contributed by the managed care plans represented in this database. However, managed care plans are beginning to enhance encounter records with fee-for-service-equivalent financial amounts. These amounts are intended to be approximate values for reasonable and customary charges or payments for medical services or procedures. For more information, see [Financial Variables](#).

The implementation of fee-for-service-equivalent financial amounts is in its early stages; as a result, financial variables are potentially understated. Financial measures derived from encounter records should be interpreted with caution, with the exception of Copayment (COPAY), Deductible (DEDUCT), and Coordination of Benefits and Other Savings (COB) amounts—all of which are recorded with reasonable accuracy.

In constructing the MarketScan Research Databases, encounter records are rigorously tested by overall plan-by-plan utilization rates to ensure that plans appearing to submit incomplete data are excluded.

Financial variables

Merative receives paid claims from approximately 350 data sources. Financial variables are defined consistently across all data contributors. Exhibit 3 contains an example of a financial variable calculation.

Exhibit 3. Example of a Merative financial variable calculation

Charge Types ¹	Amount, \$
Submitted charges	1,200.00
Charges not covered	–100.00
Eligible charges	1,100.00
Price reductions	–100.00

Description	Data Element	Amount, \$
Gross covered payments	Gross Covered Payments (PAY)	1,000.00
Remaining deductible	Deductible (DEDUCT)	–100.00
Coinsurance at 20 percent	Coinsurance (COINS)	–180.00
Penalty for no precertification	Coordination of Benefits and Other Savings (COB)	–270.00
Net payments	Net Payments (NETPAY)	450.00

¹ Charge types are not standard MarketScan variables.

The definitions in Exhibit 4 apply to all MarketScan Research Databases. The definitions apply to the capitated encounter data, even though some of the financial variables are set to zero (0) or one (1), because encounter records may not contain fee-for-service charge and payment equivalents.

Exhibit 4. Definitions of medical/surgical financial variables

Term	Definition ²	MarketScan Variable	Table
Total Payment	Total gross payment to all providers associated with the admission	Payments, Total Case (TOTPAY)	I
Payment	Total gross payment to a provider for a specific service; that is, the amount eligible for payment after applying pricing guidelines such as fee schedules and discounts and before applying deductibles, copayments, and coordination of benefits	Payment (PAY)	S,O,D

² These variables are formatted in dollars and cents.

Term	Definition ²	MarketScan Variable	Table
Deductible	Amount of gross covered payments applied toward the deductible	Deductible, Total Case (TOTDED)	I
		Deductible (DEDUCT)	F,S,O,D
Coinsurance/ Copayment	Amount of coinsurance applied toward the stop loss and/or amount of copayment	Copayment, Total Case (TOTCOPAY)	I
		Coinsurance, Total Case (TOTCOINS)	I
		Copayment (COPAY)	F,S,O,D
		Coinsurance (COINS)	F,S,O,D
Net Payment	Payment received by the provider excluding patient out-of-pocket and coordination of benefits (that is, employer or plan liability)	Payments, Net (NETPAY)	F,S,O,D

Term	Definition ²	MarketScan Variable	Table
Total Net Payment	Total net payment to all providers associated with the admission (that is, sum of service-level net) payments	Payments, Net Case (TOTNET)	I
Hospital Payments	Total gross payments to the hospital for an admission	Payments, Hospital (HOSPPAY)	I
Physician Payment	Total gross payments to the principal physician (that is, the professional who charges the most during the admission) ³	Payments, Physician (PHYSPAY)	I
Hospital Net Payment	Payment received by the hospital for an admission excluding patient out-of-pocket and coordination of benefits (that is, employer or plan liability)	Net Payment, Hospital (HOSPNET)	I

³ Payments to physicians other than the principal physician are included in Payments Total Case (TOTPAY).

Term	Definition ²	MarketScan Variable	Table
Physician Net Payment	Payment received by the principal physician (that is, the professional who charges the most during the admission), excluding patient out-of-pocket and coordination of benefits (that is, employer or plan liability)	Net Payment Physician, (PHYSNET)	I
Third-Party Payment	Payment received by the provider from a source other than the patient or the submitting plan	Coordination of Benefits and Other Savings, Total Case (TOTCOB)	I
		COB and Other Savings (COB)	F,S,O,D

To protect business-confidential discount arrangements between our data contributors and their providers, information on submitted charges and allowed amounts are never licensed simultaneously on the same MarketScan dataset.

Starting in data year 2019, actual cost data became unavailable for a small subset (approximately 15 percent) of the population in the databases. For this part of the population, Merative offers imputed cost data for the annual releases. While use of imputed data is a common industry practice, we understand that, depending on a client's intended use for the data, including their objectives and specific study concepts and researcher preferences, the addition of some imputed data may not be a preferred solution. Hence, Merative offers clients for 2019 datasets and beyond a choice between one of the two datasets:

→ **Set A (Exhibit 5)**

100 percent of the population, NETPAY only, and/or Imputed. This dataset does not contain an imputation flag to protect the privacy of patients as well as the privacy of our data contributors and suppliers. The methodology used for the imputed cost data is a combination of hotdecking and stochastic regression.

→ **Set B (Exhibit 6)**

Approximately 85 percent of the population, actual cost data only

Exhibit 5. Set A: 100 percent of the population

Schedule	Data	
Annual releases	Actual cost data	Actual cost data where available, imputed remainder ^{a4}
Quarterly updates	Actual cost data	Actual cost data for net payments, Null for other financial variables ⁵
Early View updates	Actual cost data	Actual cost data for net payments, Null for other financial variables

Exhibit 6. Set B: Approx. 85 percent of the population

Schedule	Data	
Annual releases	Actual cost data	Actual cost data
Quarterly updates	Actual cost data	Actual cost data
Early View updates	Actual cost data	Actual cost data

⁴ Actual cost data for financial variables of approximately 85 percent of the covered population, imputed cost data for the remainder. To protect the privacy of patients as well as the privacy of our data contributors and suppliers, this dataset does not contain any indication to distinguish claims with actual cost data from claims with imputed cost data.

⁵ Starting with the 2023 Quarterly Updates, Quarterly Updates may contain actual cost data where available, with imputed data for the remainder

Medical/Surgical financial variables

The following abbreviations indicate the tables on which the variable resides:

- I – Inpatient Admissions
- F – Facility Header
- S – Inpatient Services
- O – Outpatient Services
- D – Outpatient Pharmaceutical Claims

Prescription Drug Financial Variables

The Outpatient Pharmaceutical Claims Table contains the Payment (PAY), Copayment (COPAY), Coinsurance (COINS), Deductible (DEDUCT), and Coordination of Benefits and Other Savings (COB) variables, as previously described.

Financial variables specific to prescription drug claims are provided in Exhibit 7.

Exhibit 7. Definitions of outpatient pharmaceutical financial variables in Table D

Term	Definition ⁶	MarketScan Variable
Average Wholesale Price ⁷	The average wholesale price charged by wholesalers for the specific drug	Average Wholesale Price (AWP)
Administrative Dispensing Fee	Administrative fee charged by the pharmacy for dispensing the prescription	Dispensing Fee (DISPFEE)
Ingredient Cost	The cost or charge associated with the pharmaceutical product ⁸	Ingredient Cost (INGCOST)
Sales Tax	The amount of sales tax applied to the cost of the prescription ⁹	Sales Tax (SALETAX)

⁶ These variables are formatted in dollars and cents.

⁷ The Merative™ Micromedex® RED BOOK® Systems Licensed Content may be used only as a referential look-up tool and not for an automated claims processing system; use is for RED BOOK System Licensed Content only. The prices contained in the RED BOOK are based on data reported by manufacturers. Merative Micromedex® has not performed an independent analysis of the actual prices paid by wholesalers and providers in the marketplace. Thus, actual prices may vary from the prices contained in this database, and all prices are subject to change without notice. Further, Merative Micromedex does not warrant the accuracy of the database contents or the pricing information. Please refer to the Average Wholesale Price Policy in the RED BOOK product for more information.

⁸ The Ingredient Cost plus the Dispensing Fee and Sales Tax, if applicable, usually represents the entire cost of a prescription.

⁹ Calculation of the sales tax, if applicable, usually is based on the Ingredient Cost plus the Dispensing Fee.

Encounter record financial variables

Financial information is captured in a variety of ways for encounter claims. There may be times when a capitated claim has financial variables with amounts of zero because there is no associated paid claim. At other times, the copayment amount may be the only financial information on the claim. If a capitated claim does not include financial information, the financial variables are set to "0" or "1."

Medicare financial variables

Medicare supplemental claim records include paid claims for fee-for-service plans and contain all of the Payment (PAY), Deductible (DEDUCT), Copayment (COPAY), Coinsurance (COINS), Coordination of Benefits and Other Savings (COB), and NETPAY (Payments Net) variables, as previously described. In 1998, Medicare Supplemental encounter records were added to the Medicare Database (please refer to the Encounter Record Financial Variables paragraph above). The Medicare paid amount is reflected in the COB variable, so the majority of the breakdown of PAY will be captured in COB for the medical claims. The Medicare supplemental payments made by the employer will be captured in the NETPAY variable.

Because outpatient prescription drugs generally are covered by the employer rather than by Medicare, the majority of PAY will be captured in the NETPAY variable for outpatient pharmaceutical claims in the Medicare Database.

Within the MarketScan Medicare Database, the Advantage enrollees and the Supplemental enrollees have the same information describing patient demographics and medical/pharmacy claims-level detail. They also have the same variables describing the financial fields. There is also a series of monthly flags to distinguish between plan types corresponding to monthly enrollment indicators. From both the Medicare Supplemental and Advantage insurance standpoint, the Coordination of Benefits (COB) variable represents Medicare paid amounts for fully adjudicated claims and the Net Payment variable represents payment rendered by the primary payer. The COB value for Advantage enrollees will typically be near or at \$0 while corresponding net payment amounts will be relatively higher for Medicare Advantage versus Supplemental claims.

Note: Advantage insurers receive a monthly payment from Medicare for each patient covered. This capitated payment is not reflected in MarketScan, since the database is from the employer perspective and payments reflect amounts paid for medical and pharmacy claims.

Adjustment records

Some claims have negative amounts in payment or other financial variables. These are adjustment records that claims processors entered to correct a payment error or any type of coding error.

Resolution of adjustments combines the financial variables on the original record with the financial variables on the adjustment. No information is lost when one is resolving adjustment records. The sum total of the financial variables remains the same. However, instead of reading across multiple records to understand the services rendered, resolution of adjustments creates a single service-level record. Adjustment records are resolved on both the Outpatient Services Table and the Outpatient Pharmaceutical Claims Table. Adjustment records are not resolved on the Inpatient Services Table.

There are two methods claims processors typically use for entering adjustment records: the adjustment method and the void and replace method.

The Adjustment Method allows the entry of a new claim that exactly duplicates all correct variables on the erroneous claim, including the date of service. If the financial information is incorrect, an adjusted dollar amount is entered in the appropriate financial variable(s) (for example, PAY), and all other financial variables are \$0. If a nonfinancial variable is incorrect, the data in the appropriate variable (for example, DX1) are corrected and all financial variables are \$0 on the adjustment record. This way, the sum of the financial variables of the erroneous claim and the adjustment claim equals the correct financial amounts. Under this method, therefore, two records represent a single transaction. An example is provided in Exhibit 8.

To resolve the adjustment, the MarketScan Database build process matches the adjustment with the original record, with the requirement that certain nonfinancial variables are exactly the same on both records. The financial information on the two records is summed, creating one resulting record.

Exhibit 8. Example of the Adjustment Method

Record Type	ENROLID	SVCDATE	DX1	PAY	NETPAY
Original	9876501	20220630	12345	100	70
Adjustment	9876501	20220630	12345	-20	0
Resulting	9876501	20220630	12345	80	70

The Void and Replace Method allows entry of a new claim that exactly duplicates all variables from the erroneous claim, except that the financial variables are entered as negative numbers. In this way, the original erroneous claim is fully voided, and the claim is re-entered with complete correct data in each variable. Under this method, three records are present to represent a single transaction. An example is provided in Exhibit 9.

To resolve the adjustment, the MarketScan Database build process matches the void record with the original record, provided certain nonfinancial information is exactly the same on both records and the financial information on the void record is the exact negative of the original record. The void and original records are dropped from the database, because all financial information on the combined record is zero. Only the replacement record remains.

Unresolved adjustments

Because strict matching criteria are required to resolve adjustments, some adjustment records remain unresolved; these account for less than 1 percent of the records in the MarketScan Outpatient Services Table. These records generally contain changes to a variable that normally would be used to match the original and adjustment records. For example, if the original Provider ID (PROVID) was incorrect and the adjustment record adjusted for that ID, the two records would not match because PROVID is a key variable. Both records would remain. When performing person-level analysis or broader levels of analysis, for example, geographic region, all claims should be included.

Exhibit 9. Example of the Void and Replace Method

Record Type	ENROLID	SVCDATE	DX1	PAY	NETPAYY
Original	9876501	20220630	12345	100	70
Void	9876501	20220630	12345	-100	-70
Replacement	9876501	20220630	12345	80	70
Resulting	9876501	20220630	12345	80	70

Person-level identifiers

Enrollee identifiers

One of the major strengths of the MarketScan Databases is the ability to track patients and families longitudinally. The unique person-level identifier is consistent across an individual's enrollment, medical, and drug records, even as the individual moves from the Commercial Database to the Medicare Database.

The enrollee identifier (ENROLID) is assigned using the data contributor, an encrypted employee identifier (usually an encrypted contract identifier), the relationship of the enrollee to the contract holder, the sex of the enrollee, and the enrollee's date of birth or birth year and month.

Enrollee identifiers prior to 2001

Beginning in 2001, all MarketScan contributors submitted person-level enrollment information. For data prior to 2001, enrollee identifiers were derived from all data contributors and are not limited to those submitting person-level enrollment data. The methodology used to assign ENROLID differs, depending on the level of information available from a particular data contributor.

MarketScan data contributors fall into three categories with respect to the level of information available on claims data for assigning ENROLID:

- Contributors submitting person-level enrollment data and also reporting patient date of birth
- Contributors not submitting person-level enrollment data but reporting patient date of birth
- Contributors not submitting person-level enrollment data or patient date of birth but reporting patient age

Type 1 data contributors submit sufficient information on enrollment records to differentiate individuals and accurately assign enrollee identifiers. For Type 2 and Type 3 data contributors, enrollee identifiers cannot be assigned using enrollment data; therefore, elements found in the claims data become the basis for assigning enrollee identifiers.

For Type 2 data contributors, ENROLID assignment is derived from claims data using the same set of variables as Type 1 data contributors, but the data source is the claim rather than a person-level eligibility record.

For Type 3 data contributors, ENROLID is assigned by using the patient age provided on the claim to derive the year of birth. Because the date of birth is an approximation for Type 3 contributors, it is impossible to distinguish between same-sex siblings born within a year of each other.

The Enrollee ID Derivation Flag (EIDFLAG) describes which of these three methodologies was used to assign the enrollee identifier. See Exhibits 10a and 10b for a summary of the flag contributors.

- EIDFLAG=1 indicates that the data contributor supplied person-level enrollment data (ENRFLAG=1) and that an individual's enrollment record was used to assign ENROLID.
- EIDFLAG=2 indicates that the data contributor supplied enrollment data (ENRFLAG=1) but the variables used to assign ENROLID on a claim did not link to a single person record in the Enrollment data. Claim information was used to assign ENROLID.
- EIDFLAG=3 indicates that the data contributor supplied enrollment data (ENRFLAG=1) but one or more of the variables needed to identify an individual was missing from the claims record (that is, the claim was missing enrollee relationship to contract holder, sex, or patient date of birth). ENROLID is set to missing.
- EIDFLAG=4 indicates that the data contributor did not supply person-level enrollment data (ENRFLAG=0) and enrollee identifiers were assigned using claim information.
- EIDFLAG=5 indicates that data contributor did not supply person-level enrollment data (ENRFLAG=0) and one or more of the variables needed to identify an individual was missing (that is, the claim was missing enrollee relationship to contract holder, sex, or patient date of birth). ENROLID is set to missing.
- EIDFLAG=6 indicates that the data contributor did not supply person-level enrollment data (ENRFLAG=0) and did not supply patient date of birth on the claim. A "pseudo" ENROLID was assigned on the basis of information derived from the medical claim.

Enrollee ID derivation flag (EIDFLAG)

Exhibit 10a. Enrollment Data Contributors (ENRFLAG=1)

EIDFLAG=1	EIDFLAG=2	EIDFLAG=3
Enrollment	Claim	Claim
ENROLID Present	ENROLID Present	ENROLID Missing

Exhibit 10b. Nonenrollment Data Contributors (ENRFLAG=0)

EIDFLAG=4	EIDFLAG=5	EIDFLAG=6*
Claim	Claim	Claim
ENROLID Present	ENROLID Missing	ENROLID

* A “pseudo” ENROLID is assigned and may be indistinct.

Clinical variables

Diagnosis codes in MarketScan data use the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) classification system for service dates on or before September 30, 2015. For service dates starting October 1, 2015, the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) classification system is used. A Diagnosis Version field (DXVER) is included in the data to indicate which coding system is in use. Note that it is possible for one string to be valid in both systems.

ICD-9-CM diagnosis codes are three to five digits in length. The first character can be alphanumeric (0–9, E or V); characters two through five are numeric or blank. There are approximately 15,800 valid ICD-9-CM codes. In MarketScan data, the decimal point is implied between the third and fourth digit of the code. The data are left justified. Examples are provided in Exhibit 11a.

Exhibit 11a. Examples of ICD-9-CM diagnosis codes

ICD-9-CM	MarketScan Data Value
390	390 (followed by 2 spaces)
012.1	0121 (followed by 1 space)
223.89	22389

ICD-10-CM diagnosis codes are three to seven digits in length. The first character can be alphanumeric, the second character is numeric, the third character is alphanumeric, and the fourth through seventh characters are alphanumeric or blank. There are approximately 70,000 valid ICD-10-CM codes. In MarketScan data, the decimal point is implied between the third and fourth digit of the code. The data are left justified. Examples are provided in Exhibit 11b.

Exhibit 11b. Examples of ICD-10-CM diagnosis codes

ICD-10-CM	MarketScan Data Value
E02	E02 (followed by 4 spaces)
M86.9	M869 (followed by 3 spaces)
C72.20	C7220 (followed by 2 spaces)
B08.010	B08010 (followed by 1 space)
W00.9XXA	W009XXA

Up to four diagnosis codes (DX1, DX2, DX3, DX4) are recorded on every Inpatient Service record. The principal diagnosis on the Inpatient Admissions Table generally is identified as the discharge diagnosis on a hospital claim. Up to 14 secondary diagnosis codes (DX2 through DX15) from individual Inpatient Service records are included on the corresponding Inpatient Admission record. Up to four diagnosis codes (DX1, DX2, DX3, DX4) are recorded on each Outpatient Service record. Up to nine diagnosis codes (DX1 through DX9) are recorded on each Facility Header record.

Procedure codes in MarketScan data are three to seven positions in length, depending on the classification system used. The Current Procedural Terminology, 4th Edition^{10 11}, (CPT®-4) coding system is most prevalent. CPT-4 procedure codes appear on physician claims and many outpatient facility claims. CPT-4 codes are five-digit numeric codes.

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¹¹ Fee schedules, relative value units, conversion factors, and related components are not assigned by the AMA and are not part of CPT; the AMA is not recommending their use. The AMA does not directly or indirectly practice medicine or dispense medical services. The AMA assumes no liability for data contained or not contained herein.

ICD-9-CM procedure codes or International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes are found on facility claims. These codes are three to four digits in length and are all numeric. There is an implied decimal point between the second and third digits for ICD-9-CM procedure codes; there is no decimal point in ICD-10-PCS procedure codes. Examples are provided in Exhibit 12.

Exhibit 12. Examples of ICD-9-CM and ICD-10-PCS procedure codes

ICD-9-CM, ICD-10-PCS	MarketScan Data Value
13.9	139 (followed by 4 spaces)
13.19	1319 (followed by 3 spaces)
001U3J7	001U3J7

Effective with the 2000 data year, the MarketScan Databases contain CPT-4 procedure code modifiers for some data contributors (see related references in footnotes on previous page).

The CMS Healthcare Common Procedural Coding System (HCPCS) procedure codes are found in MarketScan data less often than CPT and ICD procedure codes. These codes are five digits in length. The first character is alpha; all other characters are numeric. HCPCS codes beginning with “J” are included in the MarketScan Databases and represent injectable drugs.

One procedure code (PROC1) is stored on each Inpatient Service record. From the individual Inpatient Services constituting one Inpatient Admission record, one procedure code is identified and assigned as the principal procedure (PPROC). Up to 14 secondary procedure codes (PROC2 through PROC15) from individual Inpatient Service records are included on the corresponding Inpatient Admission record. One procedure code (PROC1) is included on each Outpatient Service record. Up to six procedure codes (PROC1 through PROC6) are included on each Facility Header record. Most procedure codes on the Facility Header Table use the ICD-9-CM or ICD-10-PCS procedure coding systems.

The variable Procedure Code Type (PROCTYP) identifies the type of procedure code (for example, HCPCS, CPT-4). Use this variable in conjunction with the Procedure Code 1 (PROC1) variables on the Inpatient Service and Outpatient Service records to designate the coding system of interest.

The quality of diagnosis and procedure coding varies among the approximately 350 payers or administrators represented in the MarketScan Databases. Every effort is made to select the data contributors with the best coding. The diagnosis and procedure codes are validated and edited, if necessary. (See [Frequently Asked Questions](#), Q12 for a detailed description of validation and editing.)

Any old codes submitted by data contributors are retained in the MarketScan data and reflect their original definition.

Note: When defining a diagnosis or procedure of interest, first run a frequency distribution in the range of interest. For example, analyze the frequency of 53x.xx (ICD-9-CM), K25.xxxx (ICD-10-CM) diagnosis codes for patients with stomach ulcers. Analyze the coding practices, and then create the criteria for diagnosis and procedure selection.

MarketScan database construction

The Merative MarketScan Research Databases are constructed from privately insured, paid medical and prescription drug claims. The data contributors generally are self-insured. Collectively, the databases incorporate data from almost 350 payers, including commercial insurance companies, Blue Cross® Blue Shield® plans, and third-party administrators.

Each contributor database is constructed by collecting raw data from the appropriate payer(s). These raw data are service-level adjudicated paid claims and capitated encounters containing both inpatient and outpatient services. Financial, clinical, and demographic variables are standardized to common definitions, and variables specific to employers also are added. Clinical detail is added to the Outpatient Pharmaceutical Claims Table. Examples of such detail include therapeutic class, therapeutic group, manufacturer's average wholesale price, and a generic product identifier.

Merative then applies an admission construction methodology to assemble the inpatient paid services into one record per inpatient admission. During the admission creation process, variables such as Primary Diagnosis (PDX) are created and included on both the inpatient admission record and the inpatient service record.

Data quality

Edits on the reasonableness of data check the distribution of categorical fields to ensure that they are reasonable against norms. Validity checks are conducted for selected fields, including diagnosis codes, procedure codes, date(s) of service, sex, and age, to compare recorded values with lists of possible valid values for those fields. Improper coding is flagged to recommend data quality improvement actions to the carrier or data processor.

The MarketScan Databases are created by combining the standard variables of the individual databases (data contributors) and by creating links between years of data and across all data types. The MarketScan Databases are created as a snapshot in time and are based on a calendar-year incurred period. The MarketScan data flow is depicted in Exhibit 13.

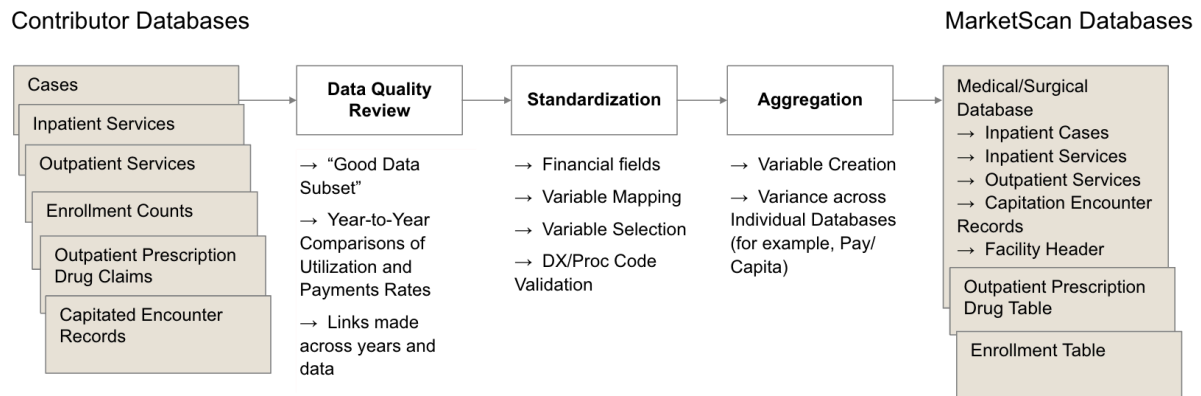
Claims lag periods (the amount of time between the date of service on the claim and the date payment is made) vary considerably across the insurance carriers in the MarketScan Databases. Because of this, the data are collected when close to 100 percent of claims have been paid, which takes about 6 months after year end.

Additional enhancements to the data during the MarketScan Database creation process include the following:

- Comparing and validating diagnosis and procedure codes to codes that were in effect at that time
- Adding the Metropolitan Statistical Area (MSA) of the primary beneficiary to claims
- Integrating benefit plan characteristics, enrollment, outpatient pharmaceutical claims, and medical/surgical data
- Adding MDCs and DRGs to claims
- Creating a common synthetic patient identifier, which enables a patient to be tracked over years across medical/surgical, outpatient, pharmaceutical, enrollment, and benefit plan files and across databases (for example, Commercial Database and Medicare Database) while ensuring patient confidentiality
- Identifying the type of plan for the patient, such as preferred provider organization (PPO), point-of-service (POS) plan, or comprehensive plan
- Verifying that both the experience and the denominator populations exist for all subsets of the data
- Standardizing place, service type, and provider type values and industry classifications

Note: Data are not edited for concordance between diagnosis and procedure codes or demographic variables such as sex.

Exhibit 13. MarketScan data flow chart



Abbreviation: DX/Proc, diagnosis/procedure.

Plan type definitions

The plan types in the MarketScan Databases are based on the definitions provided in Exhibit 14. The summary grid identifies the basic differences between plan types.

Exhibit 14. Type of Plan (PLANTYP)

Definition Number and Plan Type	Patient Incentive to Use Certain Providers?	PCP Assigned?	Referrals From PCP to Specialists Required?	Out-of-Network Services Covered?	Partially or Fully Capitated?
1. B/MM	No	No	n/a	n/a	No
2. COMP	No	No	n/a	n/a	No
3. EPO	Yes	Yes	Yes	No	No
4. HMO	Yes	Yes	Yes	No	Yes
5. Non-Cap POS	Yes	Yes	Yes	Yes	No
6. PPO	Yes	No	n/a	Yes	No
7. Cap or Part Cap POS	Yes	Yes	Yes	Yes	Yes

Definition Number and Plan Type	Patient Incentive to Use Certain Providers?	PCP Assigned?	Referrals From PCP to Specialists Required?	Out-of-Network Services Covered?	Partially or Fully Capitated?
8. CDHP	Varies	No	n/a	Varies	No
9. HDHP	Varies	No	n/a	Varies	No

Abbreviations: n/a, not applicable; PCP, primary care physician. Plan type abbreviations are defined below.

Plan type

This section describes the plan types in the MarketScan Databases.

1. Basic/ Major Medical Plan

There is no incentive for the patient to use a specific list of providers. Coverage is handled in two phases: a basic policy covers the first set of charges—usually a hospital admission—with no out-of-pocket charge. After the basic policy will no longer pay, a major medical policy assumes coverage, usually with a deductible and coinsurance.

2. Comprehensive Plan

There is no incentive for the patient to use a specific list of providers. Coverage is handled by only one policy with a deductible and coinsurance.

3. Exclusive Provider Organization Plan

Patients must choose from an approved list of providers for all nonemergency care. Each patient chooses a primary care physician (PCP) to manage all care. Referral from the PCP is required for treatment by specialists. The plan does not pay for services on a capitated basis.

4. Health Maintenance Organization Plan

Patients must choose from an approved list of providers for all nonemergency care. Each patient chooses a PCP to manage all care. Referral from the PCP is required for treatment by specialists. All or some services are paid by the plan on a capitated basis.

5. Non-Capitated (Non-Cap) Point-of-Service Plan

Patients are offered financial incentives through a lower copay or deductible to use an approved list of providers. Each patient chooses a PCP to manage all care. Referral from the PCP is required for treatment by specialists. No services are capitated, and patients may seek treatment outside the network, usually with a financial penalty.

6. Preferred Provider Organization Plan

Patients have financial incentives, such as a lower copay or deductible, to use an approved list of providers. A PCP is not required, and specialist referrals are not necessary. No services are capitated. Patients may seek treatment outside the network, usually with a financial penalty. The financial incentives may be offered only through discounted rates within the network.

7. Capitated (Cap) or Partially Capitated (Part Cap) Point-of-Service Plan

Patients are offered financial incentives to use an approved list of providers through a lower copay or deductible. Each patient chooses a PCP to manage all care. Referral from the PCP is required for treatment by specialists. All or some services are paid on a capitated basis. Patients may seek treatment outside the network, usually with a financial penalty.

8. Consumer-Driven Health Plan

A consumer-driven health plan (CDHP) is a PPO plan coupled with a Health Reimbursement Arrangement (HRA). The PPO plan typically has a relatively high deductible but may carve drugs in or out of the HRA and plan deductible. The HRA is a notional account that is paid 100 percent from employer funds; an HRA is not prefunded with employer monies.

9. High-Deductible Health Plan

A high-deductible health plan (HDHP) is a statutory HDHP (as defined in the Medicare Modernization Act of 2003) that is coupled with a health savings account (HSA). An employee is vesting 100 percent in HSA funds, and either the employer or employee can contribute to the HSA. The HSA is a tax-advantaged, portable savings account owned by the employee. HDHP plan design features such as deductibles and contribution limits are indexed each year by the Treasury Department. An HDHP must conform to the statutory plan design requirements in order to use an HSA to defray HDHP costs.

Key table and field relationships

Although the databases in their native format are not truly normalized, several key fields are used to relate tables to each other. These relationships are described below.

1. ENROLID

Related tables: Inpatient Admissions (I), Inpatient Services (S), Outpatient Services (O), Prescription Drugs (D), Facility Header (F), Annual Enrollment Summary (A), Enrollment Detail (T)

Relationship: Unique on A; not unique on I, S, O, D, F, or T.

Function: This is the unique enrollee identifier across all MarketScan data products. The Annual Enrollment Summary (A) Table provides one record per enrollee for the entire year, so ENROLID will be unique on this table. The Enrollment Detail Table (T) provides one record per enrollee per enrolled month, so one ENROLID can appear on as many records in the T table as the number of months an individual was enrolled. ENROLID can appear multiple times (or not at all, if a person did not receive any services) in the medical and pharmacy claims files.

2. CASEID

Related tables: Inpatient Admissions (I), Inpatient Services (S), Facility Header (F)

Relationship: Unique on I; not unique on S or F.

Function: This field is a unique identifier for each inpatient admission in the data. The Inpatient Admissions (I) Table is structured as one record per inpatient admission, so CASEID values will be unique on the I Table. The individual detail service records that comprise all services that make up an admission are stored in the Inpatient Services (S) Table, and all of these individual services will have the corresponding CASEID value.

CASEID also appears on the Facility Header (F) Table, where applicable.

The CASEID value for a specific admission will not necessarily remain the same between different versions of the same database. Blending database versions is not recommended.

3. FACHDID

Related tables: Facility Header (F), Inpatient Services (S), Outpatient Claims (O)

Relationship: Unique on F; not unique on S or O.

Function: This field is a unique identifier for a Facility Header claim. It is the header information from one UB04 Facility claim form. The related detail information from each facility claim form is found in either the Inpatient Services (S) or Outpatient Claims (O) Table, depending on the site of service (inpatient or outpatient). FACHDID is unique on the F Table. It links to the many detail line services found in either the S or the O Table.

Note: Some of our data suppliers create an artificial, universal one-to-one relationship between header and detail (that is, every facility header record from those data suppliers has exactly one associated detail row).

The FACHDID value for a given claim header will not necessarily remain the same between different versions of the same database. Blending database versions is not recommended.

4. NDCNUM

Related tables: Prescription Drug (D), RED BOOK (R)

Relationship: Unique on R; not unique on D.

Function: The RED BOOK Table is a supplemental table that provides additional information about prescription drugs (for example, generic name, manufacturer, therapeutic class). Drugs are listed in this file by National Drug Code. The code is linkable to the Prescription Drug Claims (D) Table, so that selection of drug claims may be made by the categorical fields included in the RED BOOK.

Glossary of acronyms, abbreviations, and terms

Acute care

- (1) Services within a hospital setting intended to provide patients with medical and surgical care over a relatively short period of time.
- (2) A hospital that provides short-term medical and surgical care.

Adjudication

The process of claims review by the carrier to determine whether the claims should be paid and, if so, how much money should be paid for each claim.

Adjustment records

Claims in some databases that represent financial adjustments to original claims. The dollar amounts of these adjustments may be negative, or the record may include an adjustment indicator that shows whether the adjustment is positive or negative. There also are specific terms that refer to adjustments as we receive them from carriers. A bulk adjustment is a single quarterly or annual adjustment for a hospital discount (not typically loaded on the database). A void adjustment is a record that simply cancels an earlier claim record. A replacement claim record usually follows it. A void and replace adjustment is a single record that stores both the cancellations of the earlier claim and the new claim. An adjustment to net pay just shows the difference between the original net pay amount and what the carrier actually paid.

Administrator

Person or firm that pays claims under an Administrative Services Only (ASO) contract—also known as a third-party administrator.

Admission

An acute inpatient hospital stay covered by the patient's benefit plan. To the extent that such care is covered, admissions may include hospital stays, psychiatric stays, psychiatric night care, and stays for alcoholism, substance abuse, and rehabilitative care. An admission also may be called a case or a stay.

Admission date

The date a patient begins a stay in a hospital or other overnight healthcare facility.

Ambulatory care

Medical services provided on an outpatient (nonhospitalized) basis. Services may include diagnosis, treatment, surgery, and rehabilitation.

Ambulatory surgery

Surgery for which there is no overnight stay in a hospital. The patient comes into and out of the hospital on the same day.

Annualization

A statistical technique for estimating a yearly rate using data collected over a shorter time period (for example, a quarter or month) or over a longer time period (for example, 30 months).

Average length of stay (ALOS)

The average number of days per hospital admission for a group of admissions. Analysts typically examine the ALOS for a single MDC or DRG at a given employee location or other variable and compare it with a norm, another location, or other measure. See **length of stay**.

Benefit

Conventionally defined as the amount payable for a loss under a specific insurance coverage (indemnity benefits) or as the guarantee that certain services will be paid.

Business coalitions

Groups of employers, which may or may not include health plans, that seek to control healthcare costs and ensure quality by aggressively regulating prices, assuming administrative tasks related to healthcare, and/or asking health plans to develop and provide data on measures of quality and outcomes.

Capitation

- (1) A predetermined amount prepaid to a provider for a specific group of services that are defined in the contract, usually in a health maintenance organization (HMO) arrangement. The provider is paid on the basis of the number of members who have selected him or her as their primary care physician (PCP).
- (2) A fixed, predetermined amount paid to a provider for each member who has elected to seek care from that provider. Total payment to the provider (sum of per

person enrolled payment amount) is based on the number of people who enroll without regard to the actual number or nature of services provided to members. This is the characteristic payment method for primary care in HMOs.

Carrier

The party to the group contract that agrees to underwrite and provide certain types of coverage and service. Examples are commercial insurers (for example, Aetna®, Metropolitan Insurance Services, Prudential) and Blue Cross Blue Shield.

Carve-out

A program that is separate from the primary group health plan and designed to provide a specialized type of care, such as mental health services. **Carve-out** also may describe a method of integrating Medicare with an employer's retiree health plan (making the employer plan excess or secondary), which tends to produce the lowest employer cost.

Case level

A variable that is found in the Inpatient Admissions Table. Case-level variables may be demographic variables that are the same for the entire case (for example, patient age and sex, employee ID number), clinical variables that refer to the case as a whole (for example, MDC, DRG), or financial variables that summarize all services for a case (for example, total payments). See **service level** for comparison.

Centers for Medicare & Medicaid Services (CMS)

- (1) A division within the U.S. Department of Health and Human Services (HHS). This division oversees all regulatory and financing activities for Medicare and Medicaid.
- (2) The portion of the federal government responsible for payment of Medicare. Prior to June 2001, CMS was named the Health Care Financing Administration (HCFA).

Charges

The amount patients or third-party payers are billed for care.

Claims data

Information that comes from provider claims to third-party payers. Claims data usually include personal patient-identification information, the services performed, and the amount paid by the patient. Claim forms generally are used by enrollees of standard indemnity plans (that is, fee-for-service plans).

Claims lag

- (1) This lag generally refers to the period between the date a healthcare service is incurred and the date the claim for that service is submitted to the administrator for payment.
- (2) The Merative definition is the period between the service date and the paid date on a claim. See **runoff**.

Coding

The handling process for the carrier's claims data. A **coding problem** indicates that the carrier has entered inaccurate or imprecise data into the claims record, has failed to fill in one or more data variables, or has failed to include one or more variables in the record extract.

Coinsurance

- (1) The percentage of a covered medical expense that a health plan or beneficiary must pay after a deductible is met.
- (2) A policy provision by which both the insured and the insurer share hospital and medical expenses in a specified ratio (commonly 20 percent to 80 percent), after the deductible is met. Coinsurance amounts are stored in the Merative variable COINS.

Completion factors

- (1) Factors that allow a quantitative measure of data completeness. These factors range in value between 0 (no data) and 100 (a full month of data) for services in any month. Completion factors are used to derive the number of months of data and an annualization factor for rate calculations. They also are used to derive weighted population averages.
- (2) A percentage that estimates how many of the cases that occurred in a given month are online in a client database. Completion factors of less than 100 percent are due to runoff or runup. The percentage of data missing for each month is used to annualize the cost and use rates for that month on clinical reports.

Comprehensive Omnibus Budget Reconciliation Act (COBRA)

- (1) A congressional act passed in 1985 that requires continuation of benefits to plan participants who previously would have been ineligible because of a qualifying event.
- (2) A program that gives employees who leave a firm the option of continuing their health coverage with that firm for a period of time. The employee pays the premium.

Coordination of benefits (COB)

(1) After one insurance carrier has paid a claim, the second carrier pays an amount that covers the patient up to the benefit level of the second policy only.

(2) COB coverage between carriers so that the insured does not receive double payment for services when a subscriber has coverage from two or more sources. An example is a husband and wife who work at different companies and choose to be covered by both employers' insurance. COB policies also establish primary and secondary payment responsibilities. (In the Merative system for older databases, the COB variable may represent dollars saved for reasons other than COB, such as penalties for noncompliance.)

Copay or copayments

(1) Copayments are generally a preset amount per covered visit or service (for example, \$10) paid by the patient.

(2) A fixed payment, paid by the patient, for a given service or procedure. This payment customarily is made at the time of service. Copayment amounts are stored in the Merative variable COPAY.

Cost sharing

Arrangements whereby consumers pay a portion of the cost of the health services, sharing costs with employers. Deductibles, copayments, coinsurance, and payroll deductions (premium contributions) are forms of cost sharing.

Cost shifting

Occurs when a provider inflates charges for a given procedure or patient in order to cover losses associated with charges (payments received) for other patients or procedures.

CPT or CPT-4 codes

Physicians' Current Procedural Terminology codes.

(1) Physicians' most commonly used coding scheme (five-digit codes) used to identify the medical or surgical procedure that occurred for a patient; most frequently used for billing by professionals. (It is often referred to as CPT-4, with **4** representing the fourth edition).

(2) A system developed by the American Medical Association used to classify procedures and services rendered by physicians. Physicians use the CMS 1500 form to describe services rendered to a patient and to request payment for those services. See ICD-9-CM, ICD-10-CM/PCS, HCPCS.

Deductible

The portion of a subscriber's healthcare expenses that must be paid out of pocket before any insurance coverage applies. Commonly \$100 to \$300. It is not allowed in federally qualified HMOs. The deductible usually must be met again each benefit year before the insurer will begin paying for benefits. The deductible amount is stored in the Merative variable DEDUCT.

Dependent

An insured individual's spouse or (in many policies) domestic partner and unmarried children who meet certain eligibility requirements and who are not otherwise insured under the same group policy. The precise definition of a dependent varies by insurer or employer.

Diagnosis (Dx)

The determination of the nature of a disease based on the medical symptoms of a patient; a concise technical classification of a health situation. The diagnosis helps determine necessary procedures.

Discount

Arrangement whereby a payer has negotiated a reduced payment with a provider in return for a patient incentive.

Eligible

A contract holder and his or her spouse and dependents who are enrolled in a benefit plan.

Encounter

- (1) A unit of measure denoting one patient-provider contact or appointment. Multiple services may be delivered during one encounter. Encounters can take place on an inpatient or outpatient basis.
- (2) A patient visit to a capitated provider; no fee-for-service payment.

Encounter record

A record of a patient encounter reflecting who visited a given provider and which services were provided. The form used to capture encounter data applies to non-fee-for-service arrangements (capitated).

Enrollees

Employees, contract holders, spouses, and dependents who are enrolled in a benefit plan (also known as **covered lives**).

Exclusions

Services or procedures that are not covered according to the plan provisions.

Exclusive provider organization (EPO)

A preferred provider organization (PPO) in which patients are required to use the PPO network providers.

Fee-for-service (FFS)

A method of payment based on reimbursing providers for each unit of service or treatment provided.

Fee-for-service equivalent (FFSE)

An amount specified on claims records representing what would have been charged for a service if the service had not been covered by a capitation arrangement.

Gatekeeper

- (1) The PCP responsible for managing medical treatment rendered to an enrollee of a health plan.
- (2) A designated healthcare practitioner who provides primary care services and coordinates specialist and other care for health plan members. Members typically are charged extra costs for care that is not provided or coordinated by the gatekeeper.

Grouper

Software that assigns claims to a common clinical grouping. In the MarketScan Databases, groupers are used to assign a DRG and MDC to each inpatient admission. The assignment is based on diagnosis and procedure coding received from the carrier (provided the diagnosis and procedure coding from the carrier is adequate).

Healthcare Common Procedure Coding System (HCPCS)

- (1) A procedure coding system that includes all CPT-4 codes plus supplemental codes not included in CPT-4 (for example, ambulance, chiropractic services).
- (2) One of several schemes used to classify healthcare activity. HCPCS was based on CPT-4 coding and expanded to include nonphysician provider procedures. The acronym is pronounced “hick-picks.” See **CPT-4, ICD-9-CM, ICD-10-CM/PCS**.

Health maintenance organization (HMO)

(1) An entity that accepts responsibility and financial risk for providing specified healthcare services to a defined population during a defined period of time at a fixed price. There generally is no coverage for non-emergency-department care panels of practitioners and providers.

(2) The Health Maintenance Act of 1973 (PL93-222) defines an HMO as a legal entity or organized system of healthcare that provides an agreed-upon set of comprehensive health services to a voluntarily enrolled population in exchange for a predetermined, fixed, and periodic payment. See **open-ended HMO**.

Hospital payments

Facility payments only.

Incurred but not reported (IBNR)

Claims for services that have been incurred but not yet paid by the carrier. See **claims lag**.

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)

A nationally uniform system for coding clinical conditions (diagnoses) that was used prior to October 1, 2015, by nearly all providers and claims payers. It also includes procedure coding used by hospitals. ICD-9-CM includes both diagnostic and procedure coding required by the Grouper to assign DRGs and MDCs. It is also known as I9. See **CPT-4, HCPCS, ICD-10-CM/PCS**.

International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS)

A nationally uniform system for coding clinical conditions (diagnoses), used effective October 1, 2015, by nearly all providers and claims payers. It also includes procedure coding used by hospitals. ICD-10-CM/PCS includes both diagnostic and procedure coding required by the Grouper to assign DRGs and MDCs. It is also known as I10. See **CPT-4, HCPCS, ICD-9-CM**.

Incurred date

The date on which the activity or service took place. See **paid date, claims lag, IBNR**.

Indemnity (traditional) insurance

- (1) A healthcare insurance plan designed to reimburse patients for losses due to healthcare costs; typically used to characterize fee-for-service payment plans.
- (2) The most common form of health insurance coverage in recent decades. The indemnity insurer usually administers claims and does not provide healthcare services. A typical coverage arrangement is 80 percent of a claim covered by the insurer and 20 percent covered by the patient or enrollee (also referred to as coinsurance). Indemnity plans typically also require that the covered person meet an annual deductible (for example, \$200) before the insurer will begin to pay a percentage of claims incurred.

Individual practice association (IPA)

A type of HMO. A group of physicians who practice independently but also provide services for an HMO under a contract agreement. An IPA physician also can and does provide "traditional" fee-for-service healthcare to patients not covered by an HMO.

Inpatient

- (1) Pertaining to the medical care of an individual admitted to the hospital for at least 1 night.
- (2) That portion of the base relating to hospital admissions. Length of stay (DAYS) will be at least one day.

Inpatient payments

All facility, professional and other payments related to a hospital admission.

Length of stay (LOS)

The number of days (DAYS) the patient was confined (spent in the hospital) during the inpatient admission. Also see **average length of stay**.

Long-term disability (LTD)

- (1) A significant period of disability generally ranging from 6 months to life.
- (2) Wage replacement insurance for individuals who are (partially or totally) permanently disabled.

Mail-order pharmacy

A company that receives prescriptions from physicians or patients via fax or mail and then mails the medication to patients. Meanwhile, the physician provides the patient with enough of the medication to last until the prescription arrives. Generally, the cost

per prescription from mail-order pharmacies is lower than the cost at other pharmacies because of higher volume and lower overhead.

Major diagnostic category (MDC)

- (1) A classification system for grouping medical conditions into one of 25 categories. The first 16 categories refer to major body systems; the remaining categories encompass more than one body system.
- (2) A widely recognized classification system that groups medical conditions into broad classifications, mostly by body system. Each DRG is assigned to one MDC.

Managed care

- (1) Employing incentives at both the provider and patient level that encourage the efficient provision of healthcare services. Common elements of managed care include capitation, a primary physician acting as a gatekeeper, and patient copayments.
- (2) An organized system of healthcare services in contrast to the fee-for-service system.

Medical

Clinical in nature, as opposed to surgical.

Medicare

- (1) A system of medical insurance provided by the federal government for all Americans aged 65 years and older and for Americans who are permanently disabled or have renal failure.
- (2) A federal program under Title XIX of the Social Security Act that provides health insurance for individuals aged 65 years and older and for other specified groups. Part A of Medicare covers hospitalization and is compulsory (that is, automatically provided to any beneficiary who has qualified for participation in Social Security). Part B of the program covers outpatient services and is voluntary.

National Drug Code (NDC)

A standard 12-digit coding system used to identify drugs on drug claims.

Not elsewhere classified (NEC)

An abbreviation used to indicate the most generic category. There may be insufficient information to assign a more specific code.

Net pay

The portion of the charge for a healthcare service that the carrier paid to the employee or assigned provider. NETPAY is calculated as PAY minus DEDUCT minus COPAY minus COINS minus COB.

Network providers

Providers who have contracted to be part of a plan's network; they may be capitated or on a discounted fee-for-service arrangement. Patients who visit out-of-network providers generally pay greater out-of-pocket amounts.

Open-ended HMO

An HMO that allows the patient to receive services from a nonnetwork provider. Although such services will be covered, the patient must pay higher-than-normal copayments and deductibles.

Out-of-pocket (OOP) costs

The portion of the claim that the patient or enrollee is obligated to pay (for example, copayments, coinsurance, deductible). There typically is an annual OOP maximum. If the maximum is met, the insurer pays 100 percent of the costs incurred by the enrollee for the remainder of the plan year.

Paid date

The date on which a claim is paid (PDDATE). Claims data usually are received from carriers on the basis of paid date. For example, a submitted data file may contain all claims that were paid during the fourth quarter of 2013, regardless of when the claims were incurred. See **incurred date, claims lag**.

Point-of-service (POS) plan

Replacement of an indemnity plan.

(1) A managed care plan that pays (reduced) benefits when patients receive healthcare services either from non-managed-care network providers or without proper referral by their primary care physician.

(2) A benefit plan design in which enrollees must access the healthcare system through a gatekeeper. In addition to differential coinsurance and copayment levels described under PPO, POS plans may include a differential deductible for in- and out-of-network services used (for example, in-network deductible may be \$250 and out-of-network deductible may be \$500).

Precertification or preauthorization

Permission from the administrator for the hospital admission to occur or the services to be performed. This is a form of utilization review based on the patient's health status and treatment needs.

Preferred provider arrangement or prudent purchaser arrangement (PPA)

Same as a preferred provider organization.

Preferred provider organization (PPO)

(1) A health plan that gives patients lower rates if they use the physicians in the preferred group of providers. Patients may use doctors outside that list, but they usually pay more to do so. Participating physicians normally are under a contract and keep an independent practice in the community. They also typically enroll in other preferred provider programs. Physicians receive reduced rates in return for a larger patient flow—lower price for the promise of higher volume.

(2) Providers (for example, hospitals, physicians) offering discounts or other reduced rates to a healthcare purchaser. Patients usually are “channeled” by receiving improved benefits (for example, lower/no deductibles or copayments). See **EPO**, **point-of-service PPO**.

Premium

An amount paid periodically to purchase health benefits; for self-insured groups that do not purchase insurance, the term may refer to the per employee or per family cost of health benefits and may be used for planning and analysis purposes, even when no contribution to coverage is collected from the employee.

Primary care physician (PCP)

The physician that a patient in a managed care plan must see first for any health problem; the PCP acts as a gatekeeper and determines whether and when the patient needs to see a specialist. PCPs generally are internists, pediatricians, family physicians, general practitioners, and occasionally obstetricians/gynecologists.

Procedure group

Outpatient procedure groupings based on CPT-4 and HCPCS procedure code values.

Provider

A person or organization that provides healthcare services, such as a physician or hospital.

Referral

- (1) Written authorization from a patient's PCP for the patient to see a specialist.
- (2) An arrangement for a patient to be evaluated or treated by another provider.

Reimbursement

The dollar cost of covered products and services for which insurers pay.

Risk sharing

An agreement whereby the risks of providing care under a capitated arrangement are shared by multiple parties. For example, a pharmaceutical manufacturer assumes a portion of the financial risk for the use of a product with the provider. A risk-sharing arrangement may include a capitated payment for the unlimited use of a product, promotion of appropriate usage by the manufacturer, or performance guarantees based on predetermined outcomes.

Runoff period

The period of time representing the number of months between a claim's service date and paid date. For example, if the runoff month's variable is equal to 6, it indicates that most claims are paid within 6 months of their service date.

Self-insurance

Funding of medical care expenses in whole or part through internal resources rather than through transfer of risk to an insurer.

Service date

The date that a medical care service is provided (SVCDATE).

Service level

A variable that is found in the Inpatient Services Table. These variables can be different for each service within an admission. Examples are service date, provider ID, diagnosis and procedure codes, and financial variables that contain only the amount for that service (for example, charge, payment). See **case level** for comparison.

Short-term disability (STD)

- (1) Wage replacement insurance for individuals temporarily disabled because of nonoccupational injury or illness.
- (2) Often considered to be a disability lasting not longer than 6 months.

Stop-loss (out-of-pocket max)

- (1) Usually, this refers to the maximum out-of-pocket amount that an individual or family could pay in a single plan year, including deductibles and copayment amounts. Alternatively, it may refer to the total dollar value of covered services after which the plan pays 100 percent.
- (2) The maximum out-of-pocket liability for a patient each year for deductibles, copayment, and coinsurance.

Subrogation

The assumption by a third party (such as an insurance company) of another's legal right to collect a debt or damages. It is related to COB (for example, recoveries from auto insurance may reduce an insurer's health benefit liability).

Summary Plan Description (SPD)

A legally required document that summarizes a company's healthcare benefit plan.

Surgical

Pertaining to a service performed by a surgeon or involving surgery.

Third-party administration or administrator (TPA)

- (1) Administration of a group insurance plan by some person or firm other than the insurer or the policyholder. TPAs also may pay claims.
- (2) The administrator or claims administrator.

Total charges

Total eligible charges, prior to reductions for reasonable and customary limits and PPO discounts.

Total payments

Total eligible charges less any reasonable and customary amounts and discounts for PPO services, but prior to reductions for deductibles, copayments, and other savings.

Uniform Billing (UB)

A standardized billing format for hospitals to use when submitting data to third-party payers. The term usually is followed by a year that indicates when the format was last revised (for example, UB04).

Unbundling

Creative or fraudulent billing practices used by providers to increase payment by charging item-by-item for components of a medical procedure.

Usual, customary, and reasonable (UCR)

A method of payment to physicians based on the usual (U) charge of a particular physician for the procedure, the customary (C) charge for the procedure among physicians in the community, and a determination of what a payer's reasonable (R) payment should be. This system is highly inflationary, because physicians typically increase their charges substantially to ensure that they attain a certain income. Plans often pay a percentage of UCR or a percentage of R and C. The patient is liable for the remainder, unless the physician is contractually obligated to accept the adjusted payment in full. (Balance billing is the practice of billing the patient for the remainder.)

Utilization review (UR)

- (1) A generic term referring to any program to control hospital runoff and runup admissions, lengths of stay, or both. Examples are second surgical opinion programs, length-of-stay certification, concurrent review, and preadmission certification.
- (2) A managed care process focused on the point at which care is (or is to be) provided, typically for expensive events; for example, in the case of hospital admission or outpatient surgery, the necessity and appropriateness of the procedure are reviewed against medical criteria by a third party.

Wellness benefits

A broad range of employer or union-sponsored facilities and activities designed to promote safety and good health among employees. The purpose is to increase worker morale and reduce the costs of accidents and ill health such as absenteeism, lower productivity, and healthcare costs. It may include physical fitness programs, smoking cessation, health risk appraisals, diet information and weight loss, stress management, and blood pressure screening.

Withhold amount/pool process

The dollar amount retained or withheld from the servicing provider and placed in a risk-sharing pool for future distribution.

Frequently asked questions

Q1. How do individuals track data longitudinally across years, plans, and employers?

Merative maintains a unique person-level identifier consisting of a family and member identifier. The person-level identifier is consistent across all tables, plans, databases, and years. However, if an employee changes employer and both the previous and new employers are contained in the MarketScan Databases, the family- and person-level identifiers will change. The family-level identifiers we receive are encrypted in a different manner for each employer.

For more information, see [Person-Level Identifiers](#).

Q2. Why do I have a claim where the enrollment flag (ENRFLAG) is set to 1, but the claim does not have an ENROLID?

This typically happens when a piece of information on the claim such as sex, relationship to employee, or date of birth is missing. This usually occurs for less than 1 percent of claims (EIDFLAG=3).

Q3. How do I identify continuously-enrolled covered lives?

To determine whether an individual was enrolled for an entire calendar year, MEMDAYS should equal 365. To identify the period of continuous enrollment, use the ENRIND1 to ENRIND12 flags. Each flag corresponds to 1 month (for example, ENRIND1=January enrollment, ENRIND2=February enrollment). The start of continuous enrollment is the first ENRINDx flag that is equal to 1. The end of continuous enrollment is the last ENRINDx flag that is equal to 1.

Q4. How do I select the subset of individuals with outpatient pharmaceutical data?

Analysts may wish to construct a subset of individuals in plans with drug information in each year. These individuals can be identified by the RX flag in the medical/surgical claims, enrollment, and populations tables. The RX flag variable ("1" or "0") that indicates drug data are available (for the data contributor) in the Outpatient Pharmaceutical Claims Table during

that month/year. To select the medical plans with accompanying drug information during a specific month/year, subset to claims where RX="1." This flag does not identify individual patients who submitted a drug claim; it is intended to identify records that came from contributing plans that also contribute a drug feed to the MarketScan Databases.

Employer contributors (HLTHPLAN=0) will have the same value of RX for each patient for the entire year; Health Plan contributors (HLTHPLAN=1) may have their enrollees' RX values change from month to month.

Q5. How do I select patients that had both medical and prescription drug claims in the most current year or in the most current 2 years?

Drug data are available for a significant portion of the total medical-eligible population and for a portion of the medical-eligible population with enrollment data. Therefore, you will need to construct a subset of individuals with drug information in each month/year.

The Cohort Drug Indicator (RX) variable indicates whether an individual is covered by a drug plan in the Outpatient Pharmaceutical Claims Table during that month/year. Use this flag (RX=1) to select the medical plans with accompanying drug information. Employer contributors (HLTHPLAN=0) will have the same value of RX for each patient for the entire year; Health Plan contributors (HLTHPLAN=1) may have their enrollees' RX values change from month to month.

Q6. How do I know whether a patient's lack of utilization data represents a lack of healthcare use or disenrollment from a plan?

You can match the patient's utilization to enrollment information by creating a subset of Medical and/or outpatient pharmaceutical claims where EIDFLAG=1. Use ENROLID from the claims utilization as the subset of criteria for the enrollment data. The resulting subset contains the enrollment records for the patients in the corresponding claims.

Q7. How do I establish a fixed window of continuous enrollment?

Use the Annual Enrollment tables and subset to records with enrolled months that are within the time window of interest (for example, all ENRINDx=1).

Subset the utilization information (for example, claims) to SVCDATE within the time window of interest. Sort the utilization information (for example, claims) by ENROLID. Merge restricted

and sorted Enrollment data with sorted utilization information by ENROLID where records appear in both sets.

Q8. How do I establish a sliding window of continuous enrollment?

For the sliding window continuous enrollment method, only those individuals who actually used healthcare can be considered. Therefore, determination of sliding window enrollment status begins with the claims information (medical/surgical or pharmaceutical claims) for identification of the event of interest, and then the enrollment information is considered.

Next, determine the month and year of the utilization claim of interest. Utilization dates may be a Date Service Incurred (SVCDATE), Date of Admission (ADMDATE), Date Service Ending (TSVCDATE), the beginning of an episode of care, or the end of an episode of care.

Using the enrollment flags (ENRIND1 through ENRIND12) in the Annual Enrollment Table, determine the earliest and latest dates of continuous enrollment. Create variables to identify these dates. It may be necessary to concatenate multiple years of Annual Enrollment tables. An individual may have multiple continuous enrollment periods.

Merge the utilization data with the enrollment data. Select the time period that includes the utilization date of interest.

If the user is interested in enrollment prior to the utilization date of interest or an ending utilization, then define those dates and determine whether the continuous enrollment period selected includes them.

Q9. What is the source of the data?

The MarketScan Databases are constructed from privately insured paid medical and prescription drug claims contributed by employers and health plans that have business relationships with Merative. The employers generally are self-insured. Collectively, the databases incorporate data from approximately 350 payers, including commercial insurance companies, Blue Cross Blue Shield plans, and third-party administrators.

Each contributor's database is constructed by collecting raw data from the appropriate payer(s). These raw data are service-level adjudicated paid claims and capitated encounters containing both inpatient and outpatient services. Financial, clinical, and demographic variables standardized to common definitions and variables that are specific to employers also are added. Clinical detail is added to the Outpatient Pharmaceutical Claims Table (for

example, therapeutic class, therapeutic group, manufacturer's average wholesale price, and generic product identifier). For more information, see [MarketScan Database Construction](#).

Q10. How are the geographic location of the employee (EGEOLOC) and Metropolitan Statistical Area (MSA) determined?

Geographic Location of the Employee (EGEOLOC) is mapped from the postal ZIP Code of the primary beneficiary's residence. Because EGEOLOC is often used for rate-based analysis, EGEOLOC must reside on both the claims and the enrollment files. If there is some uncertainty in the coding of either source, the EGEOLOC values are made more generic than the state level and are set to categories such as Division, Region, or Total United States.

Metropolitan Statistical Area (MSA) is mapped to Enrollment Detail and Summary, Inpatient Admissions, Inpatient Services, Outpatient Services, and Outpatient Pharmaceutical Claims tables.

Q11. Do you ensure that diagnoses, procedures, and demographic information are in concordance with each other?

Diagnosis and procedure codes are edited for validity. If they are invalid, they are set to missing.

Q12. What variables can I use to calculate a rate (for example, per capita, per employee)?

Metrics that require a population-based denominator (such as procedures per 1,000 covered lives) can be calculated only by selecting demographic variables that are contained in the Enrollment Table. Typical subsets for such counts include the geographic location of the employee (EGEOLOC), the type of plan (PLANTYP) or the sex of the patient (SEX).

Please refer to the MarketScan Database Enrollment Summary and Detail tables in the Database Dictionary for a full list of population-supported variables.

Q13. How do I calculate utilization rates and payments by procedure?

When calculating a utilization rate by procedure, using the count of claims as the number of procedures overstates the number of procedures. This is because a specific procedure on a given service date can generate more than one claim (for example, a surgeon's claim, an anesthesiologist's claim, and a facility claim). A day episode for the procedure must be constructed to collapse the related services for each of the procedures of interest.

Using the variable PROC1, subset the Inpatient Services Table and/or the Outpatient Services Tables for the procedures of interest.

To eliminate multiple claims, aggregate the data on ENROLID, PROC1, and SVCDATE to create one record per patient per procedure for a single service date. Sum any other variables of interest (for example, PAY, NETPAY). The number of procedures performed equals the record count in the resulting subset.

Divide the procedure count by the number of covered lives to calculate a utilization rate.

To calculate the covered life counts, count enrollment records in the Enrollment Detail Table and divide by the number of months in the time period.

To calculate payments per procedure, sum PAY and divide by the number of procedures.

Q14. Can a diagnosis be linked to drug claims (and vice versa)?

The Outpatient Pharmaceutical Claims Table does not contain diagnosis variables, because this information is not provided regularly by the physician on a prescription form. Therapeutic Class (for example, corticosteroids) is provided on the pharmaceutical claims representing the broad classification of the drug. However, to impute the diagnosis, the user must access the related medical claims for the individual—usually the claims filed within a specific time window around the prescription:

- Subset to the National Drug Code (NDC) of interest on the Outpatient Pharmaceutical Claims Table.
- Use ENROLID and SVCDATE as the selection criteria to subset all services from the medical tables (I, S, O) that fall within a predefined time window around the SVCDATE. The resulting diagnoses on the medical claims may be associated with the pharmaceutical claim.

These steps may be modified to identify the prescriptions associated with a specific diagnosis. First, subset on a diagnosis in the medical claims. Then, select all pharmaceutical claims for

each person with the diagnosis (using ENROLID as the Linkage variable) within a predefined time window around the date of the prescription.

Q15. How do I count emergency department (ED) visits, which can occur in the inpatient or the outpatient table?

The SVCSCAT field can be used to identify most types of service. The field is structured so that the first three digits describe the facility type and the last two digits identify service type. To select emergency department visits, select from the S or O Table any records with a SVCSCAT value that ends in “20”.

Because multiple claim records can be generated for a single ED visit, count the number of ED visits by creating day-episode records from the data table produced by aggregating on ENROLID/SVCDATE combinations. Accumulate all analytic variables of interest.

Q16. The National Drug Code in the MarketScan Database is 11 digits long, but the codes from my Food and Drug Administration (FDA) search are only 10 digits long. How can I convert?

The 10-digit codes should be padded with zeros (0) in the appropriate places until the 11-digit, 5-4-2 format is established.

Format	Change this...	To this...
4-4-2	XXXX-XXXX-XX	0XXXX-XXXX-XX
5-3-2	XXXXX-XXX-XX	XXXXX-0XXX-XX
5-4-1	XXXXX-XXXX-X	XXXXX-XXXX-0X

Q17. How are individuals eligible for Medicare determined in the Medicare database?

Primary contract holders are sorted into the MarketScan Medicare Database on the basis of employment status and age. The primary contract holder becomes part of the Medicare Database if a record for a primary contract holder indicates either: (1) age 65 years or older or (2) age 18 years or older and employment status of Medicare-eligible retiree.

Dependents are sorted into the MarketScan Medicare Database on the basis of age. Dependents aged 65 years or older become part of the Medicare Database regardless of the contract holder's status.

Members of an individual family may be split between the Commercial Database and the Medicare Database. Users conducting family-based analysis or per employee rates will need to take this into account.

It also is possible for a single individual to appear in both the Commercial Database and the Medicare Database if (1) the individual is a primary contract holder experiencing a change in Medicare-eligible retiree status during the year or (2) any member, regardless of contract holder status, reaches age 65 years during the year.

Q18. What is the relationship between procedures on the Facility Header (F) table and procedures on the corresponding Inpatient Services (S) or Outpatient Services (O) claim lines?

The MarketScan facility-claims data structure is designed to be similar to the UB04 facility-claim data model. The UB04 claim has a header portion (containing fields reported once per claim) and a revenue center or line-item portion (one or more lines per claim). Multiple ICD-9 or ICD-10 procedures are reported at the header level (once per claim). These correspond to PROC1–PROC6 in the Facility Header table. A CPT-4 or Healthcare Common Procedural Coding System (HCPCS) procedure is reported at the line-item level (one per line item). This procedure corresponds to PROC1 in the facility records of the O and S tables.

The rules for which procedures must be reported on a facility claim and where they should be reported (ICD-9 or ICD-10 header or CPT/HCPCS line item) vary, depending on the type of service, geographic area, and who is paying for the claim. You may see claims in which all procedures are reported only at the header level, others in which they are reported only at the line-item level, and still others in which they are reported in both places.

Generally, PROC1–PROC6 on the Facility record should be different from PROC1 on any of the corresponding Outpatient or Inpatient records, because the procedures on the Facility record should be ICD-9 or ICD-10 codes, and the procedures on the O/S records should be CPT/HCPCS codes. This will not always be true in the MarketScan Databases, because not all data come from actual UB04-type claims. Some data contributors or suppliers may have CPT/HCPCS procedure codes on their Facility records.

Q19. Why do some payments show more than two decimal places (for example, 256.9999999877)?

SAS® stores numeric variables in floating point format. Not all values can be represented exactly in floating point format; rather, they can only be approximated. The values of the financial variables in the MarketScan SAS datasets are not formatted (that is, they do not have a permanent SAS format associated with them). When nonformatted values are printed or displayed by SAS, it is SAS that determines how many decimal places will be shown. If a value can only be approximated, SAS may display many decimal places.

This issue can be overcome by applying either temporary or permanent formats to the financial variables. For example, format 12.2 will display the value with 2 digits to the right of the decimal point and up to 9 digits to the left of the decimal point for a total width of 12 characters (including the decimal point). The value is rounded by the format so that a value that may display unformatted as 123456.499999 will display as 123456.50 when formatted. Formatting affects only how the variable is displayed by SAS procedures or viewers; it does not change the stored value.

Q20. How does Merative determine which claims get sorted into which data year? Why do I see service dates outside of the calendar year of my data?

Data are included in the database for a given year using Enrollment: date of enrollment (DTSTART):

- Inpatient Admissions and Inpatient Services: admission date (ADMDATE)
- Outpatient and Drug Claims: service date (SVCDATE)

Inpatient admissions may include inpatient service claims from the day before the admission date. These claims may be for emergency department or preadmission testing services. The earliest service date for inpatient services claims in a database for a given year is 12/31 of the prior year. Admissions that start late in the year or admissions with very long lengths of stay may have discharge dates that are in the next year. The inpatient services claims that correspond to these admissions will have some service dates that occur in the next year. The facility header claims that correspond to the inpatient services facility claims also will have service dates from 12/31 of the prior year through the next year.

Q21. Do studies using MarketScan Databases require Institutional Review Board (IRB) Review?

The data were previously collected and statistically de-identified and are compliant with the conditions set forth in Sections 164.514(a)-(b)(1)ii of the Health Insurance Portability and Accountability Act of 1996 Privacy Rule; therefore, approval from an institutional review board was not sought.

Q22. Why are some values of the MSA field not actually MSAs? Why are some census MSAs not reported in the MSA field?

The MarketScan "MSA" field, while labeled MSA, is actually a mix of Metropolitan Statistical Areas (MSAs) and Core Based Statistical Areas (CBSAs). Values ending in "0" are MSAs, values ending in "4" are CBSAs. CBSAs are smaller geographic areas than MSAs, and have been included to provide more granularity. For example, MSA=14460 (Boston-Cambridge-Newton, MA-NH) isn't actually included in our data or our data dictionary -- instead, we include three distinct CBSAs: 14454 (Boston, MA), 15764 (Cambridge-Newton-Framingham, MA), and 40484 (Rockingham County-Strafford County, NH). For further information about how these codes break out into these different subgroupings, the 2013 Census delineation file (<https://www.census.gov/geographies/reference-files/time-series/demo/metro-micro/delineation-files.html>) can be referenced.

Appendix A: New in 2022

In our efforts to continuously improve the analytic value and ease of use of the MarketScan Databases, we are pleased to announce the following changes effective with the 2021 v1.0 update.

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 40. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

There is one new value, and one changed label, affecting the Place of Service (STDPLAC) field. The new value is “10-Telehealth Provided in Pat Hm”. The changed label is “27 - Outreach Site/Street (Effective October 1, 2023); Inpatient Long-Term Care (NEC) (Claims incurred 2008 and prior only)”.

There are seven new codes for Metropolitan Statistical Area (MSA):

- 16984 Chicago-Naperville-Evanston, IL
- 19430 Dayton-Kettering, OH
- 23224 Frederick-Gaithersburg-Rockville, MD
- 35154 New Brunswick-Lakewood, NJ
- 39100 Poughkeepsie-Newburgh-Middletown, NY
- 39150 Prescott Valley-Prescott, AZ
- 49500 Yauco, PR

Five previously valid codes for MSA are no longer valid, to reflect the seven new codes listed above:

- 16974 Chicago-Naperville-Arlington Heights, IL
- 19380 Dayton, OH
- 20524 Dutchess County-Putnam County, NY
- 39140 Prescott, AZ
- 43524 Silver Spring-Frederick-Rockville, MD

Appendix B: Historical data releases

Merative strives to deliver consistent data variables from year to year. However, periodic revisions are made to the MarketScan Databases to improve and enhance the data. The revisions can include renaming variables or aliases, revising variable definitions, creating new variables, and deleting variables.

The following is a list of data changes that could produce anomalies when one is using several years of data.

Changes in 2021

The database delivery option known as “Set A” (see [Financial variables](#)) has now been enhanced to include imputed financial variables in those instances where Merative does not have the ability to report actual financial information (approximately 15 percent of the overall database population). For instances where Merative has the ability to report actual financial information (approximately 85 percent of the overall database population), actual financial information is reported. The methodology used for the imputed cost data is a combination of hotdecking and stochastic regression. To protect the privacy of patients as well as the privacy of our data contributors and suppliers, users will not have the ability to distinguish between actual and imputed financial information.

Moving forward, imputed cost information will be reported for Annual database releases only (i.e., Version 1.0 and higher). “Set A” options for Standard Quarterly Updates and Early View will continue to have all financial information except Net Payments set to Null.

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 39. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Changes in 2020

To help provide MarketScan users with a more representative, complete, and longitudinal view of the commercially insured 65+ US population, we have enhanced our existing Merative MarketScan® Medicare Database with Medicare Advantage data. The resulting database

includes data from both Medicare Supplemental and Medicare Advantage plans, and a series of monthly flags to distinguish between plan types.

Within the MarketScan Medicare Database, the Advantage enrollees and the Supplemental enrollees have the same information describing patient demographics and medical/pharmacy claims-level detail. They also have the same variables describing the financial fields. There is also a series of monthly flags to distinguish between plan types corresponding to monthly enrollment indicators. From both the Medicare Supplemental and Advantage insurance standpoint, the Coordination of Benefits (COB) variable represents Medicare paid amounts for fully adjudicated claims and the Net Payment variable represents payment rendered by the primary payer. The COB value for Advantage enrollees will typically be near or at \$0 while corresponding net payment amounts will be relatively higher for Medicare Advantage versus Supplemental claims.

Note: Advantage insurers receive a monthly payment from Medicare for each patient covered. This capitated payment is not reflected in MarketScan, since the database is from the employer perspective and payments reflect amounts paid for medical and pharmacy claims.

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 38. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Three subgroups have been added to the SVCSCAT field to accommodate telemedicine services. There are 23 new codes within the following three subcategories (using the last two digits of the code):

- 16 OP Telemed Behavioral Health
- 22 OP Telemed Preventive Visits
- 45 OP Telemed

Two new values have been added to PROCMOD:

- J5 Dmepos compet bid PT/OT
- V4 Demonstration modifier 4

Also, the label of one value of PROCMOD has been changed: 'CS' changed from "CS-Item/svc rel-oil spill" to "CS-Covid-19 testing rel svc".

Changes in 2019

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 37. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

For a small subset of the population (approximately 15 percent), actual cost data is not available starting with the 2019 v1.0 data releases. Hence, for data years 2019 and later, Merative offers clients a choice between two datasets:

Set A: A dataset with 100 percent of the population and actual cost data for Net Payment fields only.

Set B: A dataset with approximately 85 percent of the population and actual cost data for all Payment fields.

Due to copyright concerns, we are no longer distributing a complete lookup of Bill Type Code and Revenue Code. These codes will continue to appear unencrypted and unredacted in the data itself.

A new value of Procedure Group Code (PROCGRP) has been added: 123-Telemedicine Inter-Professional consult. Three values (113, 114, 128) underwent changes in label.

Changes in 2018

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 36. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Two new values of Revenue Code (REVCODE) have been added:

- 0826=Hemodialysis-Shorter Duration
- 1006=BH R&B Outdoor/Wilderness

One new value of Metropolitan Statistical Area (MSA) has been added:

- 46300=Twin Falls, ID

Changes in 2017

As a result of ongoing discussions with our data contributor pool, we have agreed to implement with this release additional steps to protect their anonymity and their business-confidential information such as pricing and discounts. This involves masking geography in areas in certain circumstances where any one data source dominates the data pool. The fields affected are MSA (urban area of subscriber) and EGEOLOC (state of subscriber). The impact

is that the percent missing of EGEOLOC and MSA in CCAE has risen in this release to about 12 percent to 19 percent, and in MDCR it has risen to about 24 percent-40 percent. The impact disproportionately affects smaller geographic areas; the larger the area, the less likely it is affected.

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 35. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Three new fields are being added to the Redbook drug reference table:

- NDC Active Indicator (ACTIND): an indication of whether the NDC code is still active.
- Date Deactivated (DEACTDT): the date on which the NDC code was deactivated.
- Date Reactivated (REACTDT): the date on which the NDC code was reactivated.

The label of Place of Service (STDPLAC) value 54 has been changed to “Intermed Care/Intellect Disab”.

The labels of two values of Metropolitan Statistical Area (MSA) have been changed. MSA=25980 has been changed to “Hinesville, GA”; and MSA=31420 has been changed to “Macon-Bibb County, GA”.

The labels of two values of Procedure Code Modifier (PROCMOD) have been changed. PROCMOD=JG has been changed to “Drug/bio 340b dis/AMB-FS->ESRD”; and PROCMOD=Q6 has been changed to “Subst MD fee-for-service”.

Several new values of PROCMOD have also been added:

96 Habilitative Services

97 Rehabilitative Services

FY X-ray computed/cassette

TB Drug acq 340b disct-info

X1 Continuous/broad svc

X2 Continuous/focused svc

X3 Episodic/broad services

X4 Episodic/focused svc

X5 Dx svc req by anoth clin

ZC Merck/Samsung Bioepis

Two new values of Therapeutic Class (THERCLS) has been added: THERCLS=270, “Genitourinary Agent,” and THERCLS=292, “Phosphorus Regulating Agents”.

The label of Therapeutic Group (THERGRP) 29 has been changed to “Unclassified Agents (Classes 234-236, 251, 254, 257-258, 270)”, and the label of THERGRP 13 has been changed to “Electrolytic, Caloric, Water (Classes 100-126, 241, 292)”.

Changes in 2016

The Diagnosis-Related Group (DRG) variable is assigned using grouper version 34. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

New fields POAPDX and POADX1–POADX15 have been added to the I tables, and POADX1–POADX9 to the F tables, to indicate whether the diagnosis codes appearing in the PDX and DX1–DX15 fields were present on admission. These are character fields of length 1. Valid values are as follows:

- Blank: Missing/Unknown
- 1: Unreported/Not Used
- N: No, not present at admission
- U: Unknown
- W: Clinically Undetermined
- Y: Yes, present at admission

The AGE field is being modified to accommodate increased privacy concerns. Beginning in 2016, AGE will be reported as follows:

- Age 0–6: actual age as of the Date of Service/Enrollment Start Date/Admission Date. This is unchanged from the current MarketScan format.
- Age 7–16: age as of the 15th of the month of the Date of Service/Enrollment Start Date/Admission Date.
- Age 17+: age as of the July 1 of the year of the Date of Service/Enrollment Start Date/Admission Date.

The DSTATUS field also is being modified to accommodate increased privacy concerns. DSTATUS values indicating death or transfer to court/law enforcement (DSTATUS=20, 21, 40, 41, 42, 87) now will be coded as Missing.

The following new Therapeutic Class (THERCLS) values have been added:

- 266: Antidiabetic Ag, Meglitinides

- 267: Antidiabetic Ag, SGLT Inhibitr
- 268: Antidiabetic Ag, TZD
- 271: Kallikrein Inhibitor
- 272: COMT Inhibitors
- 273: Per-Act Mu Op Rcp Ant (PAMORA)
- 290: Antifungal, EENT

The following Lookup values for Therapeutic Group have been edited to include the new THERCLS values cited above:

- 07: Cardiovascular Agents (Classes 46–56, 245, 250, 271)
- 08: Central Nervous System (Classes 57–77, 272)
- 16: Eye, Ear, Nose Throat (Classes 132–146, 240, 290)
- 17: Gastrointestinal Drugs (Classes 147–162, 273)
- 20: Hormones & Synthetic Substitutes (Classes 165–180, 246, 252–253, 256, 266–268)

A new value, 02-Telehealth, has been added to Place of Service (STDPLAC).

A new value, 21420 Enid, OK, has been added to Metropolitan Statistical Area (MSA).

Changes in 2015

The Diagnosis-Related Group (DRG) variable was assigned using grouper version 33. This variable appears on the Inpatient Admissions (I) and Inpatient Services (S) tables. Lookups are included in the SAS format file delivered with the databases.

The Populations (P) Table was discontinued. This table no longer provides value in favor of the Annual Enrollment Summary and Enrollment Detail tables.

The length of all diagnosis code variables (PDX, DX1–DX15) was increased from five to seven characters to accommodate the implementation of ICD-10-CM.

The length of all procedure code variables (PPROC, PROC1–PROC15) was increased from five to seven characters.

A diagnosis code version indicator variable (DXVER) was added to the Facility Header (F), Inpatient Admissions (I), Outpatient (O), and Inpatient Services (S) tables. DXVER is one character in length and has values “9”=ICD-9-CM and “0”=ICD-10-CM. In the Admissions Table, DXVER indicates the ICD version of PDX and DX1. In the other tables, DXVER indicates the ICD version of all diagnosis code variables in the record.

A new value was added for the procedure code type variable (PROCTYP) in the O and S tables to identify ICD-10-PCS procedure codes. This new value is “0”=ICD-10-PCS.

The fields PLANKEY and PLNKEY1–12 no longer are being included. These fields linked to the MarketScan Benefit Plan Design Database, which has been restructured to link on ENROLID effective with the 2015 data year.

The field WGTKEY no longer is being included. This field was linked to the MarketScan National Weights, which were based on the Medical Expenditure Panel Survey (MEPS). Effective with the 2015 data year, the source for the National Weights has been changed to the American Community Survey (ACS), and a new field MSWGTKEY has been added to contain the key to link to the new ACS-based MarketScan National Weights.

A new field, UNITS, was added to the S and O tables. This field is intended to capture units of service (as opposed to the quantity of services captured in the QTY field). For example, for an injectable drug, QTY would contain the number of injections, whereas UNITS would contain the amount of substance injected. It is valued only for some data contributors.

Two new fields, MSCLMID and NPI, were added to the S, F, and O tables. MSCLMID, when used in conjunction with ENROLID and Facility-Professional Claim Indicator (FACPROF; O and S tables), can enable the user to reconstruct which services were submitted as part of the same claim from a claims administration standpoint. NPI is an encrypted version of the National Provider Identifier. It is valued only for some data contributors.

Two fields were added to the RED BOOK file to denote the route of administration of a drug: Route of Administration Code (ROACD; 2 characters) and Route of Administration Description (ROADS; 30 characters). The variable ROADS is the text description for the value appearing in ROACD.

In keeping with changes in CMS coding, the Outpatient Hospital place of service was split into two parts.

Other changes included the following:

- STDPLAC value 19 was added as Outpatient Hospital-Off Campus.
- The lookup for STDPLAC value 22 was changed to Outpatient Hospital-On Campus.
- A new value for Therapeutic Class (THERCLS) was added. The new value is 259 Blood Form/Coagul Agents, Misc.
- The lookup for THERGRP value 06 was changed to Blood Form/Coagul Agents (Classes 35–45, 259).

Changes in 2014

The DRG variable was assigned using grouper version 32. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Six new values for THERCLS were added:

- 260: Interferons, Antineoplastic
- 261: Chemotherapy
- 262: Hormone-Modifying Therapy
- 263: Molecular Targeted Therapy
- 264: Radiopharmaceu/Antineoplastic
- 265: Antineoplastic Agent, Misc.

The mapping of the Metropolitan Statistical Area (MSA) field was updated to conform with the U.S. Census Bureau's 2013 mapping. Some slight changes have occurred to the boundaries of individual MSAs as well as to the labels applied to them. For a complete listing of updated MSAs effective with the 2014 data year, see the Data Dictionary.

Changes in 2013

The DRG variable was assigned using grouper version 31. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

A new value for Place of Service (STDPLAC) was added—18: Place of Employment-Worksite.

New and revised values for Discharge Status (DSTATUS) were added: the descriptions for values 50 and 51 were changed, and values 69, 81–95 were added—

- 50: Discharged/transferred to hospice
- 51: Discharged/transferred to hospice medical facility
- 69: Transfer to disaster alternative care site
- 81: Discharge to home/self-care w plan inpatient (IP) readmit
- 82: Transfer to short-term general hosp w/plan IP readmit
- 83: Transfer to skilled nursing facility (SNF) w/plan IP readmit
- 84: Transfer to custodial/supportive care w/plan IP readmit
- 85: Transfer to cancer center/child hosp w/plan IP readmit
- 86: Transfer to home health service w/plan IP readmit
- 87: Transfer to court/law enforce w/plan IP readmit
- 88: Transfer to federal HCF w/plan IP readmit
- 89: Transfer to Medicare swing bed w/plan IP readmit
- 90: Transfer to inpatient rehabilitation facility (IRF) w/plan IP readmit
- 91: Transfer to long-term care hospital (LTCH) w/plan IP readmit

- 92: Transfer to Medicaid nursing facility w/plan IP readmit
- 93: Transfer to psych unit/hospital w/plan IP readmit
- 94: Transfer to critical access hospital (CAH) w/plan IP readmit
- 95: Transfer to other facility NEC w/plan IP readmit

Changes in 2012

The DRG variable was assigned using grouper version 30. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

The YEAR field was added to the Enrollment Detail (T) Table. It previously appeared on all other claims and enrollment tables.

Changes in 2011

The MarketScan Databases periodically undergo review by an external independent consultant to ensure that the databases are indisputably categorized as having deidentified data that comply with Health Insurance Portability and Accountability Act (HIPAA) requirements. Such a review was completed in 2011 and, as a result, the following changes were made to the Commercial and Medicare Supplemental data structure, effective with the 2011 v1.0 database released in December 2012. These changes are reflected in all database releases moving forward.

1. The following geographic variables no longer are included:

- County Employee (EMPCTY), County Hospital (HOSPCTY), County Pharmacy (PHRMCTY), County Provider (PROVCTY)
- 3-digit ZIP Code Employee (EMPZIP), 3-digit ZIP Code Hospital (HOSPZIP), 3-digit ZIP Code Pharmacy (PHRMZIP), 3-digit ZIP Code Provider (PROVZIP)

All other geographic variables (MSA, State, and region) remain.

2. The following clinical and provider variables no longer are included:

- Standard Hospital ID (UNIHOSP)
- Service Type (STDSVC)

Provider ID (PROVID) remains in the database. Service subcategory code (SVCSCAT), a more current and detailed variable grouping of services, also remains in the database.

1. The Geographic Location Employee (EGEOLOC) field no longer reports values of 98 (Virgin Islands) and 99 (Other International). Records for these values are recoded to Nation Unknown Region (EGEOLOC=1).
2. The Place of Service (STDPLAC) field no longer report values of 5 (Indian Health Services Free Standing Facility), 6 (Indian Health Services Provider-Based Facility), 7 (Tribal 638 Free Standing Facility), 8 (Tribal 638 Provider-Based Facility), or 9 (Prison-Correctional Facility). Records for these values are recoded to Other Unlisted Facility (STDPLAC=99).
3. A Family Identifier field (EFAMID) was added. This enables users to study family members enrolled together under a single subscriber policy.

The DRG was assigned using grouper version 29. This variable appears on the I and S tables. Searches are included in the SAS format file delivered with the databases.

Changes in 2010

The DRG variable was assigned using grouper version 28. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Changes in 2009

The DRG variable was assigned using grouper version 27. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Diagnosis Code 3 (DX3) and Diagnosis Code 4 (DX4) were added to the S and O tables.

Industry Code (INDSTRY) has three new values. These values are A: Agriculture, Forestry, Fishing; C: Construction; and W: Wholesale.

Changes in 2008

The DRG variable was assigned using grouper version 26. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Therapeutic Class (THERCLS) had two new values. These appeared only in RED BOOK and were not yet present in the claims data. The new values were 248: Leukotriene Modifiers and 249: Uricosuric Agents.

Plan Indicator (PLANTYP) had a new value of 9, representing High-Deductible Health Plan (HDHP).

Changes in 2007

The DRG variable was assigned using grouper version 25. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Three new variables were added. Capitated Service-Claim Indicator (CAP_SVC) is an indication of whether the individual service or claim was paid on a capitated basis. Valid values are “Y” for Yes if the claim was paid on a capitated basis and “N” for No if the claim was not paid on a capitated basis. This field appears on the D, F, O, and S tables.

Network Provider Indicator (NTWKPROV) is an indication of whether the provider of an individual service was a member of the payer’s network. Valid values are “Y” for Yes if the provider was a member of the network and “N” for No if the provider was not a member of the network. This field appears on the Drug Claims (D), F, O, and S tables.

Network Paid Indicator (PAIDNTWK) is an indication of whether an individual claim was paid as in network. Valid values are “Y” for Yes if the claim was paid as in network and “N” for No if the claim was not paid as in network. This field appears on the D, F, O, and S tables.

Changes in 2006

The following changes were effective with the 2006 v1.0 update.

The DRG variable was assigned using grouper version 24. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

Pharmacy Class Code (PHCLASS) was discontinued. It formerly appeared on D Table. This variable had been assigned using a legacy lookup table that has not been updated since 2002. The vendor for the lookup table no longer supplies these fields.

Changes in 2005

We introduced a new Benefit Plan Type (PLANTYP) value 8=Consumer Driven Health Plan (CDHP). This field and new value are available on all database tables.

The MSA variable values were changed from four-digit codes to five-digit codes on all tables. The new values are listed in the Data Dictionary.

The Revenue Code (REVCODE) variable was changed from three-digit codes to four-digit codes. This variable appears on the O and S tables. Both three- and four-digit values are included in the SAS format file delivered with the databases.

The DRG variable was assigned using grouper version 23. This variable appears on the I and S tables. Lookups are included in the SAS format file delivered with the databases.

The RX[*year*] and PHY[*year*] variables were removed from the A and T tables. Instead, the variables RX and Physician flag (PHYFLAG) were added to the A and T tables. The year-specific flags originally were implemented when enrollment information was delivered in a cumulative, all-time-period table; because the format was changed to one enrollment table per database year, these year-specific variables no longer are necessary.

The Payments Total Case (TOTPAY) variable was dropped from the S Table. It still appears on the I Table and easily is associated with the individual services of an inpatient admission using the CASEID variable.

A new variable, Merative Service Sub-Category Code (SVCSCAT), was added to the O and S tables. The lookup for this new field appears in the Data Dictionary. SVCSCAT is a highly detailed service category code with more than 570 values.

Changes in 2004

Data Expansion: Inclusion of Health Plan Data Contributors

The 2004 MarketScan files include data obtained from our health plan contributors, combined with the data from our employer customers. Two new variables also were added to the data files.

Historically, we have delivered data from contributors capturing full carve-out services. In 2004, contributors with potentially incomplete mental health and substance abuse (MHSA) coverage were included in the data files. To identify enrollees in plans where MHSA coverage may not have been fully captured, we included an MHSA Coverage variable (MHSACOVG). This variable can be used to exclude enrollees from mental health-related analyses or to further investigate the utilization rates of the subpopulation.

To easily identify which enrollees come from our new health plan data contributors, we created a Health Plan Indicator variable (HLTHPLAN). This variable allows the user to distinguish between data source types; it is set to 1 for health plan lives and 0 for employer lives.

Note: Health Plan data contributors also were added retrospectively to the 2002 and 2003 data years. Missing values of MHSACOVG in these years should be interpreted as “1,” and missing values of HLTHPLAN in these years should be interpreted as “0.”

New Fields

New fields were as follows:

- Health Plan Indicator (HLTHPLAN): Tables I, S, O, D, P, A, T
- Coverage Indicator MHA (MHSACOVG): Tables I, S, O, D, P, A, T
- New SAS formats

The format listing has been updated, and new formats have been included for the new categorical fields.

New DRG Grouper Version

The 2004 release used DRG Grouper 22.0. The 2003 MarketScan Databases used Grouper 21.0.

Changes in 2003

New Table: Facility Header (F)

The records in the F Table represent facility claim information that occurs at the overall claim level (once per claim). (Facility records in the O and S tables represent facility claim detail lines at the UB04 revenue center or individual service level.) Facility header variables included the following: nine ICD-9-CM diagnosis codes (DX1–DX9), six ICD-9-CM procedure codes (PROC1–PROC6), Net Payment Amount (NETPAY), Copayment Amount (COPAY), Deductible Amount (DEDUCT), COB Amount (COB), Coinsurance Amount (COINS), UB04 Bill Type (BILLTYP), Facility ID (PROVID and UNIHOSP), Place of Service (STDPLAC), and Provider Type (STDPROV). The facility header financial variables repeat the amounts contained in those variables in the facility detail records in the O and S tables.

Facility header records may be linked to their corresponding facility detail records in the O and S tables by the Facility Header Record Identifier (FACHDID) variable that appears in the F, O, and S tables. (FACHDID is missing in the O and S tables for all professional claims.) There may be multiple detail records per facility header record. Facility header records that are part of inpatient admissions may be linked to the Inpatient Admission (I) and the corresponding Inpatient Services (S) records by the CASEID variable that appears in the F, I, and S tables. (CASEID is missing in the F Table for noninpatient claims.)

The inclusion of the F Table allows users to access up to nine diagnosis and six procedure variables on a facility claim (as opposed to the five diagnosis and one procedure variables currently retained in the S and O tables). The inclusion of the F Table provides an easier correspondence of complete diagnoses and procedures associated with facility detail records.

The new F Table renders the DX3–DX5 fields on the S and O tables superfluous, so these have been removed.

See the MarketScan Data Dictionary for a complete listing of fields included on the F Table. In 2003, all but one (BILLTYP) appeared on other tables.

New Table: Annual Enrollment Summary (A)

A new Annual Enrollment Summary (A) Table was included in the CCAE and Medicare Supplemental and COB Databases. This table was structured as one record per person (ENROLID) enrolled during the year. The annual summary contains monthly arrays of certain variables such as indicators of enrollment (yes/no), days enrolled, data type, and plan type in each month during the year. There also are variables indicating the number of months during the year with enrollment and the total annual enrollment days.

Demographics variables in the new A table fell into two categories:

- Monthly arrays—12 fields give the value of the variable applicable for each month during the calendar year. This treatment is used for the DATATYP, PLANTYP, and PLANKEY fields (DATYP1–DATYP12, PLNTYP1–PLNTYP12, PLNKEY1–PLNKEY12).
- Modal values—the value that appears in the largest number of enrollment months during the year. (This is how the values of these variables are set in the current Enrollment Summary [E] Table.) This treatment is used for fields such as MSA, employment classification (EECLASS), and so forth.

The current monthly Enrollment Detail (T) Table for a year of data continued as currently structured.

The Enrollment Summary (E) Table as it appeared in data releases 2002 and prior no longer were produced.

New Fields

New fields were as follows—

- Facility Bill Type Code (BILLTYP): Table F
- Date Service Ending (TSVCDAT): Historically included on the S Table, it now also appears on the O Table.
- Coinsurance (COINS): Tables S, O, F, D
- Date of Discharge (DISDATE): Tables I, S
- Facility Header Record ID (FACHDID): Tables S, O, F
- Facility-Professional Claim Indicator (FACPROF): Tables S, O
- Net Payments Hospital (HOSPNET): Table I

- Net Payments Physician (PHYSNET): Table I
- COB and Other Savings Total Case (TOTCOB): Table I
- Coinsurance Total Case (TOTCOINS): Table I
- Copayment Total Case (TOTCOPAY): Table I
- Deductible Total Case (TOTDED): Table I

Fields Removed

The following fields were removed:

- Diagnosis 3 through Diagnosis 5 (DX3–DX5) removed from S and O tables only
- Days from Prior Discharge (LASTADM)
- Days to Next Admission (NEXTADM)
- Payment Indicator (PAYIND)
- Primary Care Physician ID Number (PCPID)
- Primary Care Physician Specialty (PCPSPEC)
- Physician Classification (PHYCLAS)
- Primary Medical Group ID (PMGID)
- Record Flag (RECFLAG)
- Referral Indicator (REFIND)
- Referral Type (REFTYP)
- Treatment Group (TG)
- Trim Flag Length of Stay (TRIMLOS)
- Trim Flag Per Diem (TRIMPDM)

New SAS Formats

The format listing was updated and new formats were included for the new categorical fields. Formats for fields no longer delivered were removed. There also were some new values for STDPLAC and THERCLS.

Changes in 2002

The 2002 CCAE and Medicare Supplemental and COB Databases were larger in 2002 because several new data contributors were added. The datasets represented 25 percent to 50 percent more covered lives than in 2001.

We implemented an audit of the Length of Stay (DAYS) field on the S Table. Previously, there was a possibility of discrepancy between the sum of service-level DAYS for an inpatient admission and the length of stay listed on the corresponding admission record in the Inpatient Admissions (I) Table. We corrected the discrepancy so that approximately 90 percent of

admissions would have no discrepancy between length of stay on the admission- and service-level records and an additional 5 percent would be within 1 or 2 days. The remaining 5 percent were not correctable, and we recommend using the admission-level length of stay in those instances.

Changes in 2001

DRG Grouper Update

The 2001 release used DRG Grouper 19.0. The 2000 MarketScan Databases used Grouper 17.0.

Encryption of Provider Fields

The provider identifying fields in the MarketScan Databases were encrypted to better protect the confidentiality of the data contributors. The fields affected were Provider ID, Pharmacy ID, Uniform Hospital ID, Physician ID, Primary Care Physician ID, Primary Medical Group ID.

RX Mail Order-Retail Indicator Field

A new field was added to the Outpatient Pharmaceutical Claims file RX Mail Order-Retail Indicator (RXMR) to denote whether the prescription was filled by a retail pharmacy or through a mail-order program.

National Weights

MarketScan person-level national weights were constructed using the Household Component of the MEPS. The MEPS provides estimates of the number of people with employer-sponsored private health insurance. The estimates are used to weight individuals in MarketScan to reflect the national employer-sponsored insurance (ESI) distribution, as captured by the most relevant year of MEPS data.

To construct the weights, MEPS respondents were stratified using combinations of demographic variables that account for substantial differences in utilization and expenditures. The variables include the following:

- Region (Northeast, North Central, South, West)
- Age (three groups: 0–17, 18–44, 45–64)
- Sex (male, female)
- MSA classification (MSA, non-MSA)
- Insurance policy holder status (policy holder, spouse/dependent).

Not all combinations of these demographic categories were used. We collapsed the policyholder/nonpolicyholder status for non-MSA strata in the Northeast and West regions because of small cell sizes for these areas. We did not distinguish between policyholder and nonpolicyholder for the 0–17 year age group. In all, 72 strata were used to construct the weights.

The person-level weight is the ratio of MEPS-based estimates in the different age, sex, and region categories and the MarketScan number in the same category.

Note: Person-level weights are assigned to the MarketScan data on all tables by means of a numeric key pointer (WGKEY) to a standalone table of weights values. The weights table itself is not delivered as part of the standard MarketScan Databases. Interested parties should contact Merative regarding purchase of the weights table.

Change in Medicare-Eligible Classification Methodology

Primary contract holders were sorted into the MarketScan Medicare Supplemental and COB Database on the basis of employment status. If a record for a primary contract holder indicated Medicare Eligible Retiree, the primary contract holder became part of the MarketScan Medicare Supplemental and COB Database.

Dependents were sorted into the MarketScan Medicare Supplemental and COB Database on the basis of age. Dependents aged 65 years or older became part of the Medicare Supplemental and COB Database regardless of the contract holder's status.

Members of an individual family, therefore, may have been split between the MarketScan CCAE Database and the Medicare Supplemental and COB Database. Users conducting family-based analysis or per employee rates will need to take this into account.

Previously, the data were divided according to the age and employment status of the primary contract holder; thus, non-Medicare-eligible dependents of Medicare-eligible contract holders formerly appeared in the Medicare Supplemental and COB Database, and Medicare-eligible dependents of non-Medicare-eligible contract holders formerly appeared in the CCAE Database.

Enrollment File Structure Change

Beginning with the 2001 data release, the Enrollment Detail Table changed in structure. A single record represents 1 month of enrollment for an individual. Individuals enrolled continuously for the entire calendar year 2001 will have 12 records in the 2001 Enrollment Detail Table. Databases will be delivered with monthly enrollment records that are applicable to that particular database; periods of enrollment prior to the period of the medical claims data no longer will be included.

The structure of the Enrollment Summary Table has not changed, but the file now contains enrollment records only for calendar year 2001, with one record per period of continuous enrollment per enrollee and the prevailing demographics. Continuously-enrolled individuals will have one record in the Enrollment Summary Table; however, enrollees still may have multiple records per year in the summary file if they have discontinuous enrollment.

Addition of Age and Age Group to Enrollment Tables

In 2001, Age and Age Group of each enrollee appeared on the Enrollment Detail and Summary tables. This represents age as of the start of the enrollment period indicated on the record.

Addition of MSA to the Populations Table

The MSA field was valued wherever possible on the Populations Table.

Deleted Identifier Fields

The family identifiers and member identifiers of both the enrollee and patient identification systems (EFAMID, EMEMID, FAMID, MEMID) were removed. This was to conform with the requirements of HIPAA and to reduce the risk of implicit patient identification through other demographic fields.

Changes in 2000

New Variables

→ The variables Dx3, Dx4, and Dx5 (S, O) were added.

Procedure code modifiers and revenue codes were made available for a subset of MarketScan data contributors:

→ Procedure Code Modifier (S, O). A procedure code lookup file (including CPT and modifier codes) is available upon execution of the American Medical Association CPT license agreement.

- Revenue Code (S, O). A revenue code lookup file is included on the documentation CD.

Variable Changes

Standard Place of Service (STDPLAC) and Standard Provider Type (STDPROV) were given values that are consistent with new Merative company-wide standards. Place of Service values now correspond to CMS standard values. Provider Type values were expanded to represent the breadth of provider types now covered by medical benefit programs. We have provided a map of old values to new values for your convenience.

Facility, professional, and other providers now are identified according to the following values:

- 001–099: Facilities
- 100–799: Physicians
- 100–199: Nonadmitting Physicians
- 200–799: Admitting Physicians
- 500–599: Surgeons
- 800–899: Professionals (Nonphysician)
- 900–999: Agencies

Financial variables. Effective with the 2000 data year, Merative has a new standard format for financial data. Inpatient, outpatient, and prescription drug financial variables now are represented in dollars and cents with an explicit decimal point. Some customer databases continue to reflect financial data for inpatient and outpatient claims in whole dollars. The percentage of these claims will diminish over time. Databases delivered in SAS format will contain the explicit decimal point. There will be no change in field format for databases delivered in DataProbe®.

The new standard is to assign the principal procedure (PPROC) only when the procedure is part of the DRG/MDC assignment. PPROC will have missing values when the DRG/MDC is for a nonsurgical admission.

Quarterly Updates Released

In an effort to release to our customers the most current data available while still maintaining the highest level of data quality, MarketScan data releases follow a quarterly schedule. Only data contributors with at least 3 months of paid runoff (the lag time between a service being incurred and a claim being paid) are included with each interim quarterly release. Each December, we will continue to release a complete version of the prior year's data, with at least 6 months of paid runoff (considered to be analytically complete).

Quarterly updates are released in March, June, September, and December. These databases include all tables that normally are found in a yearly database: Inpatient Admissions, Inpatient Services, Outpatient Services, Outpatient Pharmaceutical Claims, and Enrollment. The Benefit Plan Design Database is released annually.

Included with each quarterly update is a Quarterly Comparison Report, which shows changes in overall covered lives, continuous covered lives, claim volume by quarter, and claim payments by quarter. The volume of each quarterly data release depends on the update cycle of the individual data contributors and the level of completeness of the data.

Enrollee Identifier Transition

Historical MarketScan Databases contain two sets of person identifiers. Enrollee identifiers (ENROLID, EMEMID, EFAMID) were derived solely from eligibility data prior to 1999. These identifiers then were assigned to corresponding claims using the eligibility data as the source. Patient identifiers (PATID, MEMID, FAMID), which identify unique claimants, are based on information available on the claim without reference to an eligibility record. The use of these identifiers has not been straightforward, and we have taken steps to simplify their use.

With the 1999 MarketScan data release, we began a new system of person identification that, over time, will eliminate the need to maintain two types of identifiers. MarketScan data now contain an enrollee identifier that is assigned to all patients regardless of whether enrollment data are present. This “universal” identifier provides continuous person identification for data contributors with prior years of enrollment data in the MarketScan Databases and is more reliable than the historical patient identifier (PATID) assignment method. For data contributors without enrollment data (about 9 percent of covered lives in 2000), an enrollee identifier is derived. A Person Identifier Flag (EIDFLAG) variable describes the source and quality of the enrollee identification derivation and assignment. The method for deriving the enrollee identifier differs depending on whether enrollment or claims data are used and whether the data contributor reports patient date of birth on the claim.

The current patient identifier variables (PATID, MEMID, FAMID) are being maintained for an indefinite period for compatibility with prior year deliverables and analyses. We plan to replace these variables entirely with the universal enrollee identifier variables when practical for our database users.

For more information on the development of the enrollee identifier variables, see [Person-Level Identifiers](#).

Changes in 1999

Adjustment Records

Adjustment records result from corrections made to a paid claim. These records may contain negative amounts in financial or other variables (for example, QTY). Historically, the MarketScan databases have applied an adjustment algorithm to claims on the Outpatient Services Table in an effort to resolve records with negative financial amounts. This algorithm combines financials on the original record with financials on the adjustment record. The financial variables used are PAY, DEDUCT, COPAY, COB, NETPAY.

This year, the adjustment algorithm was reviewed and applied to the Outpatient Pharmaceutical Claims Table. Some negative records remain. These records represent voided claims where the original claim is missing. Users should use discretion in deleting these “orphan” voids, because they were intended to cancel other positive values where we could not link the void and original.

DRG Grouper 17.0

DRG values now are assigned using HCFA Grouper 17.0 values. Sixteen new values have been added.

New Table

An extensive list of RED BOOK variables now is available on the MarketScan Databases. These variables have been included in a separate table (RED BOOK Supplement) to enhance prescription drug analyses. Licensed users of MarketScan Research Databases may use these variables to develop internal reports. The RED BOOK variables are linked to the Outpatient Pharmaceutical Table by the NDC. Many RED BOOK variables have text lookup values in corresponding “description” variables, allowing text searches. We have removed the NDCNUM1 and NDCNUM2 variables from the Outpatient Pharmaceutical Claims Table because manufacturer, product name, and package size information now can be linked from the RED BOOK Table.

Merative licenses the variables from RED BOOK that are listed in the following table.

Variable	Description
DEACLAS	DEA Class Code
DEACLDS	DEA Class Description
DESIDRG	DESI Drug Indicator

Variable	Description
EXCDGDS	Exceptional Drug Description
EXCLDRG	Exceptional Drug Indicator
GENERID	Generic Product ID
GENIND	Generic Indicator
GENNME	Generic Drug Name
GNINDDS	Generic Indicator Description
MAINTDS	Maintenance Indicator Description
MAINTIN	Maintenance Indicator
MANFNME	Manufacturer Name
MASTFRM	Master Form Code
METSIZE	Metric Size
MSTFMDS	Master Form Description
NDCNUM	National Drug Code
ORGBKCD	Orange Book Code
ORGBKDS	Orange Book Code Description
ORGBKFG	Orange Book Standard Flag

Variable	Description
PKQTYCD	Package Quantity Code
PKSIZE	Package Size
PRDCTDS	Product Category Description
PRODCAT	Product Category Code
PRODNAME	Product Name
SIGLSRC	Single Source Indicator
STRNGTH	Strength
THERCLS	Therapeutic Class
THERDTL	Therapeutic Detail Code
THERGRP	Therapeutic Group
THRCLDS	Therapeutic Class Description
THRDTDS	Therapeutic Detail Code Description
THRGRDS	Therapeutic Group Description

Database Renaming

1998

The databases formerly known as Private Pay Fee-for-Service and Encounter were combined and renamed to the MarketScan CCAE Database. The Medicare Database was the MarketScan Medicare Supplemental and COB Database.

Introduction of New Variables

1999

Five-digit state-county variables describing the county of the employee, hospital, provider, and pharmacy were made available. These variables are based on Federal Information Processing Standards (FIPS) state code and county name, where the state code is two digits and the FIPS county code is three digits (for example, 06013, where 06=California and 013=Contra Costa county).

Other new variables are as follows:

- County Employee (EMPCTY)
- County Hospital (HOSPCTY)
- County Provider (PROVCTY)
- County Pharmacy (PHRMCTY)
- Enrollee ID Derivation Flag (EIDFLAG) describes the source of data used to assign ENROLID, EFAMID, and EMEMID as well as the quality of that assignment.
- Date Claim Paid (PDDATE) was assigned to the Inpatient Services, Outpatient Services, and Outpatient Pharmaceutical Claims tables.
- Diagnosis15 (DX15) replaced DX_N. DX_A through DX_N were renamed DX2 through DX15. DX1 is now the PDX.
- Procedure15 (PROC15) replaced PROC_N. PROC_A through PROC_N were renamed PROC2 through PROC15. PROC1 is now the PPROC.
- REGION was added to the Enrollment tables.
- Cohort Drug Indicator (RX) was added to the Populations Table, replacing the three RX(CCYY) variables.

1998

Data Type (DATATYP). Encounter and fee-for-service data now reside in the same database. A data type variable was created to allow users to easily identify and use these data in analyses. DATATYP=1 or 2 identifies fee-for-service and encounter records, respectively, in the CCAE Database. DATATYP=3 and 4 identifies fee-for-service and encounter records, respectively, in the Medicare Supplemental and COB Database.

Payment Indicator (PAYIND). In-network and out-of-network payments for individuals enrolled in managed care plans with network incentives now can be examined. Payment In/Out of Plan values are as follows:

- 1=Pd in plan; in-plan provider
- 2=Pd in plan; out of area
- 3=Pd in plan; referred out
- 4=Pd in plan; other
- 5=Pd out-of-plan (opt-out)

1997

Bundled Deliveries Flag (BUNDELV). This flag indicates that some data contributors may bundle infants' claims with their mother's claims for normal deliveries; hence, there may be no separate record for the newborn in the Inpatient Admissions or Services tables (appears only in 1997 data).

Enrollment_Flag (ENRFLAG). This flag may be used to subset data only to those patients and individuals eligible for coverage from data contributors for whom we have enrollment information. This flag is available on the Inpatient Admissions, Inpatient Services, Outpatient Services, Outpatient Pharmaceutical Claims, and Populations tables.

Physician Specialty Coding Flag (PHYFLAG). This flag may be used to subset to data with highly differentiated physician specialty coding (>70 percent) on claims. This flag is available on the Inpatient Admissions, Inpatient Services, Outpatient Services, Outpatient Pharmaceutical Claims, Populations, and Enrollment tables.

1996

A Sequence Number (SEQNUM) was added to every record in every table. Within each table, this serves as a unique identifier for every record and is useful in file management and file linkage operations.

1995

Coordination of Benefits and Other Savings (COB) replaced the sum of COB Savings (COBSAVE) and Other Savings (OTHSAVE).

- NDCNUM: The concatenation of NDCNUM1 and NDCNUM2. In prior years of data, often only NDCNUM1 and NDCNUM2 were delivered as standard variables, which the user then concatenated to produce the NDCNUM variable.

- PATID: The concatenation of FAMID and MEMID. In prior years of data, often only FAMID and MEMID were delivered as standard variables, which the user then concatenated to produce the PATID variable.

Variable Definition Revisions

1999

ZIP Code variables. Historically, the MarketScan Databases have provided ZIP Code information for enrollees and providers of healthcare services (for example, EMPZIP, HOSPZIP, PROVZIP, PHRMZIP). These variables, when examined with other person-level information (for example, age, sex) may reveal more information about individuals on the file than we are comfortable releasing. Our policy is to protect the confidentiality of individual patients and data contributors. For this reason, we now are releasing a three-digit ZIP Code. We also are delivering State-county variables based on FIPS codes (EMPCTY, HOSPCTY, PROVCTY, PHRMCTY).

State Hospital (STATE). This variable now uses the same set of state code values (01–99) as Geographic Location Employee (EGEOLOC).

Additional revised variables included the following:

- Discharge Status (DSTATUS)
- Dispense as Written Indicator (DAWIND)
- Geographic Location Employee (EGEOLOC)
- Major Diagnostic Category (MDC)
- Hospital State (STATE)
- Place of Service (STDPLAC)
- Treatment Group (TG)
- Therapeutic Group (THERGRP)

1998

Industry (INDSTRY): See Data Dictionary: CCAE_Medicare Data Dictionary tab for the latest values.

1997

Therapeutic Class (THERCLS): See Data Dictionary, Attachment K.

Therapeutic Group (THERGRP): See Data Dictionary, Attachment L.

Maintenance Indicator (MAINTIN)

- New Values (1997 forward):

- 1: Used primarily for long-term treatment of chronic conditions
- 2: Used for both chronic and acute conditions
- 3: Used primarily for short-term treatment of acute conditions
- 4: Other/unavailable

→ Old Values (prior to 1997):

- 1: Maintenance drug

Pharmacy Class (PHCLASS)

→ New Values (1997 forward):

- 0: Other
- 1: Independent
- 2: Chain
- 3: Hospital
- 4: Clinic
- 5: Franchise

→ Old Values (prior to 1997):

- 1: Community Pharmacy
- 2: Chain Pharmacy (4+ stores)
- 3: Hospital Pharmacy
- 4: Clinic Pharmacy
- 5: Nursing home/Ext Care Pharmacy
- 6: Department Store Pharmacy
- 7: Grocery Store Pharmacy
- 8: Other

Generic Indicator (GENIND)

→ New Values (1997 forward):

- 1: Single source brand
- 2: Not used

3: Brand name, generic available

4: Multisource generic 5: Single source generic

6: Over the counter

7: Other/unavailable

→ Old Values (prior to 1997):

1: Brand—Single Source

2: Brand—Multi Source

3: Original Product—Generic Available

4: Generic Product

1996 and Subsequent Years

The missing value for ENROLID is actually “missing” for individuals in data contributors and plans without enrollment information. Prior to 1996, all individuals not receiving an enrollee ID were assigned an ENROLID of all zeroes (that is, 000000000000).

1995 and Subsequent Years

Diagnosis_A through Diagnosis_N and Procedure_A through Procedure_N are true secondary codes in the 1995 data and subsequent years. Previously, these variables could contain the primary diagnosis or procedure code as well as secondary codes.

On the Outpatient Pharmaceutical Claims Table, the financial variables contain amounts accurate to the penny. The enhancement was made to achieve greater accuracy when handling small charge or payment amounts. In prior years of data, the financial variables on the Outpatient Pharmaceutical Claims Table could contain whole dollar amounts.

1994 and Subsequent Years

The number of valid definitions for Plan Indicator (PLANTYP) increased from four to seven for 1994 forward. (Refer to the Data Dictionary for the valid values.)

Variable renames

1999

DX_A through DX_N were made DX2 through DX15, where DX1 is the PDX.

PROC_A through PROC_N were made PROC2 through PROC15, where PROC1 is the PPROC.

On prescription drug variables, the P suffix was removed from financial variables to simplify variable naming.

New Variable Name	Old Variable Name
AWP	AWPP
COB	COBP
COPAY	COPAYP
DEDUCT	DEDUCTP
DISPFEE	DISPFEP
INGCOST	INGCSTP
NETPAY	NETPAYP
PAY	PAYP
SALETAX	SALETXP

CASEINP/INP

There is now one variable to identify a hospital admission and its related services:

- CASEINP was renamed CASEID.
- INP was renamed CASEID.

1996

New Variable Name	Old Variable Name
MEDCCYY ^a	MEDYY
RXCCYY	RXYY

^a CCYY represents the century and year (for example, 1997).

Variable Renames in DataProbe. The following variable aliases were renamed in DataProbe for the 1995 database and subsequent years. The variable definitions have not changed.

New Variable Name	Old Variable Name
SEX	SEX
PLANTYP	TYPE
PATID	PATNT
MEDyy ^a	CMEDyy ^a
Rxyy ^a	CDRUGyy ^a

^a yy represents specific year of data.

Deletion of variables

1999

NDCNUM1 and NDCNUM2 were removed from the Outpatient Pharmaceutical Claims Table and are now available in the RED BOOK Table.

MED(CCY) variables were eliminated from the database to simplify use. Information on whether the data contributor had medical data in a specific year can be derived from the Enrollment tables.

RX (CCY) variables were removed from the Populations Table. In their place, the Cohort Drug Indicator (RX) describes plans with available drug data in 1999. RXCCY variables (RX1993 to RX1999) are present in the Enrollment Tables for CCAE, and RX1998 and RX1999 are present for Medicare Supplemental and COB data. These variables allow users to subset on enrollees with prescription drug claims for those years.

1998

The Bundled Deliveries Flag (BUNDELV) variable was eliminated. This variable was delivered for the first time in the 1997 research databases and was intended to indicate claims with a bundled charge for the baby and mother during normal deliveries. After careful review, we concluded that the data needed to accurately develop this variable were not available for all data contributors.

1996

The State_Employee (EMPSTAT) variable was deleted. Please refer to other employee-specific geographic variables: Employee Geographic Location (EGEOLOC) and Employee ZIP Code (EMPZIP).

The following variables were deleted in the database for 1995 and subsequent years:

- The Disease Staging variables (EXPMORT, LOSCALE, LOSERR, PDXCAT, STAGE, RDSCALE, RDERR, and TRIMRD) are no longer delivered as standard variables, unless the Disease Staging application has been licensed.
- AHAIID was deleted from the Inpatient Admissions Table and the Inpatient Services Table.
- QCC, QDEATHS, and QTRACER were deleted from the Inpatient Admissions Table.
- STDPLAC was deleted from the Outpatient Pharmaceutical Claims Table because the Place was always set to “outpatient.”

Tables removed

1999

The COHORT Selection Table is one of three methods for selecting data contributors and plans with prescription drug claims. This file was developed because not all data contributors provide prescription drug information to the MarketScan Databases. The table does not ensure that a family opted for that coverage or had claims in a given year.

To simplify the use of the database and reduce the number of redundant variables, we have eliminated this table. Users may continue to use the Cohort Drug Indicator (RX)—now available on the Claims and Population tables—or the RXCCYY variable on the Enrollment tables to identify enrollees with drug coverage in a given data year.

Bibliography

In preparing an analytic plan, it may be useful to refer to studies that have used the MarketScan Research Databases. It also may be helpful to examine other references regarding analysis of administrative data from these databases. Since 1988, healthcare researchers have used MarketScan data to understand disease progression, treatment patterns, health outcomes, and their associated costs to patients, employers, health plans, and the government. The MarketScan Databases are fully compliant with the Health Insurance Portability and Accountability Act (HIPAA) of 1996. They are considered the gold standard in proprietary databases used for healthcare research in the United States. More than 3,000 publications are available in the literature using MarketScan Data since the first article by J.B. Hillman and colleagues appeared in the *New England Journal of Medicine* in 1990. Research using MarketScan data has made a substantial contribution to the body of literature used to formulate policy decisions and improve healthcare for Americans.

The following shows a selection of recent published articles. These and prior years can be accessed through PubMed and other sources.

MarketScan Studies: abbreviated bibliography

Pollack LM, Chen J, Cox S, Luo F, Robbins CL, Tevendale H, Li R, Ko JY. Rural/urban differences in health care utilization and costs by perinatal depression status among commercial enrollees. *J Rural Health*. 2023 Jul 19. doi: 10.1111/jrh.12775. Epub ahead of print. PMID: 37467110.

Kumar A, Lutsey PL, St Peter WL, Schommer JC, Van't Hof JR, Rajpurohit A, Farley JF. Prescription patterns of P2Y12 inhibitors following revascularization in the United States: 2013–2018. *Clin Transl Sci*. 2023 Oct;16(10):1886–1897. doi:

10.1111/cts.13596. Epub 2023 Aug 3. PMID: 37466284; PMCID: PMC10582679.

Riaz M, Smith SM, Dietrich EA, Winchester DE, Guo J, Park H. Comparative effectiveness of sodium-glucose cotransporter-2 inhibitors among patients with heart failure with preserved ejection fraction. *Pharmacotherapy*. 2023 Oct;43(10):1024–1031. doi: 10.1002/phar.2853. Epub 2023 Jul 23. PMID: 37459069.

Khandker R, Chekani F, Limone B, Riehle E. Prevalence and impact of antipsychotic discontinuation among commercially-

insured patients with bipolar disorder. *J Med Econ.* 2023 Jan-Dec;26(1):878-885. doi: 10.1080/13696998.2023.2228165. PMID: 37455610.

Longwolf KJ, Johnson CE, Horns JJ, Hotaling JM, Brooke BS. Exogenous Testosterone Replacement Therapy Is Associated with Increased Risk for Vascular Graft Infections Among Hypogonadal Men. *Ann Vasc Surg.* 2023 Nov;97:113-120. doi: 10.1016/j.avsg.2023.06.035. Epub 2023 Jul 13. PMID: 37453467.

Patel AA, Ferrante SA, Lin I, Fu AZ, Campbell AK, Tieng A. Racial and Ethnic Disparities in Treatment Initiation Among Patients with Newly Diagnosed Psoriatic Arthritis: A Retrospective Medicaid Claims Database Study. *Rheumatol Ther.* 2023 Oct;10(5):1241-1253. doi: 10.1007/s40744-023-00580-y. Epub 2023 Jul 15. PMID: 37453020; PMCID: PMC10468443.

Lillis R, Kuritzky L, Huynh Z, Arcenas R, Hansra A, Shah R, Yang B, Taylor SN. Outpatient sexually transmitted infection testing and treatment patterns in the United States: a real-world database study. *BMC Infect Dis.* 2023 Jul 13;23(1):469. doi: 10.1186/s12879-023-08434-2. PMID: 37442964; PMCID: PMC10339584.

Rochlin DH, Matros E, Shamsunder MG, Rubenstein R, Nelson JA, Sheckter CC. Plastic surgery market share of breast reconstructive procedures: An analysis of two nationwide databases. *J Surg Oncol.* 2023 Dec;128(7):1064-1071. doi:

10.1002/jso.27398. Epub 2023 Jul 13. PMID: 37439094; PMCID: PMC10592339.

Xu KY, Schiff DM, Jones HE, Martin CE, Kelly JC, Bierut LJ, Carter EB, Grucza RA. Racial and Ethnic Inequities in Buprenorphine and Methadone Utilization Among Reproductive-Age Women with Opioid Use Disorder: an Analysis of Multi-state Medicaid Claims in the USA. *J Gen Intern Med.* 2023 Jul 12. doi: 10.1007/s11606-023-08306-0. Epub ahead of print. PMID: 37436568.

Wang CY, Shao C, McDonald AC, Amonkar MM, Zhou W, Bortnichak EA, Liu X. Evaluation and Comparison of Real-World Databases for Conducting Research in Patients With Colorectal Cancer. *JCO Clin Cancer Inform.* 2023 Jul;7:e2200184. doi: 10.1200/CCI.22.00184. PMID: 37437227.

Raman SR, Ford CB, Hammill BG, Clark AG, Clifton DC, Jackson GL. Non-overdose acute care hospitalizations for opioid use disorder among commercially-insured adults: a retrospective cohort study. *Addict Sci Clin Pract.* 2023 Jul 11;18(1):42. doi: 10.1186/s13722-023-00396-9. PMID: 37434260; PMCID: PMC10337199.

Wilkinson RL, Isakov RV, Anele UA, Castillo C, Herrity A, Sharma M, Wang D, Boakye M, Ugiliweneza B. Depression phenotypes in spinal cord injury and impact on post-injury healthcare utilization and cost: Analysis using a large claim database. *J Spinal Cord Med.* 2023 Jul 11:1-16. doi: 10.1080/10790268.2023.2223446. Epub ahead of print. PMID: 37432058.

Udeze C, Evans KA, Yang Y, Lillehaugen T, Manjelienskaia J, Mujumdar U, Li N, Andemariam B. Economic and clinical burden of managing transfusion-dependent β -thalassemia in the United States. *J Med Econ*. 2023 Jan-Dec;26(1):924-932. doi: 10.1080/13696998.2023.2235928. PMID: 37432699.

Brunner HI, Vadhariya A, Dickson C, Crandall W, Kar-Chan Choong C, Birt JA, Ruperto N, Ramanan AV. Treatment patterns in paediatric and adult patients with SLE: a retrospective claims database study in the USA. *Lupus Sci Med*. 2023 Jul;10(2):e000817. doi: 10.1136/lupus-2022-000817. PMID: 37429670; PMCID: PMC10335505.

Henderson M, Horton DB, Bhise V, Pal G, Bushnell G, Dave CV. Initiation Patterns of Disease-Modifying Therapies for Multiple Sclerosis Among US Adults and Children, 2001 Through 2020. *JAMA Neurol*. 2023 Aug 1;80(8):860-867. doi: 10.1001/jamaneurol.2023.2125. PMID: 37428482; PMCID: PMC10334299.

Sampath AJ, Paci K, Carrasquillo OY, Maczuga S, Butt M, Merritt B, Helm M, Foulke GT. Retrospective analysis shows the cost of Mohs surgery decreases when adjusted for medical inflation. *J Am Acad Dermatol*. 2023 Nov;89(5):1001-1006. doi: 10.1016/j.jaad.2023.06.041. Epub 2023 Jul 6. PMID: 37422019.

Wang W, Chen LY, Walker RF, Chow LS, Norby FL, Alonso A, Pankow JS, Lutsey PL. SGLT2 Inhibitors Are Associated With Reduced Cardiovascular Disease in Patients With Type 2 Diabetes: An Analysis of Real-World Data. *Mayo Clin Proc*. 2023 Jul;98(7):985-996. doi: 10.1016/j.mayocp.2023.01.023. PMID: 37419588; PMCID: PMC10348449.

Sohani ZN, Behloul H, de Moura CS, Abrahamowicz M, Pilote L. Sex Differences in the Effectiveness of Angiotensin-Converting Enzyme Inhibitors, Angiotensin II Receptor Blockers, and Sacubitril-Valsartan for the Treatment of Heart Failure. *J Am Heart Assoc*. 2023 Jul 18;12(14):e028865. doi: 10.1161/JAHA.122.028865. Epub 2023 Jul 8. PMID: 37421275; PMCID: PMC10382087.

Goel V, Kaizer AM, Jain S, Darrow D, Shankar H. Intraoperative neurophysiological monitoring and spinal cord stimulator implantation. *Reg Anesth Pain Med*. 2023 Jul 5:rapm-2023-104325. doi: 10.1136/rapm-2023-104325. Epub ahead of print. PMID: 37407277.

Flume PA, Feliciano J, Lucci M, Wu J, Fucile S, Hassan M, Chatterjee A. Pulmonary exacerbations in insured patients with bronchiectasis over 2 years. *ERJ Open Res*. 2023 Jul 3;9(4):00021-2023. doi: 10.1183/23120541.00021-2023. PMID: 37404848; PMCID: PMC10316032.

Burnette A, Wang Y, Rane PB, Chung Y, Princic N, Park J, Llanos JP, Lindsley AW, Ambrose CS. Incremental cost burden

among patients with severe uncontrolled asthma in the United States. *J Manag Care Spec Pharm*. 2023 Jul;29(7):825-834. doi: 10.18553/jmcp.2023.29.7.825. PMID: 37404066; PMCID: PMC10387979.

Liu J, Johnson KD, Shoener Dunham L. Pneumococcal vaccination coverage among US adults enrolled in Medicaid and newly diagnosed with underlying medical conditions. *Expert Rev Vaccines*. 2023 Jan-Dec;22(1):596-607. doi: 10.1080/14760584.2023.2226718. PMID: 37401893.

Wickwire EM, Juday TR, Kelkar M, Heo J, Margiotta C, Frech FH. Economic burden of comorbid insomnia in 5 common medical disease subgroups. *J Clin Sleep Med*. 2023 Jul 1;19(7):1293-1302. doi: 10.5664/jcsm.10592. PMID: 37394794; PMCID: PMC10315590.

Tait C, Patel AH, Li Y, Minacapelli CD, Rustgi V. Surgery in Nonalcoholic Cirrhosis: Clinical Outcomes, Healthcare Utilization, and Cost Analysis. *Cureus*. 2023 May 31;15(5):e39762. doi: 10.7759/cureus.39762. PMID: 37398824; PMCID: PMC10313236.

Shridharmurthy D, Lapane KL, Nunes AP, Baek J, Weisman MH, Kay J, Liu SH. Postpartum Depression in Reproductive-Age Women With and Without Rheumatic Disease: A Population-Based Matched Cohort Study. *J Rheumatol*. 2023 Oct;50(10):1287-1295. doi: 10.3899/jrheum.2023-0105. Epub 2023 Jul 1. PMID: 37399461.

Shah CH, Princic N, Evans KA, Schultz BG. Real-world changes in costs over time among patients in the United States with hereditary angioedema on long-term prophylaxis with lanadelumab. *J Med Econ*. 2023 Jan-Dec;26(1):871-877. doi: 10.1080/13696998.2023.2232260. PMID: 37395381.

Das AK, Chang E, Paydar C, Broder MS, Orroth KK, Cordey M. Correction: Apremilast Adherence and Persistence in Patients with Psoriasis and Psoriatic Arthritis in the Telehealth Setting Versus the In-person Setting During the COVID-19 Pandemic. *Dermatol Ther (Heidelb)*. 2023 Sep;13(9):1985. doi: 10.1007/s13555-023-00984-2. Erratum for: *Dermatol Ther (Heidelb)*. 2023 Sep;13(9):1973-1984. PMID: 37482565; PMCID: PMC10442299.

Finkelstein J, Huo X. The Efficacy of Long-Term Hydroxychloroquine Use in the Prevention of COVID-19: A Retrospective Cohort Study. *Stud Health Technol Inform*. 2023 Jun 29;305:303-306. doi: 10.3233/SHTI230489. PMID: 37387023.

Groene EA, Norby FL, Eaton AA, Mason SM, Enns EA, Kulasingam S, Vock DM. Diagnosed Gonorrhea Among Privately Insured Women: Analysis of United States Claims Data. *J Womens Health (Larchmt)*. 2023 Sep;32(9):942-949. doi: 10.1089/jwh.2023.0006. Epub 2023 Jun 29. PMID: 37384920; PMCID: PMC10510688.

Garg M, Venugopalan V, Vouri SM, Diaby V, Iovine NM, Park H. Oral fluoroquinolones and risk of aortic aneurysm or dissection: A

nationwide population-based propensity score-matched cohort study.

Pharmacotherapy. 2023 Sep;43(9):883-893. doi: 10.1002/phar.2841. Epub 2023 Jul 11. PMID: 37381584.

Blumenfeld YJ, Marić I, Stevenson DK, Gibbs RS, Shaw GM. Persistent Bacterial Vaginosis and Risk for Spontaneous Preterm Birth. Am J Perinatol. 2023 Jun 28. doi: 10.1055/s-0043-1770703. Epub ahead of print. PMID: 37379861.

Dhingra R, Keeler C, Staley BS, Jardel HV, Ward-Caviness C, Rebuli ME, Xi Y, Rappazzo K, Hernandez M, Chelminski AN, Jaspers I, Rappold AG. Wildfire smoke exposure and early childhood respiratory health: a study of prescription claims data. Environ Health. 2023 Jun 27;22(1):48. doi: 10.1186/s12940-023-00998-5. PMID: 37370168; PMCID: PMC10294519.

Abed V, Lemaster NG, Hawk GS, Thompson KL, Conley CEW, Mair SD, Jacobs CA. Patients With Depression and/or Anxiety Having Arthroscopic Rotator Cuff Repair Show Decreased Number of Prescriptions and Number of Psychotherapy Sessions in the Year After Surgery. Arthroscopy. 2023 Dec;39(12):2438-2442.e9. doi: 10.1016/j.arthro.2023.05.032. Epub 2023 Jun 22. PMID: 37355188.

To TM, Ta JT, Patel AM, Arndorfer S, Abbass IM, Gandhi R. Healthcare resource utilization and cost among individuals with late-onset versus adult-onset Huntington's disease: a claims-based retrospective

cohort study. J Med Econ. 2023 Jan-Dec;26(1):862-870. doi: 10.1080/13696998.2023.2228166. PMID: 37350423.

Xie F, Beukelman T, Sun D, Yun H, Curtis JR. Identifying inpatient mortality in MarketScan claims data using machine learning. Pharmacoepidemiol Drug Saf. 2023 Nov;32(11):1299-1305. doi: 10.1002/pds.5658. Epub 2023 Jul 5. PMID: 37344984.

Lanz MJ, Gilbert IA, Gandhi HN, Pollack M, Tkacz JP, Lugogo NL. Patterns of rescue and maintenance therapy claims surrounding a clinical encounter for an asthma exacerbation. Ann Allergy Asthma Immunol. 2023 Oct;131(4):458-465.e1. doi: 10.1016/j.anai.2023.06.018. Epub 2023 Jun 19. PMID: 37343824.

Bakri SJ, Delyfer MN, Grauslund J, Andersen S, Karcher H. Real-World Persistence and Treatment Interval in Patients with Diabetic Macular Edema Treated with Anti-Vascular Endothelial Growth Factors in the USA. Ophthalmol Ther. 2023 Oct;12(5):2465-2477. doi: 10.1007/s40123-023-00750-9. Epub 2023 Jun 22. PMID: 37347405; PMCID: PMC10441838.

Vemuru SR, Bronsert M, Vossler K, Huynh VD, Beaty L, Ahrendt G, Arruda J, Kaoutzanis C, Rojas KE, Bozzuto L, Kim S, Tevis SE. Postoperative Outcomes After Staged Versus Coordinated Breast Surgery and Bilateral Salpingo-Oophorectomy. Ann Surg Oncol. 2023 Sep;30(9):5667-5680.

doi: 10.1245/s10434-023-13630-0. Epub 2023 Jun 19. PMID: 37336806.

Udeze C, Evans KA, Yang Y, Lillehaugen T, Manjelienskaia J, Mujumdar U, Li N, Andemariam B. Economic and Clinical Burden of Managing Sickle Cell Disease with Recurrent Vaso-Occlusive Crises in the United States. *Adv Ther*. 2023 Aug;40(8):3543-3558. doi: 10.1007/s12325-023-02545-7. Epub 2023 Jun 18. PMID: 37332020; PMCID: PMC10329958.

Shafer PR, Dusetzina SB, Sabik LM, Platts-Mills TF, Stearns SC, Trogon JG. High Deductible Health Plans and Use of Free Preventive Services Under the Affordable Care Act. *Inquiry*. 2023 Jan-Dec;60:469580231182512. doi: 10.1177/00469580231182512. PMID: 37329296; PMCID: PMC10278429.

Kulkarni A, Chen L, Gockley A, Khoury-Collado F, Hou J, Clair CST, Melamed A, Hershtan DL, Wright JD. Patterns of cervical cancer screening follow-up in the era of prolonged screening intervals. *Gynecol Oncol*. 2023 Aug;175:53-59. doi: 10.1016/j.ygyno.2023.06.007. Epub 2023 Jun 14. PMID: 37327539.

Horný M, Yabroff KR, Filson CP, Zheng Z, Ekwueme DU, Richards TB, Howard DH. The cost burden of metastatic prostate cancer in the US populations covered by employer-sponsored health insurance. *Cancer*. 2023 Oct 15;129(20):3252-3262. doi: 10.1002/cncr.34905. Epub 2023 Jun 17. PMID: 37329254; PMCID: PMC10527879.

Runge W, Gabig AM, Karzon A, Suh N, Wagner ER, Gottschalk MB. Prolonged Opioid Use Following Distal Radius Fracture Fixation: Who Is at Risk and What are the Consequences? *J Hand Surg Glob Online*. 2023 Mar 31;5(3):338-343. doi: 10.1016/j.jhsg.2023.03.003. PMID: 37323974; PMCID: PMC10264856.

Lundeen EA, Burke-Conte Z, Rein DB, Wittenborn JS, Saaddine J, Lee AY, Flaxman AD. Prevalence of Diabetic Retinopathy in the US in 2021. *JAMA Ophthalmol*. 2023 Aug 1;141(8):747-754. doi: 10.1001/jamaophthalmol.2023.2289. PMID: 37318810; PMCID: PMC10273133.

Aqua JK, Ford ND, Pollack LM, Lee JS, Kuklina EV, Hayes DK, Vaughan AS, Coronado F. Timing of outpatient postpartum care utilization among women with chronic hypertension and hypertensive disorders of pregnancy. *Am J Obstet Gynecol MFM*. 2023 Sep;5(9):101051. doi: 10.1016/j.ajogmf.2023.101051. Epub 2023 Jun 13. PMID: 37315845; PMCID: PMC10527898.

Song X, Chen CI, Konidaris G, Zimmerman NM, Ruiz E. Real-world analysis of cost, treatment patterns, and outcomes of patients with metastatic cutaneous squamous cell carcinoma in the US. *Expert Rev Pharmacoecon Outcomes Res*. 2023 Jun 21:1-10. doi: 10.1080/14737167.2023.2223982. Epub ahead of print. PMID: 37313647.

Rebeiro PF, Emond B, Rossi C, Bookhart BK, Shah A, Caron-Lapointe G, Lafeuille MH, Donga P. Incidence of cardiometabolic outcomes among people living with HIV-1 initiated on integrase strand transfer inhibitor versus non-integrase strand transfer inhibitor antiretroviral therapies: a retrospective analysis of insurance claims in the United States. *J Int AIDS Soc.* 2023 Jun;26(6):e26123. doi: 10.1002/jia2.26123. PMID: 37306118; PMCID: PMC10258864.

Fischer NM, Nieuwenhuis TO, Hazimeh D, Voegtline K, Singh B, Segars JH. Beta blockers reduce uterine fibroid incidence in hypertensive women. *Eur J Obstet Gynecol Reprod Biol.* 2023 Aug;287:119-125. doi: 10.1016/j.ejogrb.2023.05.028. Epub 2023 May 26. PMID: 37307764.

Ben-Joseph RH, Saad R, Black J, Dabrowski EC, Taylor B, Gallucci S, Somers VK. Cardiovascular Burden of Narcolepsy Disease (CV-BOND): a real-world evidence study. *Sleep.* 2023 Oct 11;46(10):zsad161. doi: 10.1093/sleep/zsad161. PMID: 37305967; PMCID: PMC10566243.

Ludwig CA, Vail D, Al-Moujahed A, Callaway NF, Saroj N, Moshfeghi A, Moshfeghi DM. Epidemiology of rhegmatogenous retinal detachment in commercially insured myopes in the United States. *Sci Rep.* 2023 Jun 9;13(1):9430. doi: 10.1038/s41598-023-35520-x. PMID: 37296124; PMCID: PMC10256775.

Kim K, Pacula RL, Dick AW, Stein BD, Druss BG, Agbese E, Cohrs AC, Leslie DL.

Medical marijuana access and prolonged opioid use among adolescents and young adults. *Am J Addict.* 2023 Sep;32(5):479-487. doi: 10.1111/ajad.13440. Epub 2023 Jun 8. PMID: 37291067.

Wickwire EM, Juday TR, Gor D, Amari DT, Frech FH. Benzodiazepine Usage, Healthcare Resource Utilization, and Costs Among Older Adults Treated with Common Insomnia Medications: A Retrospective Cohort Study. *Clinicoecon Outcomes Res.* 2023 Jun 2;15:413-424. doi: 10.2147/CEOR.S406137. PMID: 37287898; PMCID: PMC10243345.

Lin D, Pilon D, Morrison L, Shah A, Lafeuille MH, Lefebvre P, Benson C. A Cross-Sectional Study of Patient Out-of-Pocket Costs for Antipsychotics Among Medicaid Beneficiaries with Schizophrenia. *Drugs Real World Outcomes.* 2023 Sep;10(3):471-480. doi: 10.1007/s40801-023-00376-0. Epub 2023 Jun 8. PMID: 37289413; PMCID: PMC10491554.

Wang W, Chen C, Re VL 3rd, Chang SH, Wilson DL, Park H. Association between treatment of hepatitis C virus and risk of cardiovascular disease among insured patients with the virus in the United States. *Pharmacoepidemiol Drug Saf.* 2023 Oct;32(10):1142-1151. doi: 10.1002/pds.5651. Epub 2023 Jun 15. PMID: 37278688; PMCID: PMC10655016.

Ito D, Feng C, Fu C, Kim C, Wu J, Epstein J, Snider JT, DuVall AS. Health resource utilization and costs of care for adult patients with relapsed or refractory mantle

cell lymphoma in the United States: a retrospective claims analysis. *Expert Rev Pharmacoecon Outcomes Res.* 2023 Jul-Dec;23(7):773-787. doi: 10.1080/14737167.2023.2216458. Epub 2023 Jun 6. PMID: 37278284.

Xing S, Batt K, Kuharic M, Bullano M, Caicedo J, Chakladar S, Markan R, Farahbakhshian S. Evaluation of clinical characteristics, health care resource utilization, and cost outcomes of hemophilia A carriers and noncarriers in the United States: A real-world comparative analysis. *J Manag Care Spec Pharm.* 2023 Jun;29(6):626-634. doi: 10.18553/jmcp.2023.29.6.626. PMID: 37276033; PMCID: PMC10387947.

Sarayani A, Brown JD, Hamp C, Donahoo WT, Winterstein AG. Adaptability of High Dimensional Propensity Score Procedure in the Transition from ICD-9 to ICD-10 in the US Healthcare System. *Clin Epidemiol.* 2023 May 29;15:645-660. doi: 10.2147/CLEP.S405165. PMID: 37274833; PMCID: PMC10237200.

Hoffmann JA, Pulcini CD, Hall M, De Souza HG, Alpern ER, Chaudhary S, Ehrlich PF, Fein JA, Fleegler EW, Goyal MK, Hargarten S, Jeffries KN, Zima BT. Timing of Mental Health Service Use After a Pediatric Firearm Injury. *Pediatrics.* 2023 Jul 1;152(1):e2023061241. doi: 10.1542/peds.2023-061241. PMID: 37271760.

Hebert KJ, Matta R, Fendereski K, Horns JJ, Paudel N, Das R, Viers BR, Hotaling J,

McCormick BJ, Myers JB. Genitourinary Radiation Injury Following Prostate Cancer Treatment: Assessment of Cost and Health Care System Burden. *Urology.* 2023 Sep;179:166-173. doi: 10.1016/j.urology.2023.03.056. Epub 2023 May 30. PMID: 37263424.

Araujo L, Kyatham S, Bzdek KG, Higuchi K, Greene N. Assessing the Health Economic Outcomes from Commercially Insured Relapsing Multiple Sclerosis Patients Who Switched from Other Disease-Modifying Therapies to Teriflunomide, in the United States. *Clinicoecon Outcomes Res.* 2023 May 20;15:361-373. doi: 10.2147/CEOR.S401687. PMID: 37234086; PMCID: PMC10208242.

Rodrigues AJ, Varshneya K, Stienen MN, Schonfeld E, Than KD, Veeravagu A. Clinical Outcomes and Cost Profiles for Cage and Allograft Anterior Cervical Discectomy and Fusion Procedures in the Adult Population: A Propensity Score-Matched Study. *Asian Spine J.* 2023 Aug;17(4):620-631. doi: 10.31616/asj.2022.0261. Epub 2023 May 25. PMID: 37226385; PMCID: PMC10460669.

Rodrigues AJ, Schonfeld E, Varshneya K, Stienen MN, Veeravagu A. The Impact of Preoperative Myelopathy on Postoperative Outcomes among Anterior Cervical Discectomy and Fusion Procedures in the Nonelderly Adult Population: A Propensity-Score Matched Study. *Asian Spine J.* 2023 Aug;17(4):693-702. doi:

10.31616/asj.2022.0347. Epub 2023 May 25. PMID: 37226379; PMCID: PMC10460652.

Reilly GP, Gregory DA, Scotti DJ, Lederman S, Neiman WA, Sussman S, M Bean L, Ekono MM. A real-world comparison of the clinical and economic utility of OVA1 and CA125 in assessing ovarian tumor malignancy risk. *J Comp Eff Res*. 2023 Jun;12(6):e230025. doi: 10.57264/cer-2023-0025. Epub 2023 May 22. PMID: 37212790; PMCID: PMC10402905.

Lin F, Wilson K, Kwong WJ, Abraham JA. Understanding the Effect of Osteoarthritis on Surgical Treatment Patterns, Healthcare Resource Utilization, and Costs Among Patients With Tenosynovial Giant Cell Tumors. *J Am Acad Orthop Surg Glob Res Rev*. 2023 May 22;7(5):e23.00047. doi: 10.5435/JAAOSGlobal-D-23-00047. PMID: 37216288; PMCID: PMC10205369.

Shaw JG, Goldthwaite LM, Marić I, Shaw KA, Stevenson DK, Shaw GM. Postpartum long-acting reversible contraception among privately insured: U.S. National analysis 2007-2016, by term and preterm birth. *Contraception*. 2023 Sep;125:110065. doi: 10.1016/j.contraception.2023.110065. Epub 2023 May 18. PMID: 37210023.

Yamazaki M, Chung H, Xu Y, Qiu H. Trends in the prevalence and incidence of ulcerative colitis in Japan and the US. *Int J Colorectal Dis*. 2023 May 19;38(1):135. doi: 10.1007/s00384-023-04417-6. PMID: 37204516; PMCID: PMC10198866.

Huo X, Finkelstein J. Using Big Data to Uncover Association Between Sildenafil Use and Reduced Risk of Alzheimer's Disease. *Stud Health Technol Inform*. 2023 May 18;302:866-870. doi: 10.3233/SHTI230291. PMID: 37203519.

Cuker A, Tkacz J, Manjelievskaia J, Haenig J, Maier J, Bussel JB. Overuse of corticosteroids in patients with immune thrombocytopenia (ITP) between 2011 and 2017 in the United States. *EJHaem*. 2023 Apr 1;4(2):350-357. doi: 10.1002/jha2.684. PMID: 37206283; PMCID: PMC10188501.

Wise JM, Jackson EA, Kempf MC, Oates GR, Wang Z, Overton ET, Siddiqui M, Woodward M, Rosenson RS, Muntner P. Sex differences in incident atherosclerotic cardiovascular disease events among women and men with HIV. *AIDS*. 2023 Sep 1;37(11):1661-1669. doi: 10.1097/QAD.0000000000003592. Epub 2023 May 3. PMID: 37195280.

Layton JB, Ritchey ME, Huang Z, Chavan S, Ay H, Souayah N, Anderson-Smits C. Intravenous Immunoglobulin Initiation in Patients with Chronic Inflammatory Demyelinating Polyradiculoneuropathy: A US Claims-based Cohort Study. *Neurol Ther*. 2023 Aug;12(4):1171-1186. doi: 10.1007/s40120-023-00479-4. Epub 2023 May 17. PMID: 37195408; PMCID: PMC10310640.

Bastawrous AL, Shih IF, Li Y, Khalil M, Almaz B, Cleary RK. Health-care expenditures are less for minimally invasive than open colectomy for colon cancer: A

US commercial claims database analysis. *Surg Endosc.* 2023 Aug;37(8):6278-6287. doi: 10.1007/s00464-023-10104-y. Epub 2023 May 16. PMID: 37193891; PMCID: PMC10338385.

Schapiro D, Juneja R, Huang A, Meeks A, Liu D, Gelsey FT, Perez-Nieves M. Real-World Patterns of Basal Insulin Use with Other Diabetes Medications Among People with Type 2 Diabetes Between 2014 and 2020. *Diabetes Ther.* 2023 Jul;14(7):1157-1174. doi: 10.1007/s13300-023-01414-4. Epub 2023 May 15. PMID: 37184630; PMCID: PMC10241716.

Hooper RC, Tong Y, Sanders HM, Wang L, Chung KC. AN ANALYSIS OF TREATMENT CHOICES AMONG WHITE AND AFRICAN AMERICAN MEDICAID PATIENTS WITH CARPAL TUNNEL SYNDROME. *Plast Reconstr Surg.* 2023 May 15. doi: 10.1097/PRS.00000000000010640. Epub ahead of print. PMID: 37184528.

Connell NT, Caicedo J, Nieto N, Chatterjee S, Hait A, Gupta AK, Bullano M, Schultz BG. Real-world healthcare costs and resource utilization in patients with von Willebrand disease and angiodysplasia. *Expert Rev Pharmacoecon Outcomes Res.* 2023 Jul-Dec;23(6):691-699. doi: 10.1080/14737167.2023.2211270. Epub 2023 May 15. PMID: 37183836.

Blank LJ, Agarwal P, Kwon CS, Jetté N. Association of first anti-seizure medication choice with injuries in older adults with newly diagnosed epilepsy. *Seizure.* 2023 Jul;109:20-25. doi:

10.1016/j.seizure.2023.05.006. Epub 2023 May 7. PMID: 37178662.

Navneet S, Brandon C, Simpson K, Rohrer B. Exploring the Therapeutic Potential of Elastase Inhibition in Age-Related Macular Degeneration in Mouse and Human. *Cells.* 2023 May 3;12(9):1308. doi: 10.3390/cells12091308. PMID: 37174708; PMCID: PMC10177483.

Naidu SS, Sutton MB, Gao W, Fine JT, Xie J, Desai NR, Owens AT. Frequency and clinicoeconomic impact of delays to definitive diagnosis of obstructive hypertrophic cardiomyopathy in the United States. *J Med Econ.* 2023 Jan-Dec;26(1):682-690. doi: 10.1080/13696998.2023.2208966. PMID: 37170479.

Anderson-Smits C, Ritchey ME, Huang Z, Chavan S, Souayah N, Ay H, Layton JB. Intravenous Immunoglobulin Treatment Patterns and Outcomes in Patients with Chronic Inflammatory Demyelinating Polyradiculoneuropathy: A US Claims Database Analysis. *Neurol Ther.* 2023 Aug;12(4):1119-1132. doi: 10.1007/s40120-023-00478-5. Epub 2023 May 12. PMID: 37171778; PMCID: PMC10310601.

Raheem OA, Xing MH, Cooper CA, Hyman MJ, Khera M, Modi PK. Increasing Role of the Advanced Practice Provider in Men's Health Clinics: An Analysis of Medicare and Commercial Claims in the United States. *Urol Pract.* 2023 Jul;10(4):320-325. doi: 10.1097/UPJ.0000000000000402. Epub 2023 May 11. PMID: 37167418.

Kang HR, Jones BL, Lo-Ciganic WH, DeRemer CE, Dietrich EA, Huang PL, Park H. Trajectories of adherence to extended treatment with warfarin and risks of recurrent venous thromboembolism and major bleeding. *Res Pract Thromb Haemost.* 2023 Mar 27;7(3):100131. doi: 10.1016/j.rpth.2023.100131. PMID: 37159747; PMCID: PMC10163671.

Earla JR, Li J, Hutton GJ, Johnson ML, Aparasu RR. Comparative adherence trajectories of oral disease-modifying agents in multiple sclerosis. *Pharmacotherapy.* 2023 Jun;43(6):473-484. doi: 10.1002/phar.2810. Epub 2023 May 22. Erratum in: *Pharmacotherapy.* 2023 Aug 21;: PMID: 37157135.

Ly DP, Giuriato MA, Song Z. Changes in Prescription Drug and Health Care Use Over 9 Years After the Large Drug Price Increase for Colchicine. *JAMA Intern Med.* 2023 Jul 1;183(7):670-676. doi: 10.1001/jamainternmed.2023.0898. PMID: 37155179; PMCID: PMC10167599.

Armstrong AW, Patel M, Li C, Garg V, Mandava MR, Wu JJ. Real-world switching patterns and associated characteristics in patients with psoriasis treated with biologics in the United States. *J Dermatolog Treat.* 2023 Dec;34(1):2200870. doi: 10.1080/09546634.2023.2200870. PMID: 37154473.

Hyman MJ, Skondra D, Aggarwal N, Moir J, Boucher N, McKay BS, MacCumber MW, Lavine JA. Levodopa Is Associated with Reduced Development of Neovascular

Age-Related Macular Degeneration. *Ophthalmol Retina.* 2023 Sep;7(9):745-752. doi: 10.1016/j.oret.2023.04.014. Epub 2023 May 3. PMID: 37146684; PMCID: PMC10524303.

Guettabi M, Witman A. Universal cash transfers and prescription utilization: Evidence from the Alaska permanent fund dividend. *J Health Econ.* 2023 Jul;90:102758. doi: 10.1016/j.jhealeco.2023.102758. Epub 2023 Apr 11. PMID: 37146407.

Batt K, Xing S, Kuharic M, Bullano M, Caicedo J, Chakladar S, Markan R, Farahbakhshian S. Real-world analysis of patients with haemophilia A and haemophilia A carriers in the United States: Demographics, clinical characteristics and costs. *Haemophilia.* 2023 May;29(3):809-818. doi: 10.1111/hae.14794. Epub 2023 May 6. PMID: 37148500.

Mgboji GE, Varadaraj V, Thanitcul C, Canner JK, Woreta FA, Soiberman US, Srikumaran D. Deep Anterior Lamellar Keratoplasty and Penetrating Keratoplasty for Keratoconus: A Claims-Based Analysis. *Cornea.* 2023 Jun 1;42(6):663-669. doi: 10.1097/ICO.0000000000003072. Epub 2022 May 25. PMID: 37146289.

Jerry M, Arcona S, McMorrow D, Schwartz H, Princic N, Sasane R. Work Loss and Direct and Indirect Costs Associated with Parkinson's Disease. *Clinicoecon Outcomes Res.* 2023 Apr 27;15:309-319. doi: 10.2147/CEOR.S398509. PMID: 37138588; PMCID: PMC10150754.

Hankosky ER, Katz ML, Fan L, Liu D, Chinthammit C, Brnabic AJM, Eby EL. Predictors of insulin pump initiation among people with type 2 diabetes from a US claims database using machine learning. *Curr Med Res Opin.* 2023 Jun;39(6):843-853. doi: 10.1080/03007995.2023.2205795. Epub 2023 May 11. PMID: 37139823.

McIntyre RS, Higa S, Doan QV, Amari DT, Mercer D, Gillard P, Harrington A. Place of care and costs associated with acute episodes and remission in schizophrenia. *J Manag Care Spec Pharm.* 2023 May;29(5):499-508. doi: 10.18553/jmcp.2023.29.5.499. PMID: 37121252; PMCID: PMC10387981.

Saxena K, Sawhney B, Yande S, Kathe N, Chatterjee S. The Burden of Cervical Conization in Privately Insured Young and Mid-Adult Women in the United States. *Vaccines (Basel).* 2023 Apr 5;11(4):804. doi: 10.3390/vaccines11040804. PMID: 37112716; PMCID: PMC10142968.

Tsur A, Leonard SA, Kan P, Datoc IA, Girsan AI, Shaw GM, Stevenson DK, El-Sayed YY, Druzin ML, Blumenfeld YJ. Vaginal Progesterone Is Associated with Intrahepatic Cholestasis of Pregnancy. *Am J Perinatol.* 2023 Aug;40(11):1158-1162. doi: 10.1055/a-2081-2573. Epub 2023 Apr 26. PMID: 37100422.

Tiao J, Wang K, Herrera M, Rosenberg A, Carbone A, Zubizarreta N, Anthony SG. Hip Arthroscopy Trends: Increasing Patient Out-of-Pocket Costs, Lower Surgeon Reimbursement, and Cost Reduction With

Utilization of Ambulatory Surgery Centers. *Arthroscopy.* 2023 Nov;39(11):2313-2324.e2. doi: 10.1016/j.arthro.2023.03.027. Epub 2023 Apr 24. PMID: 37100212.

Sherman BW, Lawrence DF, Kuharic M, Chrones L, Patel S, Touya M. Mental health diagnoses and services utilization vary by wage level. *Am J Manag Care.* 2023 Apr;29(4):173-178. doi: 10.37765/ajmc.2023.89345. PMID: 37104831.

Gennaro KH, McGwin G Jr, Kolettis PN. Critical Examination of Indications for Urinalysis in the United States. *Urol Pract.* 2023 Jan;10(1):21-24. doi: 10.1097/UPJ.0000000000000361. Epub 2022 Dec 9. PMID: 37103441.

Druyan B, Platner M, Jamieson DJ, Boulet SL. Severe Maternal Morbidity and Postpartum Readmission Through 1 Year. *Obstet Gynecol.* 2023 May 1;141(5):949-955. doi: 10.1097/AOG.0000000000005150. Epub 2023 Apr 5. PMID: 37103535.

Croll B, Patil D, Mason M, Narayan VM, Master V, Filson CP, Joshi SS. Prolonged Opioid Use Following Bladder Tumor Resection for Opioid-naïve Patients. *Urol Pract.* 2023 Jul;10(4):345-351. doi: 10.1097/UPJ.0000000000000401. Epub 2023 Apr 4. PMID: 37103557.

Hu T, Song Y, Done N, Mohanty S, Liu Q, Sarpong EM, Lemus-Wirtz E, Signorovitch J, Weiss T. Economic burden of acute otitis media, pneumonia, and invasive pneumococcal disease in children in the

United States after the introduction of 13-valent pneumococcal conjugate vaccines during 2014–2018. *BMC Health Serv Res*. 2023 Apr 25;23(1):398. doi: 10.1186/s12913-023-09244-7. PMID: 37098521; PMCID: PMC10127426.

Wang SV, Schneeweiss S; RCT-DUPLICATE Initiative; Franklin JM, Desai RJ, Feldman W, Garry EM, Glynn RJ, Lin KJ, Paik J, Patorno E, Suissa S, D'Andrea E, Jawaid D, Lee H, Pawar A, Sreedhara SK, Tesfaye H, Bessette LG, Zabolka L, Lee SB, Gautam N, York C, Zakoul H, Concato J, Martin D, Paraoan D, Quinto K. Emulation of Randomized Clinical Trials With Nonrandomized Database Analyses: Results of 32 Clinical Trials. *JAMA*. 2023 Apr 25;329(16):1376–1385. doi: 10.1001/jama.2023.4221. PMID: 37097356; PMCID: PMC10130954.

Liu X, Dibello J, Mott K, Wang Y, Chekani F, Bortnichak EA, Liaw KL, Zhong W. Contribution of Comorbid Conditions to the Diagnosis of Insomnia: A Database Study in a Commercially Insured Population. *J Nerv Ment Dis*. 2023 Aug 1;211(8):572–578. doi: 10.1097/NMD.0000000000001661. Epub 2023 Apr 21. PMID: 37094568.

Ailes EC, Zhu W, Clark EA, Huang YA, Lampe MA, Kourtis AP, Reefhuis J, Hoover KW. Identification of pregnancies and their outcomes in healthcare claims data, 2008–2019: An algorithm. *PLoS One*. 2023 Apr 24;18(4):e0284893. doi:

10.1371/journal.pone.0284893. PMID: 37093890; PMCID: PMC10124843.

Sharma M, Wang D, Ugiliweneza B, Pahwa B, Boakye M, Williams BJ, Abecassis I. Trends and Impact of Treatment Modalities (Surgery and Radiation Therapy) on Health Care Utilization in Patients With Glomus Jugulare Tumors (GJTs): An Inverse Probability of Treatment Weight Analysis. *World Neurosurg*. 2023 Jul;175:e984–e993. doi: 10.1016/j.wneu.2023.04.057. Epub 2023 Apr 20. PMID: 37087034.

White AJ, Marmor I, Peacock KM, Nickel KB, Zavadil J, Olsen MA. Brain Abscess and Stroke in Children and Adults With Hereditary Hemorrhagic Telangiectasia: Analysis of a Large National Claims Database. *Neurology*. 2023 Jun 6;100(23):e2324–e2330. doi: 10.1212/WNL.000000000000207269. Epub 2023 Apr 21. PMID: 37085327; PMCID: PMC10256119.

Rojanasarot S, Williams AO, Edwards N, Khera M. Quantifying the number of US men with erectile dysfunction who are potential candidates for penile prosthesis implantation. *Sex Med*. 2023 Apr 17;11(2):qfad010. doi: 10.1093/sexmed/qfad010. PMID: 37082721; PMCID: PMC10110759.

Bilgic Dagci AO, Chang JC, Xiao R, Grossman AB, Weiss PF. Opioid use in children with inflammatory bowel disease-related arthritis. *Clin Exp Rheumatol*. 2023 Jul;41(7):1553–1560. doi: 10.55563/clinexprheumatol/3bu1sf. Epub

2023 Apr 6. PMID: 37083174; PMCID: PMC10523932.

2022

Schweber AB, Agarunov E, Brooks C, Hur C, Gonda TA. New-Onset Diabetes Is a Potential Marker for the Malignant Transformation of Pancreatic Cysts: A Real-World Population Cohort Study. *Pancreas*. 2022 Oct 1;51(9):1186-1193. doi: 10.1097/MPA.0000000000002161. PMID: 37078944.

Vanderpoel J, Emond B, Ghelerter I, Milbers K, Lafeuille MH, Lefebvre P, Ellis LA. Healthcare Resource Utilization and Costs in Patients with EGFR-Mutated Advanced Non-Small Cell Lung Cancer Receiving First-Line Treatment in the United States: An Insurance Claims-Based Descriptive Analysis. *Pharmacoecon Open*. 2023 Jul;7(4):617-626. doi: 10.1007/s41669-023-00407-0. Epub 2023 Apr 19. PMID: 37074589; PMCID: PMC10333158.

Pinto CN, Jung M, Wimmer M, Goldblatt C, Sweeney N, Broache M, Van Der Pol B. Differential Screening for Nonviral Sexually Transmitted Infections by Type of Vaginitis Testing. *Sex Transm Dis*. 2023 Aug 1;50(8):531-535. doi: 10.1097/OLQ.0000000000001820. Epub 2023 Apr 17. PMID: 37074317; PMCID: PMC10348635.

Kane JM, Mychaskiw MA, Lim S, Suett M, Tian M, Rubio JM. Treatment Journey From Diagnosis to the Successful Implementation of a Long-Acting

Injectable Antipsychotic Agent in Young Adults With Schizophrenia. *J Clin Psychiatry*. 2023 Apr 19;84(3):22m14544. doi: 10.4088/JCP.22m14544. PMID: 37074300.

Choden T, Zhang H, Sakuraba A. Influence of proton pump inhibitor use on clinical outcomes of patients with inflammatory bowel disease. *Ann Med*. 2023 Dec;55(1):2198775. doi: 10.1080/07853890.2023.2198775. PMID: 37070427; PMCID: PMC10124315.

Wang Y, Cavallari LH, Brown JD, Thomas CD, Winterstein AG. Assessing the Clinical Treatment Dynamics of Antiplatelet Therapy Following Acute Coronary Syndrome and Percutaneous Coronary Intervention in the US. *JAMA Netw Open*. 2023 Apr 3;6(4):e238585. doi: 10.1001/jamanetworkopen.2023.8585. PMID: 37067798; PMCID: PMC10111179.

Monga M, Murphy M, Paranjpe R, Cutone B, Eisner B. Prevalence of Stone Disease and Procedure Trends in the United States. *Urology*. 2023 Jun;176:63-68. doi: 10.1016/j.urology.2023.03.040. Epub 2023 Apr 14. PMID: 37062518.

Miller AC, Cavanaugh JE, Arakkal AT, Koeneman SH, Polgreen PM. A comprehensive framework to estimate the frequency, duration, and risk factors for diagnostic delays using bootstrapping-based simulation methods. *BMC Med Inform Decis Mak*. 2023 Apr 14;23(1):68. doi: 10.1186/s12911-023-02148-w. PMID: 37060037; PMCID: PMC10103428.

Bhojani N, Eisner B, Monga M, Paranjpe R, Cutone B, Chew BH. Sepsis prevalence and associated hospital admission and mortality after ureteroscopy in employed adults. *BJU Int.* 2023 Aug;132(2):210-216. doi: 10.1111/bju.16029. Epub 2023 Apr 25. PMID: 37057736.

Sakhuja S, Bittner VA, Brown TM, Farkouh ME, Levitan EB, Safford MM, Woodward M, Chen L, Sun R, Dhalwani N, Jones J, Kalich B, Exter J, Muntner P, Rosenson RS, Colantonio LD. Recurrent Atherosclerotic Cardiovascular Disease Events Potentially Prevented with Guideline-Recommended Cholesterol-Lowering Therapy following Myocardial Infarction. *Cardiovasc Drugs Ther.* 2023 Apr 13. doi: 10.1007/s10557-023-07452-1. Epub ahead of print. PMID: 37052867.

Lavin R, Couig MP, Kelley PW, Schwartz T, Ramos F. Healthcare Impacts Associated with Federally Declared Disasters- Hurricanes Gustave and Ike. *Int J Environ Res Public Health.* 2023 Apr 4;20(7):5388. doi: 10.3390/ijerph20075388. PMID: 37048001; PMCID: PMC10094278.

Ahmed AS, Gabig AM, Dawes A, Gottschalk MB, Lamplot JD, Wagner ER. Trends and projections in surgical stabilization of glenohumeral instability in the United States from 2009 to 2030: rise of the Latarjet procedure and fall of open Bankart repair. *J Shoulder Elbow Surg.* 2023 Aug;32(8):e387-e395. doi: 10.1016/j.jse.2023.03.011. Epub 2023 Apr 10. PMID: 37044304.

Liu J, Shoener Dunham L, Johnson KD. Regional factors associated with pneumococcal vaccination coverage among U.S. adults with underlying chronic or immunocompromising conditions. *Hum Vaccin Immunother.* 2023 Dec 31;19(1):2194779. doi: 10.1080/21645515.2023.2194779. PMID: 37038308; PMCID: PMC10101653.

Wu JJ, Patel M, Zeng F, Huang A, Pan X, Cao Y, Chen N, Photowala H, Garg V, Crowley J. Real-world dose escalation of biologics for moderate-to-severe psoriasis in the United States. *J Dermatolog Treat.* 2023 Dec;34(1):2200869. doi: 10.1080/09546634.2023.2200869. PMID: 37025014.

Song J, Donga P, Holt J, Rogers R, Wu B. The Burden of Neuropsychiatric Disorders in Medicaid Patients Living With HIV-1 Treated With Integrase Inhibitor or Protease Inhibitor Antiretroviral Therapies. *Prim Care Companion CNS Disord.* 2023 Apr 4;25(2):22m03374. doi: 10.4088/PCC.22m03374. PMID: 37027801.

Zhang C, Tsang Y, He J, Panjabi S. Predicting Risk of 1-Year Hospitalization Among Patients with Pulmonary Arterial Hypertension. *Adv Ther.* 2023 May;40(5):2481-2492. doi: 10.1007/s12325-023-02501-5. Epub 2023 Apr 6. PMID: 37024760; PMCID: PMC10079144.

Suzuki Y, Chen L, Hou JY, St Clair CM, Khoury-Collado F, de Meritens AB, Matsuo K, Melamed A, Hershman DL, Wright JD. Systemic Progestins and Progestin-

Releasing Intrauterine Device Therapy for Premenopausal Patients With Endometrial Intraepithelial Neoplasia. *Obstet Gynecol*. 2023 May 1;141(5):979-987. doi: 10.1097/AOG.00000000000005124. Epub 2023 Apr 5. PMID: 37023446.

Hu T, Sarpong EM, Song Y, Done N, Liu Q, Lemus-Wirtz E, Signorovitch J, Mohanty S, Weiss T. Incidence of non-invasive all-cause pneumonia in children in the United States before and after the introduction of pneumococcal conjugate vaccines: a retrospective claims database analysis. *Pneumonia (Nathan)*. 2023 Apr 5;15(1):8. doi: 10.1186/s41479-023-00109-5. PMID: 37016411; PMCID: PMC10074783.

Chang AY, Bryazka D, Dieleman JL. Estimating health spending associated with chronic multimorbidity in 2018: An observational study among adults in the United States. *PLoS Med*. 2023 Apr 4;20(4):e1004205. doi: 10.1371/journal.pmed.1004205. PMID: 37014826; PMCID: PMC10072449.

J Gastrointestin Liver Dis

Ba DM, Hu A, Shen C, Leslie DL, Chinchilli VM, Rogers AM, Al-Shaar L. Trends and predictors of nutritional deficiencies after bariatric surgeries: analysis of real-world data. *Surg Obes Relat Dis*. 2023 Sep;19(9):935-943. doi: 10.1016/j.soard.2023.02.013. Epub 2023 Feb 23. PMID: 37005153.

Danielson ML, Bohm MK, Newsome K, Claussen AH, Kaminski JW, Grosse SD,

Siwakoti L, Arifkhanova A, Bitsko RH, Robinson LR. Trends in Stimulant Prescription Fills Among Commercially Insured Children and Adults - United States, 2016-2021. *MMWR Morb Mortal Wkly Rep*. 2023 Mar 31;72(13):327-332. doi: 10.15585/mmwr.mm7213a1. PMID: 36995976; PMCID: PMC10078845.

Sharma M, Wang D, Scott V, Ugiliweneza B, Potts K, Savage J, Boakye M, Andaluz N, Williams BJ. Intraoperative MRI use in transsphenoidal surgery for pituitary tumors: Trends and healthcare utilization. *J Clin Neurosci*. 2023 May;111:86-90. doi: 10.1016/j.jocn.2023.03.009. Epub 2023 Mar 27. PMID: 36989768.

Fenske DC, Ding Y, Morrow P, Smith SG, Silver MK, Moynihan M, Manjelienskaia J. Comparing the burden of illness in patients with alopecia areata vs atopic dermatitis in the US population from a payer perspective. *J Manag Care Spec Pharm*. 2023 Apr;29(4):409-419. doi: 10.18553/jmcp.2023.29.4.409. PMID: 36989453; PMCID: PMC10387998.

Patel AH, Li Y, Minacapelli CD, Catalano K, Rustgi V. Reduction in Gastrointestinal Cancers in Cirrhotic Patients Receiving Rifaximin vs Lactulose Only Therapy for Hepatic Encephalopathy. *Cureus*. 2023 Feb 21;15(2):e35259. doi: 10.7759/cureus.35259. PMID: 36974238; PMCID: PMC10039763.

Lin KJ, Singer DE, Bykov K, Bessette LG, Mastroianni JM, Cervone A, Kim DH. Comparative Effectiveness and Safety of

Oral Anticoagulants by Dementia Status in Older Patients With Atrial Fibrillation. *JAMA Netw Open*. 2023 Mar 1;6(3):e234086. doi: 10.1001/jamanetworkopen.2023.4086. PMID: 36976562; PMCID: PMC10051113.

Walker RF, Zakai NA, Mason SM, MacLehose RF, Norby FL, Evensen LH, Alonso A, Lutsey PL. Autoimmune disease and risk of postpartum venous thromboembolism. *Res Pract Thromb Haemost*. 2023 Feb 23;7(2):100091. doi: 10.1016/j.rpth.2023.100091. PMID: 36970127; PMCID: PMC10031534.

Premo H, Gordee A, Lee HJ, Scales CD, Moul JW, Peterson A. Disparities in Prostate Cancer Screening for Transgender Women: An Analysis of the MarketScan Database. *Urology*. 2023 Jun;176:237-242. doi: 10.1016/j.urology.2023.03.016. Epub 2023 Mar 25. PMID: 36972765; PMCID: PMC10330039.

Martin CE, Patel H, Dzierewski JM, Moeller FG, Bierut LJ, Grucza RA, Xu KY. Benzodiazepine, Z-drug, and sleep medication prescriptions in male and female people with opioid use disorder on buprenorphine and comorbid insomnia: an analysis of multistate insurance claims. *Sleep*. 2023 Jun 13;46(6):zsad083. doi: 10.1093/sleep/zsad083. Erratum in: *Sleep*. 2023 Oct 10;: PMID: 36970994; PMCID: PMC10262036.

Doty ME, Gil LA, Cooper JN. Association between high deductible health plan coverage and age at pediatric umbilical hernia repair. *World J Pediatr Surg*. 2023

Mar 20;6(2):e000526. doi: 10.1136/wjps-2022-000526. PMID: 36969906; PMCID: PMC10030914.

Carlton EF, Becker NV, Moniz MH, Scott JW, Prescott HC, Chua KP. Out-of-Pocket Spending for Non-Birth-Related Hospitalizations of Privately Insured US Children, 2017 to 2019. *JAMA Pediatr*. 2023 May 1;177(5):516-525. doi: 10.1001/jamapediatrics.2023.0130. PMID: 36972040; PMCID: PMC10043803.

Sharma P, Falk GW, Bhor M, Ozbay AB, Latremouille-Viau D, Guérin A, Shi S, Elvekrog MM, Limburg P. Real-world upper endoscopy utilization patterns among patients with gastroesophageal reflux disease, Barrett esophagus, and Barrett esophagus-related esophageal neoplasia in the United States. *Medicine (Baltimore)*. 2023 Mar 24;102(12):e33072. doi: 10.1097/MD.00000000000033072. PMID: 36961193; PMCID: PMC10036066.

Muntner P, Foti K, Wang Z, Alanaeme CJ, Choi E, Bress AP, Shimbo D, Kronish I. Discontinuation of Renin-Angiotensin System Inhibitors During the Early Stage of the COVID-19 Pandemic. *Am J Hypertens*. 2023 Jun 15;36(7):404-410. doi: 10.1093/ajh/hpad027. PMID: 36960855; PMCID: PMC10267613.

Stubblefield MD, Weycker D. Under recognition and treatment of lymphedema in head and neck cancer survivors - a database study. *Support Care Cancer*. 2023 Mar 23;31(4):229. doi: 10.1007/s00520-023-07698-3. Erratum in:

Support Care Cancer. 2023 May 15;31(6):336. PMID: 36952136; PMCID: PMC10188415.

Reeves SL, Ng S, Dombkowski KJ, Raphael JL, Chua KP. TCD screening and spending among children with sickle cell anemia. *Am J Manag Care*. 2023 Mar 1;29(3):e79-e84. doi: 10.37765/ajmc.2023.89333. PMID: 36947020.

Iyer GS, Tesfaye H, Khan NF, Zakoul H, Bykov K. Trends in the Use of Oral Anticoagulants for Adults With Venous Thromboembolism in the US, 2010-2020. *JAMA Netw Open*. 2023 Mar 1;6(3):e234059. doi: 10.1001/jamanetworkopen.2023.4059. PMID: 36947039; PMCID: PMC10034573.

Kim KM, Kim SY, Schulman KL, Kim MH. Incremental healthcare cost burden in patients with atrial flutter only. *Front Cardiovasc Med*. 2023 Mar 1;10:1094316. doi: 10.3389/fcvm.2023.1094316. PMID: 36937931; PMCID: PMC10014458.

Edmiston CE Jr, Spencer M, Gunja NJ, Holy CE, Ruppenkamp JW, Leaper DJ. Longitudinal Rates, Patient Risk Factors, and Economic Impact of Superficial and Deep Incisional Surgical Site Infection After Primary and Revision Total Hip Arthroplasty: A U.S. Retrospective Commercial Claims Database Analysis. *Surg Infect (Larchmt)*. 2023 May;24(4):366-375. doi: 10.1089/sur.2022.376. Epub 2023 Mar 20. PMID: 36940292.

Wahlstedt E, Kelly T, Jung M, Harris A. Unplanned 120-Day ED Visits and Readmission Rates Following Common Stone Procedures. *Urology*. 2023 Jun;176:42-49. doi: 10.1016/j.urology.2023.02.041. Epub 2023 Mar 16. PMID: 36931570.

Fitzgerald T, Zhdanava M, Pilon D, Shah A, Hilts A, Lefebvre P, Feldman SR. Long-Term Psoriasis Control with Guselkumab, Adalimumab, Secukinumab, or Ixekizumab in the USA. *Dermatol Ther (Heidelb)*. 2023 Apr;13(4):1053-1068. doi: 10.1007/s13555-023-00910-6. Epub 2023 Mar 16. PMID: 36929120; PMCID: PMC10060501.

Benedict K, Jackson BR, Toda M. Diagnosis Codes for Mold Infections and Mold Exposure Before and After Hurricane Harvey Among a Commercially Insured Population-Houston, Texas, 2016-2018. *Disaster Med Public Health Prep*. 2023 Mar 17;17:e504. doi: 10.1017/dmp.2023.28. PMID: 36927602; PMCID: PMC10640901.

Joshi K, Pilon D, Shah A, Holiday C, Karkare S, Zhdanava M. Treatment patterns, healthcare utilization, and costs of patients with treatment-resistant depression initiated on esketamine intranasal spray and covered by US commercial health plans. *J Med Econ*. 2023 Jan-Dec;26(1):422-429. doi: 10.1080/13696998.2023.2188845. PMID: 36924214.

Hebert KJ, Matta R, Horns JJ, Paudel N, Das R, McCormick BJ, Myers JB, Hotaling JM. Prior COVID-19 infection associated with increased risk of newly diagnosed erectile

dysfunction. *Int J Impot Res*. 2023 Mar 15;1–5. doi: 10.1038/s41443-023-00687-4. Epub ahead of print. PMID: 36922696; PMCID: PMC10015534.

Freeman L, Lucas A, Zhou J, Hayward B, Gough M, Livingston T. Outcomes and Health Care Service Use in Adults 50 Years or Older With and Without Multiple Sclerosis: A 6-Year Observational Analysis. *Int J MS Care*. 2023 Mar-Apr;25(2):56–62. doi: 10.7224/1537-2073.2021-124. Epub 2022 Sep 13. PMID: 36923575; PMCID: PMC10010108.

Ungaro RC, Naegeli AN, Choong CK, Shan M, Zheng XS, Hunter Gible T, Oneacre K, Colombel JF. Early Use of Biologics Reduces Healthcare Costs in Crohn's Disease: Results from a United States Population-Based Cohort. *Dig Dis Sci*. 2023 Mar 15. doi: 10.1007/s10620-023-07906-4. Epub ahead of print. PMID: 36920668.

Kim KD, Coric D, Khachatryan A, Brady BL, Lillehaugen T, McCormack M, Dolman WB, Ditto R. A real-world analysis of hybrid CDA and ACDF compared to multilevel ACDF. *BMC Musculoskelet Disord*. 2023 Mar 14;24(1):191. doi: 10.1186/s12891-023-06284-2. PMID: 36918916; PMCID: PMC10012503.

Evans NJ, Arakkal AT, Cavanaugh JE, Newland JG, Polgreen PM, Miller AC. The incidence, duration, risk factors, and age-based variation of missed opportunities to diagnose pertussis: A population-based cohort study. *Infect Control Hosp Epidemiol*. 2023 Oct;44(10):1629–1636. doi:

10.1017/ice.2023.31. Epub 2023 Mar 15. PMID: 36919206; PMCID: PMC10587384.

Benson LS, Holt SK, Gore JL, Callegari LS, Chipman AK, Kessler L, Dalton VK. Early Pregnancy Loss Management in the Emergency Department vs Outpatient Setting. *JAMA Netw Open*. 2023 Mar 1;6(3):e232639. doi: 10.1001/jamanetworkopen.2023.2639. PMID: 36920395; PMCID: PMC10018323.

Schein J, Childress A, Gagnon-Sanschagrin P, Maitland J, Bedard J, Cloutier M, Guérin A. Treatment Patterns Among Patients with Attention-Deficit/Hyperactivity Disorder and Comorbid Anxiety and/or Depression in the United States: A Retrospective Claims Analysis. *Adv Ther*. 2023 May;40(5):2265–2281. doi: 10.1007/s12325-023-02458-5. Epub 2023 Mar 13. PMID: 36913128; PMCID: PMC10129978.

Murdock CJ, Ochuba AJ, Xu AL, Snow M, Bronheim R, Vulcano E, Aiyer AA. Operative vs Nonoperative Management of Achilles Tendon Rupture: A Cost Analysis. *Foot Ankle Orthop*. 2023 Mar 8;8(1):24730114231156410. doi: 10.1177/24730114231156410. PMID: 36911422; PMCID: PMC9998413.

Gregory MH, Spec A, Stwalley D, Gremida A, Mejia-Chew C, Nickel KB, Ciorba MA, Rood RP, Olsen MA, Deepak P. Corticosteroids Increase the Risk of Invasive Fungal Infections More Than Tumor Necrosis Factor-Alpha Inhibitors in Patients With Inflammatory Bowel Disease. *Crohn's Colitis* 360. 2023 Feb

19;5(2):otad010. doi:

10.1093/crocol/otad010. PMID: 36911593;
PMCID: PMC9999356.

Singer A, McClung MR, Tran O, Morrow CD, Goldstein S, Kagan R, McDermott M, Yehoshua A. Treatment rates and healthcare costs of patients with fragility fracture by site of care: a real-world data analysis. *Arch Osteoporos*. 2023 Mar 11;18(1):42. doi: 10.1007/s11657-023-01229-7. PMID: 36905559; PMCID: PMC10008255.

Xu KY, Jones HE, Schiff DM, Martin CE, Kelly JC, Carter EB, Bierut LJ, Gruzca RA. Initiation and Treatment Discontinuation of Medications for Opioid Use Disorder in Pregnant People Compared With Nonpregnant People. *Obstet Gynecol*. 2023 Apr 1;141(4):845-853. doi: 10.1097/AOG.0000000000005117. Epub 2023 Mar 9. PMID: 36897142; PMCID: PMC10201921.

Venkatraman V, Spears CA, Futch BG, Yang LZ, Parente BA, Lee HJ, Lad SP. Assessment of Health Care Costs and Total Baclofen Use Associated With Targeted Drug Delivery for Spasticity. *Neuromodulation*. 2023 Aug;26(6):1247-1255. doi: 10.1016/j.neurom.2023.01.017. Epub 2023 Mar 6. PMID: 36890089; PMCID: PMC10440289.

Sharma P, Falk GW, Bhor M, Ozbay AB, Latremouille-Viau D, Guerin A, Shi S, Elvekrog MM, Limburg P. Healthcare Resource Utilization and Costs Among Patients With Gastroesophageal Reflux

Disease, Barrett's Esophagus, and Barrett's Esophagus-Related Neoplasia in the United States. *J Health Econ Outcomes Res*. 2023 Mar 3;10(1):51-58. doi: 10.36469/001c.68191. PMID: 36883055; PMCID: PMC9985944.

Parasuraman S, Thiel E, Park J, Teschemaker A. Productivity loss outcomes and costs among patients with cholangiocarcinoma in the United States: an economic evaluation. *J Med Econ*. 2023 Jan-Dec;26(1):454-462. doi: 10.1080/13696998.2023.2187604. PMID: 36883994.

Meghani M, Razzaghi H, Kahn KE, Hung MC, Srivastav A, Lu PJ, Ellington S, Zhou F, Weintraub E, Black CL, Singleton JA. Surveillance Systems for Monitoring Vaccination Coverage with Vaccines Recommended for Pregnant Women, United States. *J Womens Health (Larchmt)*. 2023 Mar;32(3):260-270. doi: 10.1089/jwh.2022.0445. PMID: 36884385.

Gelber E, Dhamoon M. Treatment patterns for sickle cell disease among those with cerebrovascular disease in the US. *Cerebrovasc Dis*. 2023 Mar 8. doi: 10.1159/000529812. Epub ahead of print. PMID: 36889287.

Vouri SM, Morris EJ, Walsh M, Agalliu J, Dempsey A, Hochleitner L, Muschett MR, Schmidt S, Pepine CJ, Smith SM. High-throughput screening for prescribing cascades among real world statin initiators. *Pharmacoepidemiol Drug Saf*. 2023

Jul;32(7):773-782. doi: 10.1002/pds.5607. Epub 2023 Mar 15. PMID: 36880251.

Grada A, Armstrong A, Bunick C, Salem R, Feldman S. Trends in Oral Antibiotic Use for Acne Treatment: A Retrospective, Population-Based Study in the United States, 2014 to 2016. *J Drugs Dermatol*. 2023 Mar 1;22(3):265-270. doi: 10.36849/JDD.7345. PMID: 36877883.

Crook BS, Varshneya K, Meyer LE, Anastasio A, Cullen MM, Lau BC. Operative Versus Nonoperative Treatment of Acute Achilles Tendon Rupture: A Propensity Score-Matched Analysis of a Large National Dataset. *Orthop J Sports Med*. 2023 Feb 27;11(2):23259671231152904. doi: 10.1177/23259671231152904. PMID: 36874053; PMCID: PMC9974620.

Adrianzen-Herrera D, Lutsey PL, Giorgio K, Walker RF, Zakai NA. Bleeding risk in patients with multiple myeloma treated for venous thromboembolism: a MarketScan analysis. *Res Pract Thromb Haemost*. 2022 Dec 23;7(1):100024. doi: 10.1016/j.rpth.2022.100024. PMID: 36873562; PMCID: PMC9982328.

Shah V, Rodrigues AJ, Malhotra S, Johnstone T, Varshneya K, Haider G, Stienen MN, Veeravagu A. Clinical Outcomes and Cost Differences Between Patients Undergoing Primary Anterior Cervical Discectomy and Fusion Procedures with Private or Medicare Insurance: A Propensity Score-Matched Study. *World Neurosurg*. 2023 May;173:e669-e676. doi:

10.1016/j.wneu.2023.02.129. Epub 2023 Mar 5. PMID: 36871653.

Rajkumar S, Venkatraman V, Yang LZ, Parente B, Lee HJ, Lad SP. Short-Term Health Care Costs of High-Frequency Spinal Cord Stimulation for the Treatment of Postsurgical Persistent Spinal Pain Syndrome. *Neuromodulation*. 2023 Oct;26(7):1450-1458. doi: 10.1016/j.neurom.2023.01.016. Epub 2023 Mar 3. PMID: 36872148.

Hwang B, Oke I, Lambert SR. Risk Factors for Strabismus Surgery after Pediatric Cataract Surgery in the United States. *Ophthalmol Sci*. 2023 Jan 11;3(2):100271. doi: 10.1016/j.xops.2023.100271. PMID: 36864829; PMCID: PMC9972494.

Waltzman D, Miller GF, Patel N, Sarmiento K, Breiding M, Lumba-Brown A. Neuroimaging for mild traumatic brain injury in children: cross-sectional study using national claims data. *Pediatr Radiol*. 2023 May;53(6):1163-1170. doi: 10.1007/s00247-023-05633-6. Epub 2023 Mar 2. PMID: 36859687; PMCID: PMC10416194.

Mostaghimi A, Gao W, Ray M, Bartolome L, Wang T, Carley C, Done N, Swallow E. Trends in Prevalence and Incidence of Alopecia Areata, Alopecia Totalis, and Alopecia Universalis Among Adults and Children in a US Employer-Sponsored Insured Population. *JAMA Dermatol*. 2023 Apr 1;159(4):411-418. doi: 10.1001/jamadermatol.2023.0002. PMID: 36857069; PMCID: PMC9979012.

Thakkar-Samtani M, Heaton LJ, Kelly AL, Taylor SD, Vidone L, Tranby EP. Periodontal treatment associated with decreased diabetes mellitus-related treatment costs: An analysis of dental and medical claims data. *J Am Dent Assoc.* 2023 Apr;154(4):283-292.e1. doi: 10.1016/j.adaj.2022.12.011. Epub 2023 Feb 24. PMID: 36841690.

Blauvelt A, Shi N, Somani N, Burge R, Zhu B, Ridenour T, Kern S, Lew C, Zimmerman N, Murage M. Comparison of Real-World Costs, Healthcare Resource Utilization, and Comorbidity-Related Costs Between Ixekizumab and Secukinumab Among Biologic-Experienced Patients with Psoriasis Over 18 Months in the USA. *Clin Drug Investig.* 2023 Mar;43(3):185-196. doi: 10.1007/s40261-022-01240-9. Epub 2023 Feb 25. PMID: 36840815; PMCID: PMC10011324.

Wilkinson RL, Castillo C, Herrity A, Wang D, Sharma M, Dietz N, Adams S, Khattar N, Nuno M, Drazin D, Boakye M, Ugiliweneza B. Opioid Dependence and Associated Health Care Utilization and Cost in Traumatic Spinal Cord Injury Population: Analysis Using MarketScan Database. *Top Spinal Cord Inj Rehabil.* 2023 Winter;29(1):118-130. doi: 10.46292/sci22-00026. Epub 2023 Feb 15. PMID: 36819927; PMCID: PMC9936895.

Tuohy K, Ba DM, Bhanja D, Leslie D, Liu G, Mansouri A. Early costs and complications of first-line low-grade glioma treatment using a large national database: Limitations

and future perspectives. *Front Surg.* 2023 Feb 3;10:1001741. doi: 10.3389/fsurg.2023.1001741. PMID: 36816005; PMCID: PMC9935584.

Herrity AN, Castillo C, Isakov RV, Anele UA, Wang D, Boakye M, Ugiliweneza B. Health Care Utilization and Cost Associated With Urinary Tract Infections in a Privately Insured Spinal Cord Injury Population. *Top Spinal Cord Inj Rehabil.* 2023 Winter;29(1):108-117. doi: 10.46292/sci22-00022. Epub 2023 Feb 15. PMID: 36819926; PMCID: PMC9936897.

Ramgopal S, Rodean J, Alpern ER, Hall M, Chaudhari PP, Marin JR, Shah SS, Freedman SB, Eltorki M, Badaki-Makun O, Shapiro DJ, Rhine T, Morse RB, Neuman MI. Ambulatory follow-up among publicly insured children discharged from the emergency department. *Acad Emerg Med.* 2023 Jul;30(7):721-730. doi: 10.1111/acem.14704. Epub 2023 Mar 13. PMID: 36809681.

Lewing BD, Wallick C, To TM, Masters H 3rd, Dayal P, Korom SW, Tam S. Outcomes of antiviral treatment for influenza in type 2 diabetes. *Am J Manag Care.* 2023 Feb 1;29(2):e43-e50. doi: 10.37765/ajmc.2023.89320. PMID: 36811987.

Jiao Y, Moll K, Dores GM, Tworkoski E, Zhou CK, Scott D, Wong HL, Fingar K, Burrell T, McEvoy R, Hobbi S, Chillarige Y, Obidi J, MaCurdy T, Kelman J, Shoaibi A. Immune globulin usage trends in commercially insured and Medicare

populations, 2009-2019. *Transfusion*. 2023 Mar;63(3):516-530. doi: 10.1111/trf.17261. Epub 2023 Feb 20. PMID: 36808746.

Kajtezovic S, Morgan JR, Fiascone S, Brandt HM, Perkins RB. Optimizing timing of adolescent vaccines: Impact of initiating HPV vaccination before Tdap or meningococcal vaccination on timely completion of the HPV vaccine series. *Hum Vaccin Immunother*. 2023 Dec 31;19(1):2175541. doi: 10.1080/21645515.2023.2175541. Epub 2023 Feb 16. PMID: 36798049; PMCID: PMC10026864.

Wilkie GL, Leftwich HK, Delpapa E, Moore Simas TA, Nunes AP. Trends in Screening for Diabetes in Early Pregnancy in the United States. *J Womens Health (Larchmt)*. 2023 Apr;32(4):416-422. doi: 10.1089/jwh.2022.0305. Epub 2023 Feb 15. PMID: 36795976; PMCID: PMC10329152.

Thai S, Zhuo J, Zhong Y, Xia Q, Chen X, Bao Y, Dhanda D, Priya L, Wu JJ. Real-world treatment patterns and healthcare costs in patients with psoriasis taking systemic oral or biologic therapies. *J Dermatolog Treat*. 2023 Dec;34(1):2176708. doi: 10.1080/09546634.2023.2176708. PMID: 36794863.

Sharma M, Wang D, Kaoutzani L, Ugiliweneza B, Boakye M, Andaluz N, Williams BJ. Impact of Management Strategies on New-Onset Mental Health Disorders and Associated Health Care Utilization in Patients with Vestibular Schwannoma. *World Neurosurg*. 2023

May;173:e341-e350. doi: 10.1016/j.wneu.2023.02.048. Epub 2023 Feb 14. PMID: 36796626.

Li TH, Kamin L, George J, Saiz FS, Meyer P. Impact of the COVID-19 pandemic on treatment for mental health needs: a perspective on service use patterns and expenditures from commercial medical claims data. *BMC Health Serv Res*. 2023 Feb 16;23(1):163. doi: 10.1186/s12913-023-09080-9. PMID: 36797739; PMCID: PMC9932413.

Khandker RK, Chekani F, Mirchandani K, Kathe N. Economic outcomes associated with diagnosed behavioral symptoms among patients with dementia in the United States: a health care claims database analysis. *BMC Geriatr*. 2023 Feb 17;23(1):99. doi: 10.1186/s12877-023-03780-x. PMID: 36797678; PMCID: PMC9936641.

Abdelwahab M, Marques S, Huang A, De Moraes TP, Previdelli I, Cruz JAW, Al-Sayed AA, Capasso R. Value of Surgical and Nonsurgical Treatment for Sleep Apnea: A Closer Look at Health Care Utilization. *Otolaryngol Head Neck Surg*. 2023 May;168(5):1228-1237. doi: 10.1002/ohn.175. Epub 2023 Feb 16. PMID: 36794772.

Xu X, Chen L, Nunez-Smith M, Clark M, Wright JD. Racial disparities in diagnostic evaluation of uterine cancer among Medicaid beneficiaries. *J Natl Cancer Inst*. 2023 Jun 8;115(6):636-643. doi: 10.1093/jnci/djad027. PMID: 36788453; PMCID: PMC10248843.

Rubio JM, Mychaskiw MA, Lim S, Suett M, Wang Y, Tian M, Kane JM. Predictors for Initiation of Atypical Long-Acting Injectable Antipsychotic Agents in a Commercial Claims Cohort of Individuals With Early-Phase Schizophrenia. *J Clin Psychiatry*. 2023 Feb 13;84(2):22m14604. doi: 10.4088/JCP.22m14604. PMID: 36791360.

Lee JS, Lowe Beasley K, Schooley MW, Luo F. Trends and Costs of US Telehealth Use Among Patients With Cardiovascular Disease Before and During the COVID-19 Pandemic. *J Am Heart Assoc*. 2023 Feb 21;12(4):e028713. doi: 10.1161/JAHA.122.028713. Epub 2023 Feb 15. PMID: 36789857; PMCID: PMC10111470.

Waters HC, Stellhorn R, Touya M, Fitzgerald H, Bhattacharjee S, Citrome L. The effects of early initiation of aripiprazole once-monthly on healthcare resource utilization and healthcare costs in individuals with schizophrenia: real-world evidence from US claims data. *J Med Econ*. 2023 Jan-Dec;26(1):316-325. doi: 10.1080/13696998.2023.2178770. PMID: 36780296.

Hooper RC, Zeng Y, Wang L, Chung KC. Resource Utilization and the Use of Bone Stimulators among Operatively and Nonoperatively Managed Scaphoid Nonunion Patients. *Plast Reconstr Surg Glob Open*. 2023 Jan 26;11(1):e4782. doi: 10.1097/GOX.0000000000004782. PMID: 36776593; PMCID: PMC9911191.

Ho VT, Tran K, George EL, Asch SM, Chen JH, Dalman RL, Lee JT. Most privately insured patients do not receive federally recommended abdominal aortic aneurysm screening. *J Vasc Surg*. 2023 Jun;77(6):1669-1673.e1. doi: 10.1016/j.jvs.2023.01.202. Epub 2023 Feb 11. PMID: 36781115.

Bizune D, Tsay S, Palms D, King L, Bartoces M, Link-Gelles R, Fleming-Dutra K, Hicks LA. Regional Variation in Outpatient Antibiotic Prescribing for Acute Respiratory Tract Infections in a Commercially Insured Population, United States, 2017. *Open Forum Infect Dis*. 2023 Feb 8;10(2):ofac584. doi: 10.1093/ofid/ofac584. PMID: 36776774; PMCID: PMC9905267.

Hoffmann JA, Krass P, Rodean J, Bardach NS, Cafferty R, Coker TR, Cutler GJ, Hall M, Morse RB, Nash KA, Parikh K, Zima BT. Follow-up After Pediatric Mental Health Emergency Visits. *Pediatrics*. 2023 Mar 1;151(3):e2022057383. doi: 10.1542/peds.2022-057383. PMID: 36775807; PMCID: PMC10187982.

Leboffe EN, Pietragallo HC, Liu G, Ba D, Leslie D, Chuang CH. The impact of the 2015 ACOG screening guidelines on the diagnosis of postpartum depression among privately insured women. *J Affect Disord*. 2023 May 1;328:103-107. doi: 10.1016/j.jad.2023.02.020. Epub 2023 Feb 9. PMID: 36764363.

Carmichael SP 2nd, Kline DM, Mowery NT, Miller PR 3rd, Meredith JW, Hanchate AD. Geographic Variation in Operative

Management of Adhesive Small Bowel Obstruction. *J Surg Res.* 2023 Jun;286:57-64. doi: 10.1016/j.jss.2022.12.040. Epub 2023 Feb 6. PMID: 36753950; PMCID: PMC10034859.

Miloh T, Goldstein A, Howard R, Mogul DB, Marden JR, Anderson A, Gaburo K, Kirson N, Rosenthal P. Costs of pediatric liver transplantation among commercially insured and Medicaid-insured patients with cholestasis in the US. *Liver Transpl.* 2023 Jul 1;29(7):735-744. doi: 10.1097/LVT.000000000000082. Epub 2023 Feb 8. PMID: 36747344; PMCID: PMC10270280.

DiStefano MJ, Markell JM, Doherty CC, Alexander GC, Anderson GF. Association Between Drug Characteristics and Manufacturer Spending on Direct-to-Consumer Advertising. *JAMA.* 2023 Feb 7;329(5):386-392. doi: 10.1001/jama.2022.23968. PMID: 36749334; PMCID: PMC10408265.

Criner G, Martinez F, Gandhi H, Pyenson B, Feigler N, Emery M, Gupta U, Vaduganathan M. PROMETHEUS: Long-Term Exacerbation and Mortality Benefits of Implementing Single-Inhaler Triple Therapy in the US COPD Population. *J Health Econ Outcomes Res.* 2023 Jan 24;10(1):20-27. doi: 10.36469/001c.55635. PMID: 36742194; PMCID: PMC9879267.

Zhou F, Lindley MC, Lee JT, Jatlaoui TC. Association Between Influenza Vaccination During Pregnancy and Infant Influenza Vaccination. *Obstet Gynecol.* 2023 Mar

1;141(3):563-569. doi: 10.1097/AOG.0000000000005101. Epub 2023 Jan 16. PMID: 36728080.

Yu B, Zhang CA, Chen T, Mulloy E, Shaw GM, Eisenberg ML. Congenital male genital malformations and paternal health: An analysis of the US claims data. *Andrology.* 2023 Sep;11(6):1114-1120. doi: 10.1111/andr.13404. Epub 2023 Feb 12. PMID: 36727635.

Trinh P, Luan A, Tawfik VL, Sheckter C, Rochlin D, Fox P, Curtin C. Impact of Adding Carpal Tunnel Release or Trigger Finger Release to Carpometacarpal Arthroplasty on Postoperative Complications. *Plast Reconstr Surg.* 2023 Jul 1;152(1):109-115. doi: 10.1097/PRS.00000000000010144. Epub 2023 Jan 2. PMID: 36728633.

Lee H, Sparks JA, Lee SB, Yoshida K, Landon JE, Kim SC. Validation of serostatus of rheumatoid arthritis using ICD-10 codes in administrative claims data. *Pharmacoepidemiol Drug Saf.* 2023 May;32(5):586-591. doi: 10.1002/pds.5597. Epub 2023 Feb 16. PMID: 36728737; PMCID: PMC10073326.

Edmiston CE Jr, Spencer M, Gunja NJ, Holy CE, Ruppenkamp JW, Leaper DJ. Longitudinal rates, risk factors, and costs of superficial and deep incisional surgical-site infection (SSI) after primary and revision total knee arthroplasty: A US retrospective claims database analysis. *Infect Control Hosp Epidemiol.* 2023 Oct;44(10):1587-

1595. doi: 10.1017/ice.2023.10. Epub 2023 Feb 2. PMID: 36726345.

Mahic M, Bozorg A, Rudnik J, Zaremba P, Scowcroft A. Treatment patterns in myasthenia gravis: A United States health claims analysis. *Muscle Nerve*. 2023 Apr;67(4):297-305. doi: 10.1002/mus.27791. Epub 2023 Feb 16. PMID: 36721910.

Chen CY, Donga P, Campbell AK, Taiwo B. Economic Burden of HIV in a Commercially Insured Population in the United States. *J Health Econ Outcomes Res*. 2023 Jan 19;10(1):10-19. doi: 10.36469/001c.56928. PMID: 36721765; PMCID: PMC9865714.

Davis A, Fullerton L, Hill DA, Snow H, Dehority W. The Association of Antimicrobial Prophylaxis With Return Visits After Dog Bites in Children. *Pediatr Emerg Care*. 2023 Feb 1;39(2):87-90. doi: 10.1097/PEC.0000000000002894. Epub 2023 Jan 8. PMID: 36719389.

Packnett ER, Zimmerman NM, Novy P, Morgan LC, Chime N, Ghaswalla P. Meningococcal serogroup B vaccination series initiation in the United States: A real-world claims data analysis. *Hum Vaccin Immunother*. 2023 Dec 31;19(1):2165382. doi: 10.1080/21645515.2023.2165382. Epub 2023 Jan 30. PMID: 36715008; PMCID: PMC9980443.

Mahic M, Bozorg A, Rudnik J, Zaremba P, Scowcroft A. Healthcare resource use in myasthenia gravis: a US health claims analysis. *Ther Adv Neurol Disord*. 2023 Jan

24;16:17562864221150327. doi: 10.1177/17562864221150327. PMID: 36710723; PMCID: PMC9880582.

Desai NR, Sutton MB, Xie J, Fine JT, Gao W, Owens AT, Naidu SS. Clinical Outcomes, Resource Utilization, and Treatment Over the Disease Course of Symptomatic Obstructive Hypertrophic Cardiomyopathy in the United States. *Am J Cardiol*. 2023 Apr 1;192:16-23. doi: 10.1016/j.amjcard.2022.12.030. Epub 2023 Jan 27. PMID: 36709525.

Wang CY, Vouri SM, Park H, Heldermon CD, Brown JD. Comparative effectiveness of pegfilgrastim biosimilars vs originator for prevention of febrile neutropenia: A retrospective cohort study. *J Manag Care Spec Pharm*. 2023 Feb;29(2):119-127. doi: 10.18553/jmcp.2023.29.2.119. PMID: 36705287; PMCID: PMC10387906.

Gonzalez GA, Corso K, Kothari P, Franco D, Porto G, Miao J, Wainwright JV, O'Leary M, Hines K, Mahtabfar A, Vanderkarr M, Thalheimer S, Sharan A, Jallo J, Harrop J. Lumbar Synovial Cysts-Should You Fuse or Not? *Neurosurgery*. 2023 May 1;92(5):1013-1020. doi: 10.1227/neu.0000000000002314. Epub 2022 Dec 30. PMID: 36700698.

Siddiqui M, Hannon L, Wang Z, Blair J, Oparil S, Heath SL, Overton ET, Muntner P. Hypertension and Cardiovascular Disease Risk Among Individuals With Versus Without HIV. *Hypertension*. 2023 Apr;80(4):852-860. doi: 10.1161/HYPERTENSIONAHA.122.19889.

Epub 2023 Jan 25. PMID: 36695187; PMCID: PMC10023419.

Shamsunder MG, Sheckter CC, Sheinin A, Rubin D, Parikh RP, Rose J, Momoh AO, Offodile AC 2nd, Matros E. Impact of High-Deductible Health Plans on Breast Reconstruction: Considerations for Financial Toxicity. *Plast Reconstr Surg*. 2023 Feb 1;151(2):245-253. doi: 10.1097/PRS.00000000000009823. Epub 2022 Nov 8. PMID: 36696302; PMCID: PMC10586232.

Scherrer J, Salas J, Jacobs C, Wiemken T. Lower dementia risk in patients vaccinated against herpes zoster. *Ann Fam Med*. 2022 Apr 1;(20 Suppl 1). doi: 10.1370/afm.20.s1.2680. PMID: 36696249.

Li M, Peterson C, Xu L, Mikosz CA, Luo F. Medical Costs of Substance Use Disorders in the US Employer-Sponsored Insurance Population. *JAMA Netw Open*. 2023 Jan 3;6(1):e2252378. doi: 10.1001/jamanetworkopen.2022.52378. PMID: 36692881; PMCID: PMC9972180.

Yoder M, Boudreaux M. The effect of contraceptive access reform on privately insured patients: Evidence from Delaware Contraceptive Access Now. *PLoS One*. 2023 Jan 23;18(1):e0280588. doi: 10.1371/journal.pone.0280588. PMID: 36689399; PMCID: PMC9870137.

Kiani SN, Cho LD, Poeran J, Wilson L, Zhong H, Mazumdar M, Liu J, Valle AGD, Mementsoudis SG. Musculoskeletal Telemedicine Trends Preceding the

COVID-19 Pandemic and Potential Implications of Rapid Telemedicine Expansion. *Int J Telemed Appl*. 2023 Jan 11;2023:9900145. doi: 10.1155/2023/9900145. PMID: 36685008; PMCID: PMC9848805.

Nozawa K, Suzuki T, Kayanuma G, Yamamoto H, Nagayasu K, Shirakawa H, Kaneko S. Lisinopril prevents bullous pemphigoid induced by dipeptidyl peptidase 4 inhibitors via the Mas receptor pathway. *Front Immunol*. 2023 Jan 5;13:1084960. doi: 10.3389/fimmu.2022.1084960. PMID: 36685490; PMCID: PMC9849361.

Xu Y, Chung H, Shu M, Liu Y, Zhang Y, Qiu H. Dose titration of osmotic release oral system methylphenidate in children and adolescents with attention-deficit hyperactivity disorder: a retrospective cohort study. *BMC Pediatr*. 2023 Jan 23;23(1):38. doi: 10.1186/s12887-023-03850-4. PMID: 36683085; PMCID: PMC9869580.

Bruno AM, Horns JJ, Allshouse AA, Metz TD, Debbink ML, Smid MC. Association Between Periviable Delivery and New Onset of or Exacerbation of Existing Mental Health Disorders. *Obstet Gynecol*. 2023 Feb 1;141(2):395-402. doi: 10.1097/AOG.0000000000005050. Epub 2023 Jan 4. PMID: 36657144; PMCID: PMC10477003.

Youn B, Proud CM, Wang N, Hou Q, Viscidi E, Eaton S, Paradis AD, Neville BA, Johnson NB. Examining Real-World Adherence to

Nusinersen for the Treatment of Spinal Muscular Atrophy Using Two Large US Data Sources. *Adv Ther.* 2023 Mar;40(3):1129-1140. doi: 10.1007/s12325-022-02414-9. Epub 2023 Jan 16. PMID: 36645543; PMCID: PMC9841927.

Sarayani A, Winterstein A, Cristofolletti R, Vozmediano V, Schmidt S, Brown J. Real-world effect of a potential drug-drug interaction between topiramate and oral contraceptives on unintended pregnancy outcomes. *Contraception.* 2023 Apr;120:109953. doi: 10.1016/j.contraception.2023.109953. Epub 2023 Jan 11. PMID: 36641095.

Müllerová H, Medin J, Arnold M, Gomes da Silva H, Kumar S, Nord M, Hubbard R, de Lusignan S. Background rate estimations for thrombosis with thrombocytopaenia: challenges in evaluating rare safety signals following vaccination in real time during a pandemic. *BMJ Open.* 2023 Jan 13;13(1):e063645. doi: 10.1136/bmjopen-2022-063645. PMID: 36639216; PMCID: PMC9842598.

Lundeen EA, Kim M, Rein DB, Wittenborn JS, Saaddine J, Ehrlich JR, Holliday CS. Trends in the Prevalence and Treatment of Diabetic Macular Edema and Vision-Threatening Diabetic Retinopathy Among Commercially Insured Adults Aged <65 Years. *Diabetes Care.* 2023 Apr 1;46(4):687-696. doi: 10.2337/dc22-1834. PMID: 36637915.

Gibbons RD, Hur K, Lavigne JE, Mann JJ. Benzotropine and suicide attempts and

intentional self-harm. *Psychiatry Res.* 2023 Feb;320:115054. doi: 10.1016/j.psychres.2023.115054. Epub 2023 Jan 7. PMID: 36638693.

Ting A, Story T, Lecomte C, Estrin A, Syed S, Lee E. A real-world analysis of factors associated with high healthcare resource utilization and costs in patients with myasthenia gravis receiving second-line treatment. *J Neurol Sci.* 2023 Feb 15;445:120531. doi: 10.1016/j.jns.2022.120531. Epub 2022 Dec 23. PMID: 36634582.

Saxena K, Kathe N, Sardana P, Yao L, Chen YT, Brewer NT. HPV vaccine initiation at 9 or 10 years of age and better series completion by age 13 among privately and publicly insured children in the US. *Hum Vaccin Immunother.* 2023 Dec 31;19(1):2161253. doi: 10.1080/21645515.2022.2161253. Epub 2023 Jan 11. PMID: 36631995; PMCID: PMC9980633.

Simon TG, Schneeweiss S, Singer DE, Sreedhara SK, Lin KJ. Prescribing Trends of Oral Anticoagulants in US Patients With Cirrhosis and Nonvalvular Atrial Fibrillation. *J Am Heart Assoc.* 2023 Feb 7;12(3):e026863. doi: 10.1161/JAHA.122.026863. Epub 2023 Jan 10. PMID: 36625307; PMCID: PMC9973619.

Sánchez Fernández I, Amengual-Gual M, Barcia Aguilar C, Romeu A, Sheikh T, Torres A, Chao J, Jonas R, Gaínza-Lein M, Harini C, Douglass L. Temporal trends in the cost and use of first-line treatments for

infantile epileptic spasms syndrome. *Epilepsia*. 2023 Mar;64(3):630-640. doi: 10.1111/epi.17498. Epub 2023 Jan 31. PMID: 36600453.

Miller GF, Zhou H, Peterson AB, Swedo E, Holland K, Kresnow MJ. Association between traumatic brain injury and suicidality using a mediation approach and MarketScan. *Inj Prev*. 2023 Jun;29(3):246-252. doi: 10.1136/ip-2022-044697. Epub 2022 Dec 5. PMID: 36600521; PMCID: PMC10198876.

Sonawane K, Castellano T, Washington C, Ting J, Surinach A, Kirshner C, Chhatwal J, Ayer T, Moore K. Factors associated with receipt of second-line recurrent or metastatic cervical cancer treatment in the United States: A retrospective administrative claims analysis. *Gynecol Oncol Rep*. 2022 Nov 5;44(Suppl 1):101101. doi: 10.1016/j.gore.2022.101101. PMID: 36506039; PMCID: PMC9731386.

Garg A, Naik HB, Alavi A, Hazen P, Hsiao JL, Shi VY, Weisman J, Tran T, Rudnik J, Jedrzejczyk A, Pansar I, Kimball AB. Real-World Findings on the Characteristics and Treatment Exposures of Patients with Hidradenitis Suppurativa from US Claims Data. *Dermatol Ther (Heidelb)*. 2023 Feb;13(2):581-594. doi: 10.1007/s13555-022-00872-1. Epub 2022 Dec 31. PMID: 36585607; PMCID: PMC9884733.

Xu C, Ferrante SA, Fitzgerald T, Pericone CD, Wu B. Inconsistencies in the days supply values reported in pharmacy claims databases for biologics with long

maintenance intervals. *J Manag Care Spec Pharm*. 2023 Jan;29(1):90-100. doi: 10.18553/jmcp.2023.29.1.90. PMID: 36580125; PMCID: PMC10388009.

Wong DG, Monda S, Vetter J, Lai H, Olsen MA, Keller M, Desai A. Time Course and Risk Factors for Repeat Procedures After Ureteroscopy or Shockwave Lithotripsy. *Urology*. 2023 Apr;174:42-47. doi: 10.1016/j.urology.2022.12.014. Epub 2022 Dec 24. PMID: 36574909; PMCID: PMC10494519.

Vanderkarr MF, Ruppenkamp JW, Vanderkarr M, Parikh A, Holy CE, Putnam M. Incidence, costs and post-operative complications following ankle fracture - A US claims database analysis. *BMC Musculoskelet Disord*. 2022 Dec 26;23(1):1129. doi: 10.1186/s12891-022-06095-x. PMID: 36567314; PMCID: PMC9791722.

Kyler KE, Hall M, Antoon JW, Goldman J, Grijalva CG, Shah SS, Tang Girdwood S, Williams DJ, Feinstein JA. Polypharmacy among medicaid-insured children with and without documented obesity. *Pharmacotherapy*. 2023 Jul;43(7):588-595. doi: 10.1002/phar.2755. Epub 2023 Jan 5. PMID: 36564960; PMCID: PMC10287842.

Hernandez RK, Nakasian SS, Bollinger L, Bradbury BD, Jick SS, Muntner P, Ng E, Chia V. Changes in Medication Use During Pregnancy for Women with Chronic Conditions: An Analysis of Claims Data. *Ther Innov Regul Sci*. 2023 May;57(3):570-

579. doi: 10.1007/s43441-022-00489-8. Epub 2022 Dec 23. PMID: 36562933.

Castellano T, Moore K, Ting J, Washington C, Yildiz Y, Surinach A, Sonawane K, Chhatwal J, Ayer T. Cervical cancer geographical burden analyzer: An interactive, open-access tool for understanding geographical disease burden in patients with recurrent or metastatic cervical cancer. *Gynecol Oncol*. 2023 Feb;169:113-117. doi: 10.1016/j.ygyno.2022.12.004. Epub 2022 Dec 20. PMID: 36549175.

Shridharmurthy D, Lapane KL, Baek J, Nunes A, Kay J, Liu SH. Comanagement with rheumatology and prescription biologics filled during pregnancy in women with rheumatic diseases: a retrospective analysis of US administrative claims data. *BMJ Open*. 2022 Dec 22;12(12):e065189. doi: 10.1136/bmjopen-2022-065189. PMID: 36549721; PMCID: PMC9791456.

Suzuki Y, Huang Y, Ferris J, Kulkarni A, Hershman D, Wright JD. Prescription of hormone replacement therapy among cervical cancer patients with treatment-induced premature menopause. *Int J Gynecol Cancer*. 2023 Jan 3;33(1):26-34. doi: 10.1136/ijgc-2022-003861. PMID: 36543392.

Verma SK, Huang J, Hutchinson HG, Estevez I, Kuang K, Reynolds SL, Schneeweiss S. Statin Use and Severe Acute Liver Injury Among Patients with Elevated Alanine Aminotransferase. *Clin Epidemiol*. 2022 Dec 14;14:1535-1545. doi:

10.2147/CLEP.S385712. PMID: 36540900; PMCID: PMC9759991.

Chen T, Zhang CA, Li S, Schroeder AR, Shaw GM, Eisenberg ML. The association of preconception paternal metabolic syndrome on early childhood emergency department visits and hospitalizations. *Andrology*. 2023 Sep;11(6):1057-1066. doi: 10.1111/andr.13370. Epub 2023 Jan 10. PMID: 36542456.

Stein LK, Mayman N, Jette N, Tuhim S, Dhamoon MS. Risk, Determinants, and Pharmacologic Treatment of Depression Following Acute Ischemic Stroke. *Neurohospitalist*. 2023 Jan;13(1):22-30. doi: 10.1177/19418744221123199. Epub 2022 Oct 9. PMID: 36531840; PMCID: PMC9755604.

Oke I, Hwang B, Heo H, Nguyen A, Lambert SR. Risk Factors for Retinal Detachment Repair After Pediatric Cataract Surgery in the United States. *Ophthalmol Sci*. 2022 Jul 16;2(4):100203. doi: 10.1016/j.xops.2022.100203. PMID: 36531585; PMCID: PMC9754963.

Peace AE, Duchesneau ED, Agala CB, Phillips MR, McLean SE, Hayes AA, Akinkuotu AC. Costs and recurrence of inguinal hernia repair in premature infants during neonatal admission. *J Pediatr Surg*. 2023 Mar;58(3):445-452. doi: 10.1016/j.jpedsurg.2022.10.006. Epub 2022 Oct 22. PMID: 36529566; PMCID: PMC10243490.

Nagaoka K, Nagayasu K, Shirakawa H, Kaneko S. Acetaminophen improves tardive akathisia induced by dopamine D2 receptor antagonists. *J Pharmacol Sci*. 2023 Jan;151(1):9-16. doi: 10.1016/j.jphs.2022.10.006. Epub 2022 Oct 20. PMID: 36522124.

Sonawane K, Castellano T, Washington C, Ting J, Surinach A, Kirshner C, Chhatwal J, Ayer T, Moore K. Factors associated with receipt of second-line recurrent or metastatic cervical cancer treatment in the United States: A retrospective administrative claims analysis. *Gynecol Oncol Rep*. 2022 Dec 13;44:101121. doi: 10.1016/j.gore.2022.101121. PMID: 36589508; PMCID: PMC9797608.

Seyferth AV, Cichocki MN, Wang CW, Huang YJ, Huang YW, Chen JS, Kuo CF, Chung KC. Factors Associated With Quality Care Among Adults With Rheumatoid Arthritis. *JAMA Netw Open*. 2022 Dec 1;5(12):e2246299. doi: 10.1001/jamanetworkopen.2022.46299. PMID: 36508216; PMCID: PMC9856345.

Mukherjee M, Horný M. Complex Billing for Nonemergency Outpatient Imaging: An Obstacle to the Success of Health Care Price Transparency Initiatives. *J Am Coll Radiol*. 2023 Jan;20(1):63-70. doi: 10.1016/j.jacr.2022.11.009. Epub 2022 Dec 8. PMID: 36496087.

Shammas RL, Gordee A, Lee HJ, Sergesketter AR, Scales CD, Hollenbeck ST, Phillips BT. Complications, Costs, and Healthcare Resource Utilization After

Staged, Delayed, and Immediate Free-Flap Breast Reconstruction: A Longitudinal, Claims-Based Analysis. *Ann Surg Oncol*. 2023 Apr;30(4):2534-2549. doi: 10.1245/s10434-022-12896-0. Epub 2022 Dec 6. PMID: 36474094; PMCID: PMC9735033.

Randall DJ, Peacock K, Nickel KB, Olsen MA, Kazmers NH. Moving Minor Hand Surgeries Out of the Operating Room and Into the Office-Based Procedure Room: A Population-Based Trend Analysis. *J Hand Surg Am*. 2022 Dec;47(12):1137-1145. doi: 10.1016/j.jhsa.2022.08.026. Epub 2022 Oct 28. PMID: 36471499; PMCID: PMC9731346.

Sánchez Fernández I, Amengual-Gual M, Barcia Aguilar C, Romeu A, Jonas R, Torres A, Gaínza-Lein M, Douglass L. Health care resource utilization and costs before and after epilepsy surgery. *Seizure*. 2023 Jan;104:22-31. doi: 10.1016/j.seizure.2022.11.012. Epub 2022 Nov 26. PMID: 36463710.

Tiao J, Wang K, Carbone AD, Herrera M, Zubizarreta N, Gladstone JN, Colvin AC, Anthony SG. Ambulatory Surgery Centers Significantly Decrease Total Health Care Expenditures in Primary Anterior Cruciate Ligament Reconstruction. *Am J Sports Med*. 2023 Jan;51(1):97-106. doi: 10.1177/03635465221136542. Epub 2022 Dec 1. PMID: 36453721.

Hess LM, Michael D, Krein PM, Marquart T, Sireci AN. Costs of biomarker testing among patients with metastatic lung or thyroid cancer in the USA: a real-world

commercial claims database study. *J Med Econ.* 2023 Jan-Dec;26(1):43-50. doi: 10.1080/13696998.2022.2154479. PMID: 36453626.

Fisher A, Paterson JM, Winkvist B, Wu F, Reynier P, Suissa S, Dahl M, Ma Z, Lu X, Zhang J, Raymond CB, Fillion KB, Platt RW, Moriello C, Dormuth CR; Canadian Network for Observational Drug Effect Studies (CNODES) Investigators. Patterns of antiemetic medication use during pregnancy: A multi-country retrospective cohort study. *PLoS One.* 2022 Dec 1;17(12):e0277623. doi: 10.1371/journal.pone.0277623. PMID: 36454900; PMCID: PMC9714905.

Kumar A, Lutsey PL, St Peter WL, Schommer JC, Van't Hof JR, Rajpurohit A, Farley JF. Comparative Risk of Hospitalized Bleeding of P2Y12 Inhibitors for Secondary Prophylaxis in Acute Coronary Syndrome After Percutaneous Coronary Intervention. *Clin Pharmacol Ther.* 2023 Feb;113(2):412-422. doi: 10.1002/cpt.2806. Epub 2022 Dec 28. PMID: 36448257; PMCID: PMC10107606.

Ramsey SD, Bender MA, Li L, Johnson KM, Jiao B, Devine B, Basu A. Prevalence of comorbidities associated with sickle cell disease among non-elderly individuals with commercial insurance-A retrospective cohort study. *PLoS One.* 2022 Nov 29;17(11):e0278137. doi: 10.1371/journal.pone.0278137. PMID: 36445914; PMCID: PMC9707783.

Araujo L, Kyatham S, Bzdek KG, Higuchi K, Greene N. Health economic outcomes of switching to alemtuzumab from other disease-modifying therapies in people with multiple sclerosis in the USA. *J Comp Eff Res.* 2023 Jan;12(1):e220127. doi: 10.2217/ce-2022-0127. Epub 2022 Nov 28. PMID: 36440609; PMCID: PMC10288951.

Edge P, Scioscia NF, Yanek LR, Handa VL. National Trends in Third-Line Treatment for Overactive Bladder Among Commercially Insured Women, 2010-2019. *Urology.* 2023 May;175:56-61. doi: 10.1016/j.urology.2022.11.006. Epub 2022 Nov 24. PMID: 36436671.

Evans KA, Pollack M, Portillo E, Strange C, Touchette DR, Staesinik A, Patel S, Tkacz J, Feigler N. Prompt initiation of triple therapy following hospitalization for a chronic obstructive pulmonary disease exacerbation in the United States: An analysis of the PRIMUS study. *J Manag Care Spec Pharm.* 2022 Dec;28(12):1366-1377. doi: 10.18553/jmcp.2022.28.12.1366. PMID: 36427341; PMCID: PMC10372961.

Cutler AJ, Keyloun KR, Higa S, Park J, Bonafede M, Gillard P, Jain R. Annual costs among patients with major depressive disorder and the impact of key clinical events. *J Manag Care Spec Pharm.* 2022 Dec;28(12):1335-1343. doi: 10.18553/jmcp.2022.28.12.1335. PMID: 36427344; PMCID: PMC10372988.

Nordstrom BL, Cai B, De Gregorio F, Ban L, Fraeman KH, Yoshida Y, Gibbs T. Risk of venous thromboembolism among women

receiving ospemifene: a comparative observational study. *Ther Adv Drug Saf*. 2022 Nov 19;13:20420986221135931. doi: 10.1177/20420986221135931. PMID: 36420373; PMCID: PMC9677319.

Rajbhandari-Thapa J, Chung SR, Hu H, Hall DB, Tiwari BB. Utilization of Counseling Services by Pediatric Patients with Obesity Using MarketScan Data (2017-2019). *Child Obes*. 2022 Nov 22. doi: 10.1089/chi.2022.0158. Epub ahead of print. PMID: 36413350.

Packnett ER, Winer IH, Larkin H, Oladapo A, Gonzales T, Wojdyla M, Goldstein M, Smith VC. RSV-related hospitalization and outpatient palivizumab use in very preterm (born at <29 wGA) infants: 2003-2020. *Hum Vaccin Immunother*. 2022 Nov 30;18(6):2140533. doi: 10.1080/21645515.2022.2140533. Epub 2022 Nov 22. PMID: 36412253; PMCID: PMC9746385.

Bushnell GA, Gerhard T, Keyes K, Hasin D, Cerdá M, Olfson M. Association of Benzodiazepine Treatment for Sleep Disorders With Drug Overdose Risk Among Young People. *JAMA Netw Open*. 2022 Nov 1;5(11):e2243215. doi: 10.1001/jamanetworkopen.2022.43215. PMID: 36413369; PMCID: PMC9682430.

Moll K, Lufkin B, Fingar KR, Ke Zhou C, Tworkoski E, Shi C, Hobbi S, Hu M, Sheng M, McCarty J, Shangguan S, Burrell T, Chillarige Y, Beers J, Saunders-Hastings P, Muthuri S, Edwards K, Black S, Kelman J, Reich C, Amend KL, Djibo DA, Beachler D,

Ogilvie RP, Secora A, McMahon-Walraven CN, Seeger JD, Lloyd P, Thompson D, Dimova R, MaCurdy T, Obidi J, Anderson S, Forshee R, Wong HL, Shoaibi A. Background rates of adverse events of special interest for COVID-19 vaccine safety monitoring in the United States, 2019-2020. *Vaccine*. 2023 Jan 9;41(2):333-353. doi: 10.1016/j.vaccine.2022.11.003. Epub 2022 Nov 8. PMID: 36404170; PMCID: PMC9640387.

Labropoulos N, Raiker A, Gasparis A, Weycker D, O'Donnell T Jr. Clinical Impact of Severe Obesity in Patients with Lymphoedema. *Eur J Vasc Endovasc Surg*. 2023 Mar;65(3):406-413. doi: 10.1016/j.ejvs.2022.11.014. Epub 2022 Nov 17. PMID: 36403939.

Wu JJ, Suryavanshi M, Davidson D, Patel V, Jain A, Seigel L. Economic Burden of Comorbidities in Patients with Psoriasis in the USA. *Dermatol Ther (Heidelb)*. 2023 Jan;13(1):207-219. doi: 10.1007/s13555-022-00832-9. Epub 2022 Nov 19. PMID: 36402940; PMCID: PMC9823180.

Kumar A, Lutsey PL, St Peter WL, Schommer JC, Van't Hof JR, Rajpurohit A, Farley JF. Comparative Effectiveness of Ticagrelor, Prasugrel, and Clopidogrel for Secondary Prophylaxis in Acute Coronary Syndrome: A Propensity Score-Matched Cohort Study. *Clin Pharmacol Ther*. 2023 Feb;113(2):401-411. doi: 10.1002/cpt.2797. Epub 2022 Dec 13. PMID: 36399019; PMCID: PMC9877194.

Johnston SS, Johnson BH, Rai P, Grange P, Amos T, Ghosh S, Buchholz N. Trends and patterns of initial percutaneous nephrolithotomy and subsequent procedures among commercially-insured US adults with urinary system stone disease: a 10-year population-based study. *World J Urol*. 2023 Jan;41(1):235-240. doi: 10.1007/s00345-022-04210-0. Epub 2022 Nov 19. PMID: 36401135; PMCID: PMC9849290.

Fix J, Vielot NA, Lund JL, Weber DJ, Smith JS, Hudgens MG, Becker-Dreps S. Patterns of use of recombinant zoster vaccine among commercially-insured immunocompetent and immunocompromised adults 50-64 years old in the United States. *Vaccine*. 2023 Jan 4;41(1):49-60. doi: 10.1016/j.vaccine.2022.10.076. Epub 2022 Nov 14. PMID: 36396511.

Durand WM, Ortiz-Babilonia C, Raad M, Kurian S, Reyes MC, Jain A. Variation in Commercial Insurance Type Impacts Access to Cervical Spine Surgery. *Spine (Phila Pa 1976)*. 2023 Jul 15;48(14):1003-1008. doi: 10.1097/BRS.0000000000004543. Epub 2022 Nov 16. PMID: 36395378.

Johnston SS, Chen BP, Rai P, Grange P, Dwarakanathan HR, Amos T, Johnson BH, Ghosh SK, Buchholz N. Incremental Healthcare Cost Implications of Retreatment Following Ureteroscopy or Percutaneous Nephrolithotomy for Upper Urinary Tract Stones: A Population-Based

Study of Commercially-Insured US Adults. *Med Devices (Auckl)*. 2022 Nov 10;15:371-384. doi: 10.2147/MDER.S384823. PMID: 36389203; PMCID: PMC9662022.

Zhang J, Chen L, Gomez-Simmonds A, Yin MT, Freedberg DE. Antibiotic-Specific Risk for Community-Acquired *Clostridioides difficile* Infection in the United States from 2008 to 2020. *Antimicrob Agents Chemother*. 2022 Dec 20;66(12):e0112922. doi: 10.1128/aac.01129-22. Epub 2022 Nov 15. PMID: 36377887; PMCID: PMC9764966.

Jin L, Vermund SH, Zhang Y. Trends in Prescription Opioid Use in Motor Vehicle Crash Injuries in the United States: 2014-2018. *Int J Environ Res Public Health*. 2022 Nov 4;19(21):14445. doi: 10.3390/ijerph192114445. PMID: 36361324; PMCID: PMC9657604.

Butler AM, Brown DS, Newland JG, Nickel KB, Sahrmann JM, O'Neil CA, Olsen MA, Zetts RM, Hyun DY, Durkin MJ. Comparative Safety and Attributable Healthcare Expenditures Following Inappropriate Versus Appropriate Outpatient Antibiotic Prescriptions Among Adults With Upper Respiratory Infections. *Clin Infect Dis*. 2023 Mar 21;76(6):986-995. doi: 10.1093/cid/ciac879. PMID: 36350187; PMCID: PMC10226742.

Huntington SF, Appukkuttan S, Wang W, Du Y, Hopson S, Babajanyan S. Treatment Patterns of Follicular Lymphoma in the United States: A Claims Analysis. *J Health Econ Outcomes Res*. 2022 Oct 24;9(2):115-

122. doi: 10.36469/001c.38070. PMID: 36348725; PMCID: PMC9603402.

Oddo ER, Simpson AN, Maldonado L, Hink AB, Andrews AL. Mental Health Care Utilization Among Children and Adolescents With a Firearm Injury. *JAMA Surg.* 2023 Jan 1;158(1):29-34. doi: 10.1001/jamasurg.2022.5299. PMID: 36322057; PMCID: PMC9631226.

Lan YT, Chen YW, Niu R, Chang DC, Hollenbeck BL, Mattingly DA, Smith EL, Talmo CT. The trend and future projection of technology-assisted total knee arthroplasty in the United States. *Int J Med Robot.* 2023 Feb;19(1):e2478. doi: 10.1002/rcs.2478. Epub 2022 Nov 15. PMID: 36321582.

Alanaeme CJ, Sarvesh S, Li CY, Bernatsky S, Curtis JR, Yun H. Adherence patterns in naïve and prevalent use of infliximab and its biosimilar. *BMC Rheumatol.* 2022 Nov 1;6(1):65. doi: 10.1186/s41927-022-00295-7. PMID: 36316762; PMCID: PMC9623955.

Mouchet J, Roumpanis S, Gaki E, Lipnick S, Oskoui M, Scalco RS, Darras BT. Disease Burden of Spinal Muscular Atrophy: A Comparative Cohort Study Using Insurance Claims Data in the USA. *J Neuromuscul Dis.* 2023;10(1):41-53. doi: 10.3233/JND-210764. PMID: 36314213; PMCID: PMC9881018.

Rajkumar S, Venkatraman V, Zidanyue Yang L, Parente B, Lee HJ, Lad SP. Health Care Economics of High-Frequency Spinal Cord Stimulation for Painful Diabetic

Peripheral Neuropathy. *J Diabetes Sci Technol.* 2022 Oct 31;19322968221128321. doi: 10.1177/19322968221128321. Epub ahead of print. PMID: 36314587.

Lau BC, Varsheya K, Morriss N, Wickman J, Kirkendall D, Abrams G. Single-Stage Surgical Treatment of Multi-ligament Knee Injuries Results in Lower Cost and Fewer Complications and Unplanned Reoperations Compared With Staged Treatment. *Arthrosc Sports Med Rehabil.* 2022 Sep 6;4(5):e1659-e1666. doi: 10.1016/j.asmr.2022.06.012. PMID: 36312718; PMCID: PMC9596897.

Bruno AM, Horns JJ, Allshouse AA, Das R, Paudel N, Silver RM, Metz TD. Physician cesarean delivery rates and severe perinatal morbidity among low-risk nulliparas. *J Perinatol.* 2023 Jan;43(1):34-38. doi: 10.1038/s41372-022-01540-0. Epub 2022 Oct 27. PMID: 36302848.

Wang CX, Buss JL, Keller M, Anadkat MJ. Factors Associated With Dermatologic Follow-up vs Emergency Department Return in Patients With Hidradenitis Suppurativa After an Initial Emergency Department Visit. *JAMA Dermatol.* 2022 Dec 1;158(12):1378-1386. doi: 10.1001/jamadermatol.2022.4610. PMID: 36287553; PMCID: PMC9607935.

Sharma M, Wang D, Palmisciano P, Ugiliweneza B, Woo S, Nelson M, Miller D, Savage J, Boakye M, Andaluz N, Mistry AM, Chen CC, Williams BJ. Is intraoperative MRI use in malignant brain tumor surgery a health care burden? A matched analysis of

MarketScan Database. *J Neurooncol*. 2022 Nov;160(2):331-339. doi: 10.1007/s11060-022-04142-0. Epub 2022 Oct 26. PMID: 36289149.

Cai CX, Kim M, Lundeen EA, Benoit SR. Differences in receipt of recommended eye examinations by comorbidity status and healthcare utilization among nonelderly adults with diabetes. *J Diabetes*. 2022 Nov;14(11):749-757. doi: 10.1111/1753-0407.13328. Epub 2022 Oct 26. PMID: 36285845; PMCID: PMC9705799.

To TM, Exuzides A, Abbass IM, Patel AM, Ta JT, Surinach A, Fuller RLM, Luo J. Health care resource utilization and costs among individuals with vs without Huntington disease in a US population. *J Manag Care Spec Pharm*. 2022 Nov;28(11):1228-1239. doi: 10.18553/jmcp.2022.28.11.1228. PMID: 36282937; PMCID: PMC10373050.

Lokhandwala T, Acharya M, Farrelly E, Coutinho AD, Bell CF, Svedsater H. Within-trial economic analysis of resource use from COMET-ICE: A phase 3 clinical trial evaluating sotrovimab for the treatment of patients with COVID-19 at high risk of progression. *J Manag Care Spec Pharm*. 2022 Nov;28(11):1261-1271. doi: 10.18553/jmcp.2022.28.11.1261. PMID: 36282931; PMCID: PMC10372996.

Jiang S, Seslar SP, Sloan LA, Hansen RN. Health care resource utilization and costs associated with atrial fibrillation and rural-urban disparities. *J Manag Care Spec Pharm*. 2022 Nov;28(11):1321-1330. doi:

10.18553/jmcp.2022.28.11.1321. PMID: 36282926; PMCID: PMC10373033.

Massa ST, Chidambaram S, Luong P, Graboyes EM, Mazul AL. Quantifying Total and Out-of-Pocket Costs Associated With Head and Neck Cancer Survivorship. *JAMA Otolaryngol Head Neck Surg*. 2022 Dec 1;148(12):1111-1119. doi: 10.1001/jamaoto.2022.3269. PMID: 36264567; PMCID: PMC9585466.

Leung J, Dooling K, Marin M, Anderson TC, Harpaz R. The Impact of Universal Varicella Vaccination on Herpes Zoster Incidence in the United States: Comparison of Birth Cohorts Preceding and Following Varicella Vaccination Program Launch. *J Infect Dis*. 2022 Oct 21;226(Suppl 4):S470-S477. doi: 10.1093/infdis/jiac255. PMID: 36265856.

Ghani KR, Rojanasart S, Cutone B, Bhattacharyya SK, Krambeck AE. Economic burden of complicated ureteral stent removal in patients with kidney stone disease in the USA. *J Comp Eff Res*. 2022 Dec;11(17):1253-1261. doi: 10.2217/ce-2022-0153. Epub 2022 Oct 19. PMID: 36259761.

Bolognesi MP, Habermann EB. Commercial Claims Data Sources: PearlDiver and Individual Payer Databases. *J Bone Joint Surg Am*. 2022 Oct 19;104(Suppl 3):15-17. doi: 10.2106/JBJS.22.00607. Epub 2022 Oct 19. PMID: 36260038.

Hamad Y, Nickel KB, Burnett YJ, Hamad T, George IA, Olsen MA. Prevalence and risk

factors associated with readmission with acute kidney injury in patients receiving vancomycin outpatient parenteral antimicrobial therapy. *J Clin Pharm Ther.* 2022 Dec;47(12):2188-2195. doi: 10.1111/jcpt.13790. Epub 2022 Oct 18. PMID: 36257600; PMCID: PMC10336722.

Tomicki S, Dieguez G, DeStephano D, Chang M, Cockrum P. Costs by Site of Service for Commercially-Insured Patients with Metastatic Pancreatic Cancer Receiving Guideline-Recommended Chemotherapy: Comparing Community Oncology and Hospital Outpatient Settings. *Clinicoecon Outcomes Res.* 2022 Oct 10;14:653-663. doi: 10.2147/CEOR.S373316. PMID: 36250036; PMCID: PMC9563737.

Szabo SM, Klimchak AC, Qian C, Iannaccone S, Popoff E, Gooch KL. Characterizing the Occurrence of Key Clinical Milestones in Duchenne Muscular Dystrophy in the United States Using Real-World Data. *J Neuromuscul Dis.* 2022;9(6):689-699. doi: 10.3233/JND-220816. PMID: 36245384; PMCID: PMC9697036.

Nabavizadeh B, Li KD, Hakam N, Shaw NM, Leapman MS, Breyer BN. Incidence of circumcision among insured adults in the United States. *PLoS One.* 2022 Oct 17;17(10):e0275207. doi: 10.1371/journal.pone.0275207. PMID: 36251658; PMCID: PMC9576047.

Loftus CJ, Ahn J, Nguyen AM, Holt S, Cain M, Shnorhavorian M, Merguerian P, Hagedorn JC. Short term reoperation rates

after artificial urinary sphincter placement in pediatric patients. *Can J Urol.* 2022 Oct;29(5):11318-11322. PMID: 36245203.

Kadakia A, Catillon M, Fan Q, Williams GR, Marden JR, Anderson A, Kirson N, Dembek C. The Economic Burden of Schizophrenia in the United States. *J Clin Psychiatry.* 2022 Oct 10;83(6):22m14458. doi: 10.4088/JCP.22m14458. PMID: 36244006.

Goyal S, Monsour M, Ko JY, Curtis KM, Whiteman MK, Coy KC, Cox S, Romero L. Contraception claims by medication for opioid use disorder prescription status among insured women with opioid use disorder, United States, 2018. *Contraception.* 2023 Jan;117:67-72. doi: 10.1016/j.contraception.2022.09.129. Epub 2022 Oct 12. PMID: 36243128; PMCID: PMC9722562.

Zhu L, Ferries E, Suthoff E, Namjoshi M, Bera R. Economic burden and antidepressant treatment patterns among patients with major depressive disorder in the United States. *J Manag Care Spec Pharm.* 2022 Nov;28(11-a Suppl):S2-S13. doi: 10.18553/jmcp.2022.28.11-a.s1. PMID: 36242598.

Koltsov JCB, Sambare TD, Alamin TF, Wood KB, Cheng I, Hu SS. Patient-level payment patterns prior to single level lumbar decompression are associated with resource utilization, postoperative payments, and adverse events. *Spine J.* 2023 Feb;23(2):227-237. doi: 10.1016/j.spinee.2022.10.002. Epub 2022 Oct 11. PMID: 36241040.

Rochlin DH, Matros E, Sheckter CC. Declining commercial market share in facial reconstructive surgery: Implications for academic plastic surgery and training future generations. *J Plast Reconstr Aesthet Surg*. 2022 Dec;75(12):4484-4493. doi: 10.1016/j.bjps.2022.08.071. Epub 2022 Aug 27. PMID: 36241505; PMCID: PMC9669143.

Healey MJ, Seal B, Princic N, Black D, Malangone-Monaco E, Azad NS, Smoot RL. Real-World Analysis of Treatment Patterns, Healthcare Utilization, Costs, and Mortality Among People with Biliary Tract Cancers in the USA. *Adv Ther*. 2022 Dec;39(12):5530-5545. doi: 10.1007/s12325-022-02342-8. Epub 2022 Oct 14. PMID: 36241962; PMCID: PMC9568962.

Yih WK, Kulldorff M, Dashevsky I, Maro JC. Sequential Data-Mining for Adverse Events After Recombinant Herpes Zoster Vaccination Using the Tree-Based Scan Statistic. *Am J Epidemiol*. 2023 Feb 1;192(2):276-282. doi: 10.1093/aje/kwac176. PMID: 36227263.

McKenzie NL, Ward RP, Nagele P, Rubin DS. Preoperative β -Blocker Therapy and Stroke or Major Adverse Cardiac Events in Major Abdominal Surgery: A Retrospective Cohort Study. *Anesthesiology*. 2023 Jan 1;138(1):42-54. doi: 10.1097/ALN.0000000000004404. PMID: 36227278; PMCID: PMC9771981.

Jeong SS, Simpson KN, Johnson JM, Rizk HG. Assessment of the Cost Burden of Episodic Recurrent Vestibular Vertigo in the US. *JAMA Otolaryngol Head Neck Surg*. 2022 Oct 13;148(12):1103-10. doi: 10.1001/jamaoto.2022.3247. Epub ahead of print. PMID: 36227614; PMCID: PMC9562102.

Okunseri C, Frantsve-Hawley J, Thakkar-Samtani M, Okunev I, Heaton LJ, Tranby EP. Estimation of oral disease burden from claims and self-reported data. *J Public Health Dent*. 2023 Mar;83(1):51-59. doi: 10.1111/jphd.12550. Epub 2022 Oct 12. PMID: 36224115.

Hugunin J, Davis M, Larkin C, Baek J, Skehan B, Lapane KL. Established Outpatient Care and Follow-Up After Acute Psychiatric Service Use Among Youths and Young Adults. *Psychiatr Serv*. 2023 Jan 1;74(1):2-9. doi: 10.1176/appi.ps.202200047. Epub 2022 Oct 12. PMID: 36223162; PMCID: PMC9812848.

Gallagher ME, Chawla A, Brady BL, Badawy SM. Heterogeneity of the long-term economic burden of severe sickle cell disease: a 5-year longitudinal analysis. *J Med Econ*. 2022 Jan-Dec;25(1):1140-1148. doi: 10.1080/13696998.2022.2133824. PMID: 36222016.

Varagur K, Zubovic E, Skolnick GB, Buss J, Snyder-Warwick A, Reinisch J, Patel KB. Porous Polyethylene Versus Autologous Costochondral Reconstruction for Microtia: Incidence and Analysis of Secondary Procedures. *Cleft Palate*

Craniofac J. 2022 Oct
11:10556656221132034. doi:
10.1177/10556656221132034. Epub ahead
of print. PMID: 36217745.

Wamkpath NS, Kallogjeri D, Snyder-
Warwick AK, Buss JL, Durakovic N.
Incidence and Management of Facial
Paralysis After Skull Base Trauma, an
Administrative Database Study. *Otol*
Neurotol. 2022 Dec 1;43(10):e1180-e1186.
doi: 10.1097/MAO.0000000000003721.
Epub 2022 Oct 10. PMID: 36214506;
PMCID: PMC9649848.

Karkare S, Zhdanava M, Pilon D, Nash AI,
Morrison L, Shah A, Lefebvre P, Joshi K.
Characteristics of Real-world
Commercially Insured Patients With
Treatment-resistant Depression Initiated
on Esketamine Nasal Spray or
Conventional Therapies in the United
States. *Clin Ther*. 2022 Nov;44(11):1432-
1448. doi: 10.1016/j.clinthera.2022.09.005.
Epub 2022 Oct 4. PMID: 36207167.

Elsaid MI, Li Y, Bridges JFP, Brock G,
Minacapelli CD, Rustgi VK. Association of
Bariatric Surgery With Cardiovascular
Outcomes in Adults With Severe Obesity
and Nonalcoholic Fatty Liver Disease.
JAMA Netw Open. 2022 Oct
3;5(10):e2235003. doi:
10.1001/jamanetworkopen.2022.35003.
PMID: 36205997; PMCID: PMC9547320.

Shah JP, Youn GM, Wei EX, Kandathil C,
Most SP. Septoplasty Revision Rates in
Pediatric vs Adult Populations. *JAMA*
Otolaryngol Head Neck Surg. 2022 Nov

1;148(11):1044-1050. doi:
10.1001/jamaoto.2022.3041. PMID:
36201221; PMCID: PMC9539730.

Londhe AA, Holy CE, Weaver J, Fonseca S,
Villasis-Keever A, Fife D. Risk of retinal
detachment and exposure to
fluoroquinolones, common antibiotics, and
febrile illness using a self-controlled case
series study design: Retrospective analyses
of three large healthcare databases in the
US. *PLoS One*. 2022 Oct 6;17(10):e0275796.
doi: 10.1371/journal.pone.0275796. PMID:
36201545; PMCID: PMC9536641.

Wang J, Gagne JJ, Kattinakere-Sreedhara S,
Fischer MA, Bykov K. Association between
initiation of fluoroquinolones and hospital
admission or emergency department visit
for suicidality: population based cohort
study. *BMJ*. 2022 Oct 4;379:e069931. doi:
10.1136/bmj-2021-069931. PMID: 36195324;
PMCID: PMC9530980.

Li J, Patil D, Davies BJ, Filson CP. Trends in
Urethral Suspension With Robotic
Prostatectomy Procedures Following
Medicare Payment Policy Changes. *JAMA*
Netw Open. 2022 Oct 3;5(10):e2233636.
doi: 10.1001/jamanetworkopen.2022.33636.
PMID: 36194414; PMCID: PMC9533184.

Wadhwa H, Zhuang T, Shapiro LM, Welch
JM, Richard MJ, Kamal RN. Site of service
of irrigation and debridement of open
finger and hand fractures: a retrospective
review of trends and outcomes. *Curr*
Orthop Pract. 2022 Jul-Aug;33(4):358-362.
doi: 10.1097/bco.0000000000001123. Epub

2022 May 11. PMID: 36188628; PMCID: PMC9524536.

Suarez EA, Bateman BT, Hernández-Díaz S, Straub L, Wisner KL, Gray KJ, Pennell PB, Lester B, McDougle CJ, Zhu Y, Mogun H, Huybrechts KF. Association of Antidepressant Use During Pregnancy With Risk of Neurodevelopmental Disorders in Children. *JAMA Intern Med.* 2022 Oct 3;182(11):1149–60. doi: 10.1001/jamainternmed.2022.4268. Epub ahead of print. PMID: 36190722; PMCID: PMC9531086.

Simmering JE, Polgreen LA, Talan DA, Cavanaugh JE, Polgreen PM. Association of Appendicitis Incidence With Warmer Weather Independent of Season. *JAMA Netw Open.* 2022 Oct 3;5(10):e2234269. doi: 10.1001/jamanetworkopen.2022.34269. PMID: 36190731; PMCID: PMC9530968.

Baker MC, Vágó E, Liu Y, Lu R, Tamang S, Horváth-Puhó E, Sørensen HT. Sarcoidosis incidence after mTOR inhibitor treatment. *Semin Arthritis Rheum.* 2022 Dec;57:152102. doi: 10.1016/j.semarthrit.2022.152102. Epub 2022 Sep 25. PMID: 36182721; PMCID: PMC10321418.

Schieve LA, Simmons GM, Payne AB, Abe K, Hsu LL, Hulihan M, Pope S, Rhie S, Dupervil B, Hooper WC. Vital Signs: Use of Recommended Health Care Measures to Prevent Selected Complications of Sickle Cell Anemia in Children and Adolescents – Selected U.S. States, 2019. *MMWR Morb Mortal Wkly Rep.* 2022 Sep 30;71(39):1241–

1246. doi: 10.15585/mmwr.mm7139e1. PMID: 36173745; PMCID: PMC9533731.

Gibbons RD, Hur K, Lavigne JE, Mann JJ. Association Between Folic Acid Prescription Fills and Suicide Attempts and Intentional Self-harm Among Privately Insured US Adults. *JAMA Psychiatry.* 2022 Nov 1;79(11):1118–1123. doi: 10.1001/jamapsychiatry.2022.2990. PMID: 36169979; PMCID: PMC9520442.

Gagnon-Sanschagrin P, Schein J, Urganus A, Serra E, Liang Y, Musingarimi P, Cloutier M, Guérin A, Davis LL. Identifying individuals with undiagnosed post-traumatic stress disorder in a large United States civilian population – a machine learning approach. *BMC Psychiatry.* 2022 Sep 29;22(1):630. doi: 10.1186/s12888-022-04267-6. PMID: 36171558; PMCID: PMC9519190.

Abrahami D, Tesfaye H, Yin H, Vine S, Hicks B, Yu OHY, Campeau L, Platt RW, Schneeweiss S, Patorno E, Azoulay L. Sodium-Glucose Cotransporter 2 Inhibitors and the Short-term Risk of Bladder Cancer: An International Multisite Cohort Study. *Diabetes Care.* 2022 Dec 1;45(12):2907–2917. doi: 10.2337/dc22-1174. PMID: 36170656; PMCID: PMC9998845.

Kuo EJ, Chen L, Wright JD, McManus CM, Lee JA, Kuo JH. Phenoxybenzamine is no longer the standard agent used for alpha blockade before adrenalectomy for pheochromocytoma: A national study of 552 patients. *Surgery.* 2023 Jan;173(1):19–

25. doi: 10.1016/j.surg.2022.05.039. Epub 2022 Sep 24. PMID: 36167697.

Heo H, Lambert SR. Ocular Motor Nerve Palsy After Traumatic Brain Injury: A Claims Database Study. *J Neuroophthalmol*. 2023 Mar 1;43(1):131-136. doi: 10.1097/WNO.0000000000001635. Epub 2022 Jun 14. PMID: 36166785; PMCID: PMC10635738.

Senturias Y, Ali MM, West K. Psychotropic Medication Utilization Among Children Diagnosed With Fetal Alcohol Spectrum Disorder. *Pediatrics*. 2022 Oct 1;150(4):e2022056797. doi: 10.1542/peds.2022-056797. PMID: 36164844.

Kabir S, Mei J, Wang Y, Ichikawa N, Ino S, Lebedinsky C. MPN-386 Real-World Ruxolitinib Treatment Pattern in Myelofibrosis Patients With Thrombocytopenia. *Clin Lymphoma Myeloma Leuk*. 2022 Sep; 22 Suppl 2:S336-s337. doi: 10.1016/s2152-2650(22)01458-6.

Blauvelt A, Shi N, Burge R, Atiya B, Zhu B, Somani N, Ridenour T, Lew CR, Zimmerman NM, Murage MJ. Healthcare Costs Among Patients with Psoriasis Treated with Ixekizumab Versus Secukinumab in Real-World Settings Over 24 Months. *Pharmacoecon Open*. 2022 Nov;6(6):871-880. doi: 10.1007/s41669-022-00365-z. Epub 2022 Sep 26. PMID: 36155891; PMCID: PMC9596621.

Rodrigues AJ, Schonfeld E, Varshneya K, Stienen MN, Staartjes VE, Jin MC,

Veeravagu A. Comparison of Deep Learning and Classical Machine Learning Algorithms to Predict Postoperative Outcomes for Anterior Cervical Discectomy and Fusion Procedures With State-of-the-art Performance. *Spine (Phila Pa 1976)*. 2022 Dec 1;47(23):1637-1644. doi: 10.1097/BRS.0000000000004481. Epub 2022 Sep 21. PMID: 36149852.

Lee YW, Morgan JR, Fiascone S, Perkins RB. Underscreening, overscreening, and guideline-adherent cervical cancer screening in a national cohort. *Gynecol Oncol*. 2022 Nov;167(2):181-188. doi: 10.1016/j.ygyno.2022.09.012. Epub 2022 Sep 21. PMID: 36150914.

Wu Y, Ren K, Wan Y, Lin HM. Economic burden in patients with anaplastic lymphoma kinase (ALK)-positive non-small cell lung cancer (NSCLC), with or without brain metastases, receiving first-line ALK inhibitors. *J Oncol Pharm Pract*. 2023 Sep;29(6):1418-1427. doi: 10.1177/10781552221126174. Epub 2022 Sep 21. PMID: 36131505; PMCID: PMC10540485.

Wadhwa H, Leung C, Sklar M, Ames CP, Veeravagu A, Desai A, Ratliff J, Zygorakis CC. Utilization Trends, Cost, and Payments for Adult Spinal Deformity Surgery in Commercial and Medicare-Insured Populations. *Neurosurgery*. 2022 Dec 1;91(6):961-968. doi: 10.1227/neu.0000000000002140. Epub 2022 Sep 19. PMID: 36136402.

Cogan JC, Raghunathan RR, Beauchemin MP, Accordino MK, Huang Y, Elkin EB, Melamed A, Wright JD, Hershman DL. New and Persistent Sedative-Hypnotic Use After Adjuvant Chemotherapy for Breast Cancer. *J Natl Cancer Inst.* 2022 Dec 8;114(12):1698-1705. doi: 10.1093/jnci/djac170. PMID: 36130058; PMCID: PMC9745429.

Miller AC, Arakkal AT, Koeneman SH, Cavanaugh JE, Polgreen PM. A clinically-guided unsupervised clustering approach to recommend symptoms of disease associated with diagnostic opportunities. *Diagnosis (Berl).* 2022 Sep 21;10(1):43-53. doi: 10.1515/dx-2022-0044. PMID: 36127310; PMCID: PMC9934811.

Nin DZ, Chen YW, Talmo CT, Hollenbeck BL, Mattingly DA, Niu R, Chang DC, Smith EL. Costs of Nonoperative Procedures for Knee Osteoarthritis in the Year Prior to Primary Total Knee Arthroplasty. *J Bone Joint Surg Am.* 2022 Oct 5;104(19):1697-1702. doi: 10.2106/JBJS.21.01415. Epub 2022 Sep 20. PMID: 36126140.

Hasan SA, Dauner DG, Rajpurohit A, Farley JF. Direct-acting antiviral retreatment patterns for hepatitis C. *J Manag Care Spec Pharm.* 2022 Oct;28(10):1100-1110. doi: 10.18553/jmcp.2022.28.10.1100. PMID: 36125057; PMCID: PMC10372973.

Dunbar PJ, Sobotka SA, Rodean J, Pulcini CD, Macy ML, Thomson J, Harris D, Collier RJ, Desmarais A, Hall M, Berry JG. Prevalence of and Spending on Ear, Nose, Throat, and Respiratory Infections Among

Children With Chronic Complex Conditions. *Acad Pediatr.* 2023 Mar;23(2):434-440. doi: 10.1016/j.acap.2022.07.004. Epub 2022 Sep 16. PMID: 36122827.

Rizzo KR, Eckhoff MD, Gonzalez GA, Diamond S, Nesti L, Dunn JC. Predictors of Success following Microvascular Replantation Surgery of the Upper Extremity in Adult Patients. *Plast Reconstr Surg Glob Open.* 2022 Sep 14;10(9):e4501. doi: 10.1097/GOX.0000000000004501. PMID: 36119384; PMCID: PMC9473795.

Kadakia A, Brady BL, Dembek C, Williams GR, Kent JM. Burden of EPS in commercial patients with schizophrenia initiating atypical antipsychotics. *Am J Manag Care.* 2022 Sep 1;28(9):e315-e324. doi: 10.37765/ajmc.2022.89163. PMID: 36121363.

Encinosa W, Lane K, Cornelio N. How state surprise billing protections increased ED visits, 2007-2018: potential implications for the No Surprises Act. *Am J Manag Care.* 2022 Sep 1;28(9):e333-e338. doi: 10.37765/ajmc.2022.89226. PMID: 36121365.

He JJ, Horns JJ, Kraiss LW, Smith BK, Griffin CL, DeMartino RR, Sarfati MR, Brooke BS. High-intensity statin therapy reduces risk of amputation and reintervention among patients undergoing lower extremity bypass for chronic limb-threatening ischemia. *J Vasc Surg.* 2023 Feb;77(2):497-505. doi: 10.1016/j.jvs.2022.09.007. Epub 2022 Sep 15. PMID: 36115522.

Yu B, Zhang CA, Li S, Chen T, Mulloy E, Shaw GM, Eisenberg ML. Preconception paternal comorbidities and offspring birth defects: Analysis of a large national data set. *Birth Defects Res.* 2023 Jan 15;115(2):160-170. doi: 10.1002/bdr2.2082. Epub 2022 Sep 15. PMID: 36106720.

Chihara D, Johnston K, Bolatova T, Szabo S, Kalsekar A, Mutebi A, Yang H, Liu Y, Attinson D, Hutchings M. An Epidemiological Model to Estimate the Prevalence of Diffuse Large B-Cell Lymphoma in the United States. *Clin Lymphoma Myeloma Leuk.* 2022 Dec;22(12):e1092-e1099. doi: 10.1016/j.clml.2022.08.008. Epub 2022 Aug 21. PMID: 36109323.

Rahman M, Chen L, Daw J, Wright JD, D'Alton ME, Wen T, Friedman AM. Pregnancy costs with commercial insurance. *J Matern Fetal Neonatal Med.* 2022 Dec;35(25):10143-10151. doi: 10.1080/14767058.2022.2122037. Epub 2022 Sep 14. PMID: 36104042.

Tkacz J, Brady BL. Increasing rate of diagnosed childhood mental illness in the United States: Incidence, prevalence and costs. *Public Health Pract (Oxf).* 2021 Oct 15;2:100204. doi: 10.1016/j.puhip.2021.100204. PMID: 36101631; PMCID: PMC9461637.

Smyth EN, Beyrer J, Saverno KR, Hadden E, Abedtash H, DeLuca A, Lawrence GW, Rybowski S. Real-World Patient Characteristics, Utilization Patterns, and Outcomes of US Patients with HR+, HER2-

Metastatic Breast Cancer Treated with Abemaciclib. *Drugs Real World Outcomes.* 2022 Dec;9(4):681-693. doi: 10.1007/s40801-022-00327-1. Epub 2022 Sep 12. PMID: 36097254; PMCID: PMC9712844.

Johnson TM 2nd, Walker D, Lockefer A, Jiang B, Nimke D, Lozano-Ortega G, Kimura T. Mirabegron and antimuscarinic use in frail overactive bladder patients in the United States Medicare population. *Neurourol Urodyn.* 2022 Nov;41(8):1872-1889. doi: 10.1002/nau.25040. Epub 2022 Sep 13. PMID: 36098417; PMCID: PMC9826123.

Ruzieh M, Ahmad TA, Liu G, Foy AJ. Association between statin exposure and diabetes incidence among privately-insured patients before and after applying a novel technique to control for selection bias. *Am J Med Sci.* 2023 Jan;365(1):26-30. doi: 10.1016/j.amjms.2022.08.018. Epub 2022 Sep 10. PMID: 36096188.

Nguyen JT, Barnes EL, Thorpe CT, Stitzenberg KB, Tak CR, Kinlaw AC. Postoperative Use of Biologics was Less Common among Patients with Crohn's Disease With Emergent/Urgent Versus Elective Intestinal Resection. *Gastro Hep Adv.* 2022;1(5):894-904. doi: 10.1016/j.gastha.2022.06.003. Epub 2022 Jun 13. PMID: 36091220; PMCID: PMC9454319.

Logue TC, Huang Y, Benson RJ, Pack AM, Wright JD, D'Alton ME, Friedman AM. Use of antiepileptic drugs by trimester. *J Matern*

Fetal Neonatal Med. 2022
Dec;35(25):10158-10161. doi:
10.1080/14767058.2022.2122039. Epub
2022 Sep 11. PMID: 36093852.

Mahipal V, Alam MAU. Estimating
Heterogeneous Causal Effect of
Polysubstance Usage on Drug Overdose
from Large-Scale Electronic Health
Record. Annu Int Conf IEEE Eng Med Biol
Soc. 2022 Jul;2022:1028-1031. doi:
10.1109/EMBC48229.2022.9872018. PMID:
36086313.

Olsen MA, Stwalley D, Tipping AD, Keller
MR, Yu H, Dubberke ER. Trends in the
incidence of *Clostridioides difficile*
infection in adults and the elderly insured
by Medicaid compared to commercial
insurance or Medicare only. Infect Control
Hosp Epidemiol. 2022 Sep 9:1-9. doi:
10.1017/ice.2022.208. Epub ahead of print.
PMID: 36082779; PMCID: PMC9995604.

McIntyre RS, Higa S, Doan QV, Amari D,
Oliveri D, Gillard P, Harrington A. Place of
care and costs associated with acute
episodes and remission in bipolar I
disorder. J Med Econ. 2022 Jan-
Dec;25(1):1110-1117. doi:
10.1080/13696998.2022.2120264. PMID:
36082506.

Pulcini CD, Goyal MK, Hall M, De Souza
HG, Chaudhary S, Alpern ER, Fein JA,
Fleegler EW. Two-Year Utilization and
Expenditures for Children After a Firearm
Injury. Am J Prev Med. 2022 Dec;63(6):875-
882. doi: 10.1016/j.amepre.2022.07.007.
Epub 2022 Sep 6. PMID: 36075816.

Hu X, Brock KE, Effinger KE, Zhang B,
Graetz I, Lipscomb J, Ji X. Changes in
Opioid Prescriptions and Potential Misuse
and Substance Use Disorders Among
Childhood Cancer Survivors Following the
2016 Opioid Prescribing Guideline. JAMA
Oncol. 2022 Nov 1;8(11):1658-1662. doi:
10.1001/jamaoncol.2022.3744. PMID:
36074473; PMCID: PMC9459898.

Turkoz I, Daskiran M, Starr HL, Najarian D,
Lopena O, Obando C, Keenan A, Benson C,
Gopal S. Comparing Relapse Rates in
Real-World Patients with Schizophrenia
Who Were Adequately versus Not
Adequately Treated with Paliperidone
Palmitate Once-Monthly Injections Before
Transitioning to Once-Every-3-Months
Injections. Neuropsychiatr Dis Treat. 2022
Aug 30;18:1927-1937. doi:
10.2147/NDT.S373725. PMID: 36065384;
PMCID: PMC9440679.

Nicholls M, Niazi F, Nelson WW, Lau E,
Kurtz SM, Ong KL. Association Between
Bio-Fermentation Derived Hyaluronic Acid
and Healthcare Costs Following Knee
Arthroplasty. Clinicoecon Outcomes Res.
2022 Aug 30;14:575-585. doi:
10.2147/CEOR.S347512. PMID: 36065176;
PMCID: PMC9440671.

Ungaro RC, Griffith J, Garcia-Horton V,
Wang A, Cross RK. Adalimumab Is
Associated With Lower Healthcare
Resource and Steroid Use Versus
Vedolizumab in Biologic-Naive Crohn's
Disease: A Retrospective Claims Database
Analysis. Crohns Colitis 360. 2022 Aug

4;4(3):otac029. doi:

10.1093/crocol/otac029. PMID: 36061451; PMCID: PMC9434638.

Hu T, Song Y, Done N, Liu Q, Sarpong EM, Lemus-Wirtz E, Signorovitch J, Mohanty S, Weiss T. Incidence of invasive pneumococcal disease in children with commercial insurance or Medicaid coverage in the United States before and after the introduction of 7- and 13-valent pneumococcal conjugate vaccines during 1998-2018. *BMC Public Health*. 2022 Sep 5;22(1):1677. doi: 10.1186/s12889-022-14051-6. PMID: 36064378; PMCID: PMC9442936.

Davis GE, Zeiger RS, Emmanuel B, Chung Y, Tran TN, Evans KA, Chen S, Katial R, Kreindler JL, Tkacz J. Systemic Corticosteroid-related Adverse Outcomes and Health Care Resource Utilization and Costs Among Patients with Chronic Rhinosinusitis with Nasal Polyposis. *Clin Ther*. 2022 Sep;44(9):1187-1202. doi: 10.1016/j.clinthera.2022.08.004. Epub 2022 Aug 31. PMID: 36057475.

Simmering JE, Welsh MJ, Schultz J, Narayanan NS. Use of Glycolysis-Enhancing Drugs and Risk of Parkinson's Disease. *Mov Disord*. 2022 Nov;37(11):2210-2216. doi: 10.1002/mds.29184. Epub 2022 Aug 22. PMID: 36054705; PMCID: PMC9669185.

Karzon AL, Kadakia RJ, Coleman MM, Bariteau JT, Labib SA. The Rise of Total Ankle Arthroplasty Use: A Database Analysis Describing Case Volumes and

Incidence Trends in the United States Between 2009 and 2019. *Foot Ankle Int*. 2022 Nov;43(11):1501-1510. doi:

10.1177/10711007221119148. Epub 2022 Sep 1. PMID: 36050924.

Park J, Bigman E, Zhang P. Productivity Loss and Medical Costs Associated With Type 2 Diabetes Among Employees Aged 18-64 Years With Large Employer-Sponsored Insurance. *Diabetes Care*. 2022 Nov 1;45(11):2553-2560. doi: 10.2337/dc22-0445. PMID: 36048852; PMCID: PMC9633402.

Rosario B, Zhang A, Patel M, Rajmane A, Xie N, Weeraratne D, Alterovitz G. Characterizing Thrombotic Complication Risk Factors Associated With COVID-19 via Heterogeneous Patient Data: Retrospective Observational Study. *J Med Internet Res*. 2022 Oct 21;24(10):e35860. doi: 10.2196/35860. PMID: 36044652; PMCID: PMC9591707.

Gonzalez GA, Corso K, Kr S, Porto G, Wainwright J, Franco D, Miao J, Hines K, O'Leary M, Mouchtouris N, Mahtabfar A, Neavling N, Montenegro TS, Thalheimer S, Sharan A, Jallo J, Harrop J. Incidence of Pseudarthrosis and Subsequent Surgery After Cervical Fusion Surgery: A Retrospective Review of a National Health Care Claims Database. *World Neurosurg*. 2022 Nov;167:e806-e845. doi: 10.1016/j.wneu.2022.08.094. Epub 2022 Aug 28. PMID: 36041719.

Cong Z, Tran O, Nelson J, Silver M, Chung K. Productivity Loss and Indirect Costs for

Patients Newly Diagnosed with Early-versus Late-Stage Cancer in the USA: A Large-Scale Observational Research Study. *Appl Health Econ Health Policy*. 2022 Nov;20(6):845-856. doi: 10.1007/s40258-022-00753-w. Epub 2022 Aug 30. PMID: 36040661; PMCID: PMC9596506.

Collins JP, King LM, Collier SA, Person J, Gerdes ME, Crim SM, Bartoces M, Fleming-Dutra KE, Friedman CR, Francois Watkins LK. Antibiotic prescribing for acute gastroenteritis during ambulatory care visits-United States, 2006-2015. *Infect Control Hosp Epidemiol*. 2022 Dec;43(12):1880-1889. doi: 10.1017/ice.2021.522. Epub 2022 Aug 26. PMID: 36017721; PMCID: PMC9753066.

Erickson BA, Miller AC, Warner HL, Drobish JN, Koeneman SH, Cavanaugh JE, Polgreen PM. Understanding the Prodromal Period of Necrotizing Soft Tissue Infections of the Genitalia (Fournier's Gangrene) and the Incidence, Duration, and Risk Factors Associated With Potential Missed Opportunities for an Earlier Diagnosis: A Population-based Longitudinal Study. *J Urol*. 2022 Dec;208(6):1259-1267. doi: 10.1097/JU.0000000000002920. Epub 2022 Aug 25. PMID: 36006046.

Salastekar NV, Duszak R, Jr, Santavicca S, Horný M, Balthazar P, Khaja A, Hughes DR, Hanna TN. Utilization of Chest and Abdominopelvic CT for Traumatic Injury From 2011 to 2018: Evaluation Using a National Commercial Database. *AJR Am J*

Roentgenol. 2023 Feb;220(2):265-271. doi: 10.2214/AJR.22.27991. Epub 2022 Aug 24. PMID: 36000666.

Archambault C, Azad AD, Al-Moujahed A, Vail D, Wood E, Koo EB. Time to Treatment of Pediatric Retinal Detachments: A US Claims-based Analysis. *Ophthalmol Retina*. 2023 Mar;7(3):221-226. doi: 10.1016/j.oret.2022.08.017. Epub 2022 Aug 21. PMID: 36002094; PMCID: PMC9941366.

Zah V, Stanicic F, Ruby J, Vukicevic D, Hurley D. Real-world Medicare Healthcare Costs of Patients with Dupuytren's Contracture Treated with Collagenase or Fasciectomy. *Plast Reconstr Surg Glob Open*. 2022 Aug 18;10(8):e4480. doi: 10.1097/GOX.0000000000004480. PMID: 35999874; PMCID: PMC9390814.

Levine DM, Samal L, Neville BA, Burdick E, Wien M, Rodriguez JA, Ganesan S, Blitzer SC, Yuan NH, Ng K, Park Y, Rajmane A, Jackson GP, Lipsitz SR, Bates DW. The Association of the First Surge of the COVID-19 Pandemic with the High- and Low-Value Outpatient Care Delivered to Adults in the USA. *J Gen Intern Med*. 2022 Nov;37(15):3979-3988. doi: 10.1007/s11606-022-07757-1. Epub 2022 Aug 24. PMID: 36002691; PMCID: PMC9400559.

Navarro-Millán I, Xie F, Crowson CS, Safford MM, Rajan M, Sattui SE, Curtis JR. Comparing cardiovascular risk of patients with rheumatoid arthritis within the Social Security Disability Insurance with those commercially insured. *Arthritis Res Ther*. 2022 Aug 22;24(1):202. doi: 10.1186/s13075-

022-02847-1. PMID: 35996193; PMCID: PMC9396772.

Joo H, Maskery BA, Alpern JD, Chancey RJ, Weinberg M, Stauffer WM. Low Treatment Rates of Parasitic Diseases with Standard-of-Care Prescription Drugs in the United States, 2013-2019. *Am J Trop Med Hyg.* 2022 Aug 22;107(4):780-784. doi: 10.4269/ajtmh.22-0291. PMID: 35995133; PMCID: PMC9651536.

Joo H, Maskery BA, Alpern JD, Chancey RJ, Weinberg M, Stauffer WM. Low Use of Standard-of-Care Antiparasitic Drugs and Increased Estimated Outpatient Payments for Treating Schistosomiasis in the United States, 2013-19. *Am J Trop Med Hyg.* 2022 Aug 22;107(4):841-844. doi: 10.4269/ajtmh.22-0254. PMID: 35995136; PMCID: PMC9651520.

Sunaryo PL, May PC, Holt SK, Sorensen MD, Sweet RM, Harper JD. Ureteral Strictures Following Ureteroscopy for Kidney Stone Disease: A Population-based Assessment. *J Urol.* 2022 Dec;208(6):1268-1275. doi: 10.1097/JU.0000000000002929. Epub 2022 Aug 19. PMID: 35984646.

Michaud JB, Zhuang T, Shapiro LM, Cohen SA, Kamal RN. Out-of-Pocket and Total Costs for Common Hand Procedures From 2008 to 2016: A Nationwide Claims Database Analysis. *J Hand Surg Am.* 2022 Nov;47(11):1057-1067. doi: 10.1016/j.jhssa.2022.06.018. Epub 2022 Aug 17. PMID: 35985865.

Schein J, Childress A, Adams J, Gagnon-Sanschagrin P, Maitland J, Qu W, Cloutier M, Guérin A. Treatment patterns among children and adolescents with attention-deficit/hyperactivity disorder in the United States - a retrospective claims analysis. *BMC Psychiatry.* 2022 Aug 18;22(1):555. doi: 10.1186/s12888-022-04188-4. PMID: 35982469; PMCID: PMC9387015.

Moll K, Hobbi S, Zhou CK, Fingar K, Burrell T, Hernandez-Medina V, Obidi J, Alawar N, Anderson SA, Wong HL, Shoaibi A. Assessment of performance characteristics of COVID-19 ICD-10-CM diagnosis code U07.1 using SARS-CoV-2 nucleic acid amplification test results. *PLoS One.* 2022 Aug 18;17(8):e0273196. doi: 10.1371/journal.pone.0273196. PMID: 35980905; PMCID: PMC9387790.

Atallah EL, Maegawa R, Latremouille-Viau D, Rossi C, Guérin A, Wu EQ, Patwardhan P. Chronic Myeloid Leukemia: Part I-Real-World Treatment Patterns, Healthcare Resource Utilization, and Associated Costs in Later Lines of Therapy in the United States. *J Health Econ Outcomes Res.* 2022 Aug 4;9(2):19-29. doi: 10.36469/001c.36975. PMID: 35979528; PMCID: PMC9352872.

Ray M, Swallow E, Gandhi K, Carley C, Sikirica V, Wang T, Done N, Signorovitch J, Mostaghimi A. Healthcare Utilization and Costs Among US Adolescents With Alopecia Areata. *J Health Econ Outcomes Res.* 2022 Jul 29;9(2):11-18. doi: 10.36469/001c.36229. PMID: 35975139; PMCID: PMC9338344.

Ellis RP, Hsu HE, Siracuse JJ, Walkey AJ, Lasser KE, Jacobson BC, Andriola C, Hoagland A, Liu Y, Song C, Kuo TC, Ash AS. Development and Assessment of a New Framework for Disease Surveillance, Prediction, and Risk Adjustment: The Diagnostic Items Classification System. *JAMA Health Forum*. 2022 Mar 25;3(3):e220276. doi: 10.1001/jamahealthforum.2022.0276. PMID: 35977291; PMCID: PMC8956982.

Gungabissoon U, Gibbons DC, Requena G, Ribeiro de Souza A, Smith H. Disease burden of primary biliary cholangitis and associated pruritus based on a cross-sectional US claims analysis. *BMJ Open Gastroenterol*. 2022 Aug;9(1):e000857. doi: 10.1136/bmjgast-2021-000857. PMID: 35973742; PMCID: PMC9386220.

Greenhawt M, Abrams EM, Chalil JM, Tran O, Green TD, Shaker MS. The Impact of Allergy Specialty Care on Health Care Utilization Among Peanut Allergy Children in the United States. *J Allergy Clin Immunol Pract*. 2022 Dec;10(12):3276-3283. doi: 10.1016/j.jaip.2022.08.011. Epub 2022 Aug 13. PMID: 35973525.

Whitham HK, Gilliland AE, Collier SA, Scallan Walter E, Hoffmann S. Direct Outpatient Health Care Costs Among Commercially Insured Persons for Common Foodborne Pathogens and Acute Gastroenteritis, 2012-2015. *Foodborne Pathog Dis*. 2022 Aug;19(8):558-568. doi: 10.1089/fpd.2021.0108. PMID: 35960532.

Zakutansky SK, McCaffery H, Viglianti EM, Carlton EF. Characteristics and Outcomes of Young Adult Patients with Severe Sepsis Admitted to Pediatric Intensive Care Units Versus Medical/Surgical Intensive Care Units. *J Intensive Care Med*. 2023 Mar;38(3):290-298. doi: 10.1177/08850666221119685. Epub 2022 Aug 10. PMID: 35950262; PMCID: PMC10561306.

Speltz Paiz R, Kaizer A, Jain SV, Darrow DP, Shankar H, Goel V. Lead and Pulse Generator Migration After Spinal Cord Stimulation Implantation: Insights From an Analysis of 7322 Patients. *Neuromodulation*. 2023 Jul;26(5):1095-1101. doi: 10.1016/j.neurom.2022.06.001. Epub 2022 Aug 9. PMID: 35953425.

McIntyre RS, Laliberté F, Germain G, MacKnight SD, Gillard P, Harrington A. The real-world health resource use and costs of misdiagnosing bipolar I disorder. *J Affect Disord*. 2022 Nov 1;316:26-33. doi: 10.1016/j.jad.2022.07.069. Epub 2022 Aug 8. PMID: 35952932.

Bandara S, Bicket MC, McGinty EE. Trends in opioid and non-opioid treatment for chronic non-cancer pain and cancer pain among privately insured adults in the United States, 2012-2019. *PLoS One*. 2022 Aug 10;17(8):e0272142. doi: 10.1371/journal.pone.0272142. PMID: 35947577; PMCID: PMC9365134.

Armstrong A, Xia Q, John AR, Patel V, Seigel L. Treatment Patterns for Targeted Therapies, Non-Targeted Therapies, and

Drug Holidays in Patients with Psoriasis.
Dermatol Ther (Heidelb). 2022

Sep;12(9):2087-2103. doi: 10.1007/s13555-022-00775-1. Epub 2022 Aug 10. PMID: 35947341; PMCID: PMC9464286.

Sharma M, Uddin SA, Hanna G, Ugiliweneza B, Kim TT, Johnson JP, Boakye M, Drazin D. Trends and Long-term Health Care Utilization of Computer-assisted Neuronavigation in Spine Fusions: An Exact Matched Analysis of National Administrative Database. World Neurosurg. 2022 Oct;166:e850-e858. doi: 10.1016/j.wneu.2022.07.116. Epub 2022 Aug 6. PMID: 35944855.

Corral M, Castro RC, To TM, Arndorfer S, Wang S, Stephens J. Burden of influenza in patients with cardiovascular disease who receive antiviral treatment for influenza. J Med Econ. 2022 Jan-Dec;25(1):1061-1067. doi: 10.1080/13696998.2022.2111910. PMID: 35943115.

Tran PT, Nduaguba SO, Diaby V, Choi Y, Winterstein AG. RSV testing practice and positivity by patient demographics in the United States: integrated analyses of MarketScan and NREVSS databases. BMC Infect Dis. 2022 Aug 8;22(1):681. doi: 10.1186/s12879-022-07659-x. PMID: 35941563; PMCID: PMC9360654.

Siddiqui J, Samuel SK, Hayward B, Wirka KA, Deering KL, Harshaw Q, Phillips A, Harbour M. The economic burden of HIV-associated wasting in the era of modern antiretroviral therapy. J Manag Care Spec Pharm. 2022 Oct;28(10):1180-1189. doi:

10.18553/jmcp.2022.22097. Epub 2022 Aug 8. PMID: 35939048.

Sharma M, Jain N, Dietz N, Wang D, Ugiliweneza B, Drazin D, Boakye M. Incidence of new onset dementia and health care utilization following spine fusions: A propensity score matching analysis. Neurochirurgie. 2022 Dec;68(6):562-568. doi: 10.1016/j.neuchi.2022.07.010. Epub 2022 Aug 3. PMID: 35932885.

Yang JY, Lund JL, Pate V, Kappelman MD. Utilization of Colonoscopy Following Treatment Initiation in U.S. Commercially Insured Patients With Inflammatory Bowel Disease, 2013-2019. Inflamm Bowel Dis. 2023 May 2;29(5):735-743. doi: 10.1093/ibd/izac136. PMID: 35929644; PMCID: PMC10152285.

Nash D, Katcoff H, Faerber J, Iyer VR, Shah MJ, O'Byrne ML, Janson C. Impact of Device Miniaturization on Insertable Cardiac Monitor Use in the Pediatric Population: An Analysis of the MarketScan Commercial and Medicaid Databases. J Am Heart Assoc. 2022 Aug 16;11(16):e024112. doi: 10.1161/JAHA.121.024112. Epub 2022 Aug 5. PMID: 35929446; PMCID: PMC9496290.

Galsky MD, Grewal S, Liu Y, Fuldeore R, Sesterhenn S, Chang N, Hepp Z. Treatment with opioids in patients with locally advanced or metastatic urothelial carcinoma and matched non-cancer controls. Urol Oncol. 2022 Sep;40(9):411.e9-411.e18. doi:

10.1016/j.urolonc.2022.06.013. Epub 2022 Aug 1. PMID: 35927156.

Cockrum RH, Soo J, Ham SA, Cohen KS, Snow SG. Association of Progestogens and Venous Thromboembolism Among Women of Reproductive Age. *Obstet Gynecol.* 2022 Sep 1;140(3):477-487. doi: 10.1097/AOG.0000000000004896. Epub 2022 Aug 3. PMID: 35926206; PMCID: PMC9669089.

King LM, Tsay SV, Hicks LA, Bizune D, Hersh AL, Fleming-Dutra K. Changes in outpatient antibiotic prescribing for acute respiratory illnesses, 2011 to 2018. *Antimicrob Steward Healthc Epidemiol.* 2021 Dec 17;1(1):1-8. doi: 10.1017/ash.2021.230. PMID: 35923647; PMCID: PMC9345578.

Durgapal S, Hanson K, Kurosky SK, Kautz S, Sison S, Cool C. Work productivity among patients with metastatic breast cancer in the United States. *Expert Rev Pharmacoecon Outcomes Res.* 2022 Oct;22(7):1137-1145. doi: 10.1080/14737167.2022.2108409. Epub 2022 Aug 4. PMID: 35906806.

Robertson DM, Truong DT, Cox DA, Carmichael HL, Ou Z, Minich LL, Williams RV, Selamet Tierney ES. Pediatric Heart Network Trial of Losartan vs. Atenolol in Children and Young Adults with Marfan Syndrome: Impact on Prescription Practices. *Pediatr Cardiol.* 2023 Mar;44(3):618-623. doi: 10.1007/s00246-022-02976-z. Epub 2022 Jul 28. PMID: 35902413.

Lodise TP, Manjelienskaia J, Marchlewicz EH, Rodriguez M. Retrospective Cohort Study of the 12-Month Epidemiology, Treatment Patterns, Outcomes, and Health Care Costs Among Adult Patients With Complicated Urinary Tract Infections. *Open Forum Infect Dis.* 2022 Jun 20;9(7):ofac307. doi: 10.1093/ofid/ofac307. PMID: 35891695; PMCID: PMC9308450.

Hughes A, Khan T, Kirley K, Moin T, Mainous A, Sachdev N, Williams J, Wozniak G. Metformin Prescription Rates for Patients with Prediabetes. *J Am Board Fam Med.* 2022 Jul-Aug;35(4):821-826. doi: 10.3122/jabfm.2022.04.210485. PMID: 35896449.

Charalambous LT, Adil SM, Rajkumar S, Gramer R, Kirsch E, Liu B, Zomorodi A, McClellan M, Lad SP. A Nationwide Analysis of Aneurysmal Subarachnoid Hemorrhage Mortality, Complications, and Health Economics in the USA. *Transl Stroke Res.* 2023 Jun;14(3):347-356. doi: 10.1007/s12975-022-01065-w. Epub 2022 Jul 26. PMID: 35881231; PMCID: PMC10149048.

Huginin J, Davis M, Larkin C, Baek J, Skehan B, Lapane KL. Healthcare use in commercially insured youth with mental health disorders. *BMC Health Serv Res.* 2022 Jul 26;22(1):952. doi: 10.1186/s12913-022-08353-z. PMID: 35883138; PMCID: PMC9323879.

Desai R, Park H, Brown JD, Mohandas R, Pepine CJ, Smith SM. Comparative Safety and Effectiveness of Aldosterone

Antagonists Versus Beta-Blockers as Fourth Agents in Patients With Apparent Resistant Hypertension. *Hypertension*. 2022 Oct;79(10):2305-2315. doi: 10.1161/HYPERTENSIONAHA.122.19280. Epub 2022 Jul 26. PMID: 35880517.

Suarez EA, Nguyen M, Zhang D, Zhao Y, Stojanovic D, Munoz M, Liedtka J, Anderson A, Liu W, Dashevsky I, Cole D, DeLuccia S, Menzin T, Noble J, Maro JC. Novel methods for pregnancy drug safety surveillance in the FDA Sentinel System. *Pharmacoepidemiol Drug Saf*. 2023 Feb;32(2):126-136. doi: 10.1002/pds.5512. Epub 2022 Aug 10. PMID: 35871766.

Varnado OJ, Manjelievskaia J, Ye W, Perry A, Schuh K, Wenzel R. Health care resource utilization and costs associated with treatment among patients initiating calcitonin gene-related peptide inhibitors vs other preventive migraine treatments in the United States. *J Manag Care Spec Pharm*. 2022 Aug;28(8):818-829. doi: 10.18553/jmcp.2022.28.8.818. PMID: 35876297; PMCID: PMC10373045.

Rajkumar S, Yang LZ, Venkatraman V, Charalambous L, Parente B, Lee HJ, Lad SP. Health Care Resource Utilization of High-Frequency Spinal Cord Stimulation for Treatment of Chronic Refractory Low Back Pain. *Neuromodulation*. 2023 Jan;26(1):115-123. doi: 10.1016/j.neurom.2022.03.013. Epub 2022 Jul 21. PMID: 35871122.

Garrity BM, Perrin JM, Rodean J, Houtrow AJ, Shelton C, Stille C, McLellan S,

Coleman C, Mann M, Kuhlthau K, Desmarais A, Berry JG. Annual Days With a Health Care Encounter for Children and Youth Enrolled in Medicaid: A Multistate Analysis. *Acad Pediatr*. 2023 Mar;23(2):441-447. doi: 10.1016/j.acap.2022.07.008. Epub 2022 Jul 18. PMID: 35863733.

Vollmer BL, Solowey J, Chen X, Chang BP, Williams O, Kulick ER, Elkind MSV, Boehme AK. Individual and Joint Effects of Influenza-Like Illness and Vaccinations on Stroke in the Young: A Case-Control Study. *Stroke*. 2022 Aug;53(8):2585-2593. doi: 10.1161/STROKEAHA.121.038403. Epub 2022 Jul 11. PMID: 35861760; PMCID: PMC9329193.

Shankar DS, Kim J, Bienstock DM, Gao M, Lee Y, Zubizarreta NJ, Poeran J, Lin JD, Chaudhary SB, Hecht AC. Postoperative Opioid Use and Prescribing Patterns among Patients Undergoing Cervical Laminectomy with Instrumented Fusion versus Cervical Laminoplasty with Reconstruction. *Global Spine J*. 2022 Jul 21:21925682221116825. doi: 10.1177/21925682221116825. Epub ahead of print. PMID: 35861211.

Lutsey PL, Evensen LH, Thenappan T, Prins KW, Walker RF, Farley JF, MacLehose RF, Alonso A, Zakai NA. Incidence and Risk Factors of Pulmonary Hypertension After Venous Thromboembolism: An Analysis of a Large Health Care Database. *J Am Heart Assoc*. 2022 Jul 19;11(14):e024358. doi: 10.1161/JAHA.121.024358. Epub 2022 Jul 15. PMID: 35861839; PMCID: PMC9707844.

Watkins S, Toliver JC, Kim N, Whitmire S, Garvey WT. Economic outcomes of antiobesity medication use among adults in the United States: A retrospective cohort study. *J Manag Care Spec Pharm*. 2022 Oct;28(10):1066-1079. doi: 10.18553/jmcp.2022.22116. Epub 2022 Jul 20. PMID: 35856489.

Hall EW, Tippet A, Fridkin S, Anderson EJ, Lopman B, Benkeser D, Baker JM. Association Between Rotavirus Vaccination and Antibiotic Prescribing Among Commercially Insured US Children, 2007-2018. *Open Forum Infect Dis*. 2022 Jun 9;9(7):ofac276. doi: 10.1093/ofid/ofac276. PMID: 35855006; PMCID: PMC9291383.

Firkins SA, Hart PA, Porter K, Chiang C, Cloyd JM, Dillhoff M, Lara LF, Manilchuk A, Papachristou GI, Pawlik TM, Tsung A, Conwell DL, Krishna SG. Incidence and Risk Factors for New-Onset Diabetes Mellitus After Surgical Resection of Pancreatic Cystic Lesions: A MarketScan Study. *Pancreas*. 2022 May 1;51(5):427-434. doi: 10.1097/MPA.0000000000002054. Epub 2022 Jul 19. PMID: 35858183; PMCID: PMC9388590.

Charalambous LT, Rajkumar S, Liu B, Adil SM, Wong M, Hodges S, Amrhein TJ, Leithe LG, Parente B, Lee HJ, Lad SP. Treatment Patterns and Health Care Resource Utilization of Iatrogenic Spinal Cerebrospinal Fluid Leaks in the United States. *Clin Spine Surg*. 2022 Nov 1;35(9):E725-E730. doi: 10.1097/BSD.0000000000001363. Epub

2022 Jul 14. PMID: 35858207; PMCID: PMC9633342.

Lugogo NL, Bogart M, Corbridge T, Packnett ER, Wu J, Hahn B. Impact of mepolizumab in patients with high-burden severe asthma within a managed care population. *J Asthma*. 2023 Apr;60(4):811-823. doi: 10.1080/02770903.2022.2102036. Epub 2022 Jul 21. PMID: 35853158.

Cranmer LD, Hess LM, Sugihara T, Muntz HG. Cardiac events among patients with sarcoma treated with doxorubicin by method of infusion: A real-world database study. *Cancer Rep (Hoboken)*. 2023 Jan;6(1):e1681. doi: 10.1002/cnr2.1681. Epub 2022 Jul 18. PMID: 35852051; PMCID: PMC9875654.

Liao L, Chen L, Gockley A, Melamed A, St Clair CM, Hou JY, Khoury-Collado F, Accordino M, Hershman DL, Wright JD. Temporal Trends in Cervical Cancer Screening Practices and Associated Downstream Abnormalities and Procedures Among Women With Insurance in the United States. *Obstet Gynecol*. 2022 Jul 1;140(1):55-64. doi: 10.1097/AOG.0000000000004838. Epub 2022 Jun 7. PMID: 35849456.

Glover S, Borrego ME, Ray GM, Roberts MH. Sodium-Glucose Cotransporter 2 Inhibitor Use Among Individuals Age <65 with Type 2 Diabetes and Heart Failure with Reduced Ejection Fraction: A Cost-Benefit Analysis. *Clinicoecon Outcomes Res*. 2022 Jul 9;14:465-477. doi:

10.2147/CEOR.S361886. PMID: 35845354; PMCID: PMC9278724.

Cafuir L, Estrin A, Chen E, Hinds D, Prince P, Thorburn J, Mead H, Kempton CL. Early real-world experience with emicizumab and concomitant factor VIII replacement products in adult males with Hemophilia A without inhibitors. *J Med Econ.* 2022 Jan-Dec;25(1):984-992. doi: 10.1080/13696998.2022.2102779. PMID: 35848992.

Wallick C, To TM, Korom S, Masters H 3rd, Hanania NA, Moawad D. Impact of influenza infection on the short- and long-term health of patients with chronic obstructive pulmonary disease. *J Med Econ.* 2022 Jan-Dec;25(1):930-939. doi: 10.1080/13696998.2022.2098630. PMID: 35837794.

Alalwan AA, Friedman J, Park H, Segal R, Brumback B, Hartzema A. Comparative Safety of Sleeve Gastrectomy and Roux-en-Y: A Propensity Score Analysis. *World J Surg.* 2022 Nov;46(11):2715-2724. doi: 10.1007/s00268-022-06664-0. Epub 2022 Jul 15. PMID: 35840690.

Sharifi M, Goodman AB, Chua KP. Assessment of Underuse and Overuse of Screening Tests for Co-occurring Conditions Among Children With Obesity. *JAMA Netw Open.* 2022 Jul 1;5(7):e2222101. doi: 10.1001/jamanetworkopen.2022.22101. Erratum in: *JAMA Netw Open.* 2022 Aug 1;5(8):e2228489. PMID: 35834247; PMCID: PMC9284328.

Carbone AD, Wang K, Tiao J, Chu B, Poeran J, Colvin AC, Gladstone JN, Anthony SG. Trends in Health Care Expenditures and Patient Out-of-Pocket Expenses in Primary Anterior Cruciate Ligament Reconstruction. *Am J Sports Med.* 2022 Aug;50(10):2680-2687. doi: 10.1177/03635465221107082. Epub 2022 Jul 14. PMID: 35834951.

Bhojani N, Paranjpe R, Cutone B, Rojanasart S, Chew BH. Predictors and Health Care Utilization of Sepsis Post-Ureteroscopy in a U.S.-Based Population: Results from the Endourological Society TOWER Collaborative. *J Endourol.* 2022 Nov;36(11):1411-1417. doi: 10.1089/end.2022.0010. Epub 2022 Oct 5. PMID: 35822561.

Trujillo AJ, Gutierrez JC, Garcia Morales EE, Socal M, Ballreich J, Anderson G. Trajectories of prices in generic drug markets: what can we infer from looking at trajectories rather than average prices? *Health Econ Rev.* 2022 Jul 11;12(1):37. doi: 10.1186/s13561-022-00384-w. PMID: 35819735; PMCID: PMC9278003.

Streed CG Jr, Morgan JR, Gai MJ, Larochelle MR, Paasche-Orlow MK, Taylor JL. Prevalence of HIV Preexposure Prophylaxis Prescribing Among Persons With Commercial Insurance and Likely Injection Drug Use. *JAMA Netw Open.* 2022 Jul 1;5(7):e2221346. doi: 10.1001/jamanetworkopen.2022.21346. PMID: 35819784; PMCID: PMC9277489.

Patel CG, Williams SP, Tao G. Access to Healthcare and the Utilization of Sexually Transmitted Infections Among Homeless Medicaid Patients 15 to 44 Years of Age. *J Community Health*. 2022 Oct;47(5):853-861. doi: 10.1007/s10900-022-01119-y. Epub 2022 Jul 10. PMID: 35819549; PMCID: PMC10167755.

Rogers KA, Lu X, Emond B, Côté-Sergent A, Kinkead F, Lafeuille MH, Lefebvre P, Huang Q. Clinical and economic burden of tumor lysis syndrome among patients with chronic lymphocytic leukemia/small lymphocytic lymphoma: A real-world US retrospective study. *J Manag Care Spec Pharm*. 2022 Sep;28(9):1033-1045. doi: 10.18553/jmcp.2022.22075. Epub 2022 Jul 11. PMID: 35816124.

Jin MC, Jensen M, Zhou Z, Rodrigues A, Ren A, Barros Guinle MI, Veeravagu A, Zygorakis CC, Desai AM, Ratliff JK. Health Care Resource Utilization in Management of Opioid-Naive Patients With Newly Diagnosed Neck Pain. *JAMA Netw Open*. 2022 Jul 1;5(7):e2222062. doi: 10.1001/jamanetworkopen.2022.22062. PMID: 35816312; PMCID: PMC9280399.

Grada A, Perche P, Feldman S. Adherence and Persistence to Acne Medications: A Population-Based Claims Database Analysis. *J Drugs Dermatol*. 2022 Jul 1;21(7):758-764. doi: 10.36849/JDD.6832. PMID: 35816068.

Shaheen M, Koltsov JCB, Cohen SA, Langner JL, Kaur J, Segovia NA, Vorhies JS. Complication risks and costs associated

with Ponte osteotomies in surgical treatment of adolescent idiopathic scoliosis: insights from a national database. *Spine Deform*. 2022 Nov;10(6):1339-1348. doi: 10.1007/s43390-022-00534-4. Epub 2022 Jul 10. PMID: 35810408.

Rodrigues AJ, Varshneya K, Schonfeld E, Malhotra S, Stienen MN, Veeravagu A. Chronic Opioid Use Prior to ACDF Surgery Is Associated with Inferior Postoperative Outcomes: A Propensity-Matched Study of 17,443 Chronic Opioid Users. *World Neurosurg*. 2022 Oct;166:e294-e305. doi: 10.1016/j.wneu.2022.07.002. Epub 2022 Jul 7. PMID: 35809840.

Song C, Kunovszki P, Beaudet A. Comparison of Healthcare Encounters and Drug Persistence in Patients With Pulmonary Arterial Hypertension Receiving Oral Selexipag, Inhaled Iloprost, or Parenteral Treprostinil: A Retrospective Database Analysis. *J Health Econ Outcomes Res*. 2022 Jun 8;9(1):151-160. doi: 10.36469/001c.35246. PMID: 35800882; PMCID: PMC9178228.

Ostropolets A, Shoener Dunham L, Johnson KD, Liu J. Pneumococcal vaccination coverage among adults newly diagnosed with underlying medical conditions and regional variation in the U.S. *Vaccine*. 2022 Aug 5;40(33):4856-4863. doi: 10.1016/j.vaccine.2022.06.068. Epub 2022 Jul 6. PMID: 35803847.

Downing J, Holt SK, Cunetta M, Gore JL, Dy GW. Spending and Out-of-Pocket Costs for Genital Gender-Affirming Surgery in the

US. JAMA Surg. 2022 Sep 1;157(9):799-806. doi: 10.1001/jamasurg.2022.2606. PMID: 35793109; PMCID: PMC9260638.

Wickwire EM, Amari DT, Juday TR, Frech FH, Gor D, Malhotra M. Cardiac events and economic burden among patients with hypertension and treated insomnia in the USA. Future Cardiol. 2022 Sep;18(9):731-741. doi: 10.2217/fca-2022-0009. Epub 2022 Jul 5. PMID: 35787013.

Li H, Mawanda F, Mitchell L, Zhang X, Goodloe R, Vincent M, Motsko S. Potential Channeling Bias in the Evaluation of Cardiovascular Risk: The Importance of Comparator Selection in Observational Research. Pharmaceut Med. 2022 Aug;36(4):247-259. doi: 10.1007/s40290-022-00433-z. Epub 2022 Jul 4. PMID: 35788962; PMCID: PMC9334378.

Akter T, Annamalai B, Obert E, Simpson KN, Rohrer B. Dabigatran and Wet AMD, Results From Retinal Pigment Epithelial Cell Monolayers, the Mouse Model of Choroidal Neovascularization, and Patients From the Medicare Data Base. Front Immunol. 2022 Jun 17;13:896274. doi: 10.3389/fimmu.2022.896274. PMID: 35784301; PMCID: PMC9248746.

Marrache M, Prasad N, Margalit A, Nayar SK, Best MJ, Fritz JM, Skolasky RL. Initial presentation for acute low back pain: is early physical therapy associated with healthcare utilization and spending? A retrospective review of a National Database. BMC Health Serv Res. 2022 Jul

2;22(1):851. doi: 10.1186/s12913-022-08255-0. PMID: 35778738; PMCID: PMC9250203.

Huo X, Finkelstein J. Effect of Hydroxychloroquine on Influenza Prevention. Stud Health Technol Inform. 2022 Jun 29;295:343-344. doi: 10.3233/SHTI220733. PMID: 35773879.

Jain R, Higa S, Keyloun K, Park J, Bonafede M, Tung A, Gillard P, Cutler AJ. Treatment Patterns During Major Depressive Episodes Among Patients with Major Depressive Disorder: A Retrospective Database Analysis. Drugs Real World Outcomes. 2022 Sep;9(3):477-486. doi: 10.1007/s40801-022-00316-4. Epub 2022 Jun 30. PMID: 35771409; PMCID: PMC9392824.

Patel DP, Horns JJ, Pastuszak AW, Hsieh TC, Yafi FA, Hotaling JM. Hypogonadism Associated With Higher Rate of Penile Prosthesis Infection: An Analysis of United States Claims Data. Urology. 2022 Sep;167:132-137. doi: 10.1016/j.urology.2022.06.010. Epub 2022 Jun 26. PMID: 35768026.

Chao GF, Yang J, Peahl A, Thumma JR, Dimick JB, Arterburn DE, Telem DA. Births After Bariatric Surgery in the United States: Incidence, Obstetric Outcomes, and Reinterventions. Ann Surg. 2023 Apr 1;277(4):e801-e807. doi: 10.1097/SLA.0000000000005438. Epub 2022 Jun 28. PMID: 35762610; PMCID: PMC9794635.

Yuen KCJ, Birkegard AC, Blevins LS, Clemmons DR, Hoffman AR, Kelepouris N, Kerr JM, Tarp JM, Fleseriu M. Development of a Novel Algorithm to Identify People with High Likelihood of Adult Growth Hormone Deficiency in a US Healthcare Claims Database. *Int J Endocrinol*. 2022 Jun 18;2022:7853786. doi: 10.1155/2022/7853786. PMID: 35761982; PMCID: PMC9233577.

Varnado OJ, Hoyt M, Ye W, Nicholson R. Patient characteristics and treatment utilization among patients with migraine initiating self-injectable calcitonin gene-related peptide monoclonal antibody and novel acute medication. *Curr Med Res Opin*. 2022 Aug;38(8):1451-1457. doi: 10.1080/03007995.2022.2091333. Epub 2022 Jul 11. PMID: 35762152.

Marshall GS, Petigara T, Liu Z, Wolfson L, Johnson D, Goveia MG, Chen YT. Timing of Monovalent Vaccine Administration in Infants Receiving DTaP-based Combination Vaccines in the United States. *Pediatr Infect Dis J*. 2022 Sep 1;41(9):775-781. doi: 10.1097/INF.0000000000003609. Epub 2022 Jun 24. PMID: 35763699; PMCID: PMC9359762.

Ehrlich PF, Pulcini CD, De Souza HG, Hall M, Andrews A, Zima BT, Fein JA, Chaudhary S, Hoffmann JA, Fleegler EW, Jeffries KN, Goyal MK, Hargarten SW, Alpern ER. Mental Health Care Following Firearm and Motor Vehicle-related Injuries: Differences Impacting Our Treatment Strategies. *Ann*

Surg. 2022 Sep 1;276(3):463-471. doi: 10.1097/SLA.0000000000005557. Epub 2022 Jun 28. PMID: 35762587; PMCID: PMC9388584.

Bae JP, Kadziola ZA, Liu D, Chinthammit C, Boye KS, Mather KJ. An Early Assessment of the Real-World Treatment Patterns of Type 2 Diabetes: A Comparison to the 2018 ADA/EASD Consensus Report Recommendations. *Diabetes Ther*. 2022 Aug;13(8):1499-1510. doi: 10.1007/s13300-022-01289-x. Epub 2022 Jun 29. PMID: 35764911; PMCID: PMC9309104.

Xu KY, Mintz CM, Presnall N, Bierut LJ, Grucza RA. Association of Bupropion, Naltrexone, and Opioid Agonist Treatment With Stimulant-Related Admissions Among People With Opioid Use Disorder: A Case-Crossover Analysis. *J Clin Psychiatry*. 2022 Jun 20;83(4):21m14112. doi: 10.4088/JCP.21m14112. PMID: 35759785; PMCID: PMC9939241.

Kiani S, Poeran J, Zhong H, Wilson LA, Poultsides L, Liu J, Memtsoudis SG. Tramadol prescribed at discharge is associated with lower odds of chronic opioid use after elective total joint arthroplasty. *Reg Anesth Pain Med*. 2022 Jun 27;rapm-2022-103486. doi: 10.1136/rapm-2022-103486. Epub ahead of print. PMID: 35760515.

Beau-Lejdstrom R, Hong LS, Garcia de Albeniz X, Floricel F, Lorenzen J, Bonfitto F, Kalilani L, Loesch C, Luscombe G, Perez-Gutthann S, Mottet I, Foskett N. Incidence of Acute Renal Failure in Patients Using

Levetiracetam Versus Other Antiseizure Medications: A Voluntary Post-Authorization Safety Study. *Drug Saf.* 2022 Jul;45(7):781-790. doi: 10.1007/s40264-022-01193-0. Epub 2022 Jun 28. PMID: 35761158.

Park JY, Veenstra DL, Wallick CJ, Marcum ZA. Prescribing Alzheimer's Disease treatments by provider type and geographic region: a comparison among physicians, nurse practitioners, and physician assistants. *BMC Geriatr.* 2022 Jun 25;22(1):522. doi: 10.1186/s12877-022-03176-3. PMID: 35752783; PMCID: PMC9233396.

Vouri SM, Morris EJ, Wang GH, Hashim Jaber Bilal A, Hallas J, Henriksen DP. Association between gabapentinoids and oedema treated with loop diuretics: A pooled sequence symmetry analysis from the USA and Denmark. *Br J Clin Pharmacol.* 2022 Dec;88(12):5269-5294. doi: 10.1111/bcp.15447. Epub 2022 Jul 13. PMID: 35748326.

Wang CY, Park H, Heldermon CD, Vouri SM, Brown JD. Patient out-of-pocket and payer costs for pegfilgrastim originator vs biosimilars as primary prophylaxis of febrile neutropenia in the first cycle among a commercially insured population. *J Manag Care Spec Pharm.* 2022 Jul;28(7):795-802. doi: 10.18553/jmcp.2022.28.7.795. PMID: 35737859; PMCID: PMC10372998.

Tan L, Reibman J, Ambrose C, Chung Y, Desai P, Llanos JP, Moynihan M, Tkacz J. Clinical and economic burden of

uncontrolled severe noneosinophilic asthma. *Am J Manag Care.* 2022 Jun 1;28(6):e212-e220. doi: 10.37765/ajmc.2022.89159. PMID: 35738228.

Husni ME, Chang E, Broder MS, Paydar C, Bogner K, Desai P, Klyachkin Y, Khilfeh I. Biologic Initiation Rate in Systemic-Naïve Psoriatic Arthritis Patients Starting Treatment with Apremilast vs Methotrexate: 1-Year Retrospective Analysis of a US Claims Database. *Open Access Rheumatol.* 2022 Jun 15;14:123-132. doi: 10.2147/OARRR.S342123. PMID: 35734243; PMCID: PMC9207121.

Ge W, Chen CI, Wu N, Fury MG, Ruiz E, Jalbert JJ. Hedgehog pathway inhibitor real-world treatment patterns in patients with basal cell carcinoma: a claims-based analysis. *Future Oncol.* 2022 Jul;18(23):2561-2572. doi: 10.2217/fon-2022-0373. Epub 2022 Jun 23. PMID: 35735026.

Chang JC, Costenbader KH. Hydroxychloroquine and immunosuppressant adherence patterns and their association with subsequent hospitalization rates among children with systemic lupus erythematosus. *Semin Arthritis Rheum.* 2022 Oct;56:152042. doi: 10.1016/j.semarthrit.2022.152042. Epub 2022 Jun 8. PMID: 35738041; PMCID: PMC9724699.

Bakri SJ, Karcher H, Andersen S, Souied EH. Anti-Vascular Endothelial Growth Factor Treatment Discontinuation and

Interval in Neovascular Age-Related Macular Degeneration in the United States. *Am J Ophthalmol*. 2022 Oct;242:189-196. doi: 10.1016/j.ajo.2022.06.005. Epub 2022 Jun 21. PMID: 35738393.

Tranby EP, Heaton LJ, Tomar SL, Kelly AL, Fager GL, Backley M, Frantsve-Hawley J. Oral Cancer Prevalence, Mortality, and Costs in Medicaid and Commercial Insurance Claims Data. *Cancer Epidemiol Biomarkers Prev*. 2022 Sep 2;31(9):1849-1857. doi: 10.1158/1055-9965.EPI-22-0114. PMID: 35732291; PMCID: PMC9437560.

Pan LC, Datar M, McKinney JL, Keyser LE, Goss TF, Pulliam SJ. Adherence to professional society guidelines among women with stress or mixed urinary incontinence. *Neurourol Urodyn*. 2022 Aug;41(6):1489-1497. doi: 10.1002/nau.24986. Epub 2022 Jun 22. PMID: 35731185; PMCID: PMC9542296.

Hussan H, Akinyeye S, Mihaylova M, McLaughlin E, Chiang C, Clinton SK, Lieberman D. Colorectal Cancer Risk Is Impacted by Sex and Type of Surgery After Bariatric Surgery. *Obes Surg*. 2022 Sep;32(9):2880-2890. doi: 10.1007/s11695-022-06155-0. Epub 2022 Jun 22. PMID: 35731459.

Smolinski NE, Antonelli PJ, Winterstein AG. Watchful Waiting for Acute Otitis Media. *Pediatrics*. 2022 Jul 1;150(1):e2021055613. doi: 10.1542/peds.2021-055613. PMID: 35726560.

Li X, Ostropolets A, Makadia R, Shoaibi A, Rao G, Sena AG, Martinez-Hernandez E, Delmestri A, Verhamme K, Rijnbeek PR, Duarte-Salles T, Suchard MA, Ryan PB, Hripcsak G, Prieto-Alhambra D.

Characterising the background incidence rates of adverse events of special interest for covid-19 vaccines in eight countries: multinational network cohort study. *BMJ*. 2021 Jun 14;373:n1435. doi: 10.1136/bmj.n1435. PMID: 35727911; PMCID: PMC8193077.

Tabah A, Brady BL, Huggar D, Jariwala-Parikh K, Huey K, Copher R, LeBlanc TW. The impact of remission duration on the long-term economic burden of acute myeloid leukemia among patients without hematopoietic stem cell transplant in the United States. *J Med Econ*. 2022 Jan-Dec;25(1):903-911. doi: 10.1080/13696998.2022.2091879. PMID: 35723576.

Sherman BW, Sils B, Kamin L, Westrich K. Specialty drug and health care utilization vary by wage level in employer-sponsored health plans. *J Manag Care Spec Pharm*. 2022 Aug;28(8):918-928. doi: 10.18553/jmcp.2022.22091. Epub 2022 Jun 18. PMID: 35722830.

DeMartino JK, Swallow E, Goldschmidt D, Yang K, Viola M, Radtke T, Kirson N. Direct health care costs associated with COVID-19 in the United States. *J Manag Care Spec Pharm*. 2022 Sep;28(9):936-947. doi: 10.18553/jmcp.2022.22050. Epub 2022 Jun 18. PMID: 35722829.

Pimentel RC, Rahai N, Maccioni S, Khanna R. Differences in outcomes among patients with atrial fibrillation undergoing catheter ablation with versus without intracardiac echocardiography. *J Cardiovasc Electrophysiol*. 2022 Sep;33(9):2015-2047. doi: 10.1111/jce.15599. Epub 2022 Jul 23. PMID: 35711034; PMCID: PMC9544828.

Pollack M, Gandhi H, Tkacz J, Lanz M, Lugogo N, Gilbert I. The use of short-acting bronchodilators and cost burden of asthma across Global Initiative for Asthma-based severity levels: Insights from a large US commercial and managed Medicaid population. *J Manag Care Spec Pharm*. 2022 Aug;28(8):881-891. doi: 10.18553/jmcp.2022.21498. Epub 2022 Jun 16. PMID: 35708342.

Datar M, Pan LC, McKinney JL, Goss TF, Pulliam SJ. Healthcare resource use and cost burden of urinary incontinence to United States payers. *Neurourol Urodyn*. 2022 Sep;41(7):1553-1562. doi: 10.1002/nau.24989. Epub 2022 Jun 16. PMID: 35708134; PMCID: PMC9542745.

Kikuchi JY, Yanek LR, Handa VL, Chen CCG, Jacobs S, Blomquist J, Patterson D. Prolapse and mesh reoperations following sacrocolpopexy: comparing supracervical hysterectomy, total hysterectomy, and no hysterectomy. *Int Urogynecol J*. 2023 Jan;34(1):135-145. doi: 10.1007/s00192-022-05263-w. Epub 2022 Jun 11. PMID: 35689689.

Woolley M, Cook EE, Mu F, Betts KA, Billmyer E, Yim E, Chen J, Wu EQ. The Economic Burden of Eosinophilic Gastritis and Eosinophilic Enteritis in the United States. *Adv Ther*. 2022 Aug;39(8):3547-3559. doi: 10.1007/s12325-022-02202-5. Epub 2022 Jun 10. PMID: 35689161; PMCID: PMC9309124.

Lan G, Wu B, Sharma K, Gadhia K, Ashton V. Improved Prediction of Body Mass Index in Real-World Administrative Healthcare Claims Databases. *Adv Ther*. 2022 Aug;39(8):3835-3844. doi: 10.1007/s12325-022-02192-4. Epub 2022 Jun 10. PMID: 35680715.

Hebert KJ, Matta R, Horns JJ, Paudel N, Das R, Kohler TS, Pastuszak AW, McCormick BJ, Hotelling JM, Myers JB. Risk of Postoperative Thromboembolism in Men Undergoing Urological Prosthetic Surgery: An Assessment of 21,413 Men. *J Urol*. 2022 Oct;208(4):878-885. doi: 10.1097/JU.0000000000002801. Epub 2022 Jun 10. PMID: 35686836.

Pero A, Pace A, Dhamoon MS. Triptan medication use among patients with migraine with contraindications in the US. *Headache*. 2022 Jul;62(7):883-889. doi: 10.1111/head.14327. Epub 2022 Jun 7. PMID: 35670141.

Jazowski SA, Wilson L, Dusetzina SB, Zafar SY, Zullig LL. Association of High-Deductible Health Plan Enrollment With Spending on and Use of Lenalidomide Therapy Among Commercially Insured Patients With Multiple Myeloma. *JAMA*

Netw Open. 2022 Jun 1;5(6):e2215720. doi: 10.1001/jamanetworkopen.2022.15720. PMID: 35671056; PMCID: PMC9175078.

Fox RJ, Mehta R, Pham T, Park J, Wilson K, Bonafede M. Real-world disease-modifying therapy pathways from administrative claims data in patients with multiple sclerosis. *BMC Neurol*. 2022 Jun 7;22(1):211. doi: 10.1186/s12883-022-02738-7. PMID: 35672686; PMCID: PMC9172015.

Kyler KE, Hall M, Bettenhausen JL, Clark NA, Hampl S, Davis AM. Medicaid Expenditures among Children with Documented Obesity. *Child Obes*. 2023 Apr;19(3):160-168. doi: 10.1089/chi.2021.0249. Epub 2022 Jun 6. PMID: 35666560.

Leung J, Anderson TC, Dooling K, Xie F, Curtis JR. Recombinant Zoster Vaccine Uptake and Risk of Flares Among Older Adults With Immune-Mediated Inflammatory Diseases in the US. *Arthritis Rheumatol*. 2022 Nov;74(11):1833-1841. doi: 10.1002/art.42261. Epub 2022 Sep 15. PMID: 35666070.

Cohen SB, Haraoui B, Curtis JR, Smith TW, Woolcott J, Gruben D, Murray CW. Impact of Methotrexate Discontinuation, Interruption, or Persistence in US Patients with Rheumatoid Arthritis Initiating Tofacitinib + Oral Methotrexate Combination. *Clin Ther*. 2022 Jul;44(7):982-997.e2. doi: 10.1016/j.clinthera.2022.05.002. Epub 2022 Jun 4. PMID: 35667900.

Butler O, Ju S, Hoernig S, Vogtländer K, Bansilal S, Heresi GA. Assessment for residual disease after pulmonary endarterectomy in patients with chronic thromboembolic pulmonary hypertension. *ERJ Open Res*. 2022 May 30;8(2):00572-2021. doi: 10.1183/23120541.00572-2021. PMID: 35651369; PMCID: PMC9149390.

Spencer C, Runge W, Hurt J, Dawes A, Toston R, Wagner ER, Gottschalk MB. Predictive Factors Associated with the Need for Simultaneous Carpal Tunnel and Ulnar Nerve at the Elbow Releases. *Bull Hosp Jt Dis (2013)*. 2022 Jun;80(2):200-208. PMID: 35643485.

Khosrow-Khavar F, Desai RJ, Lee H, Lee SB, Kim SC. Tofacitinib and Risk of Malignancy: Results From the Safety of Tofacitinib in Routine Care Patients With Rheumatoid Arthritis (STAR-RA) Study. *Arthritis Rheumatol*. 2022 Oct;74(10):1648-1659. doi: 10.1002/art.42250. Epub 2022 Sep 1. PMID: 35643956; PMCID: PMC9529806.

Block AM, Eisenberg MT, Inclan PM, Nepple JJ. Treatment Trends in Meniscal Pathology in the Setting of Concomitant ACL Injuries in Pediatric and Young Adult Patients: An Insurance Database Study. *Am J Sports Med*. 2022 Jul;50(9):2367-2373. doi: 10.1177/03635465221098141. Epub 2022 Jun 1. PMID: 35647786.

Jones CA, Broggi MS, Holmes JS, Gerlach EB, Goedderz CJ, Ibmamasud SH, Hernandez-Irizarry R, Schenker ML. High Altitude as a Risk Factor for Venous

Thromboembolism in Tibial Plateau Fractures. *Cureus*. 2022 Apr 22;14(4):e24388. doi: 10.7759/cureus.24388. PMID: 35637832; PMCID: PMC9132220.

Miller AC, Arakkal AT, Koeneman SH, Cavanaugh JE, Thompson GR, Baddley JW, Polgreen PM. Frequency and Duration of, and Risk Factors for, Diagnostic Delays Associated with Histoplasmosis. *J Fungi (Basel)*. 2022 Apr 23;8(5):438. doi: 10.3390/jof8050438. PMID: 35628693; PMCID: PMC9143509.

Doherty MT, Aris E, Servotte N, Beck E. Capturing the value of vaccination: impact of vaccine-preventable disease on hospitalization. *Aging Clin Exp Res*. 2022 Jul;34(7):1551-1561. doi: 10.1007/s40520-022-02110-2. Epub 2022 May 28. PMID: 35633477; PMCID: PMC9142834.

Schepman PB, Thakkar S, Robinson RL, Beck CG, Malhotra D, Emir B, Hansen RN. A Retrospective Claims-Based Study Evaluating Clinical and Economic Burden Among Patients With Moderate to Severe Osteoarthritis Pain in the United States. *J Health Econ Outcomes Res*. 2022 Mar 1;9(1):58-67. doi: 10.36469/jheor.2022.31895. PMID: 35620454; PMCID: PMC8888122.

Ogbomo A, Tsang Y, Mallampati R, Panjabi S. The direct and indirect health care costs associated with pulmonary arterial hypertension among commercially insured patients in the United States. *J Manag Care Spec Pharm*. 2022 Jun;28(6):608-616. doi:

10.18553/jmcp.2022.28.6.608. PMID: 35621726; PMCID: PMC10372985.

Knisely A, Huang Y, Li Y, Prabhu VS, Wright JD. Adjuvant and first line chemotherapy use for endometrial cancer. *Gynecol Oncol Rep*. 2022 May 14;41:101002. doi: 10.1016/j.gore.2022.101002. Erratum in: *Gynecol Oncol Rep*. 2022 Dec 05;46:101112. PMID: 35620299; PMCID: PMC9126968.

Chang JC, Weiss PF, Xiao R, Atkinson MA, Wenderfer SE. Use of renin angiotensin aldosterone system inhibitors in children with lupus and time to glucocorticoid discontinuation. *Kidney Int*. 2022 Aug;102(2):395-404. doi: 10.1016/j.kint.2022.04.023. Epub 2022 May 23. PMID: 35618096; PMCID: PMC9329244.

Butler AM, Brown DS, Durkin MJ, Sahrmann JM, Nickel KB, O'Neil CA, Olsen MA, Hyun DY, Zetts RM, Newland JG. Association of Inappropriate Outpatient Pediatric Antibiotic Prescriptions With Adverse Drug Events and Health Care Expenditures. *JAMA Netw Open*. 2022 May 2;5(5):e2214153. doi: 10.1001/jamanetworkopen.2022.14153. Erratum in: *JAMA Netw Open*. 2022 Jun 1;5(6):e2221479. PMID: 35616940; PMCID: PMC9136626.

Blauvelt A, Shi N, Murage MJ, Kern SA, Somani N, Burge R, Ridenour TL, Lew CR, Zimmerman NM, Zhu B. Healthcare resource utilization and costs among patients with psoriasis treated with ixekizumab or adalimumab over 2 years of

follow-up in real-world settings. *J Med Econ.* 2022 Jan-Dec;25(1):741-749. doi: 10.1080/13696998.2022.2081417. PMID: 35615978.

Cerullo M, Lee HJ, Kelsey C, Farrow NE, Scales CD, Tong BC. Surgical Evaluation in Patients Undergoing Radiation Therapy for Early-Stage Lung Cancer. *Ann Thorac Surg.* 2023 Feb;115(2):338-345. doi: 10.1016/j.athoracsur.2022.04.055. Epub 2022 May 21. PMID: 35609647.

Exuzides A, To TM, Abbass IM, Ta JT, Patel AM, Surinach A, Fuller RLM, Luo J. Healthcare resource utilization and costs in individuals with Huntington's disease by disease stage in a US population. *J Med Econ.* 2022 Jan-Dec;25(1):722-729. doi: 10.1080/13696998.2022.2076997. PMID: 35608039.

Stagg BC, Stein JD, Medeiros FA, Horns J, Hartnett ME, Kawamoto K, Hess R. The Frequency of Visual Field Testing in a US Nationwide Cohort of Individuals with Open-Angle Glaucoma. *Ophthalmol Glaucoma.* 2022 Nov-Dec;5(6):587-593. doi: 10.1016/j.ogla.2022.05.002. Epub 2022 May 20. PMID: 35605937; PMCID: PMC9675879.

Costales B, Vouri SM, Brown JD, Setlow B, Goodin AJ. Treatment initiation and utilization patterns of pharmacotherapies for early-onset idiopathic restless legs syndrome. *Sleep Med.* 2022 Aug;96:70-78. doi: 10.1016/j.sleep.2022.05.003. Epub 2022 May 13. PMID: 35605349; PMCID: PMC9385069.

Beauchemin MP, Raghunathan RR, Accordino MK, Cogan JC, Kahn JM, Wright JD, Hershman DL. New persistent opioid use among adolescents and young adults with sarcoma. *Cancer.* 2022 Jul 15;128(14):2777-2785. doi: 10.1002/cncr.34238. Epub 2022 May 23. PMID: 35599575; PMCID: PMC10664461.

Zhdanava M, Voelker J, Pilon D, Joshi K, Morrison L, Sheehan JJ, Vermette-Laforme M, Lefebvre P, Citrome L. Excess healthcare resource utilization and healthcare costs among privately and publicly insured patients with major depressive disorder and acute suicidal ideation or behavior in the United States. *J Affect Disord.* 2022 Aug 15;311:303-310. doi: 10.1016/j.jad.2022.05.086. Epub 2022 May 18. PMID: 35597466.

England BR, Yang Y, Roul P, Haas C, Najjar L, Sayles H, Yu F, Sauer BC, Baker JF, Xie F, Michaud K, Curtis JR, Mikuls TR. Identification of Multimorbidity Patterns in Rheumatoid Arthritis Through Machine Learning. *Arthritis Care Res (Hoboken).* 2023 Feb;75(2):220-230. doi: 10.1002/acr.24956. Epub 2022 Oct 19. PMID: 35588095; PMCID: PMC10009900.

Pardo G, Pineda ED, Ng CD, Sheinson D, Bonine NG. The Association Between Persistence and Adherence to Disease-Modifying Therapies and Healthcare Resource Utilization and Costs in Patients With Multiple Sclerosis. *J Health Econ Outcomes Res.* 2022 Apr 26;9(1):111-116.

doi: 10.36469/jheor.2022.33288. PMID: 35586512; PMCID: PMC9043544.

Allaw AB, Mittal S, Merchant FM, Besser SA, Beaser AD, Aziz Z, Ozcan C, Nayak HM, Tung R, Upadhyay GA. Population-Level Impact of the Guidelines Update on Patient Selection and Outcomes After Cardiac Resynchronization Therapy. *JACC Clin Electrophysiol.* 2022 May;8(5):651-661. doi: 10.1016/j.jacep.2022.01.026. Epub 2022 Mar 30. PMID: 35589178.

Lekoubou A, Ba DM, Nguyen C, Liu G, Leslie DL, Bonilha L, Vernon CM. Poststroke Seizures and the Risk of Dementia Among Young Stroke Survivors. *Neurology.* 2022 May 18;99(4):e385-92. doi: 10.1212/WNL.000000000000200736. Epub ahead of print. PMID: 35584925; PMCID: PMC9421769.

Jagannath S, Joseph N, He J, Crivera C, Fu AZ, Garrett A, Shah N. Healthcare Costs of Multiple Myeloma Patients with Four or More Prior Lines of Therapy, Including Triple-Class Exposure in the United States. *Oncol Ther.* 2022 Dec;10(2):411-420. doi: 10.1007/s40487-022-00198-0. Epub 2022 May 17. PMID: 35579821; PMCID: PMC9681939.

Johnson KM, Jiao B, Ramsey SD, Bender MA, Devine B, Basu A. Lifetime medical costs attributable to sickle cell disease among nonelderly individuals with commercial insurance. *Blood Adv.* 2023 Feb 14;7(3):365-374. doi: 10.1182/bloodadvances.2021006281. PMID: 35575558; PMCID: PMC9898623.

Tabatabaeepour N, Morgan JR, Jalali A, Kapadia SN, Meinhofer A. Impact of prenatal substance use policies on commercially insured pregnant females with opioid use disorder. *J Subst Abuse Treat.* 2022 Sep;140:108800. doi: 10.1016/j.jsat.2022.108800. Epub 2022 May 10. PMID: 35577664; PMCID: PMC9357143.

Suzuki Y, Huang Y, Melamed A, Clair CMS, Hou JY, Khoury-Collado F, Gockley A, Accordino M, Hershman DL, Wright JD. Use of Estrogen Therapy After Surgical Menopause in Women Who Are Premenopausal. *Obstet Gynecol.* 2022 May 1;139(5):756-763. doi: 10.1097/AOG.00000000000004762. Epub 2022 Apr 5. PMID: 35576334.

Leonardi C, Zhu B, Malatestinic WN, Eastman WJ, Guo J, Murage MJ, Choong CK, Burge R, Blauvelt A. Real-World Biologic Adherence, Persistence, and Monotherapy Comparisons in US Patients with Psoriasis: Results from IBM MarketScan® Databases. *Adv Ther.* 2022 Jul;39(7):3214-3224. doi: 10.1007/s12325-022-02155-9. Epub 2022 May 16. PMID: 35570242; PMCID: PMC9239953.

Suh K, Shankaran V, Bansal A. Assessing surveillance utilization and value in commercially insured patients with colorectal cancer. *Am J Manag Care.* 2022 May 1;28(5):e163-e169. doi: 10.37765/ajmc.2022.89147. PMID: 35546589; PMCID: PMC9316744.

Mintz CM, Xu KY, Presnall NJ, Hartz SM, Levin FR, Scherrer JF, Bierut LJ, Grucza RA.

Analysis of Stimulant Prescriptions and Drug-Related Poisoning Risk Among Persons Receiving Buprenorphine Treatment for Opioid Use Disorder. *JAMA Netw Open*. 2022 May 2;5(5):e2211634. doi: 10.1001/jamanetworkopen.2022.11634. PMID: 35544135; PMCID: PMC9096599.

Xu KY, Mintz CM, Presnall N, Bierut LJ, Grucza RA. Comparative Effectiveness Associated With Buprenorphine and Naltrexone in Opioid Use Disorder and Cooccurring Polysubstance Use. *JAMA Netw Open*. 2022 May 2;5(5):e2211363. doi: 10.1001/jamanetworkopen.2022.11363. PMID: 35536575; PMCID: PMC9092203.

Nin DZ, Chen YW, Talmo CT, Hollenbeck BL, Mattingly DA, Niu R, Chang DC, Smith EL. Drivers of Unequal Healthcare Costs in the Nonoperative Treatment of Late-Stage Knee Osteoarthritis Prior to Primary Total Knee Arthroplasty. *J Arthroplasty*. 2022 Oct;37(10):1967-1972.e1. doi: 10.1016/j.arth.2022.04.040. Epub 2022 May 4. PMID: 35525419.

Ferrucci KA, Lapane KL, Jesdale BM. Prevalence of diagnosed eating disorders in US transgender adults and youth in insurance claims. *Int J Eat Disord*. 2022 Jun;55(6):801-809. doi: 10.1002/eat.23729. Epub 2022 May 7. PMID: 35524487; PMCID: PMC9167760.

O'Halloran JA, Sahrman J, Parra-Rodriguez L, Vo DT, Butler AM, Olsen MA, Powderly WG. Integrase Strand Transfer Inhibitors Are Associated With Incident Diabetes Mellitus in People With Human

Immunodeficiency Virus. *Clin Infect Dis*. 2022 Dec 19;75(12):2060-2065. doi: 10.1093/cid/ciac355. PMID: 35521785; PMCID: PMC10200297.

Moningi S, Lei X, Fang P, Taniguchi CM, Holliday EB, Koay EJ, Koong AC, Ludmir EB, Minsky BD, Das P, Giordano SH, Smith GL. Contemporary use and outcomes of radiation and chemotherapy for unresectable pancreatic cancer. *Clin Transl Radiat Oncol*. 2022 Apr 19;35:9-16. doi: 10.1016/j.ctro.2022.04.007. PMID: 35510142; PMCID: PMC9058953.

Antonio-Aguirre B, Swenor B, Canner JK, Singh MS. Risk of Cystoid Macular Edema after Cataract Surgery in Retinitis Pigmentosa: An Analysis of United States Claims from 2010 to 2018. *Ophthalmol Retina*. 2022 Oct;6(10):906-913. doi: 10.1016/j.oret.2022.04.018. Epub 2022 May 2. PMID: 35513237.

Smith KM, Hotelling JM, Presson AP, Zhang C, Horns JJ, Cannon-Albright LA, Teerlink CC, Tashjian RZ, Chalmers PN. The Effect of Sex Hormone Deficiency on the Incidence of Rotator Cuff Repair: Analysis of a Large Insurance Database. *J Bone Joint Surg Am*. 2022 May 4;104(9):774-779. doi: 10.2106/JBJS.21.00103. Epub 2022 Apr 12. PMID: 35506951.

Lichtenstein GR, Shahabi A, Seabury SA, Lakdawalla DN, Espinosa OD, Green S, Brauer M, Baldassano RN. Increased Lifetime Risk of Intestinal Complications and Extraintestinal Manifestations in Crohn's Disease and Ulcerative Colitis.

Gastroenterol Hepatol (N Y). 2022 Jan;18(1):32-43. PMID: 35505770; PMCID: PMC9053498.

Donneyong MM, Zhu Y, Zhang P, Li Y, Hunold KM, Chiang C, Unroe K, Caterino JM, Li L. A comprehensive assessment of statin discontinuation among patients who concurrently initiate statins and CYP3A4-inhibitor drugs; a multistate transition model. Br J Clin Pharmacol. 2023 Jul;89(7):2076-2087. doi: 10.1111/bcp.15373. Epub 2022 May 16. PMID: 35502121.

Mesa-Frias M, Rossi C, Emond B, Bookhart B, Anderson D, Drummond S, Wang J, Lefebvre P, Lamerato LE, Lafeuille MH. Incidence and economic burden of respiratory syncytial virus among adults in the United States: A retrospective analysis using 2 insurance claims databases. J Manag Care Spec Pharm. 2022 Jul;28(7):753-765. doi: 10.18553/jmcp.2022.21459. Epub 2022 May 3. PMID: 35503888.

Evans M, Chandramouli AS, Faurby M, Matthiessen KS, Mogensen PB, Verma S. Healthcare costs and hospitalizations in US patients with type 2 diabetes and cardiovascular disease: A retrospective database study (OFFSET). Diabetes Obes Metab. 2022 Jul;24(7):1300-1309. doi: 10.1111/dom.14703. Epub 2022 May 3. PMID: 35504854; PMCID: PMC9324926.

Veluswamy R, Hirsch FR, Taioli E, Wisnivesky J, Strauss R, Harrough D, Tang B, Barnes G. Real-World longitudinal practice patterns in the use of PD-1 and

PD-L1 inhibitors as First-Line therapy in patients with Non-Small cell lung cancer in the United States. Cancer Med. 2022 Nov;11(22):4265-4272. doi: 10.1002/cam4.4785. Epub 2022 May 2. PMID: 35499294; PMCID: PMC9678105.

Varshneya K, Abrams GD, Sherman SL, Safran MR. Patient-Specific Risk Factors Exist for Hip Fractures After Arthroscopic Femoroacetabular Impingement Surgery, But Not for Dislocation-An Analysis of More Than 25,000 Hip Arthroscopies. Arthrosc Sports Med Rehabil. 2021 Dec 26;4(2):e519-e525. doi: 10.1016/j.asmr.2021.11.011. PMID: 35494300; PMCID: PMC9042775.

Mease PJ, Young P, Gruben D, Fallon L, Germino R, Kavanaugh A. Early Real-World Experience of Tofacitinib for Psoriatic Arthritis: Data from a United States Healthcare Claims Database. Adv Ther. 2022 Jun;39(6):2932-2945. doi: 10.1007/s12325-022-02084-7. Epub 2022 Apr 28. PMID: 35482248; PMCID: PMC9123050.

Hakam N, Lui J, Shaw NM, Nabavizadeh B, Smith JF, Eisenberg ML, Breyer BN. Hematospermia is rarely associated with urologic malignancy: Analysis of United States claims data. Andrology. 2022 Jul;10(5):919-925. doi: 10.1111/andr.13189. Epub 2022 May 5. PMID: 35483126.

Desai R, Park H, Brown JD, Mohandas R, Smith SM. Norepinephrine reuptake inhibitors and risk of antihypertensive treatment intensification and major

adverse cardiovascular events in patients with stable hypertension and depression. *Pharmacotherapy*. 2022 Jun;42(6):472-482. doi: 10.1002/phar.2686. Epub 2022 May 9. PMID: 35478186.

Benedict K, Lyman M, Jackson BR. Possible misdiagnosis, inappropriate empiric treatment, and opportunities for increased diagnostic testing for patients with vulvovaginal candidiasis-United States, 2018. *PLoS One*. 2022 Apr 28;17(4):e0267866. doi: 10.1371/journal.pone.0267866. PMID: 35482794; PMCID: PMC9049332.

Earla JR, Hutton GJ, Thornton JD, Chen H, Johnson ML, Aparasu RR. Factors associated with oral fingolimod use over injectable disease-modifying agent use in multiple sclerosis. *Explor Res Clin Soc Pharm*. 2021 May 5;2:100021. doi: 10.1016/j.rcsop.2021.100021. PMID: 35481133; PMCID: PMC9031432.

Sah J, Teeple A, Muser E, Gutierrez C, Dassopoulos T. Treatment persistence and maintenance dose titration among ulcerative colitis patients on biologics: a pooled study of three United States claim databases. *Curr Med Res Opin*. 2022 Jul;38(7):1093-1101. doi: 10.1080/03007995.2022.2071041. Epub 2022 May 23. PMID: 35475385.

Alam AB, Lutsey PL, Chen LY, MacLehose RF, Shao IY, Alonso A. Risk Factors for Dementia in Patients With Atrial Fibrillation. *Am J Cardiol*. 2022 Jul 1;174:48-52. doi: 10.1016/j.amjcard.2022.03.029. Epub 2022

Apr 23. PMID: 35473779; PMCID: PMC9181692.

Trinh QD, Chaves LP, Feng Q, Zhu J, Sandin R, Abbott T. The cost impact of disease progression to metastatic castration-sensitive prostate cancer. *J Manag Care Spec Pharm*. 2022 May;28(5):544-554. doi: 10.18553/jmcp.2022.28.5.544. PMID: 35471070; PMCID: PMC10373041.

Kim E, Marcum ZA, Raimundo K, Veenstra DL. Health care utilization and expenditures of parents of children with and without hemophilia A. *J Manag Care Spec Pharm*. 2022 May;28(5):529-537. doi: 10.18553/jmcp.2022.28.5.529. PMID: 35471073; PMCID: PMC10372987.

Ettleson MD, Bianco AC, Wan W, Laiteerapong N. Suboptimal Thyroid Hormone Replacement Is Associated With Worse Hospital Outcomes. *J Clin Endocrinol Metab*. 2022 Jul 14;107(8):e3411-e3419. doi: 10.1210/clinem/dgac215. PMID: 35472082; PMCID: PMC9282363.

Barocas JA, Gai MJ, Nurani A, Bagley SM, Hadland SE. Initiation of HIV pre-exposure prophylaxis among youth in the United States, 2015-2018. *AIDS Care*. 2023 Mar;35(3):431-436. doi: 10.1080/09540121.2022.2067318. Epub 2022 Apr 25. PMID: 35468009; PMCID: PMC9592681.

Walton EL, Quinn TP, Mulloy E, Patil D, Mehta A. Cost of Intralesional Collagenase Clostridium Histolyticum Therapy Versus Surgery for the Management of Peyronie's

Disease: A Claims-Based Analysis (2009-2019). *Sex Med.* 2022 Jun;10(3):100517. doi: 10.1016/j.esxm.2022.100517. Epub 2022 Apr 21. Erratum in: *Sex Med.* 2022 Oct;10(5):100551. PMID: 35461065; PMCID: PMC9177867.

Nalliah RP, Basu T, Chang CH. Association between periodontal care and hospitalization with acute myocardial infarction. *J Am Dent Assoc.* 2022 Aug;153(8):776-786.e2. doi: 10.1016/j.adaj.2022.02.003. Epub 2022 Apr 20. PMID: 35459524.

Soileau MJ, Pagan F, Fasano A, Rodriguez-Cruz R, Wang L, Kandukuri PL, Yan CH, Alobaidi A, Bao Y, Kukreja P, Oh M, Siddiqui MS. Comparative Effectiveness of Carbidopa-Levodopa Enteral Suspension and Deep Brain Stimulation on Parkinson's Disease-Related Pill Burden Reduction in Advanced Parkinson's Disease: A Retrospective Real-World Cohort Study. *Neurol Ther.* 2022 Jun;11(2):851-861. doi: 10.1007/s40120-022-00351-x. Epub 2022 Apr 20. PMID: 35441973; PMCID: PMC9095798.

Patel D, Liu G, Roberts SCM, Leslie DL, Weisman CS, Horvath S, Chuang CH. Association of Provider Specialty With Abortion-Related Morbidity and Adverse Events Among Patients Having Procedural and Medication Abortions. *Womens Health Issues.* 2022 Jul-Aug;32(4):327-333. doi: 10.1016/j.whi.2022.03.001. Epub 2022 Apr 15. PMID: 35437157.

Paro A, Hyer JM, Shaikh CF, Pawlik TM. Financial Impact of Out-of-Pocket Costs Among Patients Undergoing Resection for Colorectal Carcinoma. *Ann Surg Oncol.* 2022 Sep;29(9):5387-5397. doi: 10.1245/s10434-022-11755-2. Epub 2022 Apr 16. PMID: 35430665; PMCID: PMC9013274.

Zhao D, Nunes AP, Baek J, Lapane KL. An algorithm to identify gabapentin misuse and/or abuse in administrative claims data. *Drug Alcohol Depend.* 2022 Jun 1;235:109429. doi: 10.1016/j.drugalcdep.2022.109429. Epub 2022 Mar 26. PMID: 35427982.

Kang HR, Lo-Ciganic WH, DeRemer CE, Dietrich EA, Huang PL, Park H. Effectiveness and Safety of Extended Oral Anticoagulant Therapy in Patients with Venous Thromboembolism: A Retrospective Cohort Study. *Clin Pharmacol Ther.* 2022 Jul;112(1):133-145. doi: 10.1002/cpt.2611. Epub 2022 May 2. PMID: 35420702.

Dhaliwal DK, Chirikov V, Schmier J, Rege S, Newton S. Cost Burden of Endothelial Keratoplasty in Fuchs Endothelial Dystrophy: Real-World Analysis of a Commercially Insured US Population (2014-2019). *Clin Ophthalmol.* 2022 Apr 6;16:1055-1067. doi: 10.2147/OPHTH.S358847. PMID: 35418743; PMCID: PMC8995174.

Ganguli I, Keating NL, Thakore N, Lii J, Raza S, Pace LE. Downstream Mammary and Extramammary Cascade Services and

Spending Following Screening Breast Magnetic Resonance Imaging vs Mammography Among Commercially Insured Women. *JAMA Netw Open*. 2022 Apr 1;5(4):e227234. doi: 10.1001/jamanetworkopen.2022.7234. PMID: 35416989; PMCID: PMC9008498.

Tejwani R, Lee HJ, Hughes TL, Hobbs KT, Aksenov LI, Scales CD, Routh JC. Predicting postoperative complications in pediatric surgery: A novel pediatric comorbidity index. *J Pediatr Urol*. 2022 Jun;18(3):291-301. doi: 10.1016/j.jpuro.2022.03.007. Epub 2022 Mar 12. PMID: 35410802; PMCID: PMC9233007.

Mejia EJ, Lin KY, Okunowo O, Iacobellis KA, Matesanz SE, Brandsema JF, Wittlieb-Weber CA, Katcoff H, Griffis H, Edelson JB. Health Care Use of Cardiac Specialty Care in Children With Muscular Dystrophy in the United States. *J Am Heart Assoc*. 2022 Apr 19;11(8):e024722. doi: 10.1161/JAHA.121.024722. Epub 2022 Apr 12. PMID: 35411787; PMCID: PMC9238456.

Neuberger E, Wallick C, Chawla D, Castro RC. Baloxavir vs oseltamivir: reduced utilization and costs in influenza. *Am J Manag Care*. 2022 Mar 1;28(3):e88-e95. doi: 10.37765/ajmc.2022.88786. PMID: 35404552.

Jalbert JJ, Wu N, Chen CI, Ambati S, Ge W, Arnason JE. Real-World Treatment Patterns After CD19-Directed CAR T Cell Therapy Among Patients with Diffuse Large B Cell Lymphoma. *Adv Ther*. 2022 Jun;39(6):2630-2640. doi: 10.1007/s12325-

022-02087-4. Epub 2022 Apr 9. PMID: 35397110; PMCID: PMC9123047.

Fu AZ, Pesa JA, Lakey S, Benson C. Healthcare resource utilization and costs before and after long-acting injectable antipsychotic initiation in commercially insured young adults with schizophrenia. *BMC Psychiatry*. 2022 Apr 9;22(1):250. doi: 10.1186/s12888-022-03895-2. PMID: 35395757; PMCID: PMC8994268.

Youn GM, Shah JP, Wei EX, Kandathil C, Most SP. Revision Rates of Septoplasty in the United States. *Facial Plast Surg Aesthet Med*. 2023 Mar-Apr;25(2):153-158. doi: 10.1089/fpsam.2022.0009. Epub 2022 Apr 7. PMID: 35394347; PMCID: PMC9986010.

Vaitsiakhovich T, Coleman CI, Kleinjung F, Vardar B, Schaefer B. Worsening of kidney function in patients with atrial fibrillation and chronic kidney disease: evidence from the real-world CALLIPER study. *Curr Med Res Opin*. 2022 Jun;38(6):937-945. doi: 10.1080/03007995.2022.2061705. Epub 2022 Apr 22. PMID: 35392744.

Bhavsar A, Lonnet G, Wang C, Chatzikonstantinidou K, Parikh R, Brabant Y, Servotte N, Shi M, Widenmaier R, Aris E. Increased Risk of Herpes Zoster in Adults ≥ 50 Years Old Diagnosed With COVID-19 in the United States. *Open Forum Infect Dis*. 2022 Mar 9;9(5):ofac118. doi: 10.1093/ofid/ofac118. PMID: 35392454; PMCID: PMC8982770.

Abdelwahab M, Marques S, Howard J, Huang A, Lechner M, Olds C, Capasso R.

Incidence and risk factors of chronic opioid use after sleep apnea surgery. *J Clin Sleep Med*. 2022 Jul 1;18(7):1805-1813. doi: 10.5664/jcsm.9978. PMID: 35393936; PMCID: PMC9243273.

Blauvelt A, Shi N, Murage M, Ridenour T, Lew C, Somani N, Zhu B, Zimmerman N, Kern S, Burge R. Long-Term Treatment Patterns Among Patients With Psoriasis Treated With Ixekizumab or Adalimumab: A Real-World Study. *J Drugs Dermatol*. 2022 Apr 1;21(4):399-407. doi: 10.36849/JDD.6336. PMID: 35389589.

Sun JW, Young JG, Sarvet AL, Bailey LC, Heerman WJ, Janicke DM, Lin PD, Toh S, Block JP. Comparison of Rates of Type 2 Diabetes in Adults and Children Treated With Anticonvulsant Mood Stabilizers. *JAMA Netw Open*. 2022 Apr 1;5(4):e226484. doi: 10.1001/jamanetworkopen.2022.6484. PMID: 35385086; PMCID: PMC8987905.

Rodrigues AJ, Jokhai R, Varshneya K, Stienen MN, Veeravagu A. Factors Which Predict Adverse Outcomes in Anterior Cervical Discectomy and Fusion Procedures in the Nonelderly Adult Population. *Clin Spine Surg*. 2022 Aug 1;35(7):E584-E589. doi: 10.1097/BSD.0000000000001326. Epub 2022 Apr 7. PMID: 35385403.

Jain R, Kong AM, Gillard P, Harrington A. Treatment Patterns Among Patients with Bipolar Disorder in the United States: A Retrospective Claims Database Analysis. *Adv Ther*. 2022 Jun;39(6):2578-2595. doi: 10.1007/s12325-022-02112-6. Epub 2022

Apr 6. PMID: 35381965; PMCID: PMC9123057.

Al-Bahou J, Bhagwandass H, Valdes IL, Friedman J, Vouri SM. Changes in overactive bladder medication following bariatric surgery: segmented regression analysis. *World J Urol*. 2022 Jul;40(7):1777-1783. doi: 10.1007/s00345-022-04001-7. Epub 2022 Apr 6. PMID: 35384485.

Adil SM, Charalambous LT, Rajkumar S, Seas A, Warman PI, Murphy KR, Rahimpour S, Parente B, Dharmapurikar R, Dunn TW, Lad SP. Machine Learning to Predict Successful Opioid Dose Reduction or Stabilization After Spinal Cord Stimulation. *Neurosurgery*. 2022 Aug 1;91(2):272-279. doi: 10.1227/neu.0000000000001969. Epub 2022 Apr 8. PMID: 35384918.

Varnado OJ, Manjelievskaia J, Ye W, Perry A, Schuh K, Wenzel R. Treatment Patterns for Calcitonin Gene-Related Peptide Monoclonal Antibodies Including Galcanezumab versus Conventional Preventive Treatments for Migraine: A Retrospective US Claims Study. *Patient Prefer Adherence*. 2022 Mar 29;16:821-839. doi: 10.2147/PPA.S346660. PMID: 35378732; PMCID: PMC8976490.

Jin MC, Ho AL, Feng AY, Medress ZA, Pendharkar AV, Rezaii P, Ratliff JK, Desai AM. Prediction of Discharge Status and Readmissions after Resection of Intradural Spinal Tumors. *Neurospine*. 2022 Mar;19(1):133-145. doi: 10.14245/ns.2143244.622. Epub 2022 Mar

31. PMID: 35378587; PMCID: PMC8987552.

Song Z, Zubizarreta JR, Giuriato M, Paulos E, Koh KA. Changes in Health Care Spending, Use, and Clinical Outcomes After Nonfatal Firearm Injuries Among Survivors and Family Members : A Cohort Study. *Ann Intern Med*. 2022 Jun;175(6):795-803. doi: 10.7326/M21-2812. Epub 2022 Apr 5. PMID: 35377713.

Jain N, Sharma M, Wang D, Ugiliweneza B, Drazin D, Boakye M. The Phenotypes of Anxiety and Depression: Analysis of Combined Comorbidity and Treatment in Patients Undergoing Spinal Fusion. *Neurosurgery*. 2022 Jul 1;91(1):103-114. doi: 10.1227/neu.0000000000001935. Epub 2022 Apr 6. PMID: 35377352.

Gu J, Sanchez R, Chauhan A, Fazio S, Wong N. Lipid treatment status and goal attainment among patients with atherosclerotic cardiovascular disease in the United States: A 2019 update. *Am J Prev Cardiol*. 2022 Mar 20;10:100336. doi: 10.1016/j.ajpc.2022.100336. PMID: 35368909; PMCID: PMC8968014.

Kenzik KM, Williams GR, Hollis R, Bhatia S. Healthcare utilization trajectory among survivors of colorectal cancer. *J Cancer Surviv*. 2023 Jun;17(3):729-737. doi: 10.1007/s11764-022-01206-y. Epub 2022 Apr 2. PMID: 35366740.

Jin MC, Parker JJ, Prolo LM, Wu A, Halpern CH, Li G, Ratliff JK, Han SS, Skirboll SL, Grant GA. An integrated risk model

stratifying seizure risk following brain tumor resection among seizure-naïve patients without antiepileptic prophylaxis. *Neurosurg Focus*. 2022 Apr;52(4):E3. doi: 10.3171/2022.1.FOCUS21751. PMID: 35364580.

Beachler DC, Hall K, Garg R, Banerjee G, Li L, Boulanger L, Yuce H, Walker AM. An Evaluation of the Effect of the OxyContin Reformulation on Unintentional Fatal and Nonfatal Overdose. *Clin J Pain*. 2022 Jun 1;38(6):396-404. doi: 10.1097/AJP.0000000000001034. PMID: 35356897; PMCID: PMC9076252.

McKinney JL, Datar M, Pan LC, Goss T, Keyser LE, Pulliam SJ. Retrospective claims analysis of physical therapy utilization among women with stress or mixed urinary incontinence. *Neurourol Urodyn*. 2022 Apr;41(4):918-925. doi: 10.1002/nau.24913. Epub 2022 Mar 30. PMID: 35353916; PMCID: PMC9311701.

Keating SJ, Gu T, Jun MP, McBride A. Health Care Resource Utilization and Total Costs of Care Among Patients with Diffuse Large B Cell Lymphoma Treated with Chimeric Antigen Receptor T Cell Therapy in the United States. *Transplant Cell Ther*. 2022 Jul;28(7):404.e1-404.e6. doi: 10.1016/j.jtct.2022.03.021. Epub 2022 Mar 27. PMID: 35354101.

Hwang MC, Rozycki M, Kauffman D, Arndt T, Yi E, Weisman MH. Does Gender Impact a Diagnosis of Ankylosing Spondylitis? *ACR Open Rheumatol*. 2022 Jun;4(6):540-546.

doi: 10.1002/acr2.11428. Epub 2022 Mar 29. PMID: 35352497; PMCID: PMC9190217.

Hu T, Done N, Petigara T, Mohanty S, Song Y, Liu Q, Lemus-Wirtz E, Signorovitch J, Sarpong E, Weiss T. Incidence of acute otitis media in children in the United States before and after the introduction of 7- and 13-valent pneumococcal conjugate vaccines during 1998-2018. *BMC Infect Dis*. 2022 Mar 26;22(1):294. doi: 10.1186/s12879-022-07275-9. PMID: 35346092; PMCID: PMC8962537.

Wilson JM, Jones CA, Holmes JS, Farley KX, Hernandez-Irizarry RC, Moore TJ Jr, Bradbury TL, Guild GN. Fixation vs Arthroplasty for Femoral Neck Fracture in Patients Aged 40-59 Years: A Propensity-Score-Matched Analysis. *Arthroplast Today*. 2022 Mar 20;14:175-182. doi: 10.1016/j.artd.2021.10.019. PMID: 35342781; PMCID: PMC8943217.

Straub L, Hernández-Díaz S, Bateman BT, Wisner KL, Gray KJ, Pennell PB, Lester B, McDougle CJ, Suarez EA, Zhu Y, Zakoul H, Mogun H, Huybrechts KF. Association of Antipsychotic Drug Exposure in Pregnancy With Risk of Neurodevelopmental Disorders: A National Birth Cohort Study. *JAMA Intern Med*. 2022 May 1;182(5):522-533. doi: 10.1001/jamainternmed.2022.0375. PMID: 35343998; PMCID: PMC8961398.

Samples H, Williams AR, Crystal S, Olfson M. Psychosocial and behavioral therapy in conjunction with medication for opioid use disorder: Patterns, predictors, and

association with buprenorphine treatment outcomes. *J Subst Abuse Treat*. 2022 Aug;139:108774. doi:

10.1016/j.jsat.2022.108774. Epub 2022 Mar 18. PMID: 35337716; PMCID: PMC9187597.

Welk B, Lenherr S, Santiago-Lastra Y, Norman HS, Keiser MG, Elliott CS. Differences in the incidence of urinary tract infections between neurogenic and non-neurogenic bladder dysfunction individuals performing intermittent catheterization. *Neurourol Urodyn*. 2022 Apr;41(4):1002-1011. doi: 10.1002/nau.24914. Epub 2022 Mar 25. PMID: 35332597.

Stone AV, Murphy ML, Jacobs CA, Lattermann C, Hawk GS, Thompson KL, Conley CEW. Mood Disorders Are Associated with Increased Perioperative Opioid Usage and Health Care Costs in Patients Undergoing Knee Cartilage Restoration Procedure. *Cartilage*. 2022 Jan-Mar;13(1):19476035221087703. doi: 10.1177/19476035221087703. PMID: 35333656; PMCID: PMC9137305.

Mostaghimi A, Gandhi K, Done N, Ray M, Gao W, Carley C, Wang T, Swallow E, Sikirica V. All-cause health care resource utilization and costs among adults with alopecia areata: A retrospective claims database study in the United States. *J Manag Care Spec Pharm*. 2022 Apr;28(4):426-434. doi: 10.18553/jmcp.2022.28.4.426. PMID: 35332790; PMCID: PMC10373004.

Bhanja D, Ba D, Tuohy K, Wilding H, Trifoi M, Padmanaban V, Liu G, Sughrue M,

Zacharia B, Leslie D, Mansouri A. Association of Low-Grade Glioma Diagnosis and Management Approach with Mental Health Disorders: A MarketScan Analysis 2005–2014. *Cancers (Basel)*. 2022 Mar 8;14(6):1376. doi: 10.3390/cancers14061376. PMID: 35326529; PMCID: PMC8946211.

Edmiston CE Jr, Leaper DJ, Chitnis AS, Holy CE, Chen BP. Risk and economic burden of surgical site infection following spinal fusion in adults. *Infect Control Hosp Epidemiol*. 2023 Jan;44(1):88–95. doi: 10.1017/ice.2022.32. Epub 2022 Mar 24. PMID: 35322778.

Hong K, Lindley MC, Tsai Y, Zhou F. School Mandate and Influenza Vaccine Uptake Among Prekindergartners in New York City, 2012–2019. *Am J Public Health*. 2022 May;112(5):719–723. doi: 10.2105/AJPH.2022.306765. Epub 2022 Mar 24. PMID: 35324263; PMCID: PMC9010927.

Thomas AS, Huang Y, Kwon W, Schrope BA, Sugahara K, Chabot JA, Wright JD, Kluger MD. Prevalence and Risk Factors for Pancreatic Insufficiency After Partial Pancreatectomy. *J Gastrointest Surg*. 2022 Jul;26(7):1425–1435. doi: 10.1007/s11605-022-05302-3. Epub 2022 Mar 22. PMID: 35318597.

Ramsey ML, Wellner MR, Porter K, Kirkby SE, Li SS, Lara LF, Kelly SG, Hanje AJ, Sobotka LA. Cystic fibrosis patients on cystic fibrosis transmembrane conductance regulator modulators have a

reduced incidence of cirrhosis. *World J Hepatol*. 2022 Feb 27;14(2):411–419. doi: 10.4254/wjh.v14.i2.411. PMID: 35317183; PMCID: PMC8891668.

Hong K, Hill HA, Tsai Y, Lindley MC, Zhou F. Vaccination Coverage of Privately Insured Children: Comparing U.S. Survey and Administrative Data. *Am J Prev Med*. 2022 Jul;63(1):107–110. doi: 10.1016/j.amepre.2022.01.020. Epub 2022 Mar 19. PMID: 35317958; PMCID: PMC9996641.

Berger JH, Faerber JA, Chen F, Lin KY, Brothers JA, O'Byrne ML. Adherence With Lipid Screening Guidelines in Children With Acquired and Congenital Heart Disease: An Observational Study Using Data From The MarketScan Commercial and Medicaid Databases. *J Am Heart Assoc*. 2022 Apr 5;11(7):e024197. doi: 10.1161/JAHA.121.024197. Epub 2022 Mar 18. PMID: 35301862; PMCID: PMC9075474.

Crissman HP, Haley C, Stroumsa D, Tilea A, Moravek MB, Harris LH, Dalton VK. Leveraging Administrative Claims to Understand Disparities in Gender Minority Health: Contraceptive Use Patterns Among Transgender and Nonbinary People. *LGBT Health*. 2022 Apr;9(3):186–193. doi: 10.1089/lgbt.2021.0303. Epub 2022 Mar 17. PMID: 35297673.

Morga A, Kimura T, Feng Q, Rozario N, Schwartz J. Compliance to Advisory Committee on Immunization Practices recommendations for pneumococcal vaccination. *Vaccine*. 2022 Apr

1;40(15):2274-2281. doi:

10.1016/j.vaccine.2022.03.005. Epub 2022 Mar 12. PMID: 35292161.

Lo BD, Zhang GQ, Canner JK, Stem M, Taylor JP, Atallah C, Efron JE, Safar B. Preoperative Opioid Dose and Surgical Outcomes in Colorectal Surgery. *J Am Coll Surg*. 2022 Apr 1;234(4):428-435. doi: 10.1097/XCS.000000000000109. PMID: 35290261.

Premkumar A, Anatone A, Illescas A, Memsoudis S, Cross MB, Sculco PK, Gonzalez Della Valle A. Perioperative Use of Antifibrotic Medications Associated With Lower Rate of Manipulation After Primary TKA: An Analysis of 101,366 Patients. *J Arthroplasty*. 2022 Aug;37(8S):S1010-S1015.e1. doi: 10.1016/j.arth.2022.03.026. Epub 2022 Mar 11. PMID: 35283229.

Payne AB, Adamski A, Abe K, Reyes NL, Richardson LC, Hooper WC, Schieve LA. Epidemiology of cerebral venous sinus thrombosis and cerebral venous sinus thrombosis with thrombocytopenia in the United States, 2018 and 2019. *Res Pract Thromb Haemost*. 2022 Mar 7;6(2):e12682. doi: 10.1002/rth2.12682. PMID: 35284775; PMCID: PMC8901465.

Varady NH, Abraham PF, Kucharik MP, Freccero DM, Smith EL, Martin SD. Comparing the Risk of Osteonecrosis of the Femoral Head Following Intra-Articular Corticosteroid and Hyaluronic Acid Injections. *J Bone Joint Surg Am*. 2022 Jun 15;104(12):1055-1060. doi:

10.2106/JBJS.21.01043. Epub 2022 Mar 11. PMID: 35275891.

Patel AB, Satarasinghe PN, Valencia V, Wenzel JL, Webb JC, Wolf JS Jr, Osterberg EC. Opiate Prescriptions Vary among Common Urologic Procedures: A Claims Dataset Analysis. *J Clin Med*. 2022 Feb 28;11(5):1329. doi: 10.3390/jcm11051329. PMID: 35268419; PMCID: PMC8911322.

Olatoke O, Zah V, Stanicic F, Vukicevic D, Yfantopoulos P, Thompson C, DeGeorge MK, Passik S. A US Retrospective Claims Analysis Comparing Healthcare Costs of Patients Transitioning from Immediate-Release Oxycodone to Two Different Formulations of Extended-Release Oxycodone: Xtampza ER or OxyContin. *Clinicoecon Outcomes Res*. 2022 Mar 3;14:119-128. doi: 10.2147/CEOR.S340290. PMID: 35264862; PMCID: PMC8901186.

Mody R, Manjelievskaia J, Marchlewicz EH, Malik RE, Zimmerman NM, Irwin DE, Yu M. Greater Adherence and Persistence with Injectable Dulaglutide Compared with Injectable Semaglutide at 1-Year Follow-up: Data from US Clinical Practice. *Clin Ther*. 2022 Apr;44(4):537-554. doi: 10.1016/j.clinthera.2022.01.017. Epub 2022 Mar 6. PMID: 35264311.

Butzner M, Leslie D, Cuffee Y, Hollenbeak CS, Sciamanna C, Abraham TP. Sex differences in clinical outcomes for obstructive hypertrophic cardiomyopathy in the USA: a retrospective observational study of administrative claims data. *BMJ Open*. 2022 Mar 9;12(3):e058151. doi:

10.1136/bmjopen-2021-058151. PMID: 35264369; PMCID: PMC8915302.

Wickwire EM, Amari DT, Juday TR, Frech F, Gor D, Malhotra M. Incremental health care resource use and costs among adult patients with depression and treated for insomnia with zolpidem, trazodone, or benzodiazepines. *Curr Med Res Opin.* 2022 May;38(5):711-720. doi: 10.1080/03007995.2022.2047537. Epub 2022 Mar 15. PMID: 35262444.

Ji X, Hu X, Brock KE, Mertens AC, Cummings JR, Effinger KE. Early Posttherapy Opioid Prescription, Potential Misuse, and Substance Use Disorder Among Pediatric Cancer Survivors. *J Natl Cancer Inst.* 2022 Jun 13;114(6):895-906. doi: 10.1093/jnci/djac049. PMID: 35262708; PMCID: PMC9194632.

Varshneya K, Hong CS, Tyagi V, Ruberte Thiele RA, Huddleston JI 3rd. Imageless Computer Navigation Reduces 5-Year All-Cause Revision Rates After Primary Total Knee Arthroplasty. *J Arthroplasty.* 2022 Jun;37(6S):S211-S215. doi: 10.1016/j.arth.2022.02.004. Epub 2022 Feb 18. PMID: 35256233.

AlAshqar A, Ishiwata R, Moss C, Andersen KM, Yanek L, Bicket MC, Alexander GC, Borahay MA. Predictors of new persistent opioid use after benign hysterectomy in the United States. *Am J Obstet Gynecol.* 2022 Jul;227(1):68.e1-68.e24. doi: 10.1016/j.ajog.2022.02.030. Epub 2022 Mar 3. PMID: 35248573; PMCID: PMC9253094.

Snider JT, McMorrow D, Song X, Diakun D, Wade SW, Cheng P. Burden of Illness and Treatment Patterns in Second-line Large B-cell Lymphoma. *Clin Ther.* 2022 Apr;44(4):521-538. doi: 10.1016/j.clinthera.2022.02.004. Epub 2022 Feb 28. PMID: 35241295.

Fisher DA, Princic N, Miller-Wilson LA, Wilson K, Limburg P. Costs of colorectal cancer screening with colonoscopy, including post-endoscopy events, among adults with Medicaid insurance. *Curr Med Res Opin.* 2022 May;38(5):793-801. doi: 10.1080/03007995.2022.2049163. Epub 2022 Mar 15. PMID: 35243953.

Chew DS, Jones KA, Loring Z, Black-Maier E, Noseworthy PA, Exner DV, Packer DL, Grant J, Mark DB, Piccini JP. Diagnosis-to-ablation time predicts recurrent atrial fibrillation and rehospitalization following catheter ablation. *Heart Rhythm O2.* 2021 Nov 19;3(1):23-31. doi: 10.1016/j.hroo.2021.11.012. PMID: 35243432; PMCID: PMC8859793.

Bae J, Liu D, Chinthammit C, Kadziola Z, Boye K, Mather K. Type 2 diabetes pharmacotherapy trends in high-risk subgroups. *Diabetes Obes Metab.* 2022 Jun;24(6):1166-1171. doi: 10.1111/dom.14678. Epub 2022 Mar 22. PMID: 35243741; PMCID: PMC9314938.

Pollack LM, Chen J, Cox S, Luo F, Robbins CL, Tevendale HD, Li R, Ko JY. Healthcare Utilization and Costs Associated With Perinatal Depression Among Medicaid Enrollees. *Am J Prev Med.* 2022

Jun;62(6):e333-e341. doi:

10.1016/j.amepre.2021.12.008. Epub 2022 Feb 25. PMID: 35227542; PMCID: PMC9247863.

Owens AT, Sutton MB, Gao W, Fine JT, Xie J, Naidu SS, Desai NR. Treatment Changes, Healthcare Resource Utilization, and Costs Among Patients with Symptomatic Obstructive Hypertrophic Cardiomyopathy: A Claims Database Study. *Cardiol Ther*. 2022 Jun;11(2):249-267. doi: 10.1007/s40119-022-00257-7. Epub 2022 Mar 1. PMID: 35230625; PMCID: PMC9135924.

Haskins IN, Duchesneau ED, Agala CB, Lumpkin ST, Strassle PD, Farrell TM. Minimally invasive, benign foregut surgery is not associated with long-term, persistent opioid use postoperatively: an analysis of the IBM® MarketScan® database. *Surg Endosc*. 2022 Nov;36(11):8430-8440. doi: 10.1007/s00464-022-09123-y. Epub 2022 Feb 28. PMID: 35229211; PMCID: PMC9733437.

Blauvelt A, Burge R, Gallo G, Charbonneau B, Malatestinic W, Zhu B, Wan F, Lockshin B. A Retrospective Cohort Analysis of Treatment Patterns Over 1 Year in Patients with Psoriasis Treated with Ixekizumab or Guselkumab. *Dermatol Ther (Heidelb)*. 2022 Mar;12(3):701-714. doi: 10.1007/s13555-022-00686-1. Epub 2022 Feb 26. PMID: 35220545; PMCID: PMC8941031.

Zeitler EP, Ronk CJ, Cockerham A, Huse S, McKindley DS, Kim MH. Healthcare

resource utilization in patients with newly diagnosed atrial fibrillation in the United States. *Expert Rev Pharmacoecon Outcomes Res*. 2022 Jul;22(5):763-771. doi: 10.1080/14737167.2022.2045955. Epub 2022 Mar 10. PMID: 35209794.

Parker JJ, Zhang Y, Fatemi P, Halpern CH, Porter BE, Grant GA. Antiseizure medication use and medical resource utilization after resective epilepsy surgery in children in the United States: A contemporary nationwide cross-sectional cohort analysis. *Epilepsia*. 2022 Apr;63(4):824-835. doi: 10.1111/epi.17180. Epub 2022 Feb 25. PMID: 35213744.

Olson AL, Hartmann N, Patnaik P, Garry EM, Bohn RL, Singer D, Baldwin M, Wallace L. Healthcare Resource Utilization and Related Costs in Chronic Fibrosing Interstitial Lung Diseases with a Progressive Phenotype: A US Claims Database Analysis. *Adv Ther*. 2022 Apr;39(4):1794-1809. doi: 10.1007/s12325-022-02066-9. Epub 2022 Feb 23. PMID: 35199282; PMCID: PMC8990938.

Ko GC, Hansen R, Carlson J. Comparing costs and health care resource utilization between nmHSPC and mHSPC patients: a retrospective claims analysis. *J Manag Care Spec Pharm*. 2022 Mar;28(3):287-295. doi: 10.18553/jmcp.2022.28.3.287. PMID: 35199577; PMCID: PMC10372963.

Diaz SE, Lee YF, Bastawrous AL, Shih IF, Lee SH, Li Y, Cleary RK. Comparison of health-care utilization and expenditures for minimally invasive vs. open colectomy for

benign disease. *Surg Endosc.* 2022 Oct;36(10):7250-7258. doi: 10.1007/s00464-022-09097-x. Epub 2022 Feb 22. PMID: 35194661; PMCID: PMC9485164.

Sharma M, Aljuboori Z, Dietz N, Wang D, Ugiliweneza B, Williams B, Andaluz N. Incidence and Long-Term Health Care Utilization Associated With Pseudomeningocele Repair Following Vestibular Schwannoma Resection: A National Database Analysis. *Cureus.* 2022 Jan 14;14(1):e21248. doi: 10.7759/cureus.21248. PMID: 35186536; PMCID: PMC8844231.

Khandker R, Chekani F, Limone B, Thiel E. Cardiometabolic outcomes among schizophrenia patients using antipsychotics: the impact of high weight gain risk vs low weight gain risk treatment. *BMC Psychiatry.* 2022 Feb 19;22(1):133. doi: 10.1186/s12888-022-03746-0. PMID: 35183142; PMCID: PMC8857781.

Zhao D, Baek J, Hume AL, McPhillips EA, Lapane KL. Geographic Variation in the Use of Gabapentinoids and Opioids for Pain in a Commercially Insured Adult Population in the United States. *J Pain Res.* 2022 Feb 11;15:443-454. doi: 10.2147/JPR.S345521. PMID: 35177933; PMCID: PMC8846606.

Rochlin DH, Ma LW, Shekter CC, Lorenz HP. Out-of-Pocket Costs and Provider Payments in Cleft Lip and Palate Repair. *Ann Plast Surg.* 2022 May 1;88(4 Suppl 4):S343-S347. doi: 10.1097/SAP.0000000000003081. Epub

2022 Feb 21. PMID: 35180754; PMCID: PMC9381638.

Jain N, Sharma M, Wang D, Ugiliweneza B, Drazin D, Boakye M. Simulated bundled payments for four common surgical approaches to treat degenerative cervical myelopathy: a consideration to break the clinical equipoise. *J Neurosurg Spine.* 2022 Jan 14:1-8. doi: 10.3171/2021.10.SPINE211105. Epub ahead of print. PMID: 35171836.

Rojanasarot S, Cutone B, Bhattacharyya S, DeRouen K, Miller LE. Long-Term Risk of Surgery Following First Diagnosis of Benign Prostatic Hyperplasia in Middle-Aged Men. *Cureus.* 2022 Jan 5;14(1):e20961. doi: 10.7759/cureus.20961. PMID: 35154940; PMCID: PMC8815443.

Yih WK, Kulldorff M, Dashevsky I, Maro JC. A Broad Safety Assessment of the Recombinant Herpes Zoster Vaccine. *Am J Epidemiol.* 2022 Mar 24;191(5):957-964. doi: 10.1093/aje/kwac030. PMID: 35152283; PMCID: PMC9071519.

D'Angelo RN, Khanna R, Wong C, Yeh RW, Goldstein L, Marcello S, Tung P, D'Avila A, Zimetbaum PJ. Very early versus early referral for ablation in young patients with newly diagnosed paroxysmal atrial fibrillation. *Pacing Clin Electrophysiol.* 2022 Mar;45(3):348-356. doi: 10.1111/pace.14459. Epub 2022 Feb 23. PMID: 35150152.

Miller AC, Harris LM, Cavanaugh JE, Abou Alaiwa M, Stoltz DA, Hornick DB, Polgreen PM. The Rapid Reduction of Infection-

Related Visits and Antibiotic Use Among People With Cystic Fibrosis After Starting Elexacaftor-Tezacaftor-Ivacaftor. *Clin Infect Dis*. 2022 Sep 30;75(7):1115-1122. doi: 10.1093/cid/ciac117. PMID: 35142340; PMCID: PMC9525072.

Pradhan R, Patorno E, Tesfaye H, Schneeweiss S, Yin H, Franklin J, Pawar A, Santella C, Yu OHY, Renoux C, Azoulay L. Glucagon-Like Peptide 1 Receptor Agonists and Risk of Anaphylactic Reaction Among Patients With Type 2 Diabetes: A Multisite Population-Based Cohort Study. *Am J Epidemiol*. 2022 Jul 23;191(8):1352-1367. doi: 10.1093/aje/kwac021. PMID: 35136902; PMCID: PMC9989345.

Rashid Kazi R, Jung M, Kelly T, Xiong Y, Harris A. Frequency and timing of emergency department visits and hospital admissions in stented patients following common stone procedures. *Urolithiasis*. 2022 Jun;50(3):381-387. doi: 10.1007/s00240-022-01313-6. Epub 2022 Feb 8. PMID: 35133494.

Eisenberg MT, Block AM, Vopat ML, Olsen MA, Nepple JJ. Rates of Infection After ACL Reconstruction in Pediatric and Adolescent Patients: A MarketScan Database Study of 44,501 Patients. *J Pediatr Orthop*. 2022 Apr 1;42(4):e362-e366. doi: 10.1097/BPO.0000000000002080. PMID: 35132010; PMCID: PMC8901548.

Chao GF, Yang J, Thumma JR, Chhabra KR, Arterburn DE, Ryan AM, Telem DA, Dimick JB. Out-of-pocket Costs for

Commercially-insured Patients in the Years Following Bariatric Surgery: Sleeve Gastrectomy Versus Roux-en-Y Gastric Bypass. *Ann Surg*. 2023 Feb 1;277(2):e332-e338. doi: 10.1097/SLA.0000000000005291. Epub 2023 Jan 10. PMID: 35129487; PMCID: PMC9091055.

Li E, Schroader BK, Campbell D, Campbell K, Wang W. The Impact of Baseline Risk Factors on the Incidence of Febrile Neutropenia in Breast Cancer Patients Receiving Chemotherapy with Pegfilgrastim Prophylaxis: A Real-World Data Analysis. *J Health Econ Outcomes Res*. 2021 Jun 22;8(1):106-115. doi: 10.36469/001c.24564. PMID: 35127962; PMCID: PMC8787317.

Koltsov JCB, Sambare TD, Alamin TF, Wood KB, Cheng I, Hu SS. Healthcare resource utilization and costs 2 years pre- and post-lumbar spine surgery for stenosis: a national claims cohort study of 22,182 cases. *Spine J*. 2022 Jun;22(6):965-974. doi: 10.1016/j.spinee.2022.01.020. Epub 2022 Feb 3. PMID: 35123048.

Lavallee M, Yu T, Evans L, Van Hemelrijck M, Bosco C, Golozar A, Asimwe A. Evaluating the performance of temporal pattern discovery: new application using statins and rhabdomyolysis in OMOP databases. *BMC Med Inform Decis Mak*. 2022 Feb 3;22(1):31. doi: 10.1186/s12911-022-01765-1. PMID: 35115001; PMCID: PMC8812213.

Rochlin DH, Sheckter CC, Momeni A. Failed Breast Conservation Therapy

Predicts Higher Frequency of Revision Surgery following Mastectomy with Reconstruction. *Plast Reconstr Surg.* 2022 Apr 1;149(4):811-818. doi: 10.1097/PRS.00000000000008896. PMID: 35103635; PMCID: PMC8967810.

Lee MV, Aharon S, Kim K, Sunn Konstantinoff K, Appleton CM, Stwalley D, Olsen MA. Recent Trends in Screening Breast MRI. *J Breast Imaging.* 2021 Dec 11;4(1):39-47. doi: 10.1093/jbi/wbab088. PMID: 35103253; PMCID: PMC8794012.

Zura R, Anderson RB, Ahmed SS, Hak D, Watson T, Mack C, Irwin DE, Maislin G, Kelly KP, Jones JT, Wester T, Pavesio A, Ong K. EXOGEN Mitigates Risk of Fifth Metatarsal Fracture Nonunion: Results of a Novel Real-World Clinical Study. *Foot Ankle Orthop.* 2022 Jan 21;7(1):2473011421S00517. doi: 10.1177/2473011421S00517. PMID: 35098003; PMCID: PMC8793578.

Murage MJ, Princic N, Park J, Malatestinic WN, Zhu B, Atiya B, Kern SA, Stenger KB, Sprabery AT, Ogdie A. Treatment patterns and health care costs among patients with psoriatic arthritis treated with biologic or targeted synthetic disease-modifying antirheumatic drugs. *J Manag Care Spec Pharm.* 2022 Feb;28(2):206-217. doi: 10.18553/jmcp.2022.28.2.206. PMID: 35098751; PMCID: PMC10373003.

Gatwood J, Ramachandran S, Shuvo SA, Behal M, Hagemann T, Hohmeier KC, Chiu CY. Social determinants of health and adult influenza vaccination: a nationwide claims

analysis. *J Manag Care Spec Pharm.* 2022 Feb;28(2):196-205. doi: 10.18553/jmcp.2022.28.2.196. PMID: 35098752; PMCID: PMC10372982.

Chao GF, Yang J, Peahl AF, Thumma JR, Dimick JB, Arterburn DE, Telem DA. Comparative effectiveness of sleeve gastrectomy vs Roux-en-Y gastric bypass in patients giving birth after bariatric surgery: reinterventions and obstetric outcomes. *Surg Endosc.* 2022 Sep;36(9):6954-6968. doi: 10.1007/s00464-022-09063-7. Epub 2022 Jan 31. PMID: 35099628.

Sharma M, Ball T, Wang D, Ugiliweneza B, Rattani A, Woo S, Boakye M, Neimat JS, Williams B, Andaluz N. Incidence of repeat procedures and healthcare utilization following surgery, radiosurgery, and percutaneous procedures in elderly patients with trigeminal neuralgia. *J Neurosurg.* 2022 Jan 28:1-12. doi: 10.3171/2021.12.JNS211880. Epub ahead of print. PMID: 35090128.

Goel V, Kaizer A, Patwardhan AM, Ibrahim M, DeSimone DC, Sivanesan E, Shankar H. Postoperative Oral Antibiotic Use and Infection-Related Complications After Spinal Cord Stimulator Surgery. *Neuromodulation.* 2022 Jul;25(5):738-744. doi: 10.1016/j.neurom.2021.10.012. Epub 2021 Dec 18. PMID: 35088754.

Packnett ER, Zimmerman NM, Kim G, Nowy P, Morgan LC, Chime N, Ghaswalla P. A Real-world Claims Data Analysis of Meningococcal Serogroup B Vaccine

Series Completion and Potential Missed Opportunities in the United States. *Pediatr Infect Dis J*. 2022 Apr 1;41(4):e158-e165. doi: 10.1097/INF.0000000000003455. PMID: 35086118; PMCID: PMC8920016.

Schein J, Adler LA, Childress A, Cloutier M, Gagnon-Sanschagrin P, Davidson M, Kinkead F, Guerin A, Lefebvre P. Economic burden of attention-deficit/hyperactivity disorder among children and adolescents in the United States: a societal perspective. *J Med Econ*. 2022 Jan-Dec;25(1):193-205. doi: 10.1080/13696998.2022.2032097. PMID: 35068300.

Feng XS, Farej R, Dean BB, Xia F, Gaiser A, Kong SX, Elliott J, Lindemann S, Singh R. CKD Prevalence Among Patients With and Without Type 2 Diabetes: Regional Differences in the United States. *Kidney Med*. 2021 Nov 3;4(1):100385. doi: 10.1016/j.xkme.2021.09.003. PMID: 35072048; PMCID: PMC8767132.

Amari DT, Juday TR, Frech FH, Wang W, Gor D, Atkins N Jr, Wickwire EM. Fall Risk, Healthcare Resource Use, and Costs Among Adult Patients in the United States Treated for Insomnia with Zolpidem, Trazodone, or Benzodiazepines: A Retrospective Cohort Study. *Adv Ther*. 2022 Mar;39(3):1324-1340. doi: 10.1007/s12325-022-02041-4. Epub 2022 Jan 24. PMID: 35072889.

Butzner M, Leslie DL, Cuffee Y, Hollenbeak CS, Sciamanna C, Abraham T. Stable Rates of Obstructive Hypertrophic Cardiomyopathy in a Contemporary Era.

Front Cardiovasc Med. 2022 Jan 6;8:765876. doi: 10.3389/fcvm.2021.765876. PMID: 35071348; PMCID: PMC8770922.

Chirikov VV, Corman S, Qiao Y, Huang X. Clinical and Economic Burden of Out-of-Hospital Cardiac Arrest in US Commercial Insurance Population (2014 to 2019). *Am J Cardiol*. 2022 Apr 15;169:42-50. doi: 10.1016/j.amjcard.2021.12.038. Epub 2022 Jan 19. PMID: 35063266.

Wharton JM, Piccini JP, Koren A, Huse S, Ronk CJ. Comparative Safety and Effectiveness of Sotalol Versus Dronedarone After Catheter Ablation for Atrial Fibrillation. *J Am Heart Assoc*. 2022 Feb;11(3):e020506. doi: 10.1161/JAHA.120.020506. Epub 2022 Jan 21. Erratum in: *J Am Heart Assoc*. 2022 May 17;11(10):e020803. Erratum in: *J Am Heart Assoc*. 2023 Oct 17;12(20):e027739. PMID: 35060388; PMCID: PMC9238499.

Murugappan MN, Westberg SM, Contag S, Melnik TE, Kumar A, Rajpurohit A, Thorsness K, Farley JF. Maternal ADHD and Perinatal Prescription Stimulant Use. *J Atten Disord*. 2022 Aug;26(10):1347-1356. doi: 10.1177/10870547211073472. Epub 2022 Jan 20. PMID: 35048729.

Sen AP, Singh Y, Anderson GF. Site-based payment differentials for ambulatory services among individuals with commercial insurance. *Health Serv Res*. 2022 Oct;57(5):1165-1174. doi: 10.1111/1475-6773.13935. Epub 2022 Feb 15. PMID: 35041209; PMCID: PMC9441285.

Olsen MA, Greenberg JK, Peacock K, Nickel KB, Fraser VJ, Warren DK. Lack of association of post-discharge prophylactic antibiotics with decreased risk of surgical site infection following spinal fusion. *J Antimicrob Chemother.* 2022 Mar 31;77(4):1178-1184. doi: 10.1093/jac/dkab475. PMID: 35040936; PMCID: PMC9126069.

Broggi MS, Tahmid S, Hurt J, Kadakia RJ, Bariteau JT, Coleman MM. Preoperative Depression is Associated With Increased Complications Following Ankle Fracture Surgery. *Foot Ankle Spec.* 2022 Jan 15:19386400211065967. doi: 10.1177/19386400211065967. Epub ahead of print. PMID: 35037505.

Sarayani A, Albogami Y, Thai TN, Smolinski NE, Patel P, Wang Y, Nduaguba S, Rasmussen SA, Winterstein AG. Prenatal exposure to teratogenic medications in the era of Risk Evaluation and Mitigation Strategies. *Am J Obstet Gynecol.* 2022 Aug;227(2):263.e1-263.e38. doi: 10.1016/j.ajog.2022.01.004. Epub 2022 Jan 12. PMID: 35032444.

Sobotka SA, Hall DE, Thurm C, Gay J, Berry JG. Home Health Care Utilization in Children With Medicaid. *Pediatrics.* 2022 Feb 1;149(2):e2021050534. doi: 10.1542/peds.2021-050534. PMID: 35028664; PMCID: PMC9003864.

Rockefeller NF, Petersen TR, Jeppson PC, Dunivan G, Ninivaggio C, Meriwether K, Gallegos MA, Komesu YM. Midurethral Sling Removal or Revision in Women with

Chronic Pain. *Female Pelvic Med Reconstr Surg.* 2022 May 1;28(5):e149-e153. doi: 10.1097/SPV.0000000000001126. Epub 2022 Jan 13. PMID: 35030137.

Khosrow-Khavar F, Kim SC, Lee H, Lee SB, Desai RJ. Tofacitinib and risk of cardiovascular outcomes: results from the Safety of Tofacitinib in Routine care patients with Rheumatoid Arthritis (STAR-RA) study. *Ann Rheum Dis.* 2022 Jun;81(6):798-804. doi: 10.1136/annrheumdis-2021-221915. Epub 2022 Jan 13. PMID: 35027405; PMCID: PMC9117457.

Pardo G, Pineda ED, Ng CD, Bawa KK, Sheinson D, Bonine NG. Adherence to and Persistence with Disease-Modifying Therapies for Multiple Sclerosis Over 24 Months: A Retrospective Claims Analysis. *Neurol Ther.* 2022 Mar;11(1):337-351. doi: 10.1007/s40120-021-00319-3. Epub 2022 Jan 12. PMID: 35020156; PMCID: PMC8857349.

Franks JA, Anderson JL, Bowman E, Li CY, Kennedy RE, Yun H. Inpatient Diagnosis of Delirium and Encephalopathy: Coding Trends in 2011-2018. *J Acad Consult Liaison Psychiatry.* 2022 Sep-Oct;63(5):413-422. doi: 10.1016/j.jaclp.2021.12.006. Epub 2022 Jan 10. PMID: 35017122.

Okunev I, Tranby EP, Jacob M, Diep VK, Kelly A, Heaton LJ, Frantsve-Hawley J. The impact of underutilization of preventive dental care by adult Medicaid participants. *J Public Health Dent.* 2022 Jan;82(1):88-98.

doi: 10.1111/jphd.12494. Epub 2022 Jan 11. PMID: 35014702; PMCID: PMC9303757.

Kujawski SA, Yao L, Wang HE, Carias C, Chen YT. Impact of the COVID-19 pandemic on pediatric and adolescent vaccinations and well child visits in the United States: A database analysis. *Vaccine*. 2022 Jan 31;40(5):706-713. doi: 10.1016/j.vaccine.2021.12.064. Epub 2022 Jan 1. PMID: 35012776; PMCID: PMC8719942.

Bloom CI, Montonen J, Jöns O, Garry EM, Bhatt SP. Treatment Transitions in Chronic Obstructive Pulmonary Disease: Retrospective Analyses of US and UK Healthcare Databases. *Pulm Ther*. 2022 Mar;8(1):75-93. doi: 10.1007/s41030-021-00180-7. Epub 2022 Jan 10. PMID: 35015269; PMCID: PMC8861248.

Bloom CI, Montonen J, Jöns O, Garry EM, Bhatt SP. First Maintenance Therapy for Chronic Obstructive Pulmonary Disease: Retrospective Analyses of US and UK Healthcare Databases. *Pulm Ther*. 2022 Mar;8(1):57-74. doi: 10.1007/s41030-021-00179-0. Epub 2022 Jan 10. PMID: 35015270; PMCID: PMC8861230.

Chen Z, Roy K, Khushalani JS, Puddy RW. Trend in rural-urban disparities in access to outpatient mental health services among US adults aged 18-64 with employer-sponsored insurance: 2005-2018. *J Rural Health*. 2022 Sep;38(4):788-794. doi: 10.1111/jrh.12644. Epub 2022 Jan 9. PMID: 35001435; PMCID: PMC9661493.

Ledlie S, Ricci C, Pan C, Rojas A, Khromava A, Li L. Yellow fever vaccine usage in the United States and risk of neurotropic and viscerotropic disease: A retrospective cohort study using three healthcare databases. *Vaccine*. 2022 Jan 31;40(5):742-751. doi: 10.1016/j.vaccine.2021.12.047. Epub 2022 Jan 5. PMID: 34996642.

Straub L, Bateman BT, Hernandez-Diaz S, York C, Lester B, Wisner KL, McDougale CJ, Pennell PB, Gray KJ, Zhu Y, Suarez EA, Mogun H, Huybrechts KF. Neurodevelopmental Disorders Among Publicly or Privately Insured Children in the United States. *JAMA Psychiatry*. 2022 Mar 1;79(3):232-242. doi: 10.1001/jamapsychiatry.2021.3815. PMID: 34985527; PMCID: PMC8733868.

Reid JS, Vanderkarr M, Ray B, Chitnis A, Holy CE, Sparks C. Two-year clinical and economic burden, risk and outcomes following application of software-assisted hexapod ring fixation systems. *BMC Musculoskelet Disord*. 2022 Jan 3;23(1):25. doi: 10.1186/s12891-021-04934-x. PMID: 34980051; PMCID: PMC8725345.

Edmiston CE Jr, Bond-Smith G, Spencer M, Chitnis AS, Holy CE, Po-Han Chen B, Leaper DJ. Assessment of risk and economic burden of surgical site infection (SSI) posthysterectomy using a U.S. longitudinal database. *Surgery*. 2022 May;171(5):1320-1330. doi: 10.1016/j.surg.2021.11.034. Epub 2021 Dec 29. PMID: 34973811.

Fleseriu M, Barkan A, Del Pilar Schneider M, Darhi Y, de Pierrefeu A, Ribeiro-Oliveira A Jr, Petersenn S, Neggers S, Melmed S. Prevalence of comorbidities and concomitant medication use in acromegaly: analysis of real-world data from the United States. *Pituitary*. 2022 Apr;25(2):296-307. doi: 10.1007/s11102-021-01198-5. Epub 2022 Jan 1. PMID: 34973139; PMCID: PMC8894179.

Manalo TA, Biermann HD, Patil DH, Mehta A. The Temporal Association of Depression and Anxiety in Young Men With Erectile Dysfunction. *J Sex Med*. 2022 Feb;19(2):201-206. doi: 10.1016/j.jsxm.2021.11.011. Epub 2021 Dec 27. PMID: 34969613.

Ghani KR, Rojanasart S, Cutone B, Bhattacharyya SK, Krambeck AE. The Economic Burden of Cystoscopy-Based Ureteral Stent Removal in the United States: An Analysis of Nearly 30,000 Patients. *Urol Pract*. 2022 Jan;9(1):40-46. doi: 10.1097/UPJ.0000000000000271. Epub 2021 Oct 28. PMID: 37145558.

2021

Johnston EE, Davis ES, Bhatia S, Kenzik K. Location of death and hospice use in children with cancer varies by type of health insurance. *Pediatr Blood Cancer*. 2022 Aug;69(8):e29521. doi: 10.1002/pbc.29521. Epub 2021 Dec 28. PMID: 34962704.

Thornburg CD, Adamski K, Cook K, Vembusubramanian M, Sendhil SR, Hinds

D, Chen E, Sammon J, Solari P, Garrison LP Jr, Croteau SE. Health care costs and resource utilization among commercially insured adult patients with hemophilia A managed with FVIII prophylaxis in the United States. *J Manag Care Spec Pharm*. 2022 Apr;28(4):449-460. doi: 10.18553/jmcp.2021.21368. Epub 2021 Dec 27. PMID: 34958235.

Gaber CE, Cotton CC, Eluri S, Lund JL, Farrell TM, Dellon ES. Autoimmune and viral risk factors are associated with achalasia: A case-control study. *Neurogastroenterol Motil*. 2022 Jul;34(7):e14312. doi: 10.1111/nmo.14312. Epub 2021 Dec 26. PMID: 34957646; PMCID: PMC9232907.

Zhao N, Al-Aly Z, Zheng B, van Donkelaar A, Martin RV, Pineau CA, Bernatsky S. Fine particulate matter components and interstitial lung disease in rheumatoid arthritis. *Eur Respir J*. 2022 Jul 28;60(1):2102149. doi: 10.1183/13993003.02149-2021. PMID: 34949700.

Valliant SN, Burbage SC, Pathak S, Urlick BY. Pharmacists as accessible health care providers: quantifying the opportunity. *J Manag Care Spec Pharm*. 2022 Jan;28(1):85-90. doi: 10.18553/jmcp.2022.28.1.85. PMID: 34949110; PMCID: PMC8890748.

Ellenbogen MI, Andersen KM, Marine JE, Wang NY, Segal JB. Changing patterns of use of implantable cardiac monitors from 2011 to 2018 for a large commercially-

insured U.S. population. *Medicine (Baltimore)*. 2021 Dec 23;100(51):e28356. doi: 10.1097/MD.00000000000028356. PMID: 34941150; PMCID: PMC8702032.

Simeone RM, Downing KF, Bobo WV, Grosse SD, Khanna AD, Farr SL. Post-traumatic stress disorder, anxiety, and depression among adults with congenital heart defects. *Birth Defects Res*. 2022 Feb;114(3-4):124-135. doi: 10.1002/bdr2.1971. Epub 2021 Dec 21. PMID: 34935303; PMCID: PMC8828688.

Raymond B. Recordkeeping Error or Strategic Seasonal Substitution?: The Seasonality of Occupational Injuries in SOII and MarketScan. *J Occup Environ Med*. 2022 Mar 1;64(3):e94-e102. doi: 10.1097/JOM.0000000000002457. PMID: 34935682.

Straub L, Huybrechts KF, Mogun H, Bateman BT. Association of Neuraxial Labor Analgesia for Vaginal Childbirth With Risk of Autism Spectrum Disorder. *JAMA Netw Open*. 2021 Dec 1;4(12):e2140458. doi: 10.1001/jamanetworkopen.2021.40458. PMID: 34935925; PMCID: PMC8696569.

Nestsiarovich A, Reps JM, Matheny ME, DuVall SL, Lynch KE, Beaton M, Jiang X, Spotnitz M, Pfohl SR, Shah NH, Torre CO, Reich CG, Lee DY, Son SJ, You SC, Park RW, Ryan PB, Lambert CG. Predictors of diagnostic transition from major depressive disorder to bipolar disorder: a retrospective observational network study. *Transl Psychiatry*. 2021 Dec 20;11(1):642.

doi: 10.1038/s41398-021-01760-6. PMID: 34930903; PMCID: PMC8688463.

Dehghan M, Wong G, Neuberger E, Kin C, Rieder F, Park KT. Worse outcomes and higher costs of care in fibrostenotic Crohn's disease: a real-world propensity-matched analysis in the USA. *BMJ Open Gastroenterol*. 2021 Dec;8(1):e000781. doi: 10.1136/bmjgast-2021-000781. PMID: 34930755; PMCID: PMC8689124.

Deodhar A, Kruzikas D, Zhou L, Biljan A, Saffore CD. Geographic Variations in Diagnosis and Treatment of Ankylosing Spondylitis in the United States: A Real-World Study. *Rheumatol Ther*. 2022 Apr;9(2):447-463. doi: 10.1007/s40744-021-00406-9. Epub 2021 Dec 19. PMID: 34927217; PMCID: PMC8964895.

Lanz MJ, Gilbert IA, Gandhi HN, Goshi N, Tkacz JP, Lugogo NL. Demographics, Treatment Patterns, and Morbidity in Patients with Exercise-Induced Bronchoconstriction: An Administrative Claims Data Analysis. *J Asthma Allergy*. 2021 Dec 11;14:1485-1495. doi: 10.2147/JAA.S338447. PMID: 34924763; PMCID: PMC8674669.

Ahmed I, McGivern S, Beymer MR, Okunev I, Tranby EP, Frantsve-Hawley J, Tseng CH, Ramos-Gomez F. Age of First Oral Health Examination and Dental Treatment Needs of Medicaid-Enrolled Children. *JDR Clin Trans Res*. 2021 Dec 18:23800844211057793. doi: 10.1177/23800844211057793. Epub ahead of print. PMID: 34923877.

Polonsky WH, Arora R, Faurby M, Fernandes J, Liebl A. Higher Rates of Persistence and Adherence in Patients with Type 2 Diabetes Initiating Once-Weekly vs Daily Injectable Glucagon-Like Peptide-1 Receptor Agonists in US Clinical Practice (STAY Study). *Diabetes Ther.* 2022 Jan;13(1):175-187. doi: 10.1007/s13300-021-01189-6. Epub 2021 Dec 16. PMID: 34918213; PMCID: PMC8776963.

Fisher DA, Princic N, Miller-Wilson LA, Wilson K, Limburg P. Healthcare costs of colorectal cancer screening and events following colonoscopy among commercially insured average-risk adults in the United States. *Curr Med Res Opin.* 2022 Mar;38(3):427-434. doi: 10.1080/03007995.2021.2015157. Epub 2021 Dec 19. PMID: 34918589.

Subramanya V, Claxton JS, Lutsey PL, MacLehose RF, Chen LY, Chamberlain AM, Norby FL, Alonso A. Sex differences in treatment strategy and adverse outcomes among patients 75 and older with atrial fibrillation in the MarketScan database. *BMC Cardiovasc Disord.* 2021 Dec 16;21(1):598. doi: 10.1186/s12872-021-02419-2. PMID: 34915858; PMCID: PMC8679994.

Kadakia A, Brady BL, Dembek C, Williams GR, Kent JM. The incidence and economic burden of extrapyramidal symptoms in patients with schizophrenia treated with second generation antipsychotics in a Medicaid population. *J Med Econ.* 2022 Jan-Dec;25(1):87-98. doi:

10.1080/13696998.2021.2019501. PMID: 34913797.

Brown AM, Li Y, Hinkston CL, Giordano SH, Wehner MR. Use of Indoor Tanning Diagnosis Codes in Claims Data. *JID Innov.* 2021 Aug 19;1(4):100048. doi: 10.1016/j.xjidi.2021.100048. PMID: 34909745; PMCID: PMC8659372.

Tedeschi SK, Jin Y, Vine S, Lee H, Pethoe-Schramm A, Yau V, Kim SC. Giant cell arteritis treatment patterns and rates of serious infections. *Clin Exp Rheumatol.* 2022 May;40(4):826-833. doi: 10.55563/clinexprheumatol/uonz1p. Epub 2021 Dec 13. PMID: 34905480; PMCID: PMC10475312.

Setyawan J, Billmyer E, Mu F, Yarur A, Zichlin ML, Yang H, Downes N, Azimi N, Strand V. The Economic Burden of Thromboembolic Events Among Patients with Immune-Mediated Diseases. *Adv Ther.* 2022 Jan;39(1):767-778. doi: 10.1007/s12325-021-02004-1. Epub 2021 Dec 14. PMID: 34905149; PMCID: PMC8799558.

Chow W, Hardy H, Song J, Connolly N, Wu B. The burden of neuropsychiatric disorders in patients living with HIV-1 treated with antiretroviral therapies-A perspective from US Medicaid data. *Int J STD AIDS.* 2022 Mar;33(3):275-281. doi: 10.1177/09564624211052884. Epub 2021 Dec 13. PMID: 34903117.

Wiemken TL, Salas J, Morley JE, Hoft DF, Jacobs C, Scherrer JF. Comparison of rates

of dementia among older adult recipients of two, one, or no vaccinations. *J Am Geriatr Soc.* 2022 Apr;70(4):1157-1168. doi: 10.1111/jgs.17606. Epub 2021 Dec 12. PMID: 34897645; PMCID: PMC9300193.

Janson CM, Millenson ME, Okunowo O, Dai D, Christmyer Z, Tan RB, Ramesh Iyer V, Shah MJ, O'Byrne ML. Incidence of life-threatening events in children with Wolff-Parkinson-White syndrome: Analysis of a large claims database. *Heart Rhythm.* 2022 Apr;19(4):642-647. doi: 10.1016/j.hrthm.2021.12.009. Epub 2021 Dec 10. PMID: 34902591.

Worsham CM, Woo J, Zimmerman A, Bray CF, Jena AB. Association of Maternal Cervical Disease With Human Papillomavirus Vaccination Among Offspring. *JAMA Netw Open.* 2021 Dec 1;4(12):e2134566. doi: 10.1001/jamanetworkopen.2021.34566. PMID: 34902041; PMCID: PMC8669541.

Silver J, Molfino N, Bogart M, Packnett ER, McMorrow D, Wu J, Hahn B. Real-world impact of mepolizumab in patients with life-threatening asthma: US insurance claims database analysis. *Clin Ther.* 2021 Dec;43(12):2064-2073. doi: 10.1016/j.clinthera.2021.10.010. Epub 2021 Dec 7. PMID: 34893348.

Andrews AL, Brinton DL, Simpson AN. A comparison of administrative claims-based risk predictors for pediatric asthma. *Am J Manag Care.* 2021 Dec;27(12):533-537. doi: 10.37765/ajmc.2021.88792. PMID: 34889577.

Dillon J, Chen L, Melamed A, St Clair CM, Hou JY, Khoury-Collado F, Gockley A, Accordino M, Hershman DL, Wright JD. Patterns of cervical cancer screening among Medicaid beneficiaries. *BJOG.* 2022 Jun;129(7):1104-1111. doi: 10.1111/1471-0528.17050. Epub 2021 Dec 29. PMID: 34882962.

Nazzal EM, Wilson JM, Farley KX, Schwartz AM, Xerogeanes JW. Association of Preoperative Opioid Use With Complication Rates and Resource Use in Patients Undergoing Hip Arthroscopy for Femoroacetabular Impingement. *Orthop J Sports Med.* 2021 Nov 22;9(11):23259671211045954. doi: 10.1177/23259671211045954. PMID: 34881336; PMCID: PMC8647241.

Setyawan J, Mu F, Zichlin ML, Billmyer E, Downes N, Yang H, Azimi N, Strand V, Yarur A. Risk of Thromboembolic Events and Associated Healthcare Costs in Patients with Inflammatory Bowel Disease. *Adv Ther.* 2022 Jan;39(1):738-753. doi: 10.1007/s12325-021-01973-7. Epub 2021 Dec 7. PMID: 34877631; PMCID: PMC8799565.

Long MD, Cohen RD, Smith TW, DiBonaventura M, Gruben D, Bargo D, Salese L, Quirk D. Retrospective Database Analysis: Dose Escalation and Adherence in Patients Initiating Biologics for Ulcerative Colitis. *Dig Dis.* 2022;40(5):553-564. doi: 10.1159/000521299. Epub 2021 Dec 8. PMID: 34879378; PMCID: PMC9501753.

Rahman T, Sahrmann JM, Olsen MA, Nickel KB, Miller JP, Ma C, Grucza RA. Risk of Breast Cancer With Prolactin Elevating Antipsychotic Drugs: An Observational Study of US Women (Ages 18-64 Years). *J Clin Psychopharmacol*. 2022 Jan-Feb 01;42(1):7-16. doi:

10.1097/JCP.0000000000001513. PMID: 34864772; PMCID: PMC8688205.

Schweber AB, Agarunov E, Brooks C, Hur C, Gonda TA. Prevalence, Incidence, and Risk of Progression of Asymptomatic Pancreatic Cysts in Large Sample Real-world Data. *Pancreas*. 2021 Oct 1;50(9):1287-1292. doi: 10.1097/MPA.0000000000001918. PMID: 34860813.

Anderson TC, Leung JW, Harpaz R, Dooling KL. Risk of Guillain-Barré syndrome following herpes zoster, United States, 2010-2018. *Hum Vaccin Immunother*. 2021 Dec 2;17(12):5304-5310. doi: 10.1080/21645515.2021.1985890. Epub 2021 Dec 2. PMID: 34856864; PMCID: PMC8903960.

Bayer ND, Hall M, Li Y, Feinstein JA, Thomson J, Berry JG. Trends in Health Care Use and Spending for Young Children With Neurologic Impairment. *Pediatrics*. 2022 Jan 1;149(1):e2021050905. doi: 10.1542/peds.2021-050905. PMID: 34854922; PMCID: PMC8762668.

Long Y, Chen Q, Larsson H, Rzhetsky A. Observable variations in human sex ratio at birth. *PLoS Comput Biol*. 2021 Dec 2;17(12):e1009586. doi:

10.1371/journal.pcbi.1009586. PMID: 34855745; PMCID: PMC8638995.

McKinley EC, Bittner VA, Brown TM, Chen L, Colantonio LD, Exter J, Orroth KK, Reading SR, Rosenson RS, Muntner P. Factors associated with time to initiation of a PCSK9 inhibitor after hospital discharge for acute myocardial infarction. *J Clin Lipidol*. 2022 Jan-Feb;16(1):75-82. doi: 10.1016/j.jacl.2021.11.001. Epub 2021 Nov 7. PMID: 34848176.

Weaver J, Chakladar S, Mirchandani K, Liu Z. Surgical and Pharmacological Treatment Patterns in Women with Endometriosis: A Descriptive Analysis of Insurance Claims. *J Womens Health (Larchmt)*. 2022 Jul;31(7):1003-1011. doi: 10.1089/jwh.2021.0060. Epub 2021 Nov 26. PMID: 34846930.

Auerbach JM, Moghalu OI, Das R, Horns J, Campbell A, Hotaling J, Pastuszak AW. Evaluating incidence, prevalence, and treatment trends in adult men with hypogonadism in the United States. *Int J Impot Res*. 2022 Dec;34(8):762-768. doi: 10.1038/s41443-021-00471-2. Epub 2021 Nov 29. PMID: 34845356.

Kuharic M, Krugliak Cleveland N, Candela N, Carter J, Qian J, Rusibamayila N, Turpin R, Rubin D. P042 Early Versus Later Use of Vedolizumab In IBD: Patient Characteristics And Treatment Patterns In The Real World (RALEE). *Am J Gastroenterol*. 2021 Dec 1;116(Suppl 1):S11. doi: 10.14309/01.ajg.0000798768.43978.95. PMID: 37461960.

Nicholls M, Niazi F, Nelson WW, Lau E, Kurtz SM, Ong KL. Changes in prescription pain medication and intra-articular corticosteroid utilization after intra-articular bio-fermentation derived hyaluronic acid use in patients undergoing multimodal pain management. *J Med Econ*. 2022 Jan-Dec;25(1):7-13. doi: 10.1080/13696998.2021.2009710. PMID: 34842508.

Thakkar S, Gifford B, Sell H, Schepman P, Robinson R, Emir B. A Retrospective Cohort Analysis of the Impact of Osteoarthritis on Disability Leave, Workers' Compensation Claims, and Healthcare Payments. *J Occup Environ Med*. 2021 Dec 1;63(12):e883-e892. doi: 10.1097/JOM.0000000000002394. PMID: 34840321; PMCID: PMC8631163.

Kluger MD, Huang YY, Kuo JH, Kwon W, Thomas AS, Hershman DL, Schrope BA, Sugahara KN, Chabot JA, Wright JD. Perioperative and persistent opioid utilization following pancreatectomy in the United States. *HPB (Oxford)*. 2022 Jun;24(6):912-924. doi: 10.1016/j.hpb.2021.10.021. Epub 2021 Nov 10. PMID: 34815188.

Voirin N, Virlogeux V, Demont C, Kieffer A. Potential Impact of Nirsevimab on RSV Transmission and Medically Attended Lower Respiratory Tract Illness Caused by RSV: A Disease Transmission Model. *Infect Dis Ther*. 2022 Feb;11(1):277-292. doi: 10.1007/s40121-021-00566-9. Epub 2021

Nov 23. PMID: 34813073; PMCID: PMC8847469.

O'Shaugnessy F, Govindappagari S, Huang Y, Syeda SK, D'Alton ME, Wright JD, Friedman AM. Postthrombotic Syndrome and Chronic Pulmonary Embolism after Obstetric Venous Thromboembolism. *Am J Perinatol*. 2023 Jan;40(1):22-24. doi: 10.1055/s-0041-1739471. Epub 2021 Nov 22. PMID: 34808685.

Schein J, Adler LA, Childress A, Gagnon-Sanschagrin P, Davidson M, Kinkead F, Cloutier M, Guérin A, Lefebvre P. Economic burden of attention-deficit/hyperactivity disorder among adults in the United States: a societal perspective. *J Manag Care Spec Pharm*. 2022 Feb;28(2):168-179. doi: 10.18553/jmcp.2021.21290. Epub 2021 Nov 22. PMID: 34806909.

Roh YS, Huang AH, Sutaria N, Choi U, Wongvibulsin S, Choi J, Bordeaux ZA, Parthasarathy V, Deng J, Patel DP, Canner JK, Grossberg AL, Kwatra SG. Real-world comorbidities of atopic dermatitis in the US adult ambulatory population. *J Am Acad Dermatol*. 2022 Apr;86(4):835-845. doi: 10.1016/j.jaad.2021.11.014. Epub 2021 Nov 18. PMID: 34800600.

Nitecki R, Fu S, Jorgensen KA, Gray L, Lefkowitz C, Smith BD, Meyer LA, Melamed A, Giordano SH, Ramirez PT, Rauh-Hain JA. Employment disruption among women with gynecologic cancers. *Int J Gynecol Cancer*. 2022 Jan;32(1):69-78. doi: 10.1136/ijgc-2021-002949. Epub 2021 Nov 16. PMID: 34785522; PMCID: PMC9035315.

Scherrer JF, Salas J, Wiemken TL, Hoft DF, Jacobs C, Morley JE. Impact of herpes zoster vaccination on incident dementia: A retrospective study in two patient cohorts. *PLoS One*. 2021 Nov 17;16(11):e0257405. doi: 10.1371/journal.pone.0257405. PMID: 34788293; PMCID: PMC8597989.

Hariprasad SM, Joseph G, Gagnon-Sanschagrin P, Serra E, Bhattacharyya S, Bédard J, Guérin A, Albin TA. Healthcare costs among patients with macular oedema associated with non-infectious uveitis: a US commercial payer's perspective. *BMJ Open Ophthalmol*. 2021 Nov 10;6(1):e000896. doi: 10.1136/bmjophth-2021-000896. PMID: 34786486; PMCID: PMC8587681.

Miller E, Kerr MSD, Roberts GJ, Nabutovsky Y, Wright E. Flash CGM associated with event reduction in nonintensive diabetes therapy. *Am J Manag Care*. 2021 Nov 1;27(11):e372-e377. doi: 10.37765/ajmc.2021.88780. PMID: 34784145.

Corren J, Silver J, Molino NA, Bogart M, Packnett E, McMorro D, Wu J, Hahn B. A real-world study of inhaled corticosteroid use in patients with severe eosinophilic asthma treated with mepolizumab. *Ann Allergy Asthma Immunol*. 2022 Feb;128(2):184-192.e1. doi: 10.1016/j.anai.2021.11.005. Epub 2021 Nov 10. PMID: 34774737.

Albright BB, Chen L, Havrilesky LJ, Moss HA, Wright JD. Out-of-network bills among privately insured patients undergoing

hysterectomy. *Am J Obstet Gynecol*. 2022 Apr;226(4):543.e1-543.e45. doi: 10.1016/j.ajog.2021.11.027. Epub 2021 Nov 11. PMID: 34774823; PMCID: PMC10150992.

Tranby EP, Frantsve-Hawley J, Minter-Jordan M, Thommes J, Jacob M, Monopoli M, Okunev I, Boynes SG. A cross-sectional analysis of oral health care spending over the life span in commercial- and Medicaid-insured populations. *J Am Dent Assoc*. 2022 Feb;153(2):101-109.e11. doi: 10.1016/j.adaj.2021.07.028. Epub 2021 Nov 10. PMID: 34772476.

Gladys TE, Maczuga S, Flamm A. Characterizing demographics and cost of care for dyshidrotic eczema. *Contact Dermatitis*. 2022 Feb;86(2):107-112. doi: 10.1111/cod.14007. Epub 2021 Dec 5. PMID: 34773262.

Chandler JM, Chan KS, Han R, Chao SD. Mental health outcomes in pediatric trauma patients: A 10 year real world analysis using a large database approach. *J Pediatr Surg*. 2022 Feb;57(2):291-296. doi: 10.1016/j.jpedsurg.2021.09.049. Epub 2021 Oct 8. PMID: 34772514.

Cooke IJ, Patil D, Bobrek K, Narayan V, Master V, Rapaport M, Filson CP, Joshi SS. Longitudinal impact of bladder cancer diagnosis on common psychiatric disorders. *Cancer Med*. 2021 Dec;10(23):8412-8420. doi: 10.1002/cam4.4346. Epub 2021 Nov 12. PMID: 34773389; PMCID: PMC8633250.

Long C, Zhang G, Sanghavi KK, Qiu C, Means KR Jr, Giladi AM. Surprise Out-of-Network Bills for Hand and Upper Extremity Trauma Patients. *J Hand Surg Am*. 2022 Dec;47(12):1230.e1-1230.e17. doi: 10.1016/j.jhsa.2021.09.015. Epub 2021 Nov 8. PMID: 34763971.

Broggi MS, Oladeji PO, Whittingslow DC, Wilson JM, Bradbury TL, Erens GA, Guild GN. Rural Hospital Designation Is Associated With Increased Complications and Resource Utilization After Primary Total Hip Arthroplasty: A Matched Case-Control Study. *J Arthroplasty*. 2022 Mar;37(3):513-517. doi: 10.1016/j.arth.2021.11.006. Epub 2021 Nov 9. PMID: 34767910.

Tawfik B, Ray D, Moynihan M, Princic N. Costs of treatment change following first-line somatostatin analog monotherapy among patients with neuroendocrine tumors. *J Med Econ*. 2021 Jan-Dec;24(1):1337-1345. doi: 10.1080/13696998.2021.2005374. PMID: 34763589.

Pilon D, Karkare S, Zhdanava M, Sheehan JJ, Côté-Sergent A, Shah A, Lopena OJ, Lefebvre P, Joshi K, Citrome L. Health care resource use, short-term disability days, and costs associated with states of persistence on antidepressant lines of therapy. *J Med Econ*. 2021 Jan-Dec;24(1):1299-1308. doi: 10.1080/13696998.2021.2003673. PMID: 34763603.

Foster SA, Hoyt M, Ye W, Mason O, Ford JH. Direct cost and healthcare resource utilization of patients with migraine before treatment initiation with calcitonin gene-related peptide monoclonal antibodies by the number of prior preventive migraine medication classes. *Curr Med Res Opin*. 2022 May;38(5):653-660. doi: 10.1080/03007995.2021.2003127. Epub 2021 Dec 2. PMID: 34761723.

Paller AS, Mina-Osorio P, Vekeman F, Boklage S, Mallya UG, Ganguli S, Kaur M, Robitaille MN, Siegfried EC. Prevalence of type 2 inflammatory diseases in pediatric patients with atopic dermatitis: Real-world evidence. *J Am Acad Dermatol*. 2022 Apr;86(4):758-765. doi: 10.1016/j.jaad.2021.10.038. Epub 2021 Oct 28. PMID: 34756933.

Feldman SR, Zhang J, Martinez DJ, Lopez-Gonzalez L, Hoit Marchlewicz E, Shradly G, Zhao Y, Mendelsohn AM. Real-world biologic and apremilast treatment patterns in patients with psoriasis and psoriatic arthritis. *Dermatol Online J*. 2021 Sep 15;27(9). doi: 10.5070/D327955134. PMID: 34755976.

Swanick CW, Jiang J, Maldonado JA, Lei X, Shih YT, Caudle AS, Baumann DP, Giordano SH, Shaitelman SF, Shirvani SM, Smith BD. Differences in Time Burden across Local Therapy Strategies for Early-stage Breast Cancer. *Plast Reconstr Surg Glob Open*. 2021 Nov 4;9(11):e3904. doi: 10.1097/GOX.0000000000003904. PMID: 34745797; PMCID: PMC8568370.

Wu AC, McMahon PM, Welch E, McMahonill-Walraven CN, Jamal-Allial A, Gallagher M, Zhang T, Draper C, Kline AM, Koerner L, Brown JS, Van Dyke MK. Characteristics of new adult users of mepolizumab with asthma in the USA. *BMJ Open Respir Res*. 2021 Nov;8(1):e001003. doi: 10.1136/bmjresp-2021-001003. PMID: 34732517; PMCID: PMC8572414.

Teeple A, Sah J, Mallampati R, Adams C, Waters D, Muser E. Persistence, Dosing, and Other Treatment Patterns Among Crohn's Disease Patients Initiating Biologics in United States. *Crohns Colitis* 360. 2021 Nov 5;3(4):otab076. doi: 10.1093/crocol/otab076. PMID: 36777272; PMCID: PMC9802353.

Fisher DA, Princic N, Miller-Wilson LA, Wilson K, DeYoung K, Ozbay AB, Limburg P. Adherence to fecal immunochemical test screening among adults at average risk for colorectal cancer. *Int J Colorectal Dis*. 2022 Mar;37(3):719-721. doi: 10.1007/s00384-021-04055-w. Epub 2021 Nov 2. PMID: 34729622; PMCID: PMC8885483.

De Nadai AS, Quast T, Little TB, Westerberg K, Patyk KC, Monahan MF, Storch EA, Gregory ST. Intervention cost-effectiveness for pediatric anxiety and OCD: A systematic review and integrated database model. *J Affect Disord*. 2022 Feb 1;298(Pt A):110-118. doi: 10.1016/j.jad.2021.10.127. Epub 2021 Oct 30. PMID: 34728286.

Ba DM, McCall-Hosenfeld JS, Ssentongo P, Chinchilli VM, Agbese E, Liu G, Leslie DL,

Du P. Cervical cancer screening varies by HPV vaccination status among a National Cohort of privately insured young women in the United States 2006-2016. *Medicine (Baltimore)*. 2021 Oct 15;100(41):e27457. doi: 10.1097/MD.00000000000027457. PMID: 34731120; PMCID: PMC8519251.

Arend RC, O'Malley DM, Banerjee S, McLaurin K, Davidson R, Long GH. Utilization of Poly(ADP-Ribose) Polymerase Inhibitors in Ovarian Cancer: A Retrospective Cohort Study of US Healthcare Claims Data. *Adv Ther*. 2022 Jan;39(1):328-345. doi: 10.1007/s12325-021-01959-5. Epub 2021 Nov 2. PMID: 34727316; PMCID: PMC8799547.

Lai LY, Kaufman SR, Oerline MK, Ryan AM, Ellimoottil C, Caram MEV, Shahinian VB, Hollenbeck BK. Commercial Prices for Prostatectomy and Treatment among Younger, Privately Insured Men with Prostate Cancer. *Urol Pract*. 2021 Nov;8(6):611-618. doi: 10.1097/UPJ.0000000000000252. Epub 2021 Aug 18. PMID: 37145503.

Premkumar A, Zhong H, Krell E, Liu J, Memtsoudis S, Poeran J, Della Valle AG. The Opioid Epidemic in the United States: Where Do Patients Requiring Elective Arthroplasty Stand? *J Am Acad Orthop Surg*. 2022 Jan 15;30(2):e213-e222. doi: 10.5435/JAAOS-D-21-00360. PMID: 34714784.

Varady NH, Abraham P, Kucharik MP, Eberlin CT, Freccero D, Smith EL, Martin SD. No Association Between Intrauterine

Contraceptive Devices and Musculoskeletal Hip Joint Pain. *Arthrosc Sports Med Rehabil*. 2021 Aug 20;3(5):e1407-e1412. doi: 10.1016/j.asmr.2021.07.003. PMID: 34712979; PMCID: PMC8527253.

Xu C, Teeple A, Wu B, Fitzgerald T, Feldman SR. Drug Adherence and Persistence of Patients with Moderate to Severe Psoriasis Treated with Biologic Medications in a US Commercially Insured Population. *Dermatology*. 2022;238(3):438-447. doi: 10.1159/000519176. Epub 2021 Oct 28. PMID: 34710876.

Maksabedian Hernandez EJ, Tingzon I, Ampil L, Tiu J. Identifying chronic disease patients using predictive algorithms in pharmacy administrative claims: an application in rheumatoid arthritis. *J Med Econ*. 2021 Jan-Dec;24(1):1272-1279. doi: 10.1080/13696998.2021.1999132. PMID: 34704871.

Kong AM, Winer IH, Zimmerman NM, Diakun D, Bloomfield A, Gonzales T, Fergie J, Goldstein M, Krilov LR. Increasing Rates of RSV Hospitalization among Preterm Infants: A Decade of Data. *Am J Perinatol*. 2021 Oct 26. doi: 10.1055/s-0041-1736581. Epub ahead of print. PMID: 34704241.

Jagannath S, Joseph N, He J, Crivera C, Fu AZ, Garret A, Shah N. Healthcare Costs Incurred by Patients with Multiple Myeloma Following Triple Class Exposure (TCE) in the US. *Oncol Ther*. 2021 Dec;9(2):659-669. doi: 10.1007/s40487-021-00175-z. Epub

2021 Oct 25. PMID: 34694578; PMCID: PMC8593112.

Butler LM, Houghton R, Abraham A, Vassilaki M, Durán-Pacheco G. Comorbidity Trajectories Associated With Alzheimer's Disease: A Matched Case-Control Study in a United States Claims Database. *Front Neurosci*. 2021 Oct 8;15:749305. doi: 10.3389/fnins.2021.749305. PMID: 34690684; PMCID: PMC8531650.

Wadhwa H, Varshneya K, Stienen MN, Veeravagu A. Do Epidural Steroid Injections Affect Outcomes and Costs in Cervical Degenerative Disease? A Retrospective MarketScan Database Analysis. *Global Spine J*. 2023 Sep;13(7):1812-1820. doi: 10.1177/21925682211050320. Epub 2021 Oct 22. PMID: 34686085; PMCID: PMC10556907.

Peery AF, Crockett SD, Murphy CC, Jensen ET, Kim HP, Egberg MD, Lund JL, Moon AM, Pate V, Barnes EL, Schlusser CL, Baron TH, Shaheen NJ, Sandler RS. Burden and Cost of Gastrointestinal, Liver, and Pancreatic Diseases in the United States: Update 2021. *Gastroenterology*. 2022 Feb;162(2):621-644. doi: 10.1053/j.gastro.2021.10.017. Epub 2021 Oct 19. PMID: 34678215.

Black CM, Vesco KK, Mehta V, Ohman-Strickland P, Demissie K, Schneider D. Costs of Severe Maternal Morbidity in U.S. Commercially Insured and Medicaid Populations: An Updated Analysis.

Womens Health Rep (New Rochelle). 2021 Sep 27;2(1):443-451. doi: 10.1089/whr.2021.0026. PMID: 34671765; PMCID: PMC8524749.

Trinh P, Rochlin D, Sheckter C, Moore W, Fox P, Curtin C. Use of Hand Therapy After Distal Radius Fracture: A National Perspective. *J Hand Surg Am*. 2022 Nov;47(11):1117.e1-1117.e9. doi: 10.1016/j.jhsa.2021.08.018. Epub 2021 Oct 16. PMID: 34666936.

Wehner MR, Niu J, Wheless L, Baker LX, Cohen OG, Margolis DJ, Giordano SH, Shin TM. Risks of Multiple Skin Cancers in Organ Transplant Recipients: A Cohort Study in 2 Administrative Data Sets. *JAMA Dermatol*. 2021 Dec 1;157(12):1447-1455. doi: 10.1001/jamadermatol.2021.4148. PMID: 34668933; PMCID: PMC8529524.

Henderson J, Wilkinson K, Hofer TP, Holleman R, Klamerus ML, Bhatia RS, Kerr EA. Agreement among measures examining low-value imaging for low back pain. *Am J Manag Care*. 2021 Oct;27(10):438-444. doi: 10.37765/ajmc.2021.88762. PMID: 34668673.

Bonafede M, Anaissie E, Evans K, Itzler R. Healthcare utilization and cost of cancer-related care prior to allogeneic hematopoietic cell transplantation for hematologic malignancies in the US: a retrospective real-world analysis. *BMC Health Serv Res*. 2021 Oct 20;21(1):1125. doi: 10.1186/s12913-021-07150-4. PMID: 34666775; PMCID: PMC8527718.

Ramsey ML, Gokun Y, Sobotka LA, Wellner MR, Porter K, Kirkby SE, Li SS, Papachristou GI, Krishna SG, Stanich PP, Hart PA, Conwell DL, Lara LF. Cystic Fibrosis Transmembrane Conductance Regulator Modulator Use Is Associated With Reduced Pancreatitis Hospitalizations in Patients With Cystic Fibrosis. *Am J Gastroenterol*. 2021 Dec 1;116(12):2446-2454. doi: 10.14309/ajg.0000000000001527. PMID: 34665155; PMCID: PMC8900539.

Albogami Y, Wei YJ, Winterstein AG. Generalizability and accuracy of IBM MarketScan health risk assessment instrument data for augmentation of commercial claims data. *Pharmacoepidemiol Drug Saf*. 2022 Jan;31(1):100-104. doi: 10.1002/pds.5371. Epub 2021 Oct 21. PMID: 34657354.

Sharma M, John K, Dietz N, Jain N, Madrigal FC, Wang D, Ugiliweneza B, Drazin D, Boakye M. Impact of preoperative treatment of osteoporosis on re-operations, complications and health care utilization in patients undergoing thoracolumbar spine fusions. A 5-year national database analysis. *J Clin Neurosci*. 2021 Nov;93:122-129. doi: 10.1016/j.jocn.2021.09.024. Epub 2021 Sep 17. PMID: 34656235.

Gandhi SK, Reiffel JA, Boiron R, Wieloch M. Risk of Major Bleeding in Patients With Atrial Fibrillation Taking Dronedarone in Combination With a Direct Acting Oral Anticoagulant (From a U.S. Claims Database). *Am J Cardiol*. 2021 Nov

15;159:79-86. doi:

10.1016/j.amjcard.2021.08.015. PMID:
34656316.

Varshneya K, Bhattacharjya A, Jokhai RT, Fatemi P, Medress ZA, Stienen MN, Ho AL, Ratliff JK, Veeravagu A. The impact of osteoporosis on adult deformity surgery outcomes in Medicare patients. *Eur Spine J*. 2022 Jan;31(1):88-94. doi: 10.1007/s00586-021-06985-z. Epub 2021 Oct 16. PMID: 34655336.

Blauvelt A, Shi N, Burge R, Somani N, Ridenour TL, Zhu B, Atiya B, Lew CR, Zimmerman NM, Murage MJ. Comparison of Real-World Treatment Patterns Among Biologic-Experienced Patients with Psoriasis Treated with Ixekizumab or Secukinumab Over 18 Months. *Dermatol Ther (Heidelb)*. 2021 Dec;11(6):2133-2145. doi: 10.1007/s13555-021-00627-4. Epub 2021 Oct 15. PMID: 34652590; PMCID: PMC8611169.

Li G, Keenan A, Daskiran M, Mathews M, Nuamah I, Orman C, Joshi K, Singh A, Godet A, Pungor K, Gopal S. Relapse and Treatment Adherence in Patients with Schizophrenia Switching from Paliperidone Palmitate Once-Monthly to Three-Monthly Formulation: A Retrospective Health Claims Database Analysis. *Patient Prefer Adherence*. 2021 Oct 2;15:2239-2248. doi: 10.2147/PPA.S322880. PMID: 34629867; PMCID: PMC8495229.

Bernardo J, Keiser A, Aucott S, Yanek LR, Johnson CT, Donohue P. Early Readmission following NICU Discharges

among a National Sample: Associated Factors and Spending. *Am J Perinatol*. 2023 Oct;40(13):1437-1445. doi: 10.1055/s-0041-1736286. Epub 2021 Oct 11. PMID: 34634829.

Siddiqui J, Samuel SK, Hayward B, Wirka KA, Deering KL, Harshaw Q, Phillips A, Harbour M. HIV-associated wasting prevalence in the era of modern antiretroviral therapy. *AIDS*. 2022 Jan 1;36(1):127-135. doi: 10.1097/QAD.0000000000003096. PMID: 34628440; PMCID: PMC8654247.

Meyers J, Hoog M, Mody R, Yu M, Davis K. The Health Care Resource Utilization and Costs Among Patients With Type 2 Diabetes and Either Cardiovascular Disease or Cardiovascular Risk Factors An Analysis of a US Health Insurance Database. *Clin Ther*. 2021 Nov;43(11):1827-1842. doi: 10.1016/j.clinthera.2021.09.003. Epub 2021 Oct 6. PMID: 34625283.

Lutsey PL, Walker RF, MacLehose RF, Norby FL, Evensen LH, Alonso A, Zakai NA. Inpatient Versus Outpatient Acute Venous Thromboembolism Management: Trends and Postacute Healthcare Utilization From 2011 to 2018. *J Am Heart Assoc*. 2021 Oct 19;10(20):e020428. doi: 10.1161/JAHA.120.020428. Epub 2021 Oct 8. PMID: 34622678; PMCID: PMC8751864.

Nasseh K, Fosse C, Vujicic M. Comparative analysis of dental procedure mix in public and private dental benefits programs. *J Am Dent Assoc*. 2022 Jan;153(1):59-66. doi:

10.1016/j.adaj.2021.07.024. Epub 2021 Oct 3. PMID: 34615607.

Carey ET, Moore KJ, Young JC, Bhattacharya M, Schiff LD, Louie MY, Park J, Strassle PD. Association of Preoperative Depression and Anxiety With Long-term Opioid Use After Hysterectomy for Benign Indications. *Obstet Gynecol*. 2021 Nov 1;138(5):715-724. doi: 10.1097/AOG.0000000000004568. PMID: 34619742; PMCID: PMC8547203.

Zaorsky NG, Khunsriraksakul C, Acri SL, Liu DJ, Ba DM, Lin JL, Liu G, Segel JE, Drabick JJ, Mackley HB, Leslie DL. Medical Service Use and Charges for Cancer Care in 2018 for Privately Insured Patients Younger Than 65 Years in the US. *JAMA Netw Open*. 2021 Oct 1;4(10):e2127784. doi: 10.1001/jamanetworkopen.2021.27784. PMID: 34613403; PMCID: PMC8495533.

Venkatesh KK, Chiang CW, Castillo WC, Battarbee AN, Donneyong M, Harper LM, Costantine M, Saade G, Werner EF, Boggess KA, Landon MB. Changing patterns in medication prescription for gestational diabetes during a time of guideline change in the USA: a cross-sectional study. *BJOG*. 2022 Feb;129(3):473-483. doi: 10.1111/1471-0528.16960. Epub 2021 Nov 8. PMID: 34605130; PMCID: PMC8752504.

Ogdie A, Rozycki M, Arndt T, Shi C, Kim N, Hur P. Longitudinal analysis of the patient pathways to diagnosis of psoriatic arthritis. *Arthritis Res Ther*. 2021 Oct 1;23(1):252. doi:

10.1186/s13075-021-02628-2. PMID: 34598717; PMCID: PMC8485539.

Dunphy C, Zhang K, Guy GP Jr, Jones CM. Naloxone dispensing among the commercially insured population in the United States from 2015 to 2018. *Prev Med*. 2021 Dec;153:106820. doi: 10.1016/j.ypmed.2021.106820. Epub 2021 Sep 29. PMID: 34599923; PMCID: PMC9086913.

Zheng F, Lavin J, Sprafka JM. Patient out-of-pocket costs for suspicious pulmonary nodule biopsy in lung cancer patients. *J Med Econ*. 2021 Jan-Dec;24(1):1173-1177. doi: 10.1080/13696998.2021.1988282. PMID: 34596001.

Klimchak AC, Szabo SM, Qian C, Popoff E, Iannaccone S, Gooch KL. Characterizing demographics, comorbidities, and costs of care among populations with Duchenne muscular dystrophy with Medicaid and commercial coverage. *J Manag Care Spec Pharm*. 2021 Oct;27(10):1426-1437. doi: 10.18553/jmcp.2021.27.10.1426. PMID: 34595954; PMCID: PMC10391028.

Jiang X, Vouri SM, Diaby V, Lo-Ciganic W, Parker R, Park H. Health care utilization and costs associated with direct-acting antivirals for patients with substance use disorders and chronic hepatitis C. *J Manag Care Spec Pharm*. 2021 Oct;27(10):1388-1402. doi: 10.18553/jmcp.2021.27.10.1388. PMID: 34595949; PMCID: PMC8968723.

Wang A, Wang S, Owens CD, Vora JB, Diamond MP. Health Care Costs and

Treatment Patterns Associated with Uterine Fibroids and Heavy Menstrual Bleeding: A Claims Analysis. *J Womens Health (Larchmt)*. 2022 Jun;31(6):856-863. doi: 10.1089/jwh.2020.8983. Epub 2021 Sep 30. PMID: 34591695; PMCID: PMC9245789.

Moll K, Wong HL, Fingar K, Hobbi S, Sheng M, Burrell TA, Eckert LO, Munoz FM, Baer B, Shoaibi A, Anderson S. Validating Claims-Based Algorithms Determining Pregnancy Outcomes and Gestational Age Using a Linked Claims-Electronic Medical Record Database. *Drug Saf*. 2021 Nov;44(11):1151-1164. doi: 10.1007/s40264-021-01113-8. Epub 2021 Sep 30. PMID: 34591264; PMCID: PMC8481319.

Gibbons RD, Hur K, Quinn PD. Concomitant opioid and benzodiazepine use and risk of suicide attempt and intentional self-harm: Pharmacoepidemiologic study. *Drug Alcohol Depend*. 2021 Nov 1;228:109046. doi: 10.1016/j.drugalcdep.2021.109046. Epub 2021 Sep 20. PMID: 34592702; PMCID: PMC8595792.

Szmulewicz AG, Bateman BT, Levin R, Huybrechts KF. Risk of Overdose Associated With Co-prescription of Antipsychotics and Opioids: A Population-Based Cohort Study. *Schizophr Bull*. 2022 Mar 1;48(2):405-413. doi: 10.1093/schbul/sbab116. PMID: 34582543; PMCID: PMC8886580.

O'Byrne ML, Faerber JA, Katcoff H, Huang J, Edelson JB, Finkelstein DM, Lemley BA,

Janson CM, Avitabile CM, Glatz AC, Goldberg DJ. Prevalent pharmacotherapy of US Fontan survivors: A study utilizing data from the MarketScan Commercial and Medicaid claims databases. *Am Heart J*. 2022 Jan;243:158-166. doi: 10.1016/j.ahj.2021.09.012. Epub 2021 Sep 25. PMID: 34582777; PMCID: PMC8819625.

Coleman CI, Bunz TJ, Ashton V. Adherence and persistence to rivaroxaban in non-valvular atrial fibrillation patients receiving 30- or 90-day supply prescription fills. *Curr Med Res Opin*. 2022 Jan;38(1):19-26. doi: 10.1080/03007995.2021.1985987. Epub 2021 Oct 12. PMID: 34581258.

Abdelwahab M, Marques S, Previdelli I, Capasso R. Perioperative Antibiotic Use in Sleep Surgery: Clinical Relevance. *Otolaryngol Head Neck Surg*. 2022 May;166(5):993-1002. doi: 10.1177/01945998211048745. Epub 2021 Sep 28. PMID: 34582286.

Warren DK, Peacock KM, Nickel KB, Fraser VJ, Olsen MA; CDC Prevention Epicenter Program. Postdischarge prophylactic antibiotics following mastectomy with and without breast reconstruction. *Infect Control Hosp Epidemiol*. 2022 Oct;43(10):1382-1388. doi: 10.1017/ice.2021.400. Epub 2021 Sep 27. PMID: 34569458; PMCID: PMC8957624.

Ogdie A, Matthias W, Thielen RJ, Chin D, Saffore CD. Racial Differences in Prevalence and Treatment for Psoriatic Arthritis and Ankylosing Spondylitis by Insurance Coverage in the USA.

Rheumatol Ther. 2021 Dec;8(4):1725-1739. doi: 10.1007/s40744-021-00370-4. Epub 2021 Sep 25. PMID: 34564835; PMCID: PMC8475338.

Rustgi VK, Gupta K, Tait C, Bhurwal A, Kabaria S, Catalano C, Li Y, Minacapelli CD. Wilson's Disease: An Analysis of Health Care Use and Cost Burden of Commercially Insured Adults in the United States. Hepatol Commun. 2022 Feb;6(2):389-398. doi: 10.1002/hep4.1812. Epub 2021 Sep 2. PMID: 34559472; PMCID: PMC8793990.

DeFrancesco CJ, Wilson L, Lebrun DG, Memtsoudis SG, Fabricant PD. Pediatric Tibial Spine Fractures: Exploring Case Burden by Age and Sex. Orthop J Sports Med. 2021 Sep 16;9(9):23259671211027237. doi: 10.1177/23259671211027237. PMID: 34552990; PMCID: PMC8450686.

Murage MJ, Princic N, Park J, Malatestinic W, Zhu B, Atiya B, Kern SA, Stenger KB, Sprabery AT, Ogdie A. Real-World Treatment Patterns and Healthcare Costs in Patients with Psoriatic Arthritis Treated with Ixekizumab: A Retrospective Study. ACR Open Rheumatol. 2021 Dec;3(12):879-887. doi: 10.1002/acr2.11347. Epub 2021 Sep 22. PMID: 34550647; PMCID: PMC8672175.

Curtis JR, Winthrop K, Bohn RL, Suruki R, Siegel S, Stark JL, Xie F, Yun H, Chen L, Deodhar A. The Annual Diagnostic Prevalence of Ankylosing Spondylitis and Axial Spondyloarthritis in the United States Using Medicare and MarketScan

Databases. ACR Open Rheumatol. 2021 Nov;3(11):743-752. doi: 10.1002/acr2.11316. Epub 2021 Sep 22. PMID: 34550648; PMCID: PMC8593814.

Tank A, Hughey R, Ward RP, Nagele P, Rubin DS. Evaluation of Appropriate Use of Preoperative Echocardiography before Major Abdominal Surgery: A Retrospective Cohort Study. Anesthesiology. 2021 Nov 1;135(5):854-863. doi: 10.1097/ALN.0000000000003984. PMID: 34543408; PMCID: PMC8511132.

Saxena K, Marden JR, Carias C, Bhatti A, Patterson-Lomba O, Gomez-Lievano A, Yao L, Chen YT. Impact of the COVID-19 pandemic on adolescent vaccinations: projected time to reverse deficits in routine adolescent vaccination in the United States. Curr Med Res Opin. 2021 Dec;37(12):2077-2087. doi: 10.1080/03007995.2021.1981842. Epub 2021 Oct 4. PMID: 34538163.

Payne AB, Adamkiewicz TV, Grosse SD, Steffens A, Shay DK, Reed C, Schieve LA. Influenza vaccination rates and hospitalizations among Medicaid enrollees with and without sickle cell disease, 2009-2015. Pediatr Blood Cancer. 2021 Dec;68(12):e29351. doi: 10.1002/pbc.29351. Epub 2021 Sep 20. PMID: 34542932; PMCID: PMC10578616.

Zink A, Rose S. Identifying undercompensated groups defined by multiple attributes in risk adjustment. BMJ Health Care Inform. 2021 Sep;28(1):e100414. doi: 10.1136/bmjhci-

2021-100414. PMID: 34535447; PMCID: PMC8451283.

Chandler D, Szekely C, Aggarwal S, Cyprien L, Bensink M. Migraine Characteristics, Comorbidities, Healthcare Resource Utilization, and Associated Costs of Early Users of Erenumab in the USA: A Retrospective Cohort Study Using Administrative Claims Data. *Pain Ther.* 2021 Dec;10(2):1551-1566. doi: 10.1007/s40122-021-00319-z. Epub 2021 Sep 17. Erratum in: *Pain Ther.* 2023 Jun;12(3):889. PMID: 34533779; PMCID: PMC8586283.

Binder AM, Armstrong PA. Patient characteristics, treatment patterns, and outcomes of Rickettsial diseases among a commercially insured population in the United States, 2005-2017. *Sci Rep.* 2021 Sep 15;11(1):18382. doi: 10.1038/s41598-021-96463-9. PMID: 34526545; PMCID: PMC8443668.

Chen G, Pendarla V, Null KD, Cazzetta SE, Khan QR, Schwartz DA. Health Care Costs and Resource Utilization Among Patients With Crohn's Disease With and Without Perianal Fistula. *Inflamm Bowel Dis.* 2022 Jun 3;28(6):870-877. doi: 10.1093/ibd/izab198. PMID: 34525184; PMCID: PMC9165558.

Sumner KM, Ehlinger A, Georgiou ME, Wurst KE. Development and evaluation of standardized pregnancy identification and trimester distribution algorithms in U.S. IBM MarketScan® Commercial and Medicaid data. *Birth Defects Res.* 2021 Nov 15;113(19):1357-1367. doi:

10.1002/bdr2.1954. Epub 2021 Sep 15. PMID: 34523818.

Miller AC, Koeneman SH, Arakkal AT, Cavanaugh JE, Polgreen PM. Incidence, Duration, and Risk Factors Associated With Missed Opportunities to Diagnose Herpes Simplex Encephalitis: A Population-Based Longitudinal Study. *Open Forum Infect Dis.* 2021 Jul 26;8(9):ofab400. doi: 10.1093/ofid/ofab400. PMID: 34514018; PMCID: PMC8415533.

Kaur J, Koltsov JCB, Kwong JW, Cheng I, Vorhies JS. Does Navigation Make Spinal Fusion for Adolescent Idiopathic Scoliosis Safer? Insights From a National Database. *Spine (Phila Pa 1976).* 2021 Oct 1;46(19):E1049-E1057. doi: 10.1097/BRS.0000000000004037. PMID: 34517402.

Bergman M, Saffore CD, Kim KJ, Patel PA, Garg V, Xuan S, Naik HB. Healthcare Resource Use in Patients with Immune-Mediated Conditions Treated with Targeted Immunomodulators During COVID-19 Pandemic: A Retrospective Claims Analysis. *Adv Ther.* 2021 Oct;38(10):5302-5316. doi: 10.1007/s12325-021-01906-4. Epub 2021 Sep 13. PMID: 34515976; PMCID: PMC8436009.

Alonso A, Norby FL, MacLehose RF, Zakai NA, Walker RF, Adam TJ, Lutsey PL. Claims-Based Score for the Prediction of Bleeding in a Contemporary Cohort of Patients Receiving Oral Anticoagulation for Venous Thromboembolism. *J Am Heart Assoc.* 2021 Sep 21;10(18):e021227. doi:

10.1161/JAHA.121.021227. Epub 2021 Sep 13. PMID: 34514806; PMCID: PMC8649528.

Soo RA, Seto T, Gray JE, Thiel E, Taylor A, Sawyer W, Karimi P, Marchlewicz E, Brouillette M. Treatment Patterns in Patients with Locally Advanced or Metastatic Non-Small-Cell Lung Cancer Treated with Epidermal Growth Factor Receptor-Tyrosine Kinase Inhibitors: Analysis of US Insurance Claims Databases. *Drugs Real World Outcomes*. 2022 Mar;9(1):31-41. doi: 10.1007/s40801-021-00272-5. Epub 2021 Sep 12. PMID: 34510401; PMCID: PMC8844326.

Greenfield PT, Spencer CC, Dawes A, Wagner ER, Gottschalk MB, Daly CA. The Preoperative Cost of Carpal Tunnel Syndrome. *J Hand Surg Am*. 2022 Aug;47(8):752-761.e1. doi: 10.1016/j.jhsa.2021.07.027. Epub 2021 Sep 8. PMID: 34509312.

Moss HA, Chen L, Hershman DL, Davidson B, Wright JD. Adherence to PARP inhibitor therapy among women with ovarian cancer. *Gynecol Oncol*. 2021 Nov;163(2):262-268. doi: 10.1016/j.ygyno.2021.08.025. Epub 2021 Sep 9. PMID: 34509297.

Kulkarni AA, Rubin N, Tholkes A, Shah S, Ryan CJ, Lutsey PL, Prizment A, Rao A. Risk for stroke and myocardial infarction with abiraterone versus enzalutamide in metastatic prostate cancer patients. *ESMO Open*. 2021 Oct;6(5):100261. doi: 10.1016/j.esmoop.2021.100261. Epub 2021

Sep 9. PMID: 34509804; PMCID: PMC8437777.

Qin J, Shahangian S, Saraiya M, Holt H, Gagnon M, Sawaya GF. Trends in the use of cervical cancer screening tests in a large medical claims database, United States, 2013-2019. *Gynecol Oncol*. 2021 Nov;163(2):378-384. doi: 10.1016/j.ygyno.2021.08.023. Epub 2021 Sep 8. PMID: 34507826; PMCID: PMC8585712.

Moll K, Wong HL, Fingar K, Zhou CK, Lu M, Hu M, Hobbi S, Burrell T, Baer B, Simard J, Obidi J, Chillarige Y, MaCurdy T, Anderson S, Shoaibi A. Vaccine exposure during pregnancy among privately and publicly insured women in the United States, 2016-2018. *Vaccine*. 2021 Oct 1;39(41):6095-6103. doi: 10.1016/j.vaccine.2021.08.091. Epub 2021 Sep 7. PMID: 34507857.

Kirchgesner J, Desai RJ, Schneeweiss MC, Beaugerie L, Kim SC, Schneeweiss S. Emulation of a randomized controlled trial in ulcerative colitis with US and French claims data: Infliximab with thiopurines compared to infliximab monotherapy. *Pharmacoepidemiol Drug Saf*. 2022 Feb;31(2):167-175. doi: 10.1002/pds.5356. Epub 2021 Sep 26. PMID: 34498314.

Zheng B, Soares de Moura C, Machado M, Pineau CA, Curtis JR, Vinet E, Bernatsky S. Association between chronic obstructive pulmonary disease, smoking, and interstitial lung disease onset in rheumatoid arthritis. *Clin Exp Rheumatol*. 2022 Jul;40(7):1280-1284. doi:

10.55563/clinexprheumatol/i9au1r. Epub 2021 Sep 7. PMID: 34494959.

Jain SS, Li SS, Xie J, Sutton MB, Fine JT, Edelberg JM, Gao W, Spertus JA, Cohen DJ. Clinical and economic burden of obstructive hypertrophic cardiomyopathy in the United States. *J Med Econ*. 2021 Jan-Dec;24(1):1115-1123. doi: 10.1080/13696998.2021.1978242. PMID: 34493144.

Prabhu VS, Bansal N, Liu Z, Finalle R, Sénécal M, Kothari S, Trowers K, Myers E. HPV vaccination uptake and administration from 2006 to 2016 in a commercially insured population of the United States. *BMC Public Health*. 2021 Sep 6;21(1):1629. doi: 10.1186/s12889-021-11664-1. PMID: 34488705; PMCID: PMC8422649.

Rollins MD, Bucher BT, Wheeler JC, Horns JJ, Paudel N, Hotaling JM. Healthcare Burden and Cost in Children with Anorectal Malformation During the First 5 Years of Life. *J Pediatr*. 2022 Jan;240:122-128.e2. doi: 10.1016/j.jpeds.2021.08.083. Epub 2021 Sep 3. PMID: 34487770.

Newman L, Vo P, Zhou L, Lopez Lopez C, Cheadle A, Olson M, Fang J. Health Care Utilization and Costs in Patients With Migraine Who Have Failed Previous Preventive Treatments. *Neurol Clin Pract*. 2021 Jun;11(3):206-215. doi: 10.1212/CPJ.0000000000001076. PMID: 34484888; PMCID: PMC8382370.

Wood AR, Ham SA, Sengupta N, Micic D. Impact of Early Video Capsule Endoscopy

on Hospitalization and Post-hospitalization Outcomes: A Propensity Score-Matching Analysis. *Dig Dis Sci*. 2022 Aug;67(8):3584-3591. doi: 10.1007/s10620-021-07239-0. Epub 2021 Sep 4. PMID: 34480709.

Campbell PJ, Axon DR, Taylor AM, Smith K, Pickering M, Black H, Warholak T, Chinthammit C. Hypertension, cholesterol and diabetes medication adherence, health care utilization and expenditure in a Medicare Supplemental sample. *Medicine (Baltimore)*. 2021 Sep 3;100(35):e27143. doi: 10.1097/MD.00000000000027143. PMID: 34477169; PMCID: PMC8416010.

Fisher DA, Princic N, Miller-Wilson LA, Wilson K, Fendrick AM, Limburg P. Utilization of a Colorectal Cancer Screening Test Among Individuals With Average Risk. *JAMA Netw Open*. 2021 Sep 1;4(9):e2122269. doi: 10.1001/jamanetworkopen.2021.22269. PMID: 34473259; PMCID: PMC8414191.

Kin C, Chou L, Safer DL, Morris A, Ding Q, Trickey A, Girod S. Opioid use among patients with pain syndromes commonly seeking surgical consultation: A retrospective cohort. *Ann Med Surg (Lond)*. 2021 Aug 11;69:102704. doi: 10.1016/j.amsu.2021.102704. PMID: 34466218; PMCID: PMC8384768.

Hess LM, Wong-Jacobson SH, Peterson PM. Health and resource burden of a cancer diagnosis on the caregiver: an analysis of administrative claims data. *BMC Health Serv Res*. 2021 Aug 30;21(1):894. doi:

10.1186/s12913-021-06938-8. PMID: 34461888; PMCID: PMC8406769.

Dormuth CR, Fisher A, Hudson M, Austin PC, Ernst P, Bresee L, Chateau D, Tamim H, Paterson JM, Lafrance JP, Taylor-Gjevre RM, Platt RW, Canadian Network For Observational Drug Effect Studies Cnodes Investigators. Impact of using concomitant conventional DMARDs on adherence to biologic DMARD treatment in rheumatoid arthritis: Multi-centre, population-based cohort study. *Semin Arthritis Rheum*. 2021 Dec;51(6):1291-1299. doi: 10.1016/j.semarthrit.2021.08.002. Epub 2021 Aug 19. PMID: 34462128.

Pulcini CD, Goyal MK, Hall M, Gruhler De Souza H, Chaudhary S, Alpern ER, Fein JA, Fleegler EW. Nonfatal firearm injuries: Utilization and expenditures for children pre- and postinjury. *Acad Emerg Med*. 2021 Aug;28(8):840-847. doi: 10.1111/acem.14318. PMID: 34435413.

Zakai NA, Walker RF, MacLehose RF, Koh I, Alonso A, Lutsey PL. Venous thrombosis recurrence risk according to warfarin versus direct oral anticoagulants for the secondary prevention of venous thrombosis. *Res Pract Thromb Haemost*. 2021 Aug 17;5(6):e12575. doi: 10.1002/rth2.12575. PMID: 34430789; PMCID: PMC8371351.

Zacharias AJ, Lemaster NG, Hawk GS, Duncan ST, Thompson KL, Jochimsen KN, Stone AV, Jacobs CA. Psychological Healthcare Burden Lessens After Hip Arthroscopy for Those With Comorbid

Depression or Anxiety. *Arthrosc Sports Med Rehabil*. 2021 Jun 17;3(4):e1171-e1175. doi: 10.1016/j.asmr.2021.05.005. PMID: 34430898; PMCID: PMC8365206.

Machado MAA, Moura CS, Abrahamowicz M, Ward BJ, Pilote L, Bernatsky S. Relative effectiveness of influenza vaccines in elderly persons in the United States, 2012/2013-2017/2018 seasons. *NPJ Vaccines*. 2021 Aug 24;6(1):108. doi: 10.1038/s41541-021-00373-w. PMID: 34429431; PMCID: PMC8385076.

Li P, Patel R, Guo J, Vouri SM, Shi L, Fonseca V, Shao H. The diminishing cost-effectiveness of the newer glucose-lowering drug classes in the United States: 2010-2018. *Curr Med Res Opin*. 2021 Nov;37(11):1875-1880. doi: 10.1080/03007995.2021.1971181. Epub 2021 Aug 31. PMID: 34429001.

Field ME, Goldstein L, Corriveau K, Khanna R, Fan X, Gold MR. Evaluating outcomes of same-day discharge after catheter ablation for atrial fibrillation in a real-world cohort. *Heart Rhythm O2*. 2021 Jul 14;2(4):333-340. doi: 10.1016/j.hroo.2021.07.001. PMID: 34430938; PMCID: PMC8369301.

Prater LC, O'Rourke B, Schnell P, Xu W, Li Y, Gustin J, Lockwood B, Lustberg M, White S, Happ MB, Retchin SM, Wickizer TM, Bose-Brill S. Examining the Association of Billed Advance Care Planning With End-of-Life Hospital Admissions Among Advanced Cancer Patients in Hospice. *Am J Hosp Palliat Care*. 2022 May;39(5):504-510. doi:

10.1177/10499091211039449. Epub 2021 Aug 24. PMID: 34427154.

Wright LN, Moghalu OI, Das R, Horns J, Campbell A, Hotaling J, Pastuszak AW. Erectile Dysfunction and Treatment: An Analysis of Associated Chronic Health Conditions. *Urology*. 2021 Nov;157:148-154. doi: 10.1016/j.urology.2021.08.009. Epub 2021 Aug 22. PMID: 34428539.

Schein J, Childress A, Adams J, Cloutier M, Gagnon-Sanschagrin P, Maitland J, Bungay R, Guérin A, Lefebvre P. Treatment patterns among adults with attention-deficit/hyperactivity disorder in the United States: a retrospective claims study. *Curr Med Res Opin*. 2021 Nov;37(11):2007-2014. doi: 10.1080/03007995.2021.1968814. Epub 2021 Aug 27. PMID: 34427164.

Qureshi ZP, Thiel E, Nelson J, Khandker R. Incremental Healthcare Utilization and Cost Burden of Comorbid Insomnia in Alzheimer's Disease Patients. *J Alzheimers Dis*. 2021;83(4):1679-1690. doi: 10.3233/JAD-210713. PMID: 34420974; PMCID: PMC8609711.

Dong S, Tsao N, Hou Q, Bozkaya D, Leroy BP. US Health Resource Utilization and Cost Burden Associated with Choroideremia. *Clin Ophthalmol*. 2021 Aug 14;15:3459-3465. doi: 10.2147/OPHTH.S311844. PMID: 34421297; PMCID: PMC8373302.

Tsao N, Hou Q, Chen SY, Messe SR. A Real-World Assessment of Outcomes, Health Resource Utilization, and Costs

Associated with Cerebral Edema in US Patients with Large Hemispheric Infarction. *Pharmacoecon Open*. 2022 Jan;6(1):63-72. doi: 10.1007/s41669-021-00294-3. Epub 2021 Aug 22. PMID: 34420191; PMCID: PMC8807772.

Wang Z, Chen X, Tan X, Yang L, Kannapur K, Vincent JL, Kessler GN, Ru B, Yang M. Using Deep Learning to Identify High-Risk Patients with Heart Failure with Reduced Ejection Fraction. *J Health Econ Outcomes Res*. 2021 Jul 29;8(2):6-13. doi: 10.36469/jheor.2021.25753. PMID: 34414250; PMCID: PMC8322198.

McGrath LJ, Nielson C, Saul B, Breskin A, Yu Y, Nicolaisen SK, Kilpatrick K, Ghanima W, Christiansen CF, Bahmanyar S, Linder M, Eisen M, Wasser J, Altomare I, Kuter D, Sørensen HT, Kelsh M, Brookhart MA. Lessons Learned Using Real-World Data to Emulate Randomized Trials: A Case Study of Treatment Effectiveness for Newly Diagnosed Immune Thrombocytopenia. *Clin Pharmacol Ther*. 2021 Dec;110(6):1570-1578. doi: 10.1002/cpt.2399. Epub 2021 Sep 15. PMID: 34416023.

Aly A, Lingohr-Smith M, Lin J, Seal B. Locoregional therapy patterns and healthcare economic burden of patients with hepatocellular carcinoma in the USA. *Hepat Oncol*. 2021 Apr 21;8(3):HEP37. doi: 10.2217/hep-2021-0001. PMID: 34408847; PMCID: PMC8369525.

Olufade T, Jiang L, Israni R, Huang J, Gosmanov AR. Cardiovascular and renal disease manifestation and healthcare

resource utilization in patients on first-line oral therapy for type 2 diabetes: A claims-based observational cohort study. *Diabetes Obes Metab.* 2021 Dec;23(12):2741-2751. doi: 10.1111/dom.14530. Epub 2021 Aug 31. PMID: 34405521.

Baksh S, Wen J, Mansour O, Chang HY, McAdams-DeMarco M, Segal JB, Ehrhardt S, Alexander GC. Dipeptidyl peptidase-4 inhibitor cardiovascular safety in patients with type 2 diabetes, with cardiovascular and renal disease: a retrospective cohort study. *Sci Rep.* 2021 Aug 17;11(1):16637. doi: 10.1038/s41598-021-95687-z. PMID: 34404825; PMCID: PMC8371013.

Rochlin DH, Sheckter CC, Khosla RK, Lorenz HP. Rates of Revision and Obstructive Sleep Apnea after Surgery for Velopharyngeal Insufficiency: A Longitudinal Comparative Analysis of More Than 1000 Operations. *Plast Reconstr Surg.* 2021 Aug 1;148(2):387-398. doi: 10.1097/PRS.00000000000008193. PMID: 34398089; PMCID: PMC8371713.

Oladapo A, Wu Y, Lu M, Farahbakhshian S, Ewenstein B. Economic Burden Associated with Major Surgery in Patients with von Willebrand Disease: A United States Retrospective Administrative Database Analysis. *J Blood Med.* 2021 Aug 7;12:699-708. doi: 10.2147/JBM.S320837. PMID: 34393536; PMCID: PMC8357406.

Londhe AA, Holy CE, Weaver J, Fonseca S, Villasis A, Fife D. Risk of aortic aneurysm and dissection following exposure to fluoroquinolones, common antibiotics, and

febrile illness using a self-controlled case series study design: Retrospective analyses of three large healthcare databases in the US. *PLoS One.* 2021 Aug 16;16(8):e0255887. doi: 10.1371/journal.pone.0255887. PMID: 34398907; PMCID: PMC8366987.

Kreisel KM, Llata E, Haderxhanaj L, Pearson WS, Tao G, Wiesenfeld HC, Torrone EA. The Burden of and Trends in Pelvic Inflammatory Disease in the United States, 2006-2016. *J Infect Dis.* 2021 Aug 16;224(12 Suppl 2):S103-S112. doi: 10.1093/infdis/jiaa771. PMID: 34396411; PMCID: PMC10243492.

Yerrapragada G, Siadimas A, Babaeian A, Sharma V, O'Neill TJ. Machine Learning to Predict Tamoxifen Nonadherence Among US Commercially Insured Patients With Metastatic Breast Cancer. *JCO Clin Cancer Inform.* 2021 Aug;5:814-825. doi: 10.1200/CCI.20.00102. PMID: 34383580.

Van de Louw A, Mariotte E, Darmon M, Cohrs A, Leslie D, Azoulay E. Outcomes in 1096 patients with severe thrombotic thrombocytopenic purpura before the Caplacizumab era. *PLoS One.* 2021 Aug 12;16(8):e0256024. doi: 10.1371/journal.pone.0256024. PMID: 34383822; PMCID: PMC8360509.

Alignol A, Boutmy E, Sabidó Espin M, Marhardt K, Vermersch P. Effectiveness, Healthcare Resource Utilization and Adherence to Subcutaneous Interferon Beta-1a According to Age in Patients With Multiple Sclerosis: A Cohort Study Using a

US Claims Database. *Front Neurol*. 2021 Jul 22;12:676585. doi: 10.3389/fneur.2021.676585. PMID: 34381411; PMCID: PMC8351462.

Hallock KK, Mizerak MR, Dempsey A, Maczuga S, Kirby JS. Differences Between Children and Adults With Hidradenitis Suppurativa. *JAMA Dermatol*. 2021 Sep 1;157(9):1095-1101. doi: 10.1001/jamadermatol.2021.2865. PMID: 34379074; PMCID: PMC8358812.

Zhong W, Liu X, Voss T, Khalilieh S, Khandker RK, Bortnichak E, Liaw KL. Medications in Patients with Dementia and Behavioral Disturbance. *J Alzheimers Dis Rep*. 2021 Jun 17;5(1):535-540. doi: 10.3233/ADR-210023. PMID: 34368636; PMCID: PMC8293669.

Zhdanava M, Karkare S, Pilon D, Joshi K, Rossi C, Morrison L, Sheehan J, Lefebvre P, Lopena O, Citrome L. Prevalence of Pre-existing Conditions Relevant for Adverse Events and Potential Drug-Drug Interactions Associated with Augmentation Therapies Among Patients with Treatment-Resistant Depression. *Adv Ther*. 2021 Sep;38(9):4900-4916. doi: 10.1007/s12325-021-01862-z. Epub 2021 Aug 9. PMID: 34368919; PMCID: PMC8408057.

Weissler EH, Ford CB, Patel MR, Goodney P, Clark A, Long C, Jones WS. Younger patients with chronic limb threatening ischemia face more frequent amputations. *Am Heart J*. 2021 Dec;242:6-14. doi: 10.1016/j.ahj.2021.08.002. Epub 2021 Aug 8. PMID: 34371002; PMCID: PMC8568640.

Broggi MS, Oladeji PO, Spenser C, Kadakia RJ, Bariteau JT. Risk Factors for Prolonged Opioid Use After Ankle Fracture Surgery. *Foot Ankle Spec*. 2023 Oct;16(5):476-484. doi: 10.1177/19386400211029123. Epub 2021 Aug 8. PMID: 34369179.

Harris AM, Khan MA, Osinubi A, Nelson NP, Thompson WW. Hepatitis C Treatment Among Commercially or Medicaid-Insured Individuals, 2014-2018. *Am J Prev Med*. 2021 Nov;61(5):716-723. doi: 10.1016/j.amepre.2021.05.017. Epub 2021 Aug 3. PMID: 34362617.

Quiros JA, Andrews AL, Brinton D, Simpson K, Simpson A. Insurance Type Influences Access to Biologics and Healthcare Utilization in Pediatric Crohn's Disease. *Crohns Colitis* 360. 2021 Aug 7;3(3):otab057. doi: 10.1093/crocol/otab057. PMID: 36776668; PMCID: PMC9802312.

Shih YT, Xu Y, Zhao H, Schrag D, Yao J. Financial Burden of Discarded Weight-based Antineoplastic Drugs to Payers and Patients in the Private Insurance Market. *JNCI Cancer Spectr*. 2021 May 18;5(4):pkab045. doi: 10.1093/jncics/pkab045. PMID: 34350376; PMCID: PMC8328094.

Leidner AJ, Tang Z, Guo A, Anderson TC, Tsai Y. Insurance reimbursements for recombinant zoster vaccine in the private sector. *Vaccine*. 2021 Aug 23;39(36):5091-5094. doi: 10.1016/j.vaccine.2021.07.050. Epub 2021 Aug 2. PMID: 34348844; PMCID: PMC8947845.

Hsu AT, Hung YC, Fang SH, D'Adamo CR, Mavanur AA, Svoboda SM, Wolf JH. Metformin use and the risk of anal intraepithelial neoplasia in type II diabetic patients. *Colorectal Dis*. 2021 Dec;23(12):3220-3226. doi: 10.1111/codi.15860. Epub 2021 Aug 19. PMID: 34347359.

Khaja A, Horný M, Balthazar P, Hanna TN, Harkey P, Villalobos A, Duszak R Jr. Disproportionate Use in Minor Trauma Is Driving Emergency Department Cervical Spine Imaging: An Injury Severity Score-Based Analysis. *J Am Coll Radiol*. 2021 Nov;18(11):1532-1539. doi: 10.1016/j.jacr.2021.07.006. Epub 2021 Jul 31. PMID: 34339664.

Jin Y, Chen SK, Lee H, Landon JE, Merola JF, Kim SC. Patient characteristics associated with use of TNF vs interleukin inhibitors as first-line biologic treatment for psoriatic arthritis. *J Manag Care Spec Pharm*. 2021 Aug;27(8):1106-1117. doi: 10.18553/jmcp.2021.27.8.1106. PMID: 34337987; PMCID: PMC10391262.

Wackerbarth JJ, Ham SA, Aizen J, Richgels J, Faris SF. Persistent Opioid Usage After Urologic Intervention and the Impact of Tramadol. *Urology*. 2021 Nov;157:114-119. doi: 10.1016/j.urology.2021.07.018. Epub 2021 Jul 29. PMID: 34333038; PMCID: PMC8713955.

Gibbs LR, Pisc JA, Braaten KP, Bateman BT, Garry EM. Prescription opioid fills following surgical abortion. *Contraception*. 2021 Dec;104(6):648-653. doi:

10.1016/j.contraception.2021.07.106. Epub 2021 Jul 28. PMID: 34329609.

Pan IW, Oeffinger KC, Shih YT. Cost-Sharing and Out-of-Pocket Cost for Women Who Received MRI for Breast Cancer Screening. *J Natl Cancer Inst*. 2022 Feb 7;114(2):254-262. doi: 10.1093/jnci/djab150. PMID: 34320199; PMCID: PMC8826560.

Maksabedian Hernandez EJ, Tkacz J, Zimmerman NM, Chan P, Limone B, Ogdie A, Karis E, Stolshek B. Association of physician specialty with psoriatic arthritis treatment and costs. *Am J Manag Care*. 2021 Jul 1;27(7):e226-e233. doi: 10.37765/ajmc.2021.88706. PMID: 34314123.

Eisenberg MD, Meiselbach MK, Bai G, Sen AP, Anderson G. Large self-insured employers lack power to effectively negotiate hospital prices. *Am J Manag Care*. 2021 Jul;27(7):290-296. doi: 10.37765/ajmc.2021.88702. PMID: 34314118; PMCID: PMC9446373.

Niu X, Dennen S, Dembek C, Laubmeier K, Liu Y, Veeranki P, Tocco M, Williams GR. Hospitalization Risk for Adults with Bipolar I Disorder Treated with Oral Atypical Antipsychotics as Adjunctive Therapy with Mood Stabilizers: A Retrospective Analysis of Medicaid Claims Data. *Curr Ther Res Clin Exp*. 2021 Mar 27;94:100629. doi: 10.1016/j.curtheres.2021.100629. PMID: 34306269; PMCID: PMC8296072.

Baxter NB, Davis ES, Chen JS, Lawton JN, Chung KC. Utilization, Complications, and Costs of Inpatient versus Outpatient Total Elbow Arthroplasty. *Hand (N Y)*. 2023 May;18(3):509-515. doi: 10.1177/15589447211030693. Epub 2021 Jul 22. PMID: 34293938; PMCID: PMC10152523.

Senna M, Ko J, Tosti A, Edson-Heredia E, Fenske DC, Ellinwood AK, Rueda MJ, Zhu B, King B. Alopecia Areata Treatment Patterns, Healthcare Resource Utilization, and Comorbidities in the US Population Using Insurance Claims. *Adv Ther*. 2021 Sep;38(9):4646-4658. doi: 10.1007/s12325-021-01845-0. Epub 2021 Jul 22. PMID: 34292518; PMCID: PMC8408067.

Saha S, Vaidyanathan A, Lo F, Brown C, Hess JJ. Short term physician visits and medication prescriptions for allergic disease associated with seasonal tree, grass, and weed pollen exposure across the United States. *Environ Health*. 2021 Jul 21;20(1):85. doi: 10.1186/s12940-021-00766-3. PMID: 34289856; PMCID: PMC8296728.

Hess LM, Zhu YE, Fang Y, Liepa AM. Health care resource utilization and treatment variability in the care of patients with advanced or metastatic colorectal or gastric cancer. *J Med Econ*. 2021 Jan-Dec;24(1):930-938. doi: 10.1080/13696998.2021.1958607. PMID: 34289799.

O'Shaughnessy J, Emens LA, Chui SY, Wang W, Russell K, Lin SW, Flores Avile C, Luhn P, Schneeweiss A. Patterns and

Predictors of First-Line Taxane Use in Patients with Metastatic Triple-Negative Breast Cancer in US Clinical Practice. *Curr Oncol*. 2021 Jul 17;28(4):2741-2752. doi: 10.3390/curroncol28040239. PMID: 34287291; PMCID: PMC8293053.

Orbai AM, Reddy SM, Dennis N, Villacorta R, Peterson S, Mesana L, Chakravarty SD, Lin I, Karyekar CS, Wang Y, Pacou M, Walsh J. Work absenteeism and disability associated with psoriasis and psoriatic arthritis in the USA-a retrospective study of claims data from 2009 TO 2020. *Clin Rheumatol*. 2021 Dec;40(12):4933-4942. doi: 10.1007/s10067-021-05839-9. Epub 2021 Jul 21. PMID: 34287723; PMCID: PMC8599387.

Butler AM, Durkin MJ, Keller MR, Ma Y, Powderly WG, Olsen MA. Association of Adverse Events With Antibiotic Treatment for Urinary Tract Infection. *Clin Infect Dis*. 2022 Apr 28;74(8):1408-1418. doi: 10.1093/cid/ciab637. PMID: 34279560; PMCID: PMC9049277.

MacEwan JP, Majer I, Chou JW, Panjabi S. The value of survival gains from therapeutic innovations for US patients with relapsed/refractory multiple myeloma. *Ther Adv Hematol*. 2021 Jul 3;12:20406207211027463. doi: 10.1177/20406207211027463. PMID: 34276923; PMCID: PMC8255558.

Cheng WY, Sarda SP, Mody-Patel N, Krishnan S, Yenikomshian M, Mahendran M, Lejeune D, Yu LH, Duh MS. Real-World Healthcare Resource Utilization (HRU) and

Costs of Patients with Paroxysmal Nocturnal Hemoglobinuria (PNH) Receiving Eculizumab in a US Population. *Adv Ther.* 2021 Aug;38(8):4461-4479. doi: 10.1007/s12325-021-01825-4. Epub 2021 Jul 17. PMID: 34275086; PMCID: PMC8342328.

Tiwari T, Tranby E, Thakkar-Samtani M, Frantsve-Hawley J. Determinants of Tooth Loss in a Medicaid Adult Population. *JDR Clin Trans Res.* 2022 Jul;7(3):289-297. doi: 10.1177/23800844211022277. Epub 2021 Jul 16. PMID: 34269110.

Maurer R, McNutt S, Daggubati LC, Ba DM, Liu G, Leslie D, Goyal N, Zacharia BE. Mental health disorders in newly diagnosed non-functional pituitary adenoma under initial observation: an observational cohort study using the nationwide MarketScan database. *Pituitary.* 2022 Feb;25(1):85-91. doi: 10.1007/s11102-021-01172-1. Epub 2021 Jul 16. PMID: 34269977.

Tomicki S, Dieguez G, Latimer H, Cockrum P, Kim G. Real-World Cost of Care for Commercially Insured versus Medicare Patients with Metastatic Pancreatic Cancer Who Received Guideline-Recommended Therapies. *Am Health Drug Benefits.* 2021 Jun;14(2):70-78. PMID: 34267862; PMCID: PMC8244739.

Zheng F, Huang Y, Wright J, Kuo JH. Out-of-Pocket Costs for Patients Undergoing Thyroid Surgery. *Ann Surg.* 2022 Dec 1;276(6):e937-e943. doi: 10.1097/SLA.0000000000005078. Epub 2021 Jul 14. PMID: 34261887.

Xu C, Teeple A, Wu B, Fitzgerald T, Feldman SR. Treatment adherence and persistence of seven commonly prescribed biologics for moderate to severe psoriasis and psoriatic arthritis in a U.S. commercially insured population. *J Dermatolog Treat.* 2022 Jun;33(4):2270-2277. doi: 10.1080/09546634.2021.1950600. Epub 2022 Jan 20. PMID: 34264149.

Randall DJ, Peacock K, Nickel KB, Olsen M, Tyser AR, Kazmers NH. Comparison of Complication Risk for Open Carpal Tunnel Release: In-office versus Operating Room Settings. *Plast Reconstr Surg Glob Open.* 2021 Jul 12;9(7):e3685. doi: 10.1097/GOX.0000000000003685. PMID: 34262842; PMCID: PMC8274797.

Coates MD, Ba DM, Liu G, Dalessio S, Leslie DL, Huang X. Revisiting the Association Between Inflammatory Bowel Disease and Parkinson's Disease. *Inflamm Bowel Dis.* 2022 Jun 3;28(6):850-854. doi: 10.1093/ibd/izab175. PMID: 34259840.

Simon TG, Patorno E, Schneeweiss S. Glucagon-Like Peptide-1 Receptor Agonists and Hepatic Decompensation Events in Patients With Cirrhosis and Diabetes. *Clin Gastroenterol Hepatol.* 2022 Jun;20(6):1382-1393.e19. doi: 10.1016/j.cgh.2021.07.010. Epub 2021 Jul 10. PMID: 34256144; PMCID: PMC8743301.

Blauvelt A, Shi N, Somani N, Burge R, Zhu B, Ridenour TL, Lew CR, Zimmerman NM, Atiya B, Murage MJ. Comparison of two-year treatment adherence, persistence, discontinuation, reinitiation, and switching

between psoriasis patients treated with ixekizumab or secukinumab in real-world settings. *J Am Acad Dermatol*. 2022 Mar;86(3):581-589. doi: 10.1016/j.jaad.2021.06.878. Epub 2021 Jul 9. PMID: 34252464.

Zhang Y, Bian J, Huo J, Yang S, Guo Y, Shao H. Comparing the downstream costs and healthcare utilization associated with the use of low-dose computed tomography (LDCT) in lung cancer screening in patients with and without alzheimer's disease and related dementias (ADRD). *Curr Med Res Opin*. 2021 Oct;37(10):1731-1737. doi: 10.1080/03007995.2021.1953972. Epub 2021 Jul 26. PMID: 34252317; PMCID: PMC8627644.

Zantek ND, Martinez RJ, Johnson AD, Tholkes AJ, Shah S. Apheresis practice patterns in the United States of America: Analysis of a market claims database. *J Clin Apher*. 2021 Oct;36(5):750-758. doi: 10.1002/jca.21926. Epub 2021 Jul 12. PMID: 34252989.

DeRemer CE, Vouri SM, Guo J, Donahoo WT, Winterstein AG, Shao H. Comparing cardiovascular benefits between GLP-1 receptor agonists and SGLT2 inhibitors as an add-on to metformin among patients with type 2 diabetes: A retrospective cohort study. *J Diabetes Complications*. 2021 Sep;35(9):107972. doi: 10.1016/j.jdiacomp.2021.107972. Epub 2021 Jun 11. PMID: 34247911.

Rose EB, Dahl RM, Havers FP, Peacock G, Langley GE. Respiratory Syncytial Virus-

Associated Hospitalizations in Children With Neurological Disorders, 2006-2015. *J Pediatric Infect Dis Soc*. 2021 Nov 11;10(10):951-957. doi: 10.1093/jpids/piab017. PMID: 34245307.

Lokhandwala T, Coutinho AD, Bell CF. Retrospective Analysis of Disease Severity, Health Care Resource Utilization, and Costs Among Patients Initiating Belimumab for the Treatment of Systemic Lupus Erythematosus. *Clin Ther*. 2021 Aug;43(8):1320-1335. doi: 10.1016/j.clinthera.2021.06.009. Epub 2021 Jul 7. PMID: 34243966.

van Boemmel-Wegmann S, Brown JD, Diaby V, Huo J, Silver N, Park H. Health Care Utilization and Costs Associated With Systemic First-Line Metastatic Melanoma Therapies in the United States. *JCO Oncol Pract*. 2022 Jan;18(1):e163-e174. doi: 10.1200/OP.21.00140. Epub 2021 Jul 6. PMID: 34228489.

Perez-Nieves M, Juneja R, Fan L, Meadows E, Lage MJ, Eby EL. Trends in U.S. Insulin Use and Glucose Monitoring for People with Diabetes: 2009-2018. *J Diabetes Sci Technol*. 2022 Nov;16(6):1428-1435. doi: 10.1177/19322968211028268. Epub 2021 Jul 5. PMID: 34218716; PMCID: PMC9631534.

Yang X, Desai K, Agrawal N, Mirchandani K, Chatterjee S, Sarpong E, Sen S. Characteristics, treatment patterns, healthcare resource use, and costs among pediatric patients diagnosed with neurofibromatosis type 1 and plexiform neurofibromas: a retrospective database

analysis of a medicaid population. *Curr Med Res Opin.* 2021 Sep;37(9):1555-1561. doi: 10.1080/03007995.2021.1940907. Epub 2021 Jul 16. PMID: 34218725.

Viscidi E, Litvan I, Dam T, Juneja M, Li L, Krzywy H, Eaton S, Hall S, Kupferman J, Höglinger GU. Clinical Features of Patients With Progressive Supranuclear Palsy in an US Insurance Claims Database. *Front Neurol.* 2021 Jun 17;12:571800. doi: 10.3389/fneur.2021.571800. PMID: 34220661; PMCID: PMC8245849.

Smith KM, Presson AP, Zhang C, Horns JJ, Hotaling JM, Tashjian RZ, Chalmers PN. Does diabetes mellitus predispose to both rotator cuff surgery and subsequent failure? *JSES Int.* 2021 Apr 20;5(4):636-641. doi: 10.1016/j.jseint.2021.03.002. PMID: 34223408; PMCID: PMC8245974.

Exuzides A, Sheinson D, Sidiropoulos P, Gholizadeh S, Magrini F, Surinach A, Cook L, Meyer CS, Yeaman MR. The costs of care from a US claims database in patients with neuromyelitis optica spectrum disorder. *J Neurol Sci.* 2021 Aug 15;427:117553. doi: 10.1016/j.jns.2021.117553. Epub 2021 Jun 24. PMID: 34224957.

Kazmers NH, Peacock K, Nickel KB, Stephens AR, Olsen M, Tyser AR. Comparison of Complication Risk Following Trigger Digit Release Performed in the Office Versus the Operating Room: A Population-Based Assessment. *J Hand Surg Am.* 2021 Oct;46(10):877-887.e3. doi: 10.1016/j.jhsa.2021.05.010. Epub 2021 Jun

29. PMID: 34210572; PMCID: PMC8500925.

Jang DW, Lee HJ, Huang RJ, Cheng J, Abi Hachem R, Scales CD. Healthcare Resource Utilization for Chronic Rhinosinusitis in Older Adults. *Healthcare (Basel).* 2021 Jun 25;9(7):796. doi: 10.3390/healthcare9070796. PMID: 34201975; PMCID: PMC8305990.

Varma N, Auricchio A, Connolly AT, Boehmer J, Bahu M, Costanzo MR, Leonelli F, Yoo D, Singh J, Nabutovsky Y, Gold M. The cost of non-response to cardiac resynchronization therapy: characterizing heart failure events following cardiac resynchronization therapy. *Europace.* 2021 Oct 9;23(10):1586-1595. doi: 10.1093/europace/euab123. PMID: 34198334.

Saunders-Hastings P, Heong SW, Srichaikul J, Wong HL, Shoaibi A, Chada K, Burrell TA, Dores GM. Acute myocardial infarction: Development and application of an ICD-10-CM-based algorithm to a large U.S. healthcare claims-based database. *PLoS One.* 2021 Jul 1;16(7):e0253580. doi: 10.1371/journal.pone.0253580. PMID: 34197488; PMCID: PMC8248590.

Pawar A, Desai RJ, He M, Bessette L, Kim SC. Comparative Risk of Nonvertebral Fractures Among Patients With Rheumatoid Arthritis Treated With Biologic or Targeted Synthetic Disease-Modifying Antirheumatic Drugs. *ACR Open Rheumatol.* 2021 Aug;3(8):531-539. doi:

10.1002/acr2.11292. Epub 2021 Jul 1. PMID: 34196497; PMCID: PMC8363846.

Levy M, Xie L, Wang Y, Neumann F, Srivastava S, Naranjo D, Xu J, Zhang Q, Dalal M. Comparison of incidence/occurrence of cardiovascular events between ponatinib vs bosutinib among patients with at least one prior line of tyrosine kinase inhibitors in chronic myeloid leukemia in a community setting in the United States. *Cancer Treat Res Commun.* 2021;28:100424. doi: 10.1016/j.ctarc.2021.100424. Epub 2021 Jun 18. PMID: 34198039.

Kaplan DL, Ung BL, Pelletier C, Udeze C, Khilfeh I, Tian M. Switch rates and total cost associated with apremilast and biologics in biologic-naïve patients with psoriatic arthritis. *J Comp Eff Res.* 2021 Aug;10(12):989-998. doi: 10.2217/ce-2020-0285. Epub 2021 Jun 30. PMID: 34187202.

Varshneya K, Bhattacharjya A, Sharma J, Stienen MN, Medress ZA, Ratliff JK, Veeravagu A. Outcome Measures of Medicare Patients With Diabetes Mellitus Undergoing Thoracolumbar Deformity Surgery. *Clin Spine Surg.* 2022 Feb 1;35(1):E31-E35. doi: 10.1097/BSD.0000000000001229. PMID: 34183547.

Jiang X, Song HJ, Wang W, Henry L, Childs-Kean LM, Re VL 3rd, Park H. The use of all-oral direct-acting antivirals in hepatitis C virus-infected patients with substance use disorders. *J Manag Care Spec Pharm.* 2021 Jul;27(7):873-881. doi:

10.18553/jmcp.2021.27.7.873. PMID: 34185563; PMCID: PMC8244773.

Greenberg B, Kolodny S, Wang M, Deshpande C. Utilization and Treatment Patterns of Disease-Modifying Therapy in Pediatric Patients with Multiple Sclerosis in the United States. *Int J MS Care.* 2021 May-Jun;23(3):101-105. doi: 10.7224/1537-2073.2019-095. Epub 2020 Jun 2. PMID: 34177381; PMCID: PMC8218586.

Boye KS, Lage MJ, Thieu V, Shinde S, Dhamija S, Bae JP. Obesity and glycemic control among people with type 2 diabetes in the United States: A retrospective cohort study using insurance claims data. *J Diabetes Complications.* 2021 Sep;35(9):107975. doi: 10.1016/j.jdiacomp.2021.107975. Epub 2021 Jun 19. PMID: 34176723.

Ahmed MM, Li P, Meece LE, Bian J, Shao H. A varied approach to left ventricular assist device follow-up improves cost-effectiveness. *Curr Med Res Opin.* 2021 Sep;37(9):1501-1505. doi: 10.1080/03007995.2021.1948395. Epub 2021 Jul 20. PMID: 34181489.

Weissler EH, Osazuwa-Peters OL, Greiner MA, Hughes GC, Long CA, Vemulapalli S, Patel MR, Jones WS. National trends in repair for type B aortic dissection. *Clin Cardiol.* 2021 Aug;44(8):1058-1068. doi: 10.1002/clc.23672. Epub 2021 Jun 26. PMID: 34173677; PMCID: PMC8364733.

Riaz M, Smith SM, Dietrich EA, Pepine CJ, Park H. Effectiveness of

sacubitril/valsartan versus aldosterone antagonists in heart failure with reduced ejection fraction: A retrospective cohort study. *Pharmacotherapy*. 2021 Sep;41(9):710-721. doi: 10.1002/phar.2610. Epub 2021 Jul 13. Erratum in: *Pharmacotherapy*. 2022 Feb;42(2):189. PMID: 34170559.

Alobaidi A, Pickard AS, Jarrett JB, Lee TA. Hospitalizations for opioid-related overdose and timing of concurrent opioid and benzodiazepine use: A nested case-control study. *Pharmacotherapy*. 2021 Sep;41(9):722-732. doi: 10.1002/phar.2608. Epub 2021 Jul 11. PMID: 34170554.

Zhang GQ, Canner JK, Prince EJ, Stern M, Taylor JP, Efron JE, Atallah C, Safar B. History of depression is associated with worsened postoperative outcomes following colectomy. *Colorectal Dis*. 2021 Oct;23(10):2559-2566. doi: 10.1111/codi.15790. Epub 2021 Jul 14. PMID: 34166552.

Kanwar MK, Cole M, Gauthier-Loiselle M, Manceur AM, Tsang Y, Lefebvre P, Panjabi S, Benza RL. Development and validation of a claims-based model to identify patients at risk of chronic thromboembolic pulmonary hypertension following acute pulmonary embolism. *Curr Med Res Opin*. 2021 Sep;37(9):1483-1491. doi: 10.1080/03007995.2021.1947215. Epub 2021 Jul 8. PMID: 34166172.

Holy CE, Corso KA, Bowden DE, Erb MJ, Ruppenkamp JR, Coombs S, Pracyk JB. Evaluation of Cost, Payments, Healthcare

Utilization, and Perioperative and Post-Operative Outcomes of Patients Treated with Posterior Lumbar Spinal Surgery Using Open versus Minimally Invasive Surgical Approaches. *Med Devices (Auckl)*. 2021 Jun 15;14:173-183. doi: 10.2147/MDER.S311774. PMID: 34163258; PMCID: PMC8214572.

Henny KD, Zhu W, Huang YA, Townes A, Delaney KP, Hoover KW. HIV Testing Trends Among Persons with Commercial Insurance or Medicaid - United States, 2014-2019. *MMWR Morb Mortal Wkly Rep*. 2021 Jun 25;70(25):905-909. doi: 10.15585/mmwr.mm7025a1. PMID: 34166332; PMCID: PMC8224865.

Hong K, Lindley MC, Zhou F. Coverage and Timing of Influenza Vaccination Among Privately Insured Pregnant Women in the United States, 2010-2018. *Public Health Rep*. 2022 Jul-Aug;137(4):739-748. doi: 10.1177/00333549211026779. Epub 2021 Jun 23. PMID: 34161183; PMCID: PMC9257513.

Gyamfi-Bannerman C, Huang Y, Bateman BT, Benson RJ, Pack AM, Wright JD, D'Alton ME, Friedman AM. Maternal morbidity and mortality associated with epilepsy. *J Matern Fetal Neonatal Med*. 2022 Dec;35(25):7917-7923. doi: 10.1080/14767058.2021.1938528. Epub 2021 Jun 21. PMID: 34154486.

Olson AL, Patnaik P, Hartmann N, Bohn RL, Garry EM, Wallace L. Prevalence and Incidence of Chronic Fibrosing Interstitial Lung Diseases with a Progressive

Phenotype in the United States Estimated in a Large Claims Database Analysis. *Adv Ther.* 2021 Jul;38(7):4100-4114. doi: 10.1007/s12325-021-01786-8. Epub 2021 Jun 17. PMID: 34156606; PMCID: PMC8279991.

Sakya SM, Hallan DR, Maczuga SA, Kirby JS. Outcomes of pregnancy and childbirth in women with hidradenitis suppurativa. *J Am Acad Dermatol.* 2022 Jan;86(1):61-67. doi: 10.1016/j.jaad.2021.05.059. Epub 2021 Jun 18. PMID: 34153386.

Wadhwa H, Sharma J, Varshneya K, Fatemi P, Nathan J, Medress ZA, Stienen MN, Ratliff JK, Veeravagu A. Anterior Cervical Discectomy and Fusion Versus Laminoplasty for Multilevel Cervical Spondylotic Myelopathy: A National Administrative Database Analysis. *World Neurosurg.* 2021 Aug;152:e738-e744. doi: 10.1016/j.wneu.2021.06.064. Epub 2021 Jun 18. PMID: 34153482.

Miller C, Apple S, Paige JS, Grabowsky T, Shukla O, Agnese W, Merrill C. Current and Future Projections of Amyotrophic Lateral Sclerosis in the United States Using Administrative Claims Data. *Neuroepidemiology.* 2021;55(4):275-285. doi: 10.1159/000515203. Epub 2021 Jun 21. PMID: 34153964.

Hess CN, Cannon CP, Beckman JA, Goodney PP, Patel MR, Hiatt WR, Mues KE, Orroth KK, Shannon E, Bonaca MP. Effectiveness of Blood Lipid Management in Patients With Peripheral Artery Disease. *J Am Coll Cardiol.* 2021 Jun 22;77(24):3016-

3027. doi: 10.1016/j.jacc.2021.04.060. PMID: 34140105.

Broggi MS, Yoon CJ, Allen J, Maceroli M, Moore T, Schenker M, Hernandez-Irizarry R. Higher altitude leads to increased risk of venous thromboembolism after acetabular and pelvic ring injury. *J Clin Orthop Trauma.* 2021 May 26;19:192-195. doi: 10.1016/j.jcot.2021.05.026. PMID: 34141573; PMCID: PMC8178120.

Spencer CC, Pflederer JA, Wilson JM, Dawes AM, Gottschalk MB, Wagner ER. Opioid use following a total shoulder arthroplasty: who requires refills and for how long? *JSES Int.* 2021 Apr 3;5(3):346-352. doi: 10.1016/j.jseint.2021.02.003. PMID: 34136838; PMCID: PMC8178640.

Tanner MR, Bush T, Nesheim SR, Weidle PJ, Byrd KK. Retention in Medical Care Among Insured Adolescents and Young Adults With Diagnosed HIV Infection, United States, 2010-2014. *Public Health Rep.* 2022 Jul-Aug;137(4):721-729. doi: 10.1177/00333549211023266. Epub 2021 Jun 16. PMID: 34133247; PMCID: PMC9257494.

Jang DW, Lee HJ, Chen PG, Cohen SM, Scales CD. Management of Chronic Rhinosinusitis Prior to Otolaryngology Referral: An Opportunity for Quality Improvement. *Otolaryngol Head Neck Surg.* 2022 Mar;166(3):565-571. doi: 10.1177/01945998211017486. Epub 2021 Jun 15. PMID: 34126810.

Oddo ER, Maldonado L, Hink AB, Simpson AN, Andrews AL. Increase in Mental Health Diagnoses Among Youth With Nonfatal Firearm Injuries. *Acad Pediatr*. 2021 Sep-Oct;21(7):1203-1208. doi: 10.1016/j.acap.2021.06.003. Epub 2021 Jun 10. PMID: 34119719.

Fatemi P, Zhang Y, Han SS, Purington N, Zygorakis CC, Veeravagu A, Desai A, Park J, Shuer LM, Ratliff JK. External validation of a predictive model of adverse events following spine surgery. *Spine J*. 2022 Jan;22(1):104-112. doi: 10.1016/j.spinee.2021.06.006. Epub 2021 Jun 9. PMID: 34116215.

Fife D, Blacketer C, Knight K, Weaver J. Stroke Risk Among Non-Elderly Users of Haloperidol or First-Generation Antipsychotics vs Second-Generation Antipsychotics: A Cohort Study from a US Health Insurance Claims Database. *Drugs Real World Outcomes*. 2021 Dec;8(4):481-496. doi: 10.1007/s40801-021-00267-2. Epub 2021 Jun 9. PMID: 34109564; PMCID: PMC8605955.

Exuzides A, Sheinson D, Sidiropoulos P, Magrini F, Gholizadeh S, Surinach A, Cook L, Meyer CS, Yeaman M. Burden and cost of comorbidities in patients with neuromyelitis optica spectrum disorder. *J Neurol Sci*. 2021 Aug 15;427:117530. doi: 10.1016/j.jns.2021.117530. Epub 2021 Jun 3. PMID: 34111762.

Bagel J, Glick B, Wu JJ, Chopra I, Song X, Brouillette M, Mendelsohn A, Rozzo S, Han G. Dose escalation and associated costs in

biologic treatment of psoriasis based on real-world data. *J Med Econ*. 2021 Jan-Dec;24(1):782-791. doi: 10.1080/13696998.2021.1937187. PMID: 34107834.

Fakunle O, Farley KX, DeMaio EL, Gottschalk MB, Wagner ER, Daly CA. When Is It Safe to Operate After Therapeutic Carpal Tunnel Injections? *Hand (N Y)*. 2023 Jan;18(1_suppl):139S-145S. doi: 10.1177/15589447211017229. Epub 2021 Jun 9. PMID: 34105384; PMCID: PMC9896289.

Broggi MS, Oladeji PO, Tahmid S, Hernandez-Irizarry R, Allen J. Depressive Disorders Lead to Increased Complications After Geriatric Hip Fractures. *Geriatr Orthop Surg Rehabil*. 2021 May 25;12:21514593211016252. doi: 10.1177/21514593211016252. PMID: 34104531; PMCID: PMC8155747.

Burne R, Balu S, Guérin A, Bungay R, Sin R, Paul ML. Comparison of healthcare resource utilization and costs of patients with HR+/HER2- advanced breast cancer treated with ribociclib versus other CDK4/6 inhibitors. *J Med Econ*. 2021 Jan-Dec;24(1):806-815. doi: 10.1080/13696998.2021.1939705. PMID: 34098827.

Oladeji PO, Broggi MS, Spencer C, Hurt J, Hernandez-Irizarry R. The impact of preoperative opioid use on complications, readmission, and cost following ankle fracture surgery. *Injury*. 2021 Aug;52(8):2469-2474. doi:

10.1016/j.injury.2021.05.011. Epub 2021 May 19. PMID: 34092364.

Edson-Heredia E, Anderson S, Guo J, Zhu B, Malatestinic WN, Wine-Lee L, Swanson E. Real-World Claims Analyses of Comorbidity Burden, Treatment Pattern, Healthcare Resource Utilization, and Costs in Pediatric Psoriasis. *Adv Ther.* 2021 Jul;38(7):3948-3961. doi: 10.1007/s12325-021-01795-7. Epub 2021 Jun 6. PMID: 34091866.

Cogan JC, Raghunathan RR, Beauchemin MP, Accordino MK, Elkin EB, Melamed A, Wright JD, Hershman DL. New and persistent controlled substance use among patients undergoing mastectomy and reconstructive surgery. *Breast Cancer Res Treat.* 2021 Sep;189(2):445-454. doi: 10.1007/s10549-021-06275-8. Epub 2021 Jun 4. PMID: 34089118.

Mahesri M, Chin K, Kumar A, Barve A, Studer R, Lahoz R, Desai RJ. External validation of a claims-based model to predict left ventricular ejection fraction class in patients with heart failure. *PLoS One.* 2021 Jun 4;16(6):e0252903. doi: 10.1371/journal.pone.0252903. PMID: 34086825; PMCID: PMC8177622.

Wright JD, Cogan JC, Huang Y, Tergas AI, St Clair CM, Hou JY, Khoury-Collado F, Gockley A, Accordino M, Melamed A, Hershman DL. Association of New Perioperative Benzodiazepine Use With Persistent Benzodiazepine Use. *JAMA Netw Open.* 2021 Jun 1;4(6):e2112478. doi:

10.1001/jamanetworkopen.2021.12478. PMID: 34081136; PMCID: PMC8176328.

Houghton R, van den Bergh J, Law K, Liu Y, de Vries F. Risperidone versus aripiprazole fracture risk in children and adolescents with autism spectrum disorders. *Autism Res.* 2021 Aug;14(8):1800-1814. doi: 10.1002/aur.2541. Epub 2021 Jun 3. PMID: 34080319.

Lois A, Fennern E, Cook S, Flum D, Davidson G. Patterns of care after cholecystostomy tube placement. *Surg Endosc.* 2022 May;36(5):2778-2785. doi: 10.1007/s00464-021-08562-3. Epub 2021 Jun 2. PMID: 34076767; PMCID: PMC8636522.

Mishra A, Dehority W. Influenza Immunization of Adults During Outpatient Pediatric Visits. *J Pediatric Infect Dis Soc.* 2021 Aug 17;10(7):793-796. doi: 10.1093/jpids/piab038. PMID: 34076238.

Boye KS, Lage MJ, Shinde S, Thieu V, Bae JP. Trends in HbA1c and Body Mass Index Among Individuals with Type 2 Diabetes: Evidence from a US Database 2012-2019. *Diabetes Ther.* 2021 Jul;12(7):2077-2087. doi: 10.1007/s13300-021-01084-0. Epub 2021 Jun 2. PMID: 34076849; PMCID: PMC8266935.

Poeran J, Cho LD, Wilson L, Zhong H, Mazumdar M, Liu J, Memtsoudis SG. Pre-existing Disparities and Potential Implications for the Rapid Expansion of Telemedicine in Response to the Coronavirus Disease 2019 Pandemic. *Med*

Care. 2021 Aug 1;59(8):694-698. doi: 10.1097/MLR.0000000000001585. PMID: 34054024; PMCID: PMC8263094.

Jackson EA, Runyan B, Metz L, Kenney JT. An analysis of member retention patterns for adult rare disease cohorts to support evaluating multiyear payment arrangements for novel therapies. *J Manag Care Spec Pharm*. 2021 Jun;27(6):753-759. doi: 10.18553/jmcp.2021.27.6.753. PMID: 34057393; PMCID: PMC10391190.

Bedenbaugh AV, Bonafede M, Marchlewicz EH, Lee V, Tambiah J. Real-World Health Care Resource Utilization and Costs Among US Patients with Knee Osteoarthritis Compared with Controls. *Clinicoecon Outcomes Res*. 2021 May 21;13:421-435. doi: 10.2147/CEOR.S302289. PMID: 34054301; PMCID: PMC8153072.

Butler J, Yang M, Sawhney B, Chakladar S, Yang L, Djatche LM. Treatment patterns and clinical outcomes among patients <65 years with a worsening heart failure event. *Eur J Heart Fail*. 2021 Aug;23(8):1334-1342. doi: 10.1002/ehhf.2252. Epub 2021 Jun 17. PMID: 34053163.

Thanitcul C, Varadaraj V, Canner JK, Woreta FA, Soiberman US, Srikumaran D. Predictors of Receiving Keratoplasty for Keratoconus. *Am J Ophthalmol*. 2021 Nov;231:11-18. doi: 10.1016/j.ajo.2021.05.013. Epub 2021 May 26. PMID: 34048803.

Khan NF, Bykov K, Glynn RJ, Barnett ML, Gagne JJ. Coprescription of Opioids With Other Medications and Risk of Opioid

Overdose. *Clin Pharmacol Ther*. 2021 Oct;110(4):1011-1017. doi: 10.1002/cpt.2314. Epub 2021 Jun 27. PMID: 34048030.

Dunphy C, Peterson C, Zhang K, Jones CM. Do out-of-pocket costs influence retention and adherence to medications for opioid use disorder? *Drug Alcohol Depend*. 2021 Aug 1;225:108784. doi: 10.1016/j.drugalcdep.2021.108784. Epub 2021 May 21. PMID: 34049104; PMCID: PMC8314254.

Zhdanova M, Voelker J, Pilon D, Cornwall T, Morrison L, Vermette-Laforme M, Lefebvre P, Nash AI, Joshi K, Neslusan C. Cluster Analysis of Care Pathways in Adults with Major Depressive Disorder with Acute Suicidal Ideation or Behavior in the USA. *Pharmacoeconomics*. 2021 Jun;39(6):707-720. doi: 10.1007/s40273-021-01042-5. Epub 2021 May 27. PMID: 34043148; PMCID: PMC8166679.

Caswell-Jin JL, Callahan A, Purington N, Han SS, Itakura H, John EM, Blayney DW, Sledge GW Jr, Shah NH, Kurian AW. Treatment and Monitoring Variability in US Metastatic Breast Cancer Care. *JCO Clin Cancer Inform*. 2021 May;5:600-614. doi: 10.1200/CCI.21.00031. PMID: 34043432; PMCID: PMC8462601.

Casale T, Molino NA, Silver J, Bogart M, Packnett E, McMorro D, Wu J, Hahn B. Real-world effectiveness of mepolizumab in patients with severe asthma and associated comorbidities. *Ann Allergy Asthma Immunol*. 2021 Sep;127(3):354-

362.e2. doi: 10.1016/j.anai.2021.05.021. Epub 2021 May 24. PMID: 34038773.

Cohen AT, Keshishian A, Lee T, Rosenblatt L, Hlavacek P, Sah J, Luo X. Effectiveness and safety of apixaban, LMWH, and warfarin among high-risk subgroups of VTE patients with active cancer. *Curr Med Res Opin.* 2021 Sep;37(9):1467-1482. doi: 10.1080/03007995.2021.1932448. Epub 2021 Jun 14. PMID: 34030541.

Kirchgesner J, Desai RJ, Beaugerie L, Kim SC, Schneeweiss S. Calibrating Real-World Evidence Studies Against Randomized Trials: Treatment Effectiveness of Infliximab in Crohn's Disease. *Clin Pharmacol Ther.* 2022 Jan;111(1):179-186. doi: 10.1002/cpt.2304. Epub 2021 Jun 14. PMID: 34027993.

Rehorn M, Sacks NC, Emden MR, Healey B, Preib MT, Cyr PL, Pokorney SD. Prevalence and incidence of patients with paroxysmal supraventricular tachycardia in the United States. *J Cardiovasc Electrophysiol.* 2021 Aug;32(8):2199-2206. doi: 10.1111/jce.15109. Epub 2021 Jun 14. PMID: 34028109.

Shao IY, Claxton JS, Lutsey PL, Chen LY, MacLehose RF, Alonso A. Association of Type of Antidepressant Initiation with Bleeding Risk in Atrial Fibrillation Patients Taking Oral Anticoagulants. *Drugs Real World Outcomes.* 2021 Sep;8(3):383-391. doi: 10.1007/s40801-021-00258-3. Epub 2021 May 20. PMID: 34014500; PMCID: PMC8324721.

Zimmerman NM, Ray D, Princic N, Moynihan M, Clarke C, Phan A. Exploration of machine learning techniques to examine the journey to neuroendocrine tumor diagnosis with real-world data. *Future Oncol.* 2021 Aug;17(24):3217-3230. doi: 10.2217/fon-2020-1254. Epub 2021 May 19. PMID: 34008426.

Nataraj N, Zhang K, Strahan AE, Guy GP Jr. Congruence of opioid prescriptions and dispensing using electronic records and claims data. *Health Serv Res.* 2021 Dec;56(6):1245-1251. doi: 10.1111/1475-6773.13673. Epub 2021 May 18. PMID: 34008209; PMCID: PMC8586485.

Eskander A, Sahovaler A, Shin J, Deutsch K, Crowson M, Goyal N, Witsell DL, Schulz K, Gross ND, Weber R, Khariwala SS, Cohen S, CyrLee DW, Mehta V. A preliminary assessment of guideline adherence and clinical variation in oral cancer treatment: a MarketScan database study. *BMC Oral Health.* 2021 May 17;21(1):270. doi: 10.1186/s12903-021-01616-x. PMID: 34001080; PMCID: PMC8130137.

Calotta NA, Shores JT, Coon D. Upper-Extremity Venous Thromboembolism Following Operative Treatment of Distal Radius Fractures: An Uncommon but Dangerous Complication. *J Hand Surg Am.* 2021 Dec;46(12):1123.e1-1123.e7. doi: 10.1016/j.jhssa.2021.03.011. Epub 2021 May 15. PMID: 34001409.

Sanon Aigbogun M, Stellhorn RA, Pao CS, Seliger SL. Radiographic Imaging in Autosomal Dominant Polycystic Kidney

Disease: A Claims Analysis. *Int J Nephrol Renovasc Dis.* 2021 May 7;14:133-142. doi: 10.2147/IJNRD.S300331. PMID: 33994802; PMCID: PMC8112873.

Jin MC, Qian ZJ, Cooperman SP, Alyono JC. Trends in Use and Timing of Intratympanic Corticosteroid Injections for Sudden Sensorineural Hearing Loss. *Otolaryngol Head Neck Surg.* 2021 Jul;165(1):166-173. doi: 10.1177/0194599820976177. Epub 2020 Dec 8. PMID: 33287664.

Allaire JC, Balk M, Azmi S, Handl HL, Yang K, Barnes G. Use of PD-1 and PD-L1 inhibitors after first-line therapy in esophageal cancer patients in the US. *Curr Med Res Opin.* 2021 Aug;37(8):1403-1407. doi: 10.1080/03007995.2021.1929134. Epub 2021 Jun 3. PMID: 33989092.

Guha A, Jain P, Fradley MG, Lenihan D, Gutierrez JM, Jain C, de Lima M, Barnholtz-Sloan JS, Oliveira GH, Dowlati A, Al-Kindi S. Cardiovascular adverse events associated with BRAF versus BRAF/MEK inhibitor: Cross-sectional and longitudinal analysis using two large national registries. *Cancer Med.* 2021 Jun;10(12):3862-3872. doi: 10.1002/cam4.3938. Epub 2021 May 13. PMID: 33982883; PMCID: PMC8209554.

MacLehose RF, Zakai NA, Walker RF, Alonso A, Adams T, Lutsey PL. Impact of oral anticoagulant choice for the secondary prevention of venous thromboembolism on the risk of inpatient bleeding. *Res Pract Thromb Haemost.* 2021 May 4;5(4):e12514. doi: 10.1002/rth2.12514. PMID: 33977213; PMCID: PMC8105158.

Chua KP, Kenney BC, Waljee JF, Brummett CM, Nalliah RP. Dental Opioid Prescriptions and Overdose Risk in Patients and Their Families. *Am J Prev Med.* 2021 Aug;61(2):165-173. doi: 10.1016/j.amepre.2021.02.008. Epub 2021 Apr 29. PMID: 33975766; PMCID: PMC8319034.

Black CM, Vesco KK, Mehta V, Ohman-Strickland P, Demissie K, Schneider D. Hospital Readmission Following Delivery With and Without Severe Maternal Morbidity. *J Womens Health (Larchmt).* 2021 Dec;30(12):1736-1743. doi: 10.1089/jwh.2020.8815. Epub 2021 May 11. PMID: 33978478.

Henke RM, Head MA, Camacho-Cook J, Lin JR, Carroll CD. Cost Offsets of Treatment for Serious Mental Illness and Substance Use Disorder. *Psychiatr Serv.* 2021 Sep 1;72(9):1006-1011. doi: 10.1176/appi.ps.201900445. Epub 2021 May 11. PMID: 33971721.

Spain CV, Dayal P, Ding Y, Iribarren C, Omachi TA, Chen H. Usage of long-acting muscarinic antagonists and biologics as add-on therapy for patients in the United States with moderate-to-severe asthma. *J Asthma.* 2022 Jun;59(6):1237-1247. doi: 10.1080/02770903.2021.1922915. Epub 2021 May 22. PMID: 33970741.

Willey C, Gauthier-Loiselle M, Cloutier M, Shi S, Maitland J, Stellhorn R, Aigbogun MS. Regional variations in prevalence and severity of autosomal dominant polycystic kidney disease in the United States. *Curr*

Med Res Opin. 2021 Jul;37(7):1155-1162. doi: 10.1080/03007995.2021.1927690. Epub 2021 May 25. PMID: 33970726.

Laifenfeld D, Yanover C, Ozery-Flato M, Shaham O, Rosen-Zvi M, Lev N, Goldschmidt Y, Grossman I. Emulated Clinical Trials from Longitudinal Real-World Data Efficiently Identify Candidates for Neurological Disease Modification: Examples from Parkinson's Disease. *Front Pharmacol*. 2021 Apr 22;12:631584. doi: 10.3389/fphar.2021.631584. PMID: 33967767; PMCID: PMC8100658.

Yeo YH, Hwang J, Jeong D, Dang N, Kam LY, Henry L, Park H, Cheung R, Nguyen MH. Surveillance of patients with cirrhosis remains suboptimal in the United States. *J Hepatol*. 2021 Oct;75(4):856-864. doi: 10.1016/j.jhep.2021.04.042. Epub 2021 May 7. PMID: 33965477.

Wallick C, Abbass IM, Sheinson D, Moawad D. Healthcare Resource Use and Burden Associated with Influenza Transmission Among Household Members with a Primary Infection: Commercial Claims Data Analysis. *Clinicoecon Outcomes Res*. 2021 Apr 30;13:335-342. doi: 10.2147/CEOR.S298992. PMID: 33958880; PMCID: PMC8096342.

Gamble CR, Huang Y, Wright JD, Hou JY. Precision medicine testing in ovarian cancer: The growing inequity between patients with commercial vs medicaid insurance. *Gynecol Oncol*. 2021 Jul;162(1):18-23. doi:

10.1016/j.ygyno.2021.04.025. Epub 2021 May 4. PMID: 33958212.

Brooke BS, Griffin CL, Glotzbach JP, Horns JJ, Patel S, Kraiss LW. Predictors of Adherence to Anti-Impulse Therapy among Patients Treated for Acute Type-B Aortic Dissections. *Ann Vasc Surg*. 2021 Oct;76:95-103. doi: 10.1016/j.avsg.2021.04.011. Epub 2021 May 2. PMID: 33951520.

Shahangian S, Sharma KP, Fan L, Siegel DA. Use of the prostate-specific antigen test in the U.S. for men age 30 to 64 in 2011 to 2017 using a large commercial claims database: Implications for practice interventions. *Cancer Rep (Hoboken)*. 2021 Aug;4(4):e1365. doi: 10.1002/cnr2.1365. Epub 2021 May 2. PMID: 33934557; PMCID: PMC8388177.

Merola JF, Dennis N, Chakravarty SD, Villacorta R, Mesana L, Lin I, Wang Y, Shawi M, Pacou M, Baker T, Peterson S. Healthcare utilization and costs among patients with psoriasis and psoriatic arthritis in the USA-a retrospective study of claims data from 2009 to 2020. *Clin Rheumatol*. 2021 Oct;40(10):4061-4070. doi: 10.1007/s10067-021-05713-8. Epub 2021 May 2. PMID: 33934270.

Tran S, Jeong D, Henry L, Cheung RC, Nguyen MH. Initial Evaluation, Long-Term Monitoring, and Hepatocellular Carcinoma Surveillance of Chronic Hepatitis B in Routine Practice: A Nationwide US Study. *Am J Gastroenterol*. 2021 Sep 1;116(9):1885-1895. doi:

10.14309/ajg.0000000000001271. PMID: 33927125.

Meyers KJ, Silverberg JI, Rueda MJ, Goodloe R, Pierce EJ, Deberdt W, Brinker DR. Risk of Venous Thromboembolism Among Patients with Atopic Dermatitis: A Cohort Study in a US Administrative Claims Database. *Dermatol Ther (Heidelb)*. 2021 Jun;11(3):1041-1052. doi: 10.1007/s13555-021-00538-4. Epub 2021 Apr 30. PMID: 33929715; PMCID: PMC8163909.

McBride A, Campbell K, Li E, Schroader B, Campbell D, Wang W. Economic and clinical outcomes of pegfilgrastim via prefilled syringe vs on-body injector: a real-world data analysis. *J Manag Care Spec Pharm*. 2021 Sep;27(9):1230-1238. doi: 10.18553/jmcp.2021.21010. Epub 2021 Apr 30. PMID: 33929269; PMCID: PMC10394176.

Lavery A, Backer L, Daniel J. Evaluation of Electronic Health Records to Monitor Illness From Harmful Algal Bloom Exposure in the United States. *J Environ Health*. 2021 May;839:8-14. PMID: 36060209; PMCID: PMC9434719.

Heo H, Lambert SR. Incidence of retinal detachment after lens surgery in children and young adults with nontraumatic ectopia lentis. *J Cataract Refract Surg*. 2021 Nov 1;47(11):1454-1459. doi: 10.1097/jjcrs.0000000000000667. PMID: 33929802; PMCID: PMC8490488.

Butler O, Heeg S, Holl K, Frenz AK, Wicklein EM, Rametta M, Yeo S. Real-World Assessment of Interferon- β -1b and Interferon- β -1a Adherence Before and After the Introduction of the BETACONNECT® Autoinjector: A Retrospective Cohort Study. *Drugs Real World Outcomes*. 2021 Sep;8(3):359-367. doi: 10.1007/s40801-021-00248-5. Epub 2021 Apr 29. PMID: 33928518; PMCID: PMC8324614.

Wright JD, Chen L, Tergas AI, Melamed A, St Clair CM, Hou JY, Khoury-Collado F, Gockley A, Accordini M, Hershman DL. Overuse of Cervical Cancer Screening Tests Among Women With Average Risk in the United States From 2013 to 2014. *JAMA Netw Open*. 2021 Apr 1;4(4):e218373. doi: 10.1001/jamanetworkopen.2021.8373. PMID: 33914050; PMCID: PMC8085723.

Spargo A, Yost C, Squires P, Raju A, Schroader B, Brown JD. The effects of oral anticancer parity laws on out-of-pocket spending and adherence among commercially insured patients with chronic myeloid leukemia. *J Manag Care Spec Pharm*. 2021 May;27(5):554-564. doi: 10.18553/jmcp.2021.27.5.554. PMID: 33908275; PMCID: PMC10391131.

Arnaud A, Suthoff E, Tavares RM, Zhang X, Ravindranath AJ. The Increasing Economic Burden with Additional Steps of Pharmacotherapy in Major Depressive Disorder. *Pharmacoeconomics*. 2021 Jun;39(6):691-706. doi: 10.1007/s40273-

021-01021-w. Epub 2021 Apr 28. PMID: 33908024; PMCID: PMC8166719.

Song Z, Lillehaugen T, Wallace J. Out-of-Network Laboratory Test Spending, Utilization, and Prices in the US. *JAMA*. 2021 Apr 27;325(16):1674-1676. doi: 10.1001/jama.2021.0720. PMID: 33904879; PMCID: PMC8080228.

Jang DW, Lee HJ, Chen PG, Cohen SM, Scales CD. Geographic Variations in Healthcare Utilization and Expenditure for Chronic Rhinosinusitis: A Population-Based Approach. *Laryngoscope*. 2021 Dec;131(12):2641-2648. doi: 10.1002/lary.29588. Epub 2021 Apr 27. PMID: 33904602.

Cartmill RS, Yang DY, Walker BJ, Bradfield YS, Kille TL, Su RR, Kohler JE. Opioid prescribing to preteen children undergoing ambulatory surgery in the United States. *Surgery*. 2021 Sep;170(3):925-931. doi: 10.1016/j.surg.2021.03.043. Epub 2021 Apr 24. PMID: 33902922.

Szmulewicz A, Bateman BT, Levin R, Huybrechts KF. The Risk of Overdose With Concomitant Use of Z-Drugs and Prescription Opioids: A Population-Based Cohort Study. *Am J Psychiatry*. 2021 Jul;178(7):643-650. doi: 10.1176/appi.ajp.2020.20071038. Epub 2021 Apr 26. PMID: 33900810.

Sen AP, Meiselbach MK, Wang Y, Eisenberg MD, Anderson GF. Frequency and Costs of Out-of-Network Bills for Outpatient Laboratory Services Among

Privately Insured Patients. *JAMA Intern Med*. 2021 Jun 1;181(6):834-841. doi: 10.1001/jamainternmed.2021.1422. PMID: 33900358; PMCID: PMC8077039.

Kaplowitz P, Manjelievskaia J, Lopez-Gonzalez L, Morrow CD, Pitukcheewanont P, Smith A. Economic burden of growth hormone deficiency in a US pediatric population. *J Manag Care Spec Pharm*. 2021 Aug;27(8):1118-1128. doi: 10.18553/jmcp.2021.21030. Epub 2021 Apr 24. PMID: 33896224; PMCID: PMC10394182.

Murugappan G, Li S, Leonard SA, Winn VD, Druzin ML, Eisenberg ML. Association of preconception paternal health and adverse maternal outcomes among healthy mothers. *Am J Obstet Gynecol MFM*. 2021 Sep;3(5):100384. doi: 10.1016/j.ajogmf.2021.100384. Epub 2021 Apr 23. PMID: 33895399.

Black CM, Vesco KK, Mehta V, Ohman-Strickland P, Demissie K, Schneider D. Incidence of Severe Maternal Morbidity During Delivery Hospitalization in U.S. Commercially Insured and Medicaid Populations. *J Womens Health (Larchmt)*. 2022 Jan;31(1):91-99. doi: 10.1089/jwh.2020.8556. Epub 2021 Apr 22. PMID: 33891488.

Summers AD, Ailes EC, Bohm MK, Tran EL, Broussard CS, Frey MT, Gilboa SM, Ko JY, Lind JN, Honein MA. Opioid prescription claims among women aged 15-44 years-United States, 2013-2017. *J Opioid Manag*. 2021 Mar-Apr;17(2):125-133. doi:

10.5055/jom.2021.0623. PMID: 33890276; PMCID: PMC8404075.

Dormuth CR, Winquist B, Fisher A, Wu F, Reynier P, Suissa S, Dahl M, Ma Z, Lu X, Zhang J, Raymond CB, Fillion KB, Platt RW, Moriello C, Paterson JM; Canadian Network for Observational Drug Effect Studies (CNODES) Investigators. Comparison of Pregnancy Outcomes of Patients Treated With Ondansetron vs Alternative Antiemetic Medications in a Multinational, Population-Based Cohort. *JAMA Netw Open*. 2021 Apr 1;4(4):e215329. doi: 10.1001/jamanetworkopen.2021.5329. PMID: 33890993; PMCID: PMC8065380.

Reder AT, Arndt N, Roman C, Geremakis C, Mendoza JP, Su R, Makin C, Avila RL, Vignos MC. Real-world propensity score comparison of treatment effectiveness of peginterferon beta-1a vs. subcutaneous interferon beta-1a, glatiramer acetate, and teriflunomide in patients with relapsing-remitting multiple sclerosis. *Mult Scler Relat Disord*. 2021 Jun;51:102935. doi: 10.1016/j.msard.2021.102935. Epub 2021 Apr 8. PMID: 33882426.

Parikh N, Martinez DJ, Winer I, Costa L, Dua D, Trueman P. Direct and indirect economic burden associated with rotator cuff tears and repairs in the US. *Curr Med Res Opin*. 2021 Jul;37(7):1199-1211. doi: 10.1080/03007995.2021.1918074. Epub 2021 May 19. PMID: 33879008.

Exuzides A, Wu N, Sheinson D, Flores Avile C, Costantino C, Sidiropoulos P. Identification and temporal trends of

patients with neuromyelitis optica spectrum disorder in a US insurance claims database. *J Med Econ*. 2021 Jan-Dec;24(1):581-588. doi: 10.1080/13696998.2021.1917421. PMID: 33879033.

Krenitsky NM, Huang Y, Wen T, Ona S, Wright JD, D'Alton ME, Friedman AM. Longitudinal Risk Adjustment for Maternal End-Organ Injury and Death. *J Matern Fetal Neonatal Med*. 2022 Dec;35(25):6346-6352. doi: 10.1080/14767058.2021.1911999. Epub 2021 Apr 19. PMID: 33874835.

Farley KX, Fakunle OP, Spencer CC, Gottschalk MB, Wagner ER. The Association of Preoperative Opioid Use With Revision Surgery and Complications Following Carpometacarpal Arthroplasty. *J Hand Surg Am*. 2021 Nov;46(11):1025.e1-1025.e14. doi: 10.1016/j.jhssa.2021.02.021. Epub 2021 Apr 17. PMID: 33875281.

Daniels V, Saxena K, Roberts C, Kothari S, Corman S, Yao L, Niccolai L. Impact of reduced human papillomavirus vaccination coverage rates due to COVID-19 in the United States: A model based analysis. *Vaccine*. 2021 May 12;39(20):2731-2735. doi: 10.1016/j.vaccine.2021.04.003. Epub 2021 Apr 6. PMID: 33875269; PMCID: PMC8023201.

Liu G, Kong L, Baweja R, Ba D, Saunders EFH. Gender disparity in bipolar disorder diagnosis in the United States: A retrospective analysis of the 2005-2017 MarketScan Commercial Claims database. *Bipolar Disord*. 2022 Feb;24(1):48-58. doi:

10.1111/bdi.13082. Epub 2021 Apr 30. PMID: 33872456.

Yeo YH, Kam LY, Le MH, Jeong D, Dang N, Henry L, Cheung R, Nguyen MH. A population-based US study of hepatitis C diagnosis rate. *Eur J Gastroenterol Hepatol*. 2021 Dec 1;33(1S Suppl 1):e471-e477. doi: 10.1097/MEG.0000000000002149. PMID: 33867444.

Tran PT, Antonelli PJ, Hincapie-Castillo JM, Winterstein AG. Association of US Food and Drug Administration Removal of Indications for Use of Oral Quinolones With Prescribing Trends. *JAMA Intern Med*. 2021 Jun 1;181(6):808-816. doi: 10.1001/jamainternmed.2021.1154. PMID: 33871571; PMCID: PMC8056313.

Jain N, Sharma M, Wang D, Ugiliweneza B, Drazin D, Boakye M. Burden of preoperative opioid use and its impact on healthcare utilization after primary single level lumbar discectomy. *Spine J*. 2021 Oct;21(10):1700-1710. doi: 10.1016/j.spinee.2021.04.013. Epub 2021 Apr 17. PMID: 33872806.

Summers AD, Anderson KN, Ailes EC, Grosse SD, Bobo WV, Tepper NK, Reefhuis J. Venlafaxine prescription claims among insured women of reproductive age and pregnant women, 2011-2016. *Birth Defects Res*. 2021 Aug 15;113(14):1052-1056. doi: 10.1002/bdr2.1897. Epub 2021 Apr 16. PMID: 33860984; PMCID: PMC8404084.

Chua KP, Hu HM, Waljee JF, Nalliah RP, Brummett CM. Persistent Opioid Use

Associated With Dental Opioid Prescriptions Among Publicly and Privately Insured US Patients, 2014 to 2018. *JAMA Netw Open*. 2021 Apr 1;4(4):e216464. doi: 10.1001/jamanetworkopen.2021.6464. PMID: 33861332; PMCID: PMC8052591.

Boakye M, Sharma M, Adams S, Chandler T, Wang D, Ugiliweneza B, Drazin D. Patterns and Impact of Electronic Health Records-Defined Depression Phenotypes in Spine Surgery. *Neurosurgery*. 2021 Jun 15;89(1):E19-E32. doi: 10.1093/neuros/nyab096. PMID: 33862621.

Kowalski C, Ridenour R, McNutt S, Ba D, Liu G, Bible J, Aynardi M, Garner M, Leslie D, Dhawan A. Risk Factors For Prolonged Opioid Use After Spine Surgery. *Global Spine J*. 2023 Apr;13(3):683-688. doi: 10.1177/21925682211003854. Epub 2021 Apr 15. PMID: 33853404; PMCID: PMC10240594.

Schuster M, Ananth CV, Gomez D, Huang Y, Gyamfi-Bannerman C, Wright JD, D'Alton ME, Friedman AM. 17-alpha hydroxyprogesterone caproate and risk for venous thromboembolism during pregnancy. *J Matern Fetal Neonatal Med*. 2022 Dec;35(25):6336-6337. doi: 10.1080/14767058.2021.1911997. Epub 2021 Apr 15. PMID: 33855933.

O'Shaugnessy F, Syeda SK, Huang Y, D'Alton ME, Wen T, Wright JD, Friedman AM. Receipt of anticoagulation after venous thromboembolism diagnoses during delivery hospitalizations. *J Matern Fetal Neonatal Med*. 2022

Dec;35(25):6353-6355. doi:
10.1080/14767058.2021.1912000. Epub 2021
Apr 15. PMID: 33855935.

Scherrer JF, Salas J, Wiemken TL, Jacobs
C, Morley JE, Hoft DF. Lower Risk for
Dementia Following Adult Tetanus,
Diphtheria, and Pertussis (Tdap)
Vaccination. *J Gerontol A Biol Sci Med Sci*.
2021 Jul 13;76(8):1436-1443. doi:
10.1093/gerona/glab115. PMID: 33856020.

Park Y, Hu J, Singh M, Sylla I, Dankwa-
Mullan I, Koski E, Das AK. Comparison of
Methods to Reduce Bias From Clinical
Prediction Models of Postpartum
Depression. *JAMA Netw Open*. 2021 Apr
1;4(4):e213909. doi:
10.1001/jamanetworkopen.2021.3909.
PMID: 33856478; PMCID: PMC8050742.

Farahbakhshian S, Ayyagari R, Barczak DS,
Gill SK, Tang W, Kulalert T, Jenkins M,
Spalding W. Disruption of
Pharmacotherapy During the Transition
from Adolescence to Early Adulthood in
Patients with Attention-
Deficit/Hyperactivity Disorder: A Claims
Database Analysis Across the USA. *CNS
Drugs*. 2021 May;35(5):575-589. doi:
10.1007/s40263-021-00808-x. Epub 2021
Apr 15. PMID: 33856656; PMCID:
PMC8144091.

Wick EH, Deutsch B, Kallogjeri D, Chi JJ,
Branham GH. Effectiveness of
Prophylactic Preoperative Antibiotics in
Mandible Fracture Repair: A National
Database Study. *Otolaryngol Head Neck
Surg*. 2021 Dec;165(6):798-808. doi:
10.1177/01945998211004270. Epub 2021
Apr 13. PMID: 33845666; PMCID:
PMC9293062.

Rogers AP, Xu Y, Lidor AO. Healthcare
Resource Utilization in Inguinal Hernia
Repair: A Three-Year Cost Evaluation of
Truven Health Marketscan Research
Databases. *J Surg Res*. 2021 Aug;264:408-
417. doi: 10.1016/j.jss.2021.02.041. Epub 2021
Apr 10. PMID: 33848840.

Dietz N, Sharma M, Adams S, Ugiliweneza
B, Wang D, Bjurström MF, Karikari I, Drazin
D, Boakye M. Health Care Utilization and
Associated Economic Burden of
Postoperative Surgical Site Infection after
Spinal Surgery with Follow-Up of 24
Months. *J Neurol Surg A Cent Eur
Neurosurg*. 2023 Jan;84(1):21-29. doi:
10.1055/s-0040-1720984. Epub 2021 Apr 12.
PMID: 33845504.



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100 Phoenix Drive
Ann Arbor, Michigan 48108

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