MAGELLAN RX MANAGEMENT

# MEDICAL PHARMACY TREND REPORT TO REPORT TO THE PROPERTY OF THE

2020 ELEVENTH EDITION

#### TABLE OF CONTENTS

Introduction	1
2020 Report Methodology and Demographics	2
Executive Summary	3
Medical Pharmacy Benefit Overview	5
Medical Pharmacy Trend Drivers	6
Medical Pharmacy Trends	7
Medical Benefit Categories	11
Medical Pharmacy Management	18
Medical Benefit Pipeline and Forecast	27
Appendix	28
Glossary	53

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#### INTRODUCTION

Magellan Rx Management is pleased to present the 11th edition of our Medical Pharmacy Trend Report™, the only detailed source analyzing medical benefit drug claims and primary data for trends, benchmarking, and current medical benefit drug management.

Throughout 11 years of reporting on the medical benefit, costs and PMPM trends have continued to grow. Since 2009, commercial PMPM has nearly doubled, while the cost of the top commercial drug, Remicade, has grown two and a half times.

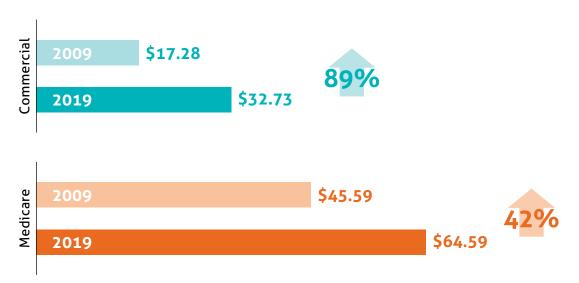
Growth of provider-administered drugs on the medical benefit is not slowing, as highlighted by the approval of a dozen biological drugs in 2019 and a robust oncology pipeline. These trends continue to be a challenge for all stakeholders involved in the care of patients with complex specialty conditions, making it vital for them to stay current and informed on medical benefit trends and forward-thinking solutions for managing provider-administered drugs.

As we celebrate 11 years of insights from the Medical Pharmacy Trend Report, we know you will glean valuable insights into the dynamic medical benefit. This report is one of the ways Magellan Rx keeps you updated on the latest trends for drugs on the medical benefit and continues to be a trusted partner for all of your pharmacy needs.

You can download the full report at www.magellanrx.com/trendreport.

# **A Decade of Trends**

#### **PMPM Growth**



#### **Top Commercial Trends**

# Top Drug: Remicade PMPM \$7.43 \$12.62 2019 70% \$2.30 2019

#### 2020 REPORT METHODOLOGY AND DEMOGRAPHICS

The methodology for the 11th edition of the Magellan Rx Management Medical Pharmacy Trend Report™ was developed with original guidance from our payer advisory board, as well as reader feedback on our previous trend reports.

This report includes a combination of primary and secondary research methodologies to deliver a comprehensive view of payer perceptions and health plan actions related to provider-administered infused or injected drugs paid under the medical benefit, also referred to as medical benefit drugs. These medical benefit drugs are commonly used to treat diseases like cancer, autoimmune disorders, immunodeficiencies, and rare diseases.

#### Payer Survey⁵

#### RESPONDENT SAMPLE

41
PAYERS (25 WITH MEDICARE LIVES)

**168M** 

**MEDICAL PHARMACY LIVES** 

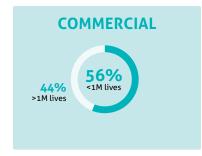
66%

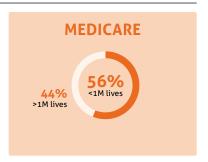
PHARMACY DIRECTORS

34%

MEDICAL DIRECTORS, CEOs, NETWORK DIRECTORS

#### RESPONDENT PLAN SIZE





#### **Health Plan Claims Data**

Medical benefit drug utilization and trend data were collected through secondary analyses of commercial, Medicare, and Medicaid health plan medical paid claims data for the most recent calendar years. Claims data were analyzed for medical pharmacy utilization across 988 HCPCS codes and several outpatient sites of service. Year over year, shifts in claims data information have occurred due to adjustments. Vaccines and radiopharmaceuticals were excluded from the analyses. Administration codes were analyzed separately in a single analysis; their utilization was not included in any other analysis. Most analyses compared calendar years 2018 and 2019. In some cases, the past five years were analyzed to show a longer period of year-over-year spend and trend.

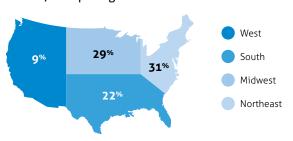
#### FIGURE 1: MEDICAL BENEFIT DRUG EXAMPLES FOR THERAPEUTIC CLASSES IN PAYER SURVEY

Drug Category	Example Drugs#
Antihemophilic Factors	Advate, Xyntha, Recombinate
Asthma	Nucala, Xolair, Cinqair, Fasenra
Biologic Drugs for Autoimmune Disorders	Remicade, Orencia, Cimzia, Actemra, Simponi ARIA, Stelara, Entyvio
Botulinum Toxins	Botox, Dysport, Myobloc, Xeomin
Immune Globulin	IV: Gamunex, Gammagard; Subcutaneous (SQ): Hizentra, HyQvia
Multiple Sclerosis (Infusion Only)	Tysabri, Lemtrada, Ocrevus
Oncology	Avastin, Cyramza, Vectibix, Erbitux, Herceptin, Rituxan
Oncology Immunotherapy	Opdivo, Keytruda, Tecentriq, Imfinzi, Bavencio
Oncology Support	CSFs, ESAs, antiemetics, folinic acids, octreotide/Sandostatin/LAR
Ophthalmic Injections	Lucentis, Eylea, Macugen, bevacizumab
Viscosupplementation	Orthovisc, Synvisc, Supartz, Hyalgan, Euflexxa, Gel-One, Monovisc

#Not an inclusive list

#### FIGURE 2: REGIONAL PLANS: GEOGRAPHIC DISPERSION OF LIVES

(n=41; 167.8 million covered lives) Multiple regions=10%



# **EXECUTIVE SUMMARY**

#### **COMMERCIAL**

#### **PMPM TREND 2015-2019**



#### **ANNUAL COST PER PATIENT**

Top 10 Drugs



#### **2019 CATEGORY TRENDS**

Oncology and oncology support accounted for:



#### **2019 DRUG SPEND**





#### **2019 TOP DRUG TRENDS**

Kadcyla

**Ocrevus** 

Rank YOY:  $55 \rightarrow 24$ 

Rank YOY:  $7 \rightarrow 3$ 

#### **MEDICARE**

#### **PMPM TREND 2015-2019**



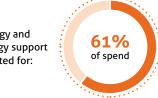
#### **ANNUAL COST PER PATIENT**

Top 10 Drugs

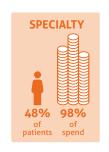


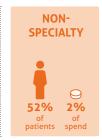
#### **2019 CATEGORY TRENDS**

Oncology and oncology support accounted for:



#### **2019 DRUG SPEND**





#### **2019 TOP DRUG TRENDS**

**Tecentriq** 

**Ocrevus** 

Rank YOY: 34 → 15

Rank YOY: 19 → 12

#### **MEDICAID**

#### **PMPM TREND 2015-2019**



#### **ANNUAL COST PER PATIENT**

Top 10 Drugs

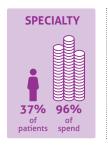


#### **2019 CATEGORY TRENDS**

Oncology and oncology support accounted for:



#### **2019 DRUG SPEND**





#### **2019 TOP DRUG TRENDS**

**Ocrevus** 

Keytruda

96%

78%

Rank YOY: 14 → 7

Rank YOY:  $3 \rightarrow 1$ 

#### **MANAGEMENT TRENDS**†

**Dose Optimization** 

saved plans an average of:

Vial Rounding saved plans an average of:

**11%** 

Savings from
Targeted
Management

**Strategies** 

7%

(n=10)

Weight-Based Dosing saved plans an average of: **Site of Service** saved plans an average of:

6%

(n=6)

**23**%

(n=1

#### MEDICAL PHARMACY BENEFIT OVERVIEW

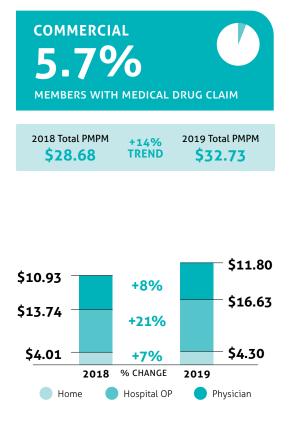
#### **Claim Volume**

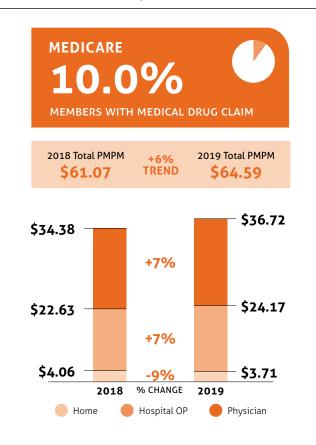
Medicare remains the highest-volume line of business in a high-cost market. Higher volume and greater utilization of high-cost drugs in Medicare leads to PMPM spend that is double that of commercial and three times higher in the physician office.

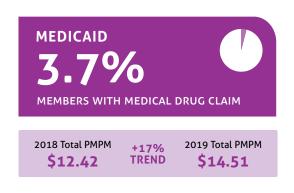
#### **Allowed Amount PMPM**

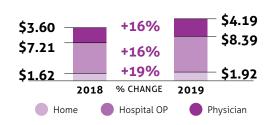
The commercial year over year trend of 14% was shaped by hospital outpatient spend, accounting for 51% of commercial PMPM. It is also the highest-spend site of service in Medicaid, accounting for 58% of spend and contributing to the 17% PMPM trend. Conversely, Medicare maintains a single-digit trend of 6%, and 57% of spend resides in the physician office.

#### FIGURE 3: MEDICAL PHARMACY CLAIM VOLUME AND ALLOWED AMOUNT PMPM 2018-2019









#### MEDICAL PHARMACY TREND DRIVERS

#### **Category Trends**

The top 10 categories accounted for three-quarters or more of spend in each line of business and include oncology, oncology support, BDAIDs, and MS.

#### **Drug Trends**

The top 10 drugs accounted for between one-third and half of medical drug spend across all lines of business. Utilization of the top 10 drugs is 10 times higher in Medicare, while cost per patient is 3 to 4 times higher in commercial and Medicaid, representing larger use of higher-cost drugs as opposed to Medicare, which is volume-driven.

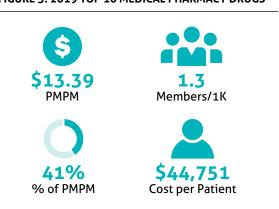
# FIGURE 4: TOP 10 DISEASE STATES OR DRUG CATEGORIES

Members/1K

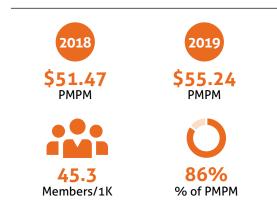


#### FIGURE 5: 2019 TOP 10 MEDICAL PHARMACY DRUGS

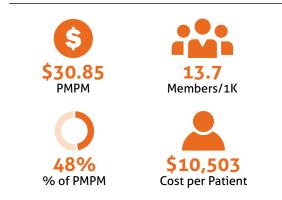
% of PMPM



# FIGURE 6: TOP 10 DISEASE STATES OR DRUG CATEGORIES



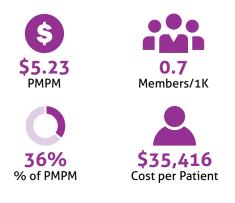
#### FIGURE 7: 2019 TOP 10 MEDICAL PHARMACY DRUGS



# FIGURE 8: TOP 10 DISEASE STATES OR DRUG CATEGORIES



#### FIGURE 9: 2019 TOP 10 MEDICAL PHARMACY DRUGS



# **COMMERCIAL**

**Oncology and oncology support** accounted for 47%, or \$15.26, of allowed amount PMPM. In total, BDAIDs were the second-highest-spend category, accounting for 14% of PMPM, or \$4.70. Oncology continued to have the highest spend; however, trend was highest in the MS category, with an 85% increase in Ocrevus PMPM.

A new top five: After a decade of Remicade, Neulasta, Rituxan, Herceptin, and Avastin being the top five drugs, Avastin has been replaced by Ocrevus (No. 3) and surpassed by Keytruda (No. 6).

**Highest-cost drugs:** Kanuma, Exondys, and Vimizim represented the highest-cost drugs based on annual cost per patient, all exceeding a staggering \$1 million per patient. Although the drug lists for highest-cost drugs were similar between commercial and Medicare, average PPPY for commercial was more than double that of Medicare, due to higher use of hospital outpatient centers and smaller volume of Medicare patients with rare diseases or conditions (**see figure 70**).

#### **HIGHEST-COST DRUGS**

The 10 most expensive medical benefit drugs (see figure 70):

\$720,297

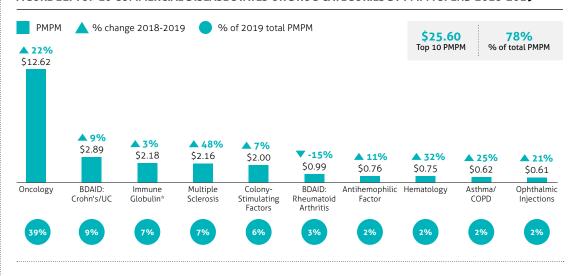
Average Per Patient Per Year (PPPY)

**\$0.42** Total PMPM

# FIGURE 10: UNCLASSIFIED CODE AND SELECTED DRUGS BY ALLOWED AMOUNT PMPM

J3490	Gattex, Radicava	\$0.13
J3590	Dupixent, Fasenra, Ultomiris	\$0.07
C9399	Polivy, Ultomiris, Zolgensma, Zulresso	\$0.03
<b>J</b> 9999	Elzonris, Kanjinti, Libtayo, Poteligeo	\$0.01
	Total	\$0.24

#### FIGURE 11: TOP 10 COMMERCIAL DISEASE STATES OR DRUG CATEGORIES BY PMPM SPEND 2018-2019



#### FIGURE 12: TOP 10 COMMERCIAL MEDICAL BENEFIT DRUGS BY SPEND





\*Immune globulin includes IV and SQ.

# **MEDICARE**

**Oncology and oncology support** accounted for 61%, or \$39.15, of allowed amount PMPM. The decrease in CSFs in Medicare and Medicaid could potentially be attributed to a decrease in the use of cytotoxic chemotherapy. This shift of less use of cytotoxic agents also drove increased oncology costs as use of immunotherapy and monoclonal antibody (MoAb) increased.

**Unique to Medicare,** ophthalmic injections spend is the second-highest therapeutic category, accounting for 12%, or \$7.49, of allowed amount PMPM. Even so, Eylea and Lucentis experienced a relatively flat trend, with utilization and costs increasing at proportionate rates.

**Rheumatoid arthritis agents** under the BDAID category saw a 15% and 36% decrease in commercial and Medicare, respectively, indicating that the biosimilar products for Remicade made an impact in 2019.

**Highest-cost drugs:** Spinraza, likely due to dual eligibles, and Lumizyme represent the highest-cost drugs per patient in Medicare (see figure 71).

#### **HIGHEST-COST DRUGS**

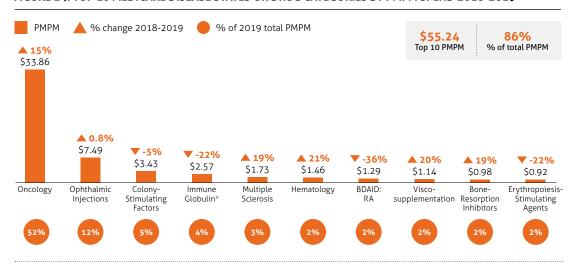
The 10 most expensive medical benefit drugs (see figure 71):

\$341,341 Average PPPY \$2.10 Total PMPM

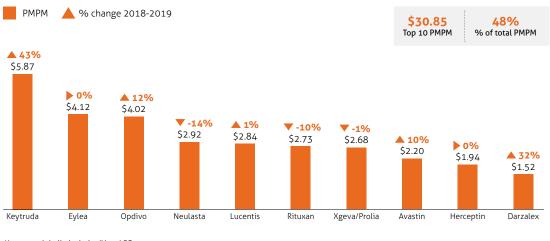
# FIGURE 13: UNCLASSIFIED CODE AND SELECTED DRUGS BY ALLOWED AMOUNT PMPM

J3490	Onpattro, Radicava	\$0.18
J9999	Belrapzo, Kanjinti, Libtayo, Poteligeo	\$0.06
C9399	Aliqopa, Polivy, Ultomiris	\$0.01
	Total	\$0.25

#### FIGURE 14: TOP 10 MEDICARE DISEASE STATES OR DRUG CATEGORIES BY PMPM SPEND 2018-2019



#### FIGURE 15: TOP 10 MEDICARE MEDICAL BENEFIT DRUGS BY SPEND



\*Immune globulin includes IV and SQ.

# **MEDICAID**

**Oncology and oncology support** accounted for 43%, or \$6.23, of allowed amount PMPM. Oncology spend is more than six times that of the next-highest category in Medicaid.

**CNS drugs:** Rare disease central nervous system (CNS) drugs such as Spinraza and Exondys contributed to the second-highest category, with trend of both drugs and the category at or near 50%.

**Unclassified codes** would rank 19th as a total drug category for Medicaid.

#### **HIGHEST-COST DRUGS**

The 10 most expensive medical benefit drugs (see figure 72):

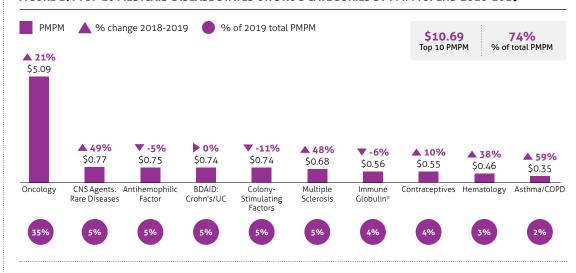
\$380,338 Average PPPY

\$1.59 Total PMPM

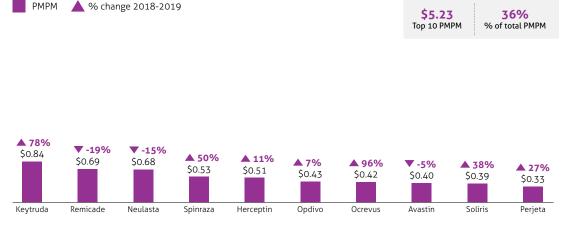
# FIGURE 16: UNCLASSIFIED CODE AND SELECTED DRUGS BY ALLOWED AMOUNT PMPM

J3590	Cuvitru, Benlysta (SC), Revcovi, Zolgensma	\$0.14
C9399	Polivy, Ultomiris	\$0.01
J9999	Imfinzi, Libtayo, Lumoxiti, Polivy	\$0.01
	Total	\$0.16

#### FIGURE 17: TOP 10 MEDICAID DISEASE STATES OR DRUG CATEGORIES BY PMPM SPEND 2018-2019



#### FIGURE 18: TOP 10 MEDICAID MEDICAL BENEFIT DRUGS BY SPEND



\*Immune globulin includes IV and SQ.

#### **Administrative Code Reimbursement**

The impact of spend for the administration of medical benefit drugs was highly dependent on the site of service (SOS). Administration of chemotherapy treatment was two to three times more costly in the hospital outpatient setting compared to administration in the physician office across all lines of business, while coming in as fifth highest spend for Medicaid and top spend for commercial and Medicare.

In Medicare, administration of intravitreal injections, or the administration of ophthalmic agents, closely follows chemotherapy treatment, as ophthalmic injections were a high-volume category for Medicare members.

Medicaid's highest-spend administrative code, immunization administration, had little to no spend in the hospital, indicating that almost all administration was in the physician office.

#### FIGURE 19: 2019 TOP ADMINISTRATIVE CODES BY PMPM FOR HOSPITAL OUTPATIENT AND PHYSICIAN OFFICE

MEDICADE

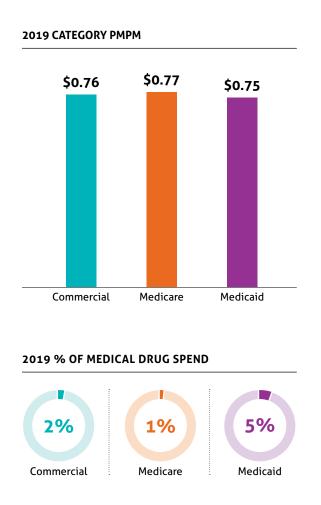
COMMERCIAL			
CPT® Code & Description	Physician	Hospital	Total PMPM
<b>96413</b> Chemotherapy administration, intravenous infusion technique; up to one hour, single or initial substance/drug	\$0.26	\$0.61	\$0.87
<b>96372</b> Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular	\$0.35	\$0.11	\$0.46
90460 Immunization administration through 18 years of age via any route of administration, with counseling by physician or other qualified healthcare professional	\$0.37	\$0.00	\$0.37
96365 Intravenous infusion for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to one hour	\$0.08	\$0.27	\$0.35
96375 Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); each additional sequential intravenous push of a new substance/drug	\$0.03	\$0.30	\$0.33

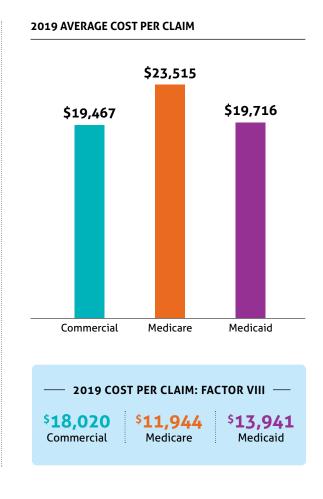
Description Physician Hospital PM  96413 Chemotherapy administration, intravenous infusion technique; up to one hour, single or initial substance/drug  \$0.56 \$1.11 \$1.	
administration, intravenous infusion technique; up to one hour, single or initial substance/drug	tal IPM
	.67
67028 Intravitreal injection of a pharmacologic agent (separate procedure) \$0.86 \$0.05 \$0.05	.91
96365 Intravenous infusion for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to one hour	.73
20610 Aspiration (removal of fluid) from, or injection into, a major joint (defined as a shoulder, hip, knee, or subacromial bursa), or both aspiration and injection of the same joint	.69
96372 Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular	.54

MEDICAID  CPT® Code & Description	Physician	Hospital	Total PMPM
90460 Immunization administration through 18 years of age via any route of administration, with counseling by physician or other qualified healthcare professional	\$0.65	\$0.00	\$0.65
<b>96372</b> Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular	\$0.10	\$0.04	\$0.14
<b>96361</b> Intravenous infusion, hydration; each additional hour	\$0.00	\$0.12	\$0.12
<b>90461</b> Immunization administration each additional component	\$0.12	\$0.00	\$0.12
96413 Chemotherapy administration, intravenous infusion technique; up to one hour, single or initial substance/drug	\$0.03	\$0.08	\$0.11

#### **Antihemophilic Agents**

Antihemophilic factor products have a strong pipeline due to the emergence of gene therapy, where several agents under development are anticipated to be one-time treatment options. These new agents will increase spend for products but decrease overall medical cost of care through reduction of hospitalizations and individual bleed events. However, duration of response will remain to be seen with completion of trials and once marketed. Long-acting hemophilia agents Hemlibra, Eloctate, and Adynovate impacted the category, accounting for 39% of PMPM spend in commercial, 46% in Medicare, and 60% in Medicaid (see appendix figures 73, 74, and 75).





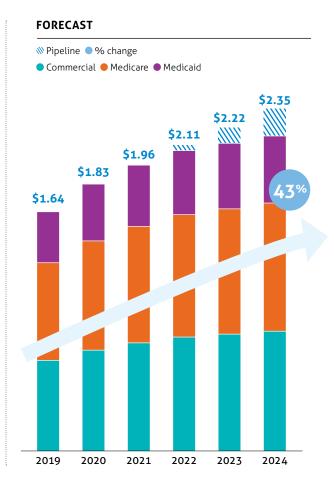


#### Asthma/COPD

Asthma/COPD had some of the highest trends among the top categories. Nucala and Fasenra gained significant market share against Cinqair. Nucala accounted for 14% to 17% of market share, and Fasenra accounted for 7% to 8% of market share across all lines of business. Xolair saw a decrease of seven percentage points in commercial market share due to the growth of these other agents (see appendix figure 76).



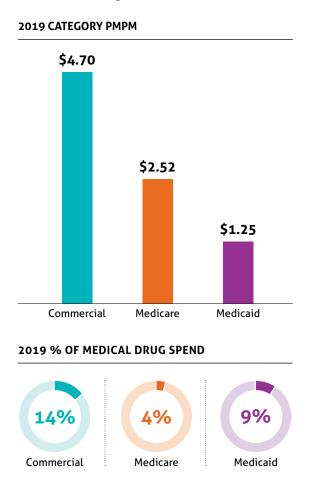


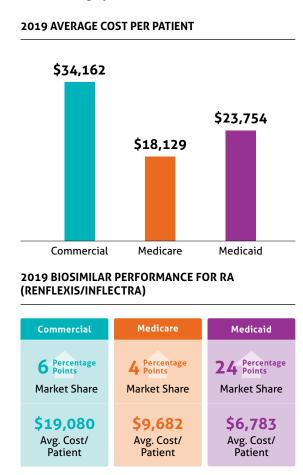


#### **Biologic Drugs for Autoimmune Disorders (BDAIDs)**

BDAIDs include the indications Ankylosing Spondylitis, Crohn's Disease/Ulcerative Colitis, Psoriasis/Psoriatic Arthritis, Rare Autoinflammatory Conditions, Rheumatoid Arthritis (RA), and Systemic Lupus Erythematosus.

In 2019, the two biosimilars Renflexis and Inflectra gained utilization and market share under the RA indication, particularly in commercial and Medicaid, doubling or tripling market share from 2018. Renflexis annual cost per patient was the lowest across all lines of business and represented the lowest market share for commercial and Medicare, but had 13% market share in Medicare (see appendix figures 79, 80, and 81). The continued effect of these biosimilars is additionally illustrated in the total category trend, which was flat in commercial and negative in Medicare and Medicaid, as well as in the total category forecast for 2022 to 2024.



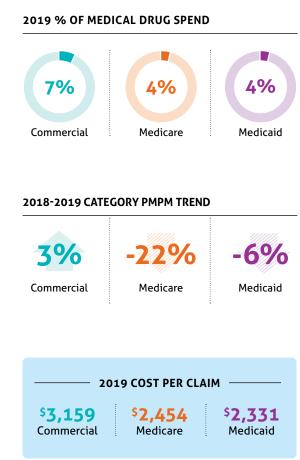


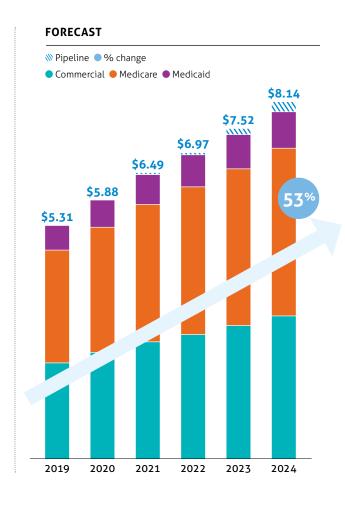


#### Immune Globulin (IG)

The immune globulin category was ranked third in commercial, accounting for 7% of total PMPM spend. Hospital outpatient (HOP) use was narrower in commercial, at 35%, while in Medicare and Medicaid, more than half of utilization (56% and 65%, respectively) was in the HOP setting. Decreases in Gamunex-C/Gammaked cost per patient and PMPM accounted for the decrease in Medicare PMPM trend.

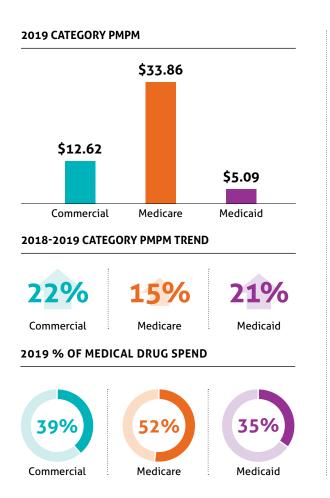


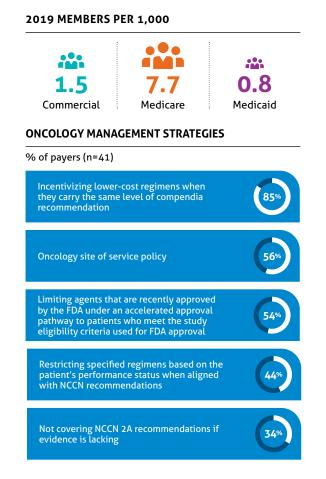


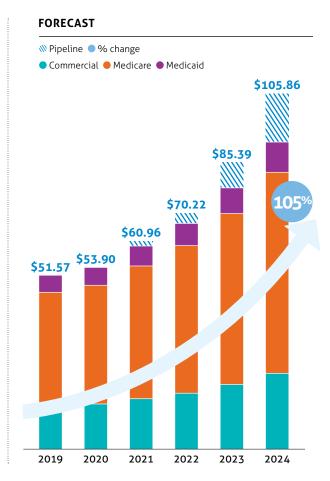


#### Oncology

Oncology spend remained highest among all categories, and members per thousand was highest among the categories featured in Medicare. Oncology trend was 15-22% across all lines of business. The gene therapy and biosimilar pipeline continue to be extremely robust in oncology, as clearly demonstrated in the forecast with 105% growth in the category and pipeline alone accounting for \$14.59 of the staggering \$106 PMPM predicted by 2024. Overall, the oncology pipeline has upward of 700 drugs in clinical trials. As a management strategy, most payers would consider incentivizing lower-cost oncology regimens when they carry the same level of compendia recommendation.







#### **Oncology Support**

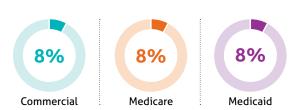
Oncology support includes antiemetics for chemotherapy-induced nausea and vomiting, colony-stimulating factors (CSFs) for immune cell growth, erythropoiesis-stimulating agents (ESAs) for anemia due to chemotherapy, and gastrointestinal: chemoprotectant/hormonal (e.g., sandostatin). The decrease in the forecast reflected a continued decrease in the CSF category for Medicare and Medicaid. This could potentially be attributed to a decline in the use of cytotoxic chemotherapy and continued uptake of the biosimilars (see appendix figures 45 and 46). Except for the forecast, data reflects oncology support use for an oncology indication only.

# \$5.29 \$2.64 \$1.14 Commercial Medicare Medicaid

#### 2018-2019 CATEGORY PMPM TREND



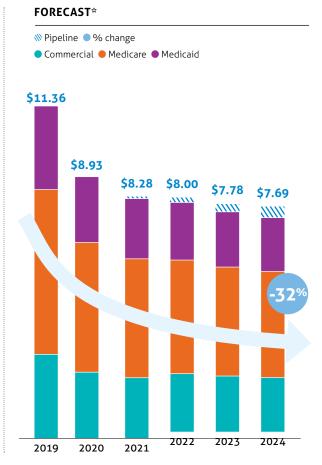
#### 2019 % OF MEDICAL DRUG SPEND



# \$1,303 \$735 Commercial Medicare Medicaid

#### 2019 ONCOLOGY SUPPORT SPEND BY CATEGORY

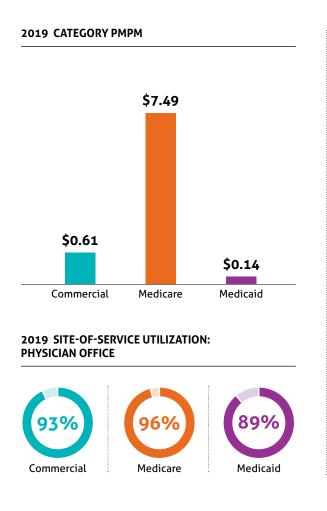
Commercial	Medicare	Medicaid
\$0.34 Antiemetics	\$0.55 Antiemetics	\$0.19 Antiemetics
\$1.95 Colony-Stimulating Factors	\$3.32 Colony-Stimulating Factors	\$0.87 Colony-Stimulating Factors
\$0.08 Erythropoiesis- Stimulating Agents	\$0.80 Erythropoiesis- Stimulating Agents	\$0.04 Erythropoiesis- Stimulating Agents
\$0.25 Gastrointestinal: Chemoprotectant/ Hormonal	\$0.60 Gastrointestinal: Chemoprotectant/ Hormonal	\$0.03 Gastrointestinal: Chemoprotectant/ Hormonal

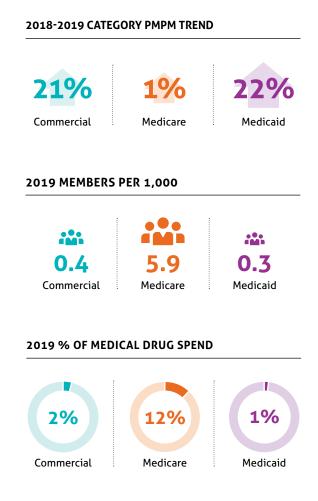


<sup>\*</sup>Forecast is based on all oncology support use and is not broken out for oncology use only.

#### **Ophthalmic Injections**

The ophthalmic injection category continues to have a substantial impact on Medicare. In 2019, it did experience a flat trend, but it grew in commercial and Medicaid. Avastin remains the market leader as the most cost-effective first-line drug in this category and the lowest-cost option. Drugs in the pipeline may shift this and allow for a more competitive landscape as the prevalence of wet age-related macular degeneration (wet AMD) increases. In Medicare, Eylea was the second-highest-spend drug, accounting for \$4.12, or 56%, of total category spend (see appendix figure 107).







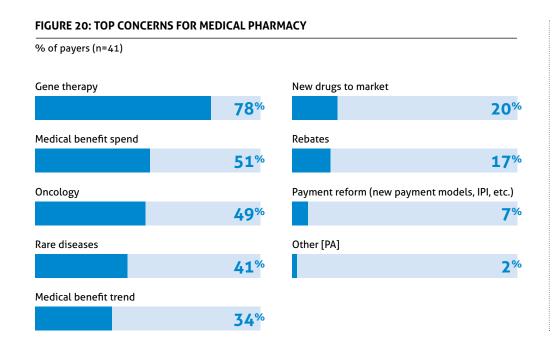
#### MEDICAL PHARMACY MANAGEMENT

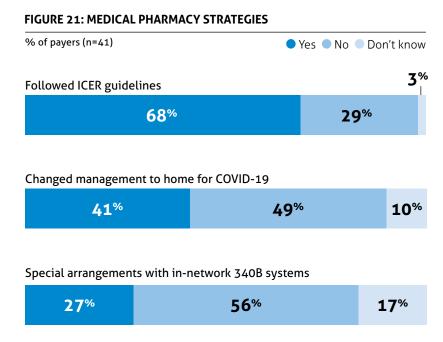
#### **Top Management Trends**

We asked payers about their top concerns when thinking about drugs on the medical benefit. While overall spend was the highest concern last year, this year it dropped to second place as gene therapy took the top spot for 78% of payers. The key to managing these concerns remains innovation. As mentioned in this report over the years, innovative management programs such as site of service, weight-based dosing, vial rounding, and dose optimization are integral strategies to mitigate rising trend.

Plans have identified other cost-saving strategies they are employing, such as:

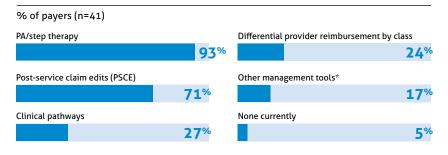
- Centers of excellence
- » Robust approval processes
- » Specialty pharmacy use and elimination of buy and bill
- » Reimbursement strategies for hospitals based on ASP
- » Value-based contracting with shared savings incentives
- » Site-of-service strategies



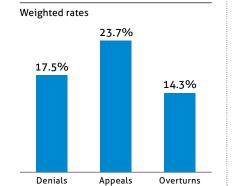


### **Utilization Management**

#### FIGURE 22: UTILIZATION MANAGEMENT TOOLS



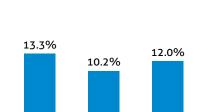
#### **FIGURE 23: PA DETERMINATION RATES**



#### FIGURE 24: PSCE DETERMINATION RATES

Weighted rates

Denials



Appeals

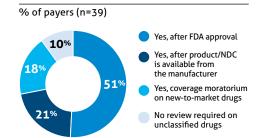
Overturns

#### FIGURE 25: VALUABLE DISCOUNT TO PREFER MEDICAL BENEFIT DRUG

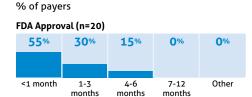


#### **Management: Unclassified Medical Pharmacy**

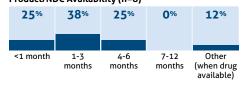
#### **FIGURE 26: PA FOR NEWLY RELEASED MEDICAL BENEFIT DRUGS**



#### FIGURE 27: PA TIMING FOR NEWLY RELEASED MEDICAL SPECIALTY DRUGS



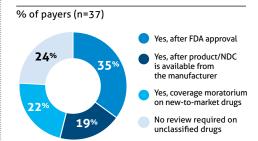
#### Product/NDC Availability (n=8)



#### Coverage Moratorium (n=7)



#### FIGURE 28: PSCE FOR NEWLY RELEASED MEDICAL SPECIALTY DRUGS



#### FIGURE 29: PSCE TIMING FOR NEWLY RELEASED MEDICAL SPECIALTY DRUGS



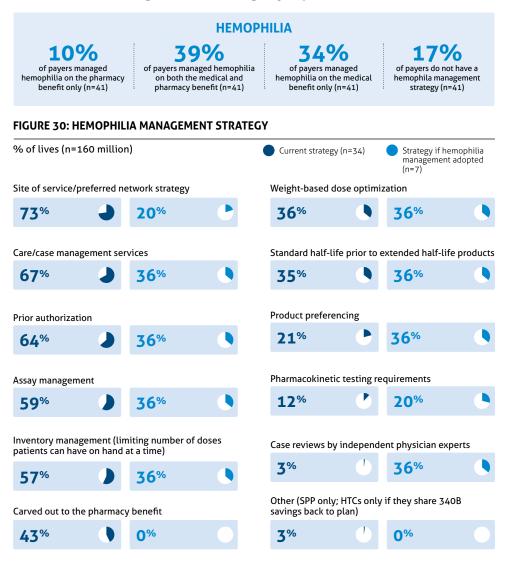


#### Coverage Moratorium (n=8)



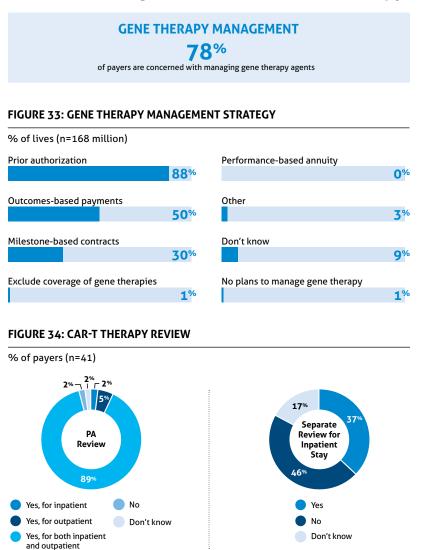
<sup>\*</sup>E.g., SOS programs, hemophilia management, episodes of care, physician education, bundled payments, and benefit carve-outs

### **Utilization Management: Category-Specific**



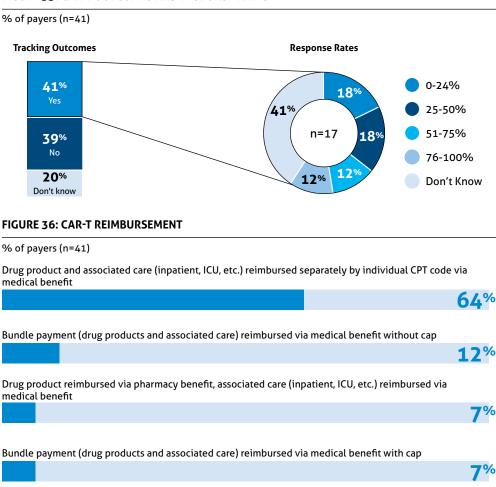
#### RARE DISEASE MANAGEMENT of payers require a medical record for a of payers consult specialists or key opinion leaders (KOLs) for coverage decisions (n=41) rare conditions PA review (n=41) FIGURE 31: RARE DISEASE MANAGEMENT STRATEGY % of payers (n=41) Prior authorization/step therapy Outcomes-based payments 24% Clinical pathways Care/case management 12% 68% Differential provider reimbursement by class Expert clinical review 41% Other tools (COE, SPP) Post-service claim edits (maximum units and/or eligible diagnosis) No management tools 27% **ONCOLOGY IMMUNOTHERAPY MANAGEMENT** of payers are not preferencing agents with of payers preferred Keytruda when there shared indications (n=41) was a shared indication (n=41) FIGURE 32: CHECKPOINT INHIBITOR MANAGEMENT STRATEGY % of lives (n=168 million) Prior authorization Other tools (NCCN, peer review) Post-service claim edits (maximum units +/or Vendor-administered clinical pathways eligible diagnosis) Formulary strategy (rebates, etc.) Differential provider reimbursement (higher margins/drug profit on lower-cost No management tools for checkpoint alternative drugs) by class inhibitor immunotherapies 27% 0% Oncology-specific site of service Don't know 6% 0%

### **Utilization Management: Gene and CAR-T Therapy**



#### FIGURE 35: CAR-T OUTCOMES AND RESPONSE RATES

Don't know

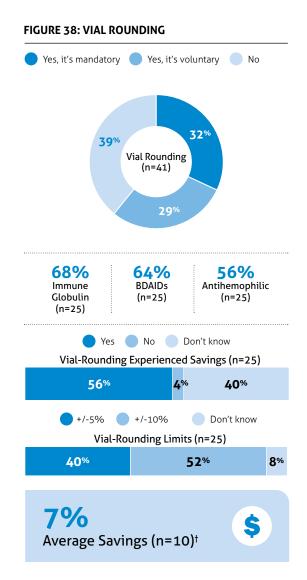


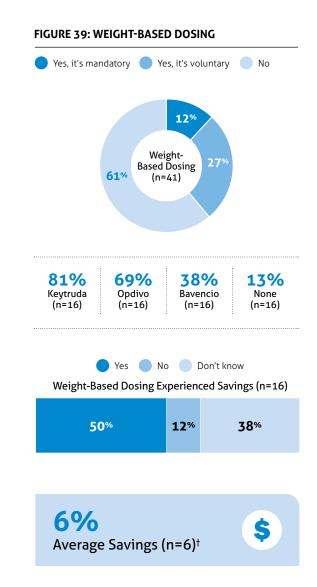
10%

#### MEDICAL PHARMACY MANAGEMENT

#### **Utilization Management Programs**

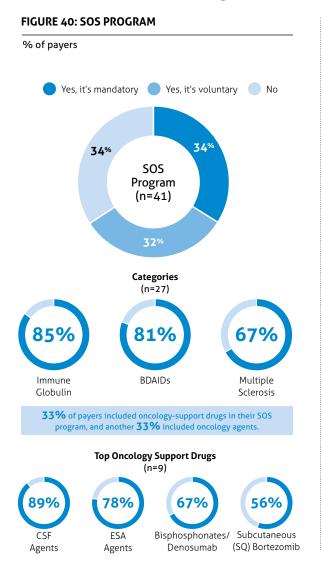
#### FIGURE 37: DOSE OPTIMIZATION PROGRAM Yes, it's mandatory Yes, it's voluntary No 32% 34% Dose Optimization (n=41)34% 78% 63% 56% 56% Antihemophilic **BDAIDs** Oncology Immune Globulin Factor (n=27)Immunotherapy (n=27) (n=27)(n=27) Yes No Don't know Dose-Optimization Experienced Savings (n=27) 8% 48% 44% 11% Average Savings (n=9)†

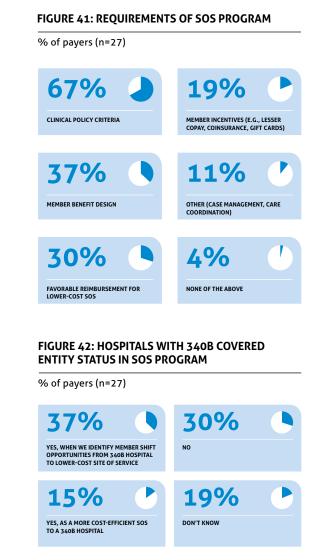


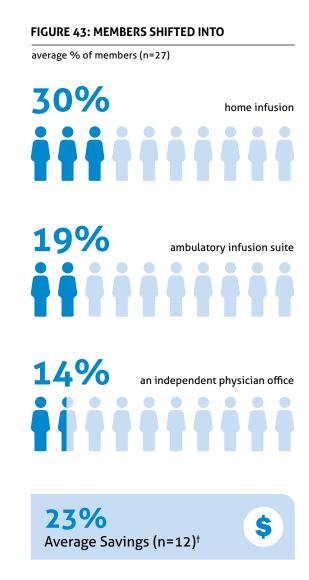


#### **MEDICAL PHARMACY MANAGEMENT**

### Site-of-Service (SOS) Program

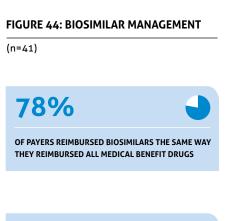




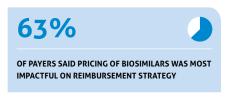


†Savings self-reported

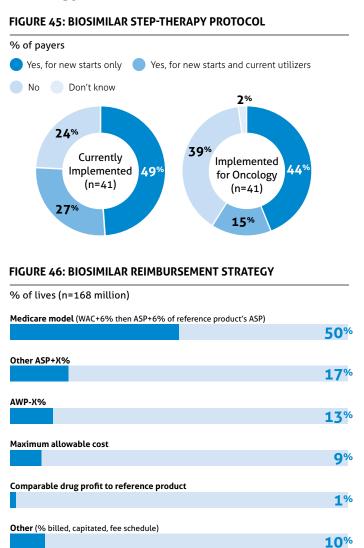
### **Biosimilar Reimbursement and Strategy**



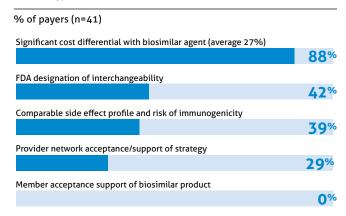




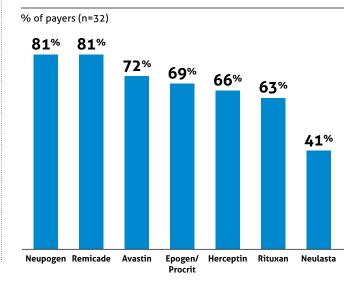




#### FIGURE 47: BIOSIMILAR STEP-THERAPY CRITERIA



# FIGURE 48: BIOSMILAR PRODUCTS PREFERRED OVER THE REFERENCE PRODUCT NAMED



#### MEDICAL PHARMACY MANAGEMENT

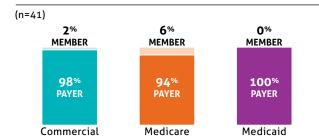
#### Medical Benefit Drug Cost Share<sup>‡</sup>

In medical pharmacy, payer cost burden was high. Medicare members had the highest cost share compared to other lines of business. Among payers with a formal medical benefit structure, up to 44% had a three-tier structure.

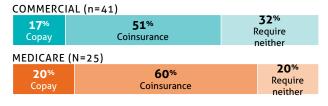
76% of payers are managing out-ofnetwork benefit use (n=41)

22%
of payers have a formal outof-pocket benefit structure for
medical benefit drugs
(n=41)

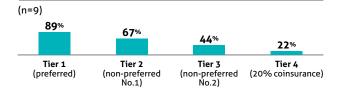
#### FIGURE 49: MEDICAL BENEFIT DRUG COST SHARE



#### FIGURE 50: MEDICAL BENEFIT MEMBER COST SHARE TYPE

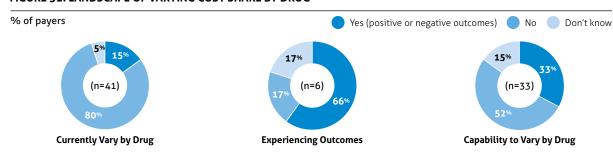


#### FIGURE 51: OOP COST STRUCTURE

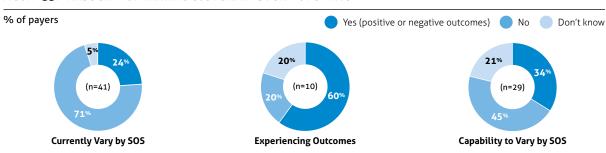


Payers were more likely to vary their cost share by SOS, with 24% varying by SOS and 34% having the capability to vary by SOS. 15% of payers varied cost share by drug, and 7% varied by indication. Of the small amount of payers varying cost share by drug, SOS, or indication, around two-thirds saw positive outcomes from this practice.

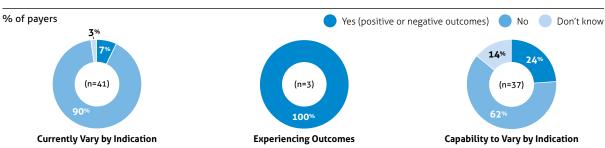
#### FIGURE 52: LANDSCAPE OF VARYING COST SHARE BY DRUG



#### FIGURE 53: LANDSCAPE OF VARYING COST SHARE BY SITE OF SERVICE



#### FIGURE 54: LANDSCAPE OF VARYING COST SHARE BY INDICATION



‡Includes deductible, copay, and coinsurance

71%

#### **Health Information Data**

of payers were currently collecting NDC data (n=41) FIGURE 55: CURRENT NDC DATA **COLLECTION METHODS** % of payers (n=29) Capturing data 97% Storing data **79%** Reporting utilization data by NDC 62% FIGURE 56: DATA COLLECTION USE % of payers (n=29) In utilization management reviews 62% In NDC-based pricing for brands vs. generics 45% In vial management strategies 10% Other [not using yet] 14% Other [rebates; price confirmation] 14% 54% of payers used forecasting data on a quarterly basis (n=35)

FIGURE 57: PROVIDERS COLLECTING AND REPORTING OUTCOMES DATA

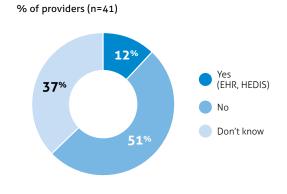


FIGURE 58: MANAGEMENT CHANGES BASED ON

# Wo of payers (n=5) Outreach programs 40% Adjusted reimbursement based on quality metrics improvements 40% Other pay for performance, value-based agreements 40% Have not implemented changes to date

FIGURE 59: USE OF FORECASTING DATA FOR **MEDICAL PHARMACY STRATEGY** % of payers (n=41) Yes, for actuaries and pricing 68% Yes, to determine future UM tools 54% Yes, for program evaluation/adoption 49% Not currently 15% FIGURE 60: USE OF PIPELINE INFORMATION % of payers (n=41) Forecasting trends 85% New drug approvals 80% Release dates

63%

of payers used forecasting across their

total pharmacy strategy (n=35)

Impact to industry

73%

66%

#### MEDICAL BENEFIT PIPELINE AND FORECAST

In 2020, the FDA approved 53 new molecular entities (NMEs) and a dozen biological drugs. Most notable are the multiple agents approved to treat cancer, such as gene therapy Tecartus for mantle cell lymphoma, Sarclisa and Blenrep for multiple myeloma, Danyelza for neuroblastoma, and Trodelvy for metastatic triple-negative breast cancer, among others. There were several agents approved to treat rare disease, such as Enspryng and Uplizna for neuromyelitis optica spectrum disorder, Viltepso for Duchenne muscular dystrophy, Orladeyo for hereditary angioedema, and Evrysdi, the first oral agent to treat spinal muscular atrophy. 2020 saw multiple vaccines and Emergency Use Authorization for prevention and treatment of COVID-19, such as Veklurv.

The below pipeline drug outlook is an aerial outline of drugs with anticipated FDA approval through 2021. It is not intended to be a comprehensive inventory of all drugs in the pipeline; emphasis is placed on drugs in high-impact categories. Investigational drugs with a Complete Response Letter (CRL) and those that have been withdrawn from development are also noted. (see figure 61). The segment of pipeline drugs anticipated to have at least \$1 billion in spend is expected to increase 33%, from 48 drugs in 2019 to 64 drugs in 2025 (see figure 62).

Forecasting powered by

Data provided by Evaluate Ltd. EvaluatePharma®.

For more detailed drug pipeline information, visit www.magellanrx.com/pipeline.

#### FIGURE 61: PIPELINE DRUG OUTLOOK THROUGH 20211

# APPLICATION SUBMITTED IN PHASE 3 TO THE FDA TRIALS 61% 39% 37% 34% 35% 34% 23% 10%

Priority

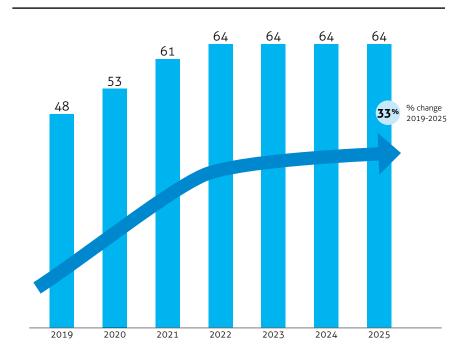
Review

Breakthrough

Therapy

Biosimilar

#### FIGURE 62: BILLION-DOLLAR DRUGS FORECAST<sup>2</sup>



Traditional

Specialty

Orphan

Drug

<sup>&</sup>lt;sup>1</sup>MRx Pipeline Report January 2021. https://www1.maqellanrx.com/publications/mrx-pipeline/.

<sup>&</sup>lt;sup>2</sup>Data provided by Evaluate Ltd. EvaluatePharma®

FIGURE 63: MEDICAL PHARMACY ALLOWED AMOUNT PMPM 2015-2019

	2015	2015-2016 % Change	2016	2016-2017 % Change	2017	2017-2018 % Change	2018	2018-2019 % Change	2019
COMMERCIAL									
Home Infusion	\$3.16	▲ 5%	\$3.32	<b>▲</b> 7%	\$3.55	<b>▲</b> 13%	\$4.01	<b>▲</b> 7%	\$4.30
Hospital OP	\$10.08	<b>4</b> %	\$10.53	▲ 9%	\$11.48	▲ 20%	\$13.74	<b>▲</b> 21%	\$16.63
Physician Office	\$7.47	<b>1</b> 1%	\$8.31	<b>▲</b> 12%	\$9.28	<b>▲</b> 18%	\$10.93	▲ 8%	\$11.80
Total	\$20.71	<b>▲</b> 7%	\$22.16	<b>10%</b>	\$24.31	<b>▲ 18%</b>	\$28.68	<b>14%</b>	\$32.73
MEDICARE									
Home Infusion	\$3.62	<b>▲</b> 11%	\$4.03	<b>▲</b> 6%	\$4.27	▼-5%	\$4.06	▼-9%	\$3.71
Hospital OP	\$18.44	▲ 8%	\$19.93	▲ 5%	\$20.93	▲ 8%	\$22.63	<b>▲</b> 7%	\$24.17
Physician Office	\$27.06	<b>1</b> %	\$27.31	<b>▲</b> 13%	\$30.96	<b>▲</b> 11%	\$34.38	<b>▲</b> 7%	\$36.72
Total	\$49.12	<b>4</b> %	\$51.28	<b>10%</b>	\$56.16	▲ 9%	\$61.07	<b>▲</b> 6%	\$64.59
MEDICAID									
Home Infusion	\$1.64	▼-2%	\$1.61	<b>▼</b> -3%	\$1.56	<b>4</b> %	\$1.62	<b>1</b> 9%	\$1.92
Hospital OP	\$5.37	<b>1</b> 0%	\$5.90	▼-2%	\$5.78	▲ 25%	\$7.21	<b>1</b> 6%	\$8.39
Physician Office	\$3.14	<b>▲</b> 16%	\$3.64	▼-8%	\$3.33	▲ 8%	\$3.60	<b>▲</b> 16%	\$4.19
Total	\$10.15	<b>10%</b>	\$11.15	▼-4%	\$10.68	<b>▲ 16%</b>	\$12.42	<b>1</b> 7%	\$14.51

#### FIGURE 64: 2019 TOP 20 COMMERCIAL COST TRENDS BY DISEASE STATE OR DRUG CATEGORY

Rank	Commercial Therapy	2018 PMPM	2019 PMPM	2018-2019 % Change	% of Total PMPM	Cost per Claim	Members per 1,000	ASP Index	AWP Index
1	Oncology	\$10.30	\$12.62	22%	38.6%	\$3,151	1.50	1.67	1.26
2	BDAID: Crohn's Disease/Ulcerative Colitis	\$2.64	\$2.89	9%	8.8%	\$6,716	0.32	1.67	0.94
3	Immune Globulin	\$2.12	\$2.18	3%	6.7%	\$3,159	0.15	1.33	0.64
4	Multiple Sclerosis	\$1.46	\$2.16	48%	6.6%	\$18,778	0.11	1.61	1.28
5	Colony-Stimulating Factors	\$1.87	\$2.00	7%	6.1%	\$5,372	0.32	-	0.36
6	BDAID: Rheumatoid Arthritis	\$1.17	\$0.99	-15%	3.0%	\$3,826	0.15	1.30	0.80
7	Antihemophilic Factor	\$0.68	\$0.76	11%	2.3%	\$19,467	0.01	1.79	1.26
8	Hematology	\$0.57	\$0.75	32%	2.3%	\$11,873	0.01	1.46	1.19
9	Other	\$0.52	\$0.63	21%	1.9%	\$140	9.50	1.83	0.91
10	Asthma/COPD	\$0.50	\$0.62	25%	1.9%	\$665	2.23	1.35	1.06
11	Ophthalmic Injections	\$0.51	\$0.61	21%	1.9%	\$1,200	0.43	1.23	0.95
12	Enzyme-Replacement Therapy	\$0.33	\$0.47	40%	1.4%	\$15,074	0.01	1.87	1.19
13	Contraceptives	\$0.42	\$0.46	9%	1.4%	\$650	2.15	-	0.85
14	Infectious Disease	\$0.47	\$0.44	-7%	1.3%	\$72	13.88	2.44	0.75
15	Botulinum Toxins	\$0.42	\$0.42	2%	1.3%	\$1,066	0.54	1.36	1.09
16	BDAID: Psoriasis/Psoriatic Arthritis	\$0.44	\$0.40	-11%	1.2%	\$6,809	0.05	1.45	0.77
17	Iron, Intravenous	\$0.32	\$0.39	22%	1.2%	\$645	0.76	2.07	1.09
18	Antiemetics	\$0.43	\$0.39	-8%	1.2%	\$103	8.77	2.67	1.76
19	CNS Agents: Rare Diseases	\$0.24	\$0.29	18%	0.9%	\$62,705	0.00	-	0.94
20	Gastrointestinal: Chemoprotectant/Hormonal	\$0.25	\$0.29	17%	0.9%	\$7,970	0.02	1.69	1.26

#### FIGURE 65: 2019 TOP 20 MEDICARE COST TRENDS BY DISEASE STATE OR DRUG CATEGORY

Rank	Medicare Therapy	2018 PMPM	2019 PMPM	2018-2019 % Change	% of Total PMPM	Cost per Claim	Members per 1,000	ASP Index	AWP Index
1	Oncology	\$29.50	\$33.86	15%	52.4%	\$2,148	7.7	1.02	0.76
2	Ophthalmic Injections	\$7.43	\$7.49	1%	11.6%	\$925	5.9	1.07	0.83
3	Colony-Stimulating Factors	\$3.62	\$3.43	-5%	5.3%	\$2,616	1.6	1.03	0.61
4	Immune Globulin	\$3.28	\$2.57	-22%	4.0%	\$2,454	0.4	1.11	0.54
5	Multiple Sclerosis	\$1.45	\$1.73	19%	2.7%	\$12,693	0.2	0.97	0.77
6	Hematology	\$1.21	\$1.46	21%	2.3%	\$5,416	0.1	1.00	0.80
7	Other	\$1.19	\$1.30	10%	2.0%	\$100	21.3	1.22	0.70
8	BDAID: Rheumatoid Arthritis	\$2.02	\$1.29	-36%	2.0%	\$2,748	0.3	0.95	0.58
9	Viscosupplementation	\$0.95	\$1.14	20%	1.8%	\$344	4.7	1.84	0.44
10	Bone Resorption Inhibitors (Osteoporosis)	\$0.82	\$0.98	19%	1.5%	\$919	3.1	1.02	0.74
11	Erythropoiesis-Stimulating Agents	\$1.19	\$0.92	-22%	1.4%	\$522	1.3	1.03	0.48
12	BDAID: Crohn's Disease/Ulcerative Colitis	\$0.95	\$0.79	-16%	1.2%	\$4,152	0.2	0.97	0.57
13	Antihemophilic Factor	\$0.58	\$0.77	33%	1.2%	\$23,515	0.0	2.09	1.37
14	Botulinum Toxins	\$0.62	\$0.72	16%	1.1%	\$853	1.2	1.04	0.84
15	Gastrointestinal: Chemoprotectant/Hormonal	\$0.84	\$0.69	-18%	1.1%	\$4,723	0.1	0.96	0.71
16	Iron, Intravenous	\$0.58	\$0.67	16%	1.0%	\$393	2.2	1.02	0.52
17	Asthma/COPD	\$0.65	\$0.67	2%	1.0%	\$280	4.6	0.97	0.59
18	Antiemetics	\$0.77	\$0.55	-28%	0.9%	\$119	4.6	1.13	0.72
19	Enzyme-Replacement Therapy	\$0.01	\$0.46	-	0.7%	\$6,390	0.0	1.24	0.87
20	Infectious Disease	\$0.49	\$0.46	-7%	0.7%	\$59	13.0	1.33	0.44

#### FIGURE 66: 2019 TOP 20 MEDICAID COST TRENDS BY DISEASE STATE OR DRUG CATEGORY

Rank	Medicaid Therapy	2018 PMPM	2019 PMPM	2018-2019 % Change	% of Total PMPM	Cost per Claim	Members per 1,000	ASP Index	AWP Index
1	Oncology	\$4.20	\$5.09	21%	35.1%	\$2,450	0.8	1.27	0.97
2	CNS Agents: Rare Diseases	\$0.51	\$0.77	49%	5.3%	\$61,047	0.0	-	0.77
3	Antihemophilic Factor	\$0.79	\$0.75	-5%	5.2%	\$19,716	0.0	1.17	0.76
4	BDAID: Crohn's Disease/Ulcerative Colitis	\$0.74	\$0.74	0%	5.1%	\$5,814	0.1	1.47	0.81
5	Colony-Stimulating Factors	\$0.84	\$0.74	-11%	5.1%	\$4,266	0.2	1.39	0.82
6	Multiple Sclerosis	\$0.46	\$0.68	48%	4.7%	\$14,630	0.1	1.20	0.95
7	Immune Globulin	\$0.59	\$0.56	-6%	3.8%	\$2,331	0.1	1.30	0.63
8	Contraceptives	\$0.50	\$0.55	10%	3.8%	\$363	3.9	-	0.83
9	Hematology	\$0.34	\$0.46	38%	3.2%	\$7,550	0.0	1.23	1.01
10	Asthma/COPD	\$0.22	\$0.35	59%	2.4%	\$397	2.4	1.14	0.91
11	Enzyme-Replacement Therapy	\$0.26	\$0.33	28%	2.3%	\$14,463	0.0	1.44	1.07
12	Botulinum Toxins	\$0.32	\$0.33	2%	2.2%	\$1,138	0.6	1.14	0.92
13	Progestins	\$0.10	\$0.28	179%	1.9%	\$970	0.1	-	0.85
14	BDAID: Rheumatoid Arthritis	\$0.30	\$0.26	-13%	1.8%	\$3,120	0.1	1.22	0.70
15	Infectious Disease	\$0.22	\$0.24	13%	1.7%	\$78	6.1	1.52	0.58
16	Other	\$0.14	\$0.24	67%	1.6%	\$103	4.5	1.56	1.00
17	Antiemetics	\$0.22	\$0.20	-11%	1.3%	\$72	5.8	2.41	1.64
18	Iron, Intravenous	\$0.15	\$0.18	14%	1.2%	\$469	0.5	1.34	0.72
19	Unclassified	\$0.11	\$0.17	53%	1.2%	\$360	0.8	-	-
20	Corticosteroids	\$0.12	\$0.17	37%	1.2%	\$25	14.3	2.12	1.57

FIGURE 67: COMMERCIAL TOP 25 DRUGS COST TRENDS 2018-2019

						PMPM		COST PER PATIENT			MEMBER	S/1.000
Rank	PY Rank	Change in Rank	HCPCS	Brand	2018	2019	% Change	2018	2019	% Change	2018	2019
1	1	<b>&gt;</b>	J1745	Remicade	\$2.49	\$2.30	-8%	\$35,610	\$34,839	-2%	0.30	0.27
2	2	<b>&gt;</b>	J2505	Neulasta	\$1.78	\$1.77	0%	\$29,233	\$31,213	7%	0.27	0.24
3	7	<b>A</b>	J2350	Ocrevus	\$0.77	\$1.42	85%	\$77,957	\$82,688	6%	0.04	0.07
4	3	▼	J9355	Herceptin	\$1.31	\$1.33	2%	\$63,187	\$71,235	13%	0.09	0.08
5	4	▼	J931X	Rituxan	\$1.23	\$1.30	6%	\$38,774	\$42,241	9%	0.14	0.13
6	9	<b>A</b>	J9271	Keytruda	\$0.74	\$1.29	74%	\$77,253	\$87,257	13%	0.04	0.06
7	5	▼	19035	Avastin	\$1.02	\$1.15	13%	\$20,466	\$23,588	15%	0.22	0.21
8	8	<b>&gt;</b>	]3380	Entyvio	\$0.75	\$1.07	42%	\$38,349	\$40,367	5%	0.08	0.11
9	6	▼	]9299	Opdivo	\$0.93	\$1.02	10%	\$81,868	\$92,437	13%	0.05	0.05
10	11	<b>A</b>	19306	Perjeta	\$0.62	\$0.73	18%	\$58,706	\$66,489	13%	0.06	0.05
11	12	<b>A</b>	J2323	Tysabri	\$0.59	\$0.66	12%	\$65,840	\$71,220	8%	0.04	0.04
12	15	<b>A</b>	]1300	Soliris	\$0.45	\$0.64	42%	\$457,591	\$474,998	4%	0.00	0.01
13	10	▼	J1561	Gamunex-C/Gammaked	\$0.64	\$0.63	-2%	\$55,317	\$48,083	-13%	0.04	0.05
14	13	▼	J1569	Gammagard Liquid	\$0.51	\$0.54	6%	\$46,865	\$46,606	-1%	0.04	0.05
15	14	▼	J0897	Xgeva/Prolia	\$0.47	\$0.53	13%	\$4,997	\$5,206	4%	0.41	0.43
16	17	<b>A</b>	J2357	Xolair	\$0.39	\$0.41	6%	\$20,143	\$19,417	-4%	0.08	0.08
17	16	▼	J0585	Botox	\$0.39	\$0.40	2%	\$3,046	\$3,206	5%	0.55	0.51
18	24	<b>A</b>	J9145	Darzalex	\$0.26	\$0.38	48%	\$107,326	\$114,044	6%	0.01	0.01
19	20	<b>A</b>	J1459	Privigen	\$0.32	\$0.38	21%	\$45,478	\$47,356	4%	0.03	0.03
20	21	<b>A</b>	J0178	Eylea	\$0.31	\$0.38	24%	\$11,041	\$11,778	7%	0.12	0.13
21	18	▼	J9228	Yervoy	\$0.33	\$0.36	11%	\$112,689	\$107,152	-5%	0.01	0.02
22	23	<b>A</b>	19305	Alimta	\$0.28	\$0.35	27%	\$41,154	\$46,502	13%	0.04	0.03
23	22	▼	J0129	Orencia	\$0.29	\$0.31	7%	\$32,086	\$32,830	2%	0.04	0.04
24	55	<b>A</b>	19354	Kadcyla	\$0.12	\$0.29	142%	\$77,107	\$106,789	38%	0.01	0.01
25	19	▼	J3357	Stelara	\$0.32	\$0.29	-11%	\$42,406	\$52,879	25%	0.03	0.02

#### FIGURE 68: MEDICARE TOP 25 DRUGS COST TRENDS 2018-2019

					РМРМ				COST PER PATIEN	MEMBERS/1,000		
Rank	PY Rank	Change in Rank	HCPCS	Brand	2018	2019	% Change	2018	2019	% Change	2018	2019
1	2	<b>A</b>	J9271	Keytruda	\$4.11	\$5.87	43%	\$54,249	\$52,650	-3%	0.67	0.45
2	1	▼	J0178	Eylea	\$4.12	\$4.12	0%	\$9,871	\$10,565	7%	1.55	1.92
3	3	<b>&gt;</b>	J9299	Opdivo	\$3.59	\$4.02	12%	\$54,150	\$58,645	8%	0.41	0.40
4	4	<b>&gt;</b>	J2505	Neulasta	\$3.39	\$2.92	-14%	\$16,927	\$16,222	-4%	1.08	1.21
5	6	<b>A</b>	J2778	Lucentis	\$2.81	\$2.84	1%	\$10,247	\$10,158	-1%	1.11	1.27
6	5	▼	J931X	Rituxan	\$3.02	\$2.73	-10%	\$24,959	\$23,702	-5%	0.50	0.52
7	7	•	J0897	Xgeva/Prolia	\$2.72	\$2.68	-1%	\$3,332	\$3,049	-8%	3.67	3.53
8	8	<b>&gt;</b>	J9035	Avastin	\$2.00	\$2.20	10%	\$2,797	\$3,093	11%	4.25	4.35
9	9	<b>&gt;</b>	19355	Herceptin	\$1.95	\$1.94	0%	\$43,575	\$40,237	-8%	0.29	0.27
10	13	<b>A</b>	J9145	Darzalex	\$1.15	\$1.52	32%	\$60,034	\$60,730	1%	0.15	0.12
11	563	<b>A</b>	J9173	Imfinzi	\$0.00	\$1.26	-	\$0	\$57,920	-	0.13	0.00
12	19	<b>A</b>	J2350	Ocrevus	\$0.73	\$1.15	58%	\$40,206	\$47,184	17%	0.11	0.08
13	14	<b>A</b>	J9305	Alimta	\$1.01	\$1.10	10%	\$24,986	\$23,830	-5%	0.28	0.24
14	15	<b>A</b>	J1300	Soliris	\$0.94	\$1.10	17%	\$279,069	\$290,023	4%	0.02	0.01
15	34	<b>A</b>	J9022	Tecentriq	\$0.44	\$0.98	123%	\$46,711	\$46,168	-1%	0.13	0.06
16	12	▼	J9041	Velcade	\$1.20	\$0.97	-19%	\$24,243	\$21,873	-10%	0.26	0.30
17	10	▼	J1745	Remicade	\$1.35	\$0.93	-31%	\$20,236	\$16,563	-18%	0.23	0.29
18	25	<b>A</b>	J9228	Yervoy	\$0.57	\$0.88	54%	\$63,157	\$63,378	0%	0.08	0.06
19	11	▼	J1569	Gammagard Liquid	\$1.28	\$0.82	-35%	\$31,616	\$23,143	-27%	0.14	0.16
20	22	<b>A</b>	J9306	Perjeta	\$0.67	\$0.82	22%	\$42,420	\$39,540	-7%	0.12	0.10
21	20	▼	J9217	Eligard/Lupron Depot	\$0.72	\$0.75	5%	\$1,837	\$1,887	3%	1.64	1.71
22	21	▼	J9264	Abraxane	\$0.71	\$0.69	-3%	\$18,513	\$16,283	-12%	0.25	0.23
23	16	▼	J2353	Sandostatin	\$0.83	\$0.69	-17%	\$40,901	\$35,199	-14%	0.09	0.09
24	27	<b>A</b>	J0585	Botox	\$0.55	\$0.63	15%	\$2,150	\$2,363	10%	1.08	1.15
25	17	▼	J1561	Gamunex-C/Gammaked	\$0.80	\$0.62	-22%	\$29,766	\$23,345	-22%	0.10	0.10

#### FIGURE 69: MEDICAID TOP 25 DRUGS COST TRENDS 2018-2019

					РМРМ				COST PER PATIENT	MEMBERS/1,000		
Rank	PY Rank	Change in Rank	HCPCS	Brand	2018	2019	% Change	2018	2019	% Change	2018	2019
1	3	<b>A</b>	J9271	Keytruda	\$0.47	\$0.84	78%	\$53,792	\$63,897	19%	0.05	0.08
2	1	▼	J1745	Remicade	\$0.85	\$0.69	-19%	\$29,974	\$25,620	-15%	0.11	0.11
3	2	▼	J2505	Neulasta	\$0.80	\$0.68	-15%	\$21,411	\$21,123	-1%	0.15	0.13
4	7	<b>A</b>	J2326	Spinraza	\$0.35	\$0.53	50%	\$316,436	\$336,155	6%	0.01	0.02
5	4	▼	19355	Herceptin	\$0.46	\$0.51	11%	\$41,545	\$46,594	12%	0.07	0.04
6	6	<b>&gt;</b>	J9299	Opdivo	\$0.40	\$0.43	7%	\$46,022	\$54,014	17%	0.05	0.03
7	14	<b>A</b>	J2350	Ocrevus	\$0.22	\$0.42	96%	\$40,521	\$50,850	25%	0.02	0.03
8	5	▼	19035	Avastin	\$0.42	\$0.40	-5%	\$11,053	\$10,668	-3%	0.23	0.22
9	9	<b>&gt;</b>	J1300	Soliris	\$0.28	\$0.39	38%	\$245,242	\$295,653	21%	0.00	0.01
10	10	<b>&gt;</b>	J9306	Perjeta	\$0.26	\$0.33	27%	\$39,023	\$43,705	12%	0.04	0.03
11	8	▼	J0585	Botox	\$0.29	\$0.29	1%	\$3,043	\$3,006	-1%	0.39	0.59
12	11	▼	J931X	Rituxan	\$0.26	\$0.28	9%	-	\$23,608	-	0.08	0.05
13	32	<b>A</b>	J1726	Makena	\$0.10	\$0.28	182%	\$5,151	\$8,143	58%	0.08	0.13
14	17	▼	J2357	Xolair	\$0.18	\$0.24	30%	\$20,119	\$17,967	-11%	0.04	0.05
15	19	<b>A</b>	J1428	Exondys	\$0.16	\$0.23	46%	\$1,104,165	\$925,402	-16%	0.00	0.00
16	12	▼	J2323	Tysabri	\$0.23	\$0.22	-5%	\$45,932	\$51,620	12%	0.02	0.02
17	-	-	J7170	Hemlibra	-	\$0.22	-	-	\$242,055	-	-	0.01
18	24	<b>A</b>	J3380	Entyvio	\$0.14	\$0.21	48%	\$25,093	\$28,223	12%	0.02	0.03
19	15	▼	J7307	Implanon	\$0.19	\$0.21	10%	\$997	\$925	-7%	0.77	0.90
20	21	<b>A</b>	19305	Alimta	\$0.15	\$0.19	24%	\$29,310	\$33,566	15%	0.03	0.03
21	13	▼	J1561	Gamunex-C/Gammaked	\$0.22	\$0.18	-18%	\$30,762	\$29,129	-5%	0.03	0.02
22	22	<b>&gt;</b>	J7298	Mirena	\$0.15	\$0.16	6%	\$1,006	\$975	-3%	0.92	0.67
23	28	<b>A</b>	J9042	Adcetris	\$0.11	\$0.16	41%	\$59,307	\$243,378	310%	0.01	0.01
24	65	<b>A</b>	J0256	Aralast	\$0.04	\$0.16	266%	\$115,749	\$138,578	20%	0.00	0.00
25	-	-	J9173	Imfinzi	-	\$0.16	-	-	\$54,488	-	-	0.02

FIGURE 70: 2019 TOP 10 HIGHEST-COST COMMERCIAL **MEDICAL BENEFIT DRUGS** 

### **ANNUAL ALLOWED PER PATIENT**

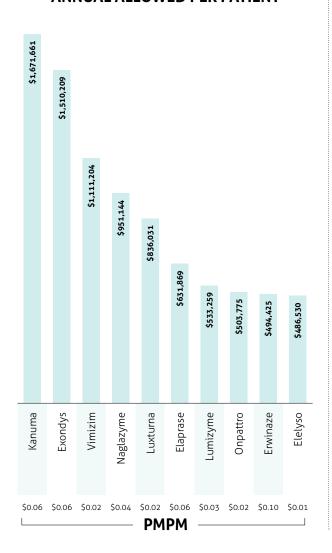


FIGURE 71: 2019 TOP 10 HIGHEST-COST MEDICARE **MEDICAL BENEFIT DRUGS** 

### **ANNUAL ALLOWED PER PATIENT**

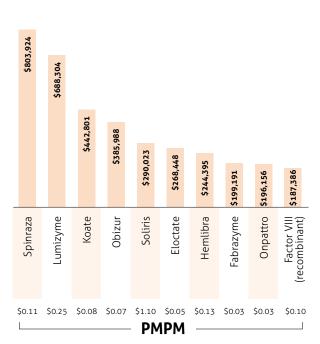
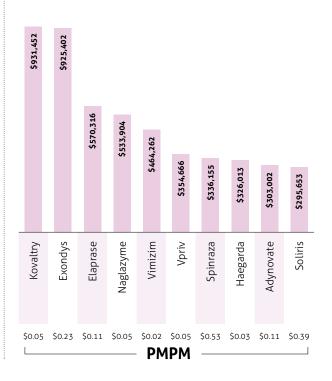


FIGURE 72: 2019 TOP 10 HIGHEST-COST MEDICAID **MEDICAL BENEFIT DRUGS** 

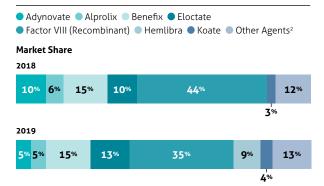
### **ANNUAL ALLOWED PER PATIENT**



#### 2019 MARKET SHARE TRENDS<sup>1</sup>

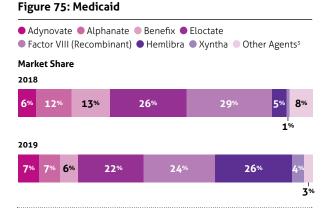
### **Antihemophilic**

#### Figure 73: Commercial



### Figure 74: Medicare ● Alphanate ● Benefix ● Eloctate ● Factor VIII (Recombinant) ● Hemlibra ● Koate ● Nuwiq Market Share 2018 54% 11% 32% 4% 2019

44%



#### Annual Cost per Patient<sup>4</sup>

Brand	2018	2019
Adynovate	\$316,162	\$349,852
Alprolix	\$352,440	\$449,552
Benefix	\$158,891	\$117,344
Eloctate	\$384,065	\$423,289
Factor VIII (Recombinant)	\$172,247	\$193,547
Hemlibra	-	\$225,576
Koate	\$169,527	\$106,683
Other agents <sup>2</sup>	\$270,762	\$319,038

#### **Annual Cost per Patient**

11%

3%

Brand	2018	2019
Benefix	\$45,312	-
Eloctate	-	\$268,448
Factor VIII (Recombinant)	\$106,960	\$187,386
Hemlibra	-	\$244,395
Koate	\$532,739	\$442,801
Nuwiq	\$405,621	\$179,975

**15**%

9%

18%

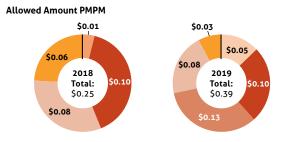
#### **Annual Cost per Patient**

**Allowed Amount PMPM** 

Brand	2018	2019
Adynovate	\$442,322	\$303,002
Alphanate	\$379,115	\$216,312
Benefix	\$107,601	\$31,049
Eloctate	\$187,235	\$149,218
Factor VIII (Recombinant)	\$135,889	\$81,500
Hemlibra	\$82,993	\$242,055
Xyntha	\$3,728	\$37,903
Other agents <sup>3</sup>	\$137,087	\$123,510

#### **Allowed Amount PMPM**







Due to rounding, totals may not add up accurately.

\$0.02

<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis.

<sup>2</sup> Other Commercial agents were Xyntha, Alphanate, Idelvion, Nuwiq, Tretten, and Afstyla. All accounted for between 1% and 3% of market share; Xyntha accounted for \$0.03 PMPM.

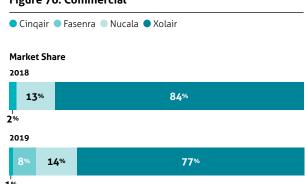
<sup>3</sup> Other Medicaid agents were Alprolix, Idelvion, Nuwiq, and Afstyla. Nuiwq accounted for 5% of market share; Alprolix and Afstyla each accounted for \$0.03 PMPM.

<sup>4</sup> Low patient count and variable disease burden may lead to increased variability in the cost per patient compared to other disease categories.

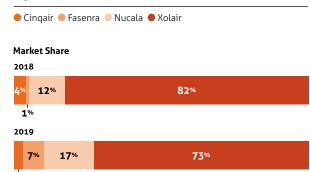
#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### Asthma/COPD

Figure 76: Commercial



#### Figure 77: Medicare



### Figure 78: Medicaid



2019



#### **Annual Cost per Patient**

Brand	2018	2019
Cinqair	\$33,247	\$28,880
Fasenra	\$28,525	\$18,305
Nucala	\$20,557	\$24,993
Xolair	\$20,143	\$19,417

#### **Annual Cost per Patient**

3%

Brand	2018	2019
Cinqair	\$17,082	\$18,209
Fasenra	\$15,511	\$17,975
Nucala	\$14,883	\$15,740
Xolair	\$17,127	\$15,134

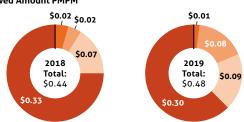
#### **Annual Cost per Patient**

Brand	2018	2019
Cinqair	\$7,470	\$21,395
Fasenra	\$2,480	\$15,046
Nucala	\$14,330	\$15,049
Xolair	\$20,119	\$17,967

#### **Allowed Amount PMPM**



#### **Allowed Amount PMPM**





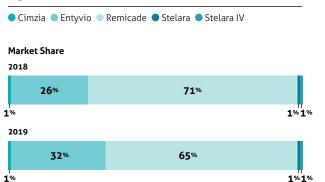


 $<sup>1\</sup> Only\ drugs\ with\ $0.01\ PMPM\ or\ greater\ were\ included\ in\ market\ share\ analysis.$  Due to rounding, totals may not add up accurately.

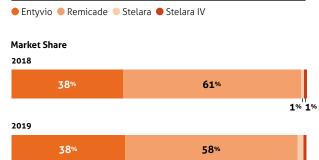
#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **BDAIDs: Crohn's Disease/UC**

# Figure 79: Commercial



### Figure 80: Medicare

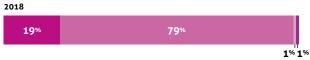


#### Figure 81: Medicaid



#### Market Share

2% 1%





#### **Annual Cost per Patient**

Brand	2018	2019
Cimzia	\$24,425	\$26,974
Entyvio	\$38,349	\$40,367
Remicade	\$35,410	\$35,572
Stelara	\$86,429	\$132,211
Stelara IV	\$7,951	\$7,324

#### **Annual Cost per Patient**

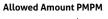
Brand	2018	2019
Entyvio	\$28,080	\$22,299
Remicade	\$21,520	\$16,812
Stelara	\$22,686	\$48,955
Stelara IV	\$4,441	\$5,295

#### **Annual Cost per Patient**

Brand	2018	2019
Entyvio	\$25,093	\$28,223
Remicade	\$27,992	\$24,257
Stelara	\$44,158	\$92,720
Stelara IV	\$5,670	\$4,019

#### Allowed Amount PMPM









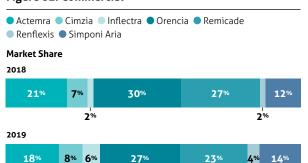


<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

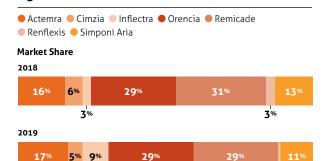
#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **BDAIDs: Rheumatoid Arthritis**

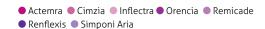
#### Figure 82: Commercial



### Figure 83: Medicare



#### Figure 84: Medicaid



#### **Market Share**

1%





#### **Annual Cost per Patient**

Brand	2018	2019
Actemra	\$24,956	\$24,698
Cimzia	\$21,998	\$24,390
Inflectra	\$18,602	\$22,046
Orencia	\$32,086	\$32,830
Remicade	\$30,925	\$28,622
Renflexis	\$19,558	\$19,358
Simponi Aria	\$22,023	\$21,536

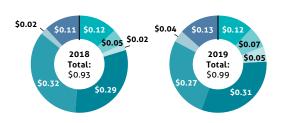
#### **Annual Cost per Patient**

Brand	2018	2019
Actemra	\$12,847	\$13,290
Cimzia	\$15,245	\$15,479
Inflectra	\$8,835	\$14,699
Orencia	\$22,366	\$22,573
Remicade	\$17,787	\$15,159
Renflexis	\$10,528	\$3,204
Simponi Aria	\$13,339	\$13,712

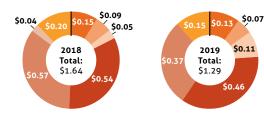
### **Annual Cost per Patient**

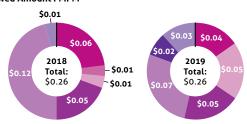
Brand	2018	2019
Actemra	\$24,708	\$21,390
Cimzia	\$12,102	\$13,492
Inflectra	\$8,854	\$14,198
Orencia	\$23,136	\$19,482
Remicade	\$29,569	\$19,841
Renflexis	\$4,712	\$9,007
Simponi Aria	\$13,836	\$25,886

#### **Allowed Amount PMPM**



#### **Allowed Amount PMPM**



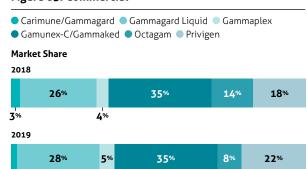


<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### Immune Globulin (IV)

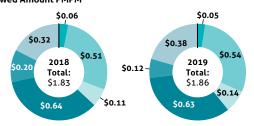
#### Figure 85: Commercial



#### **Annual Cost per Patient**

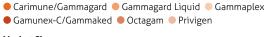
Brand	2018	2019
Carimune/Gammagard	\$46,005	\$60,701
Gammagard Liquid	\$46,865	\$46,606
Gammaplex	\$58,377	\$72,619
Gamunex-C/Gammaked	\$55,317	\$48,083
Octagam	\$33,477	\$21,830
Privigen	\$45,478	\$47,356

#### **Allowed Amount PMPM**



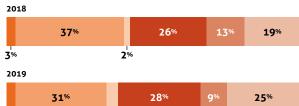
<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

#### Figure 86: Medicare



#### Market Share

3%

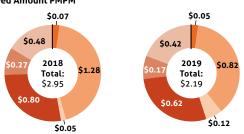


4%

#### **Annual Cost per Patient**

Brand	2018	2019
Carimune/Gammagard	\$31,640	\$24,083
Gammagard Liquid	\$31,616	\$23,143
Gammaplex	\$17,694	\$64,138
Gamunex-C/Gammaked	\$29,766	\$23,345
Octagam	\$18,887	\$16,174
Privigen	\$32,925	\$17,369

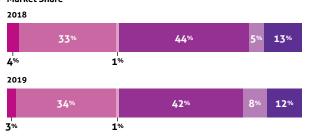
#### **Allowed Amount PMPM**



#### Figure 87: Medicaid



#### Market Share



#### **Annual Cost per Patient**

Brand	2018	2019
Carimune/Gammagard	\$22,801	\$29,881
Gammagard Liquid	\$23,426	\$22,061
Gammaplex	\$52,262	\$26,734
Gamunex-C/Gammaked	\$30,762	\$29,129
Octagam	\$21,166	\$40,121
Privigen	\$37,688	\$30,565



#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### Immune Globulin (SQ)

### Figure 88: Commercial



82%

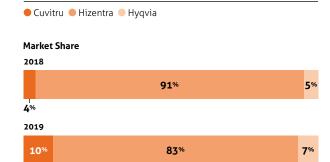


## **Annual Cost per Patient**

Brand	2018	2019
Cuvitru	\$36,382	\$44,513
Hizentra	\$47,065	\$52,654
Hyqvia	\$81,449	\$63,980

#### Figure 89: Medicare

13%



#### **Annual Cost per Patient**

Brand	2018	2019
Cuvitru	\$20,680	\$34,121
Hizentra	\$46,832	\$48,513
Hyqvia	\$50,809	\$52,817
	. ,	

#### Figure 90: Medicaid

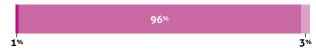


#### Market Share





#### 2019



#### **Annual Cost per Patient**

Brand	2018	2019
Cuvitru	\$13,807	\$38,371
Hizentra	\$28,319	\$32,354
Hyqvia	\$62,886	\$39,796

#### **Allowed Amount PMPM**











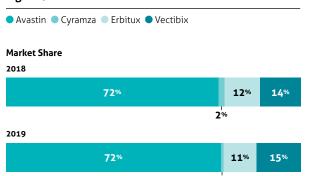


<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

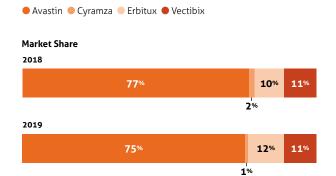
#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **Oncology: Colorectal**

#### Figure 91: Commercial



### Figure 92: Medicare



### Figure 93: Medicaid



#### Market Share





#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$45,762	\$50,112
Cyramza	\$72,447	\$78,102
Erbitux	\$60,719	\$61,064
Vectibix	\$68,555	\$69,346

#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$26,859	\$26,457
Cyramza	\$30,640	\$56,157
Erbitux	\$33,734	\$33,949
Vectibix	\$39,561	\$25,222

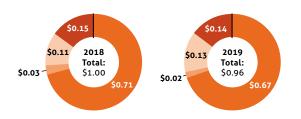
#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$29,221	\$36,357
Cyramza	\$90,509	-
Erbitux	\$30,004	\$29,182
Vectibix	\$27,666	\$38,002

#### **Allowed Amount PMPM**



**Allowed Amount PMPM** 







<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **Oncology: Multiple Myeloma**

#### Figure 94: Commercial

DarzalexKyprolis

#### **Market Share**

2018



#### 2019

<b>47</b> %	53%

#### **Annual Cost per Patient**

Brand	2018	2019
Darzalex	\$107,035	\$111,550
Kyprolis	\$81,663	\$84,676

#### Figure 95: Medicare

DarzalexKyprolis

#### Market Share

2018	
39%	61%

#### 2019

53%	47%

#### **Annual Cost per Patient**

Brand	2018	2019
Darzalex	\$58,672	\$60,687
Kyprolis	\$64,481	\$44,292

#### Figure 96: Medicaid

DarzalexKyprolis

#### Market Share

2018

36%	64%

#### 2019



#### **Annual Cost per Patient**

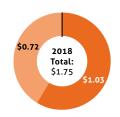
Brand	2018	2019
Darzalex	\$65,888	\$77,714
Kyprolis	\$71,737	\$53,433

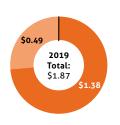
#### **Allowed Amount PMPM**





#### **Allowed Amount PMPM**







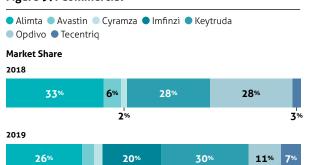


<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **Oncology: NSCLC**

#### Figure 97: Commercial



# **Annual Cost per Patient**

4% 3%

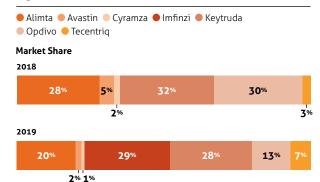
2018	2019
\$37,637	\$45,893
\$64,416	\$69,998
\$47,848	\$50,947
-	\$98,285
\$70,505	\$88,659
\$77,711	\$83,326
\$54,718	\$70,614
	\$37,637 \$64,416 \$47,848 - \$70,505 \$77,711

#### **Allowed Amount PMPM**



<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

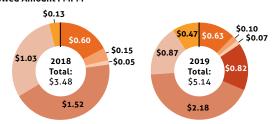
#### Figure 98: Medicare



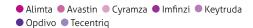
#### **Annual Cost per Patient**

2018	2019
\$24,724	\$23,186
\$33,180	\$34,865
\$18,490	\$35,311
-	\$56,823
\$48,186	\$49,270
\$50,531	\$55,748
\$31,822	\$41,847
	\$24,724 \$33,180 \$18,490 - \$48,186 \$50,531

#### **Allowed Amount PMPM**



#### Figure 99: Medicaid



#### Market Share



2019



#### **Annual Cost per Patient**

Brand	2018	2019
Alimta	\$29,251	\$37,956
Avastin	\$28,219	\$56,606
Cyramza	\$30,506	\$25,796
Imfinzi	-	\$54,455
Keytruda	\$54,108	\$74,987
Opdivo	\$45,534	\$58,770
Tecentriq	\$39,506	\$33,375





#### 2019 MARKET SHARE TRENDS<sup>1</sup>

Figure 100: Commercial

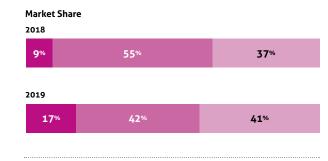
## **Oncology Support: Colony Stimulating Factors, Short-Acting**





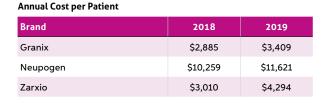


### ● Granix ● Neupogen ● Nivestym ● Zarxio Market Share 2018 13% 39% 48% 2019 12% 26% 61% 1%



Annual Cost per Patient		
Brand	2018	2019
Granix	\$5,630	\$5,099
Neupogen	\$6,510	\$6,941
Nivestym	\$1,849	\$3,843
Zarxio	\$6,958	\$6,828





#### **Allowed Amount PMPM**





#### **Allowed Amount PMPM**

Figure 101: Medicare





#### **Allowed Amount PMPM**

Figure 102: Medicaid

● Granix ● Neupogen ● Zarxio

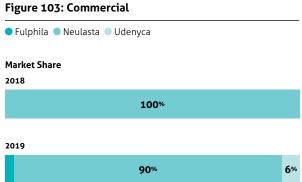


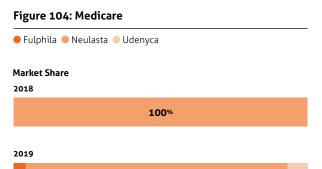


<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

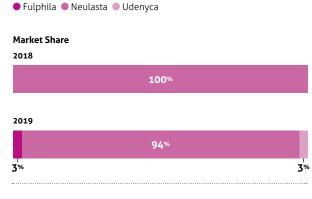
#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **Oncology Support: Colony Stimulating Factors, Long-Acting**





89%





Annual Cost p	er Patient
---------------	------------

Brand	2018	2019
Fulphila	\$19,522	\$34,917
Neulasta	\$47,116	\$49,425
Udenyca	-	\$41,698



Brand	2018	2019
Fulphila	\$7,991	\$20,356
Neulasta	\$28,367	\$28,084
Udenyca	-	\$22,148

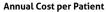
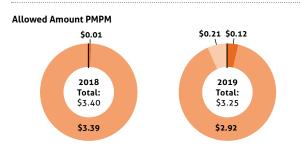


Figure 105: Medicaid

Brand	2018	2019
Fulphila	\$6,290	\$14,109
Neulasta	\$30,094	\$31,245
Udenyca	-	\$18,065







<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

#### 2019 MARKET SHARE TRENDS<sup>1</sup>

### **Ophthalmic Injections**

### Figure 106: Commercial



#### **Market Share**

2018



2019



### Figure 107: Medicare

● Avastin ● Eylea ● Lucentis ● Unclassified

#### Market Share

39% 31% 22% 7%	2010			
	39%	31%	22%	7%



#### Figure 108: Medicaid

● Avastin ● Eylea ● Lucentis ● Unclassified

#### Market Share

2010		
56%	27%	17%

2019



#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$288	\$298
Eylea	\$11,041	\$11,778
Lucentis	\$8,582	\$8,704
Unclassified	\$611	\$645

#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$289	\$324
Eylea	\$9,871	\$10,565
Lucentis	\$10,247	\$10,158
Unclassified	\$807	\$818

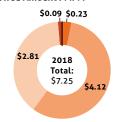
#### **Annual Cost per Patient**

Brand	2018	2019
Avastin	\$238	\$392
Eylea	\$7,693	\$8,433
Lucentis	\$6,069	\$5,968
Unclassified	\$192	\$28

#### **Allowed Amount PMPM**



**Allowed Amount PMPM** 









<sup>1</sup> Only drugs with \$0.01 PMPM or greater were included in market share analysis. Due to rounding, totals may not add up accurately.

### FIGURE 109: 2019 COMMERCIAL TOP 25 DRUGS COST TRENDS BY SITE OF SERVICE

				COST PER CLAIM			COST PER UNIT		М	MARKET SHARE BY SOS		
Rank	HCPCS	Brand	НОМЕ	HOSPITAL OP	PHYSICIAN	НОМЕ	HOSPITAL OP	PHYSICIAN	HOME	HOSPITAL OP	PHYSICIAN	
1	J1745	Remicade	\$6,185	\$7,975	\$3,991	\$128	\$170	\$81	12%	29%	59%	
2	J2505	Neulasta	-	\$9,722	\$5,680	\$5,967	\$1,835	\$5,674	-	50%	50%	
3	J2350	Ocrevus	\$28,061	\$52,148	\$29,450	\$71	\$109	\$64	4%	51%	44%	
4	19355	Herceptin	-	\$7,192	\$4,015	\$108	\$197	\$116	-	51%	49%	
5	J9312	Rituxan	-	\$11,754	\$7,170	\$109	\$190	\$105	-	52%	47%	
6	J9271	Keytruda	-	\$17,697	\$10,452	\$47	\$88	\$53	-	55%	45%	
7	J9035	Avastin	-	\$7,720	\$2,009	\$93	\$136	\$88	-	36%	64%	
8	J3380	Entyvio	\$6,631	\$10,284	\$6,468	\$25	\$35	\$22	19%	29%	52%	
9	J9299	Opdivo	-	\$15,790	\$8,257	\$22	\$50	\$30	-	52%	48%	
10	J9306	Perjeta	-	\$10,870	\$5,894	\$12	\$24	\$13	-	53%	46%	
11	J2323	Tysabri	\$6,439	\$11,253	\$6,448	\$23	\$38	\$23	4%	39%	57%	
12	J1300	Soliris	\$29,607	\$41,727	\$27,799	\$252	\$432	\$244	28%	39%	33%	
13	J1561	Gamunex-C/Gammaked	\$4,330	\$4,803	\$3,417	\$32	\$81	\$37	47%	29%	24%	
14	J1569	Gammagard Liquid	\$4,107	\$6,597	\$3,847	\$33	\$105	\$57	46%	23%	31%	
15	J0897	Xgeva/Prolia	\$1,283	\$3,593	\$1,655	\$21	\$36	\$21	2%	32%	66%	
16	J2357	Xolair	\$2,666	\$3,056	\$2,289	\$39	\$62	\$46	19%	12%	68%	
17	J0585	Botox	\$1,187	\$1,631	\$961	\$6	\$10	\$7	7%	12%	82%	
18	J9145	Darzalex	-	\$10,110	\$5,648	\$53	\$98	\$60	-	49%	51%	
19	J1459	Privigen	\$4,472	\$5,497	\$2,906	\$29	\$94	\$53	37%	32%	31%	
20	J0178	Eylea	-	\$3,364	\$2,169	\$967	\$1,508	\$1,009	-	3%	97%	
21	J9228	Yervoy	-	\$29,945	\$21,689	-	\$244	\$164	-	61%	39%	
22	J9305	Alimta	-	\$8,301	\$5,025	\$78	\$127	\$76	-	56%	44%	
23	J0129	Orencia	\$3,676	\$5,211	\$4,295	\$59	\$75	\$54	5%	11%	85%	
24	J9354	Kadcyla	-	\$11,957	\$6,157	\$31	\$70	\$34	-	59%	41%	
25	J3357	Stelara	\$17,667	\$26,722	\$14,508	\$261	\$338	\$246	30%	13%	57%	

### FIGURE 110: 2019 MEDICARE TOP 25 DRUGS COST TRENDS BY SITE OF SERVICE

				COST PER CLAIM			COST PER UNIT		M	ARKET SHARE BY S	SOS
Rank	HCPCS	Brand	HOME	HOSPITAL OP	PHYSICIAN	HOME	HOSPITAL OP	PHYSICIAN	HOME	HOSPITAL OP	PHYSICIAN
1	J9271	Keytruda	-	\$8,873	\$9,506	-	\$45	\$48	-	52%	48%
2	J0178	Eylea	-	\$745	\$2,017	-	\$341	\$956	-	1%	99%
3	J9299	Opdivo	-	\$8,205	\$7,792	-	\$25	\$27	-	48%	52%
4	J2505	Neulasta	-	\$4,255	\$4,622	-	\$4,255	\$4,600	-	50%	50%
5	J2778	Lucentis	-	\$1,430	\$1,736	-	\$250	\$361	-	-	100%
6	J9312	Rituxan	-	\$4,397	\$5,261	-	\$88	\$94	-	51%	49%
7	J0897	Xgeva/Prolia	\$1,239	\$1,510	\$1,486	\$21	\$17	\$19	1%	29%	70%
8	J9035	Avastin	-	\$3,568	\$354	-	\$73	\$78	-	8%	92%
9	J9355	Herceptin	-	\$2,922	\$3,352	-	\$96	\$106	-	47%	53%
10	J9145	Darzalex	-	\$4,151	\$4,606	-	\$51	\$53	-	32%	68%
11	J9173	Imfinzi	-	\$3,303	\$3,396	-	\$76	\$72	-	42%	58%
12	J2350	Ocrevus	\$30,130	\$28,326	\$26,280	\$57	\$57	\$54	4%	62%	34%
13	J9305	Alimta	-	\$3,809	\$4,010	-	\$63	\$67	-	50%	50%
14	J1300	Soliris	-	\$20,911	\$25,407	-	\$200	\$226	-	43%	57%
15	J9022	Tecentriq	-	\$7,834	\$8,938	-	\$70	\$75	-	43%	57%
16	J9041	Velcade	-	\$737	\$959	-	\$39	\$45	-	39%	61%
17	J1745	Remicade	\$4,716	\$2,627	\$3,472	\$103	\$60	\$72	1%	29%	70%
18	J9228	Yervoy	-	\$14,283	\$19,231	-	\$130	\$153	-	54%	46%
19	J1569	Gammagard Liquid	\$4,132	\$2,266	\$2,965	\$56	\$38	\$41	35%	26%	39%
20	J9306	Perjeta	-	\$4,963	\$5,357	-	\$11	\$12	-	50%	50%
21	J9217	Eligard/Lupron Depot	-	\$828	\$890	-	\$255	\$223	-	23%	77%
22	J9264	Abraxane	-	\$1,638	\$1,641	-	\$11	\$12	-	42%	58%
23	J2353	Sandostatin	\$6,422	\$5,270	\$5,493	\$214	\$184	\$179	1%	62%	37%
24	J0585	Botox	-	\$918	\$847	-	\$6	\$6	-	10%	90%
25	J1561	Gamunex-C/Gammaked	\$2,552	\$2,199	\$2,965	\$48	\$38	\$39	32%	37%	31%

### FIGURE 111: 2019 MEDICAID TOP 25 DRUGS COST TRENDS BY SITE OF SERVICE

				COST PER CLAIM			COST PER UNIT		M	ARKET SHARE BY S	os
Rank	HCPCS	Brand	НОМЕ	HOSPITAL OP	PHYSICIAN	НОМЕ	HOSPITAL OP	PHYSICIAN	НОМЕ	HOSPITAL OP	PHYSICIAN
1	J9271	Keytruda	-	\$11,295	\$10,887	-	\$57	\$54	-	76%	24%
2	J1745	Remicade	\$4,549	\$6,779	\$3,399	\$81	\$128	\$75	12%	55%	33%
3	J2505	Neulasta	\$4,913	\$6,681	\$5,130	\$4,913	\$6,681	\$5,130	1%	59%	41%
4	J2326	Spinraza	-	\$108,656	-	-	\$916	-	-	100%	-
5	19355	Herceptin	-	\$4,137	\$3,966	-	\$122	\$130	-	65%	35%
6	J2350	Ocrevus	\$31,507	\$27,261	\$26,919	\$61	\$60	\$65	12%	78%	10%
7	]9299	Opdivo	-	\$9,058	\$9,202	-	\$32	\$30	-	68%	32%
8	19035	Avastin	-	\$4,787	\$1,290	-	\$113	\$88	-	38%	62%
9	J1300	Soliris	\$31,141	\$32,284	\$26,498	\$231	\$282	\$252	3%	83%	14%
10	19306	Perjeta	-	\$6,753	\$6,162	-	\$15	\$14	-	70%	30%
11	J0585	Botox	-	\$1,173	\$1,104	-	\$6	\$7	-	25%	75%
12	J9312	Rituxan	\$11,757	\$6,295	\$5,292	\$95	\$115	\$99	3%	76%	21%
13	J1726	Makena	\$1,025	\$958	\$998	\$30	\$39	\$27	57%	6%	37%
14	]2357	Xolair	-	\$1,880	\$2,261	-	\$42	\$40	-	35%	64%
15	J1428	Exondys	\$30,242	-	-	\$169	-	-	100%	-	-
16	]2323	Tysabri	\$6,553	\$7,876	\$7,262	\$22	\$27	\$25	6%	67%	27%
17	J7170	Hemlibra	\$10,262	\$45,123	-	\$49	\$76	-	53%	47%	-
18	J3380	Entyvio	\$6,100	\$6,893	\$6,064	\$20	\$24	\$20	20%	62%	19%
19	]7307	Implanon	-	\$846	\$904	-	\$846	\$904	-	13%	87%
20	19305	Alimta	-	\$4,686	\$4,739	-	\$80	\$77	-	71%	29%
21	J1561	Gamunex-C/Gammaked	\$2,517	\$3,078	\$3,117	\$43	\$70	\$42	28%	56%	16%
22	J7298	Mirena	-	\$915	\$942	-	\$915	\$942	-	17%	83%
23	J9042	Adcetris	-	\$18,825	\$13,589	-	\$170	\$177	-	68%	32%
24	J0256	Aralast	\$2,201	\$20,672	\$1,943	\$3	\$45	\$5	60%	32%	8%
25	J9173	Imfinzi	-	\$3,770	\$4,040	-	\$80	\$78	-	71%	29%

#### FIGURE 112: 2019 HOSPITAL ADMINISTRATION CODE TRENDS BY LOB

		СОММ	IERCIAL	MED	ICARE	MED	ICAID
CPT	DESCRIPTION	PMPM	UNIT COST	PMPM	UNIT COST	PMPM	UNIT COST
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug	\$0.61	\$605.45	\$1.11	\$361.02	\$0.08	\$232.39
96375	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); each additional sequential intravenous push of a new substance/drug	\$0.30	\$127.97	\$0.25	\$61.19	\$0.05	\$24.74
96365	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to 1 hour	\$0.27	\$337.82	\$0.57	\$297.63	\$0.07	\$92.56
96374	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); intravenous push, single or initial substance/drug	\$0.23	\$181.38	\$0.47	\$189.75	\$0.10	\$58.42
96361	Intravenous infusion, hydration; each additional hour	\$0.17	\$90.68	\$0.12	\$49.69	\$0.12	\$38.12
96372	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular	\$0.11	\$82.24	\$0.15	\$122.74	\$0.04	\$23.76
96415	Chemotherapy administration, intravenous infusion technique; each additional hour	\$0.11	\$224.63	\$0.06	\$64.03	\$0.01	\$56.14
96360	Intravenous infusion, hydration; initial, 31 minutes to 1 hour	\$0.09	\$301.81	\$0.10	\$248.20	\$0.03	\$86.49
96367	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); additional sequential infusion of a new drug/substance, up to 1 hour	\$0.08	\$184.29	\$0.24	\$168.91	\$0.03	\$74.52
96417	Chemotherapy administration, intravenous infusion technique; each additional sequential infusion (different substance/drug), up to 1 hour	\$0.08	\$277.84	\$0.04	\$67.39	\$0.01	\$85.31
96366	Intravenous infusion for therapy, prophylaxis, or diagnosis (specify substance or drug); each additional hour	\$0.06	\$110.26	\$0.05	\$38.25	\$0.02	\$31.86
96416	Chemotherapy administration, intravenous infusion technique; initiation of prolonged chemotherapy infusion (more than 8 hours), requiring use of a portable or implantable pump	\$0.04	\$575.10	\$0.03	\$269.33	-	-
96411	Chemotherapy administration; intravenous, push technique, each additional substance/drug	\$0.04	\$274.68	\$0.02	\$74.21	\$0.00	\$81.91
20610	Under general introduction or removal procedures on the musculoskeletal system	\$0.04	\$449.70	\$0.05	\$177.16	\$0.00	\$92.87
96376	Intravenous push, single or initial substance/drug; each additional sequential intravenous push of the same substance/drug provided in a facility	\$0.03	\$67.05	-	-	\$0.01	\$13.50
96409	Chemotherapy administration; intravenous, push technique; single or initial substance/drug	\$0.03	\$408.45	\$0.06	\$315.51	\$0.01	\$179.08
67028	Intravitreal injection of a pharmacologic agent (separate procedure)	\$0.02	\$860.02	\$0.05	\$427.14	\$0.00	\$163.99
96401	Chemotherapy administration, subcutaneous or intramuscular; nonhormonal antineoplastic	\$0.02	\$154.16	\$0.05	\$141.11	\$0.00	\$71.65
96402	Chemotherapy administration, subcutaneous or intramuscular; hormonal antineoplastic	\$0.02	\$236.41	\$0.04	\$192.66	-	-
90471	Immunization administration through 18 years of age via any route of administration; first or only component of each vaccine or toxoid administered	\$0.02	\$72.44	\$0.00	\$41.66	\$0.01	\$9.82
96450	Chemotherapy administration, into CNS (e.g., intrathecal), requiring and including spinal puncture	\$0.01	\$780.39	-	-	-	-
96368	Intravenous infusion for therapy, prophylaxis, or diagnosis (specify substance or drug); concurrent infusion	\$0.01	\$162.74	\$0.02	\$894.21	-	-
96523	Irrigation of implanted venous access device for drug-delivery systems	\$0.01	\$152.96	\$0.02	\$83.69	-	-
95165	Supervision of preparation and provision of antigens for allergen immunotherapy; single or multiple antigens (specify number of doses)	\$0.01	\$36.13	\$0.00	\$2.96	-	-
95117	Immunotherapy injections	\$0.01	\$107.03	\$0.00	\$59.23	-	-
G0008	Administration of influenza virus vaccine	\$0.00	\$31.81	\$0.02	\$34.00	\$0.00	\$6.25
G0009	Administration of pneumococcal vaccine	\$0.00	\$46.20	\$0.01	\$33.24	\$0.00	\$6.84

### FIGURE 113: 2019 PHYSICIAN OFFICE ADMINISTRATION CODE TRENDS BY LOB

		СОММ	MERCIAL	MED	ICARE	MED	ICAID
СРТ	DESCRIPTION	PMPM	UNIT COST	PMPM	UNIT COST	PMPM	UNIT COST
90460	Immunization administration through 18 years of age via any route of administration, with counseling by physician or other qualified healthcare professional; first or only component of each vaccine or toxoid administered	\$0.37	\$23.91	-	-	\$0.65	\$22.59
96372	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular	\$0.35	\$25.51	\$0.39	\$15.90	\$0.10	\$17.67
95165	Supervision of preparation and provision of antigens for allergen immunotherapy; single or multiple antigens (specify number of doses)	\$0.32	\$13.81	\$0.08	\$12.88	-	-
20610	Under general introduction or removal procedures on the musculoskeletal system	\$0.26	\$102.88	\$0.64	\$59.33	\$0.03	\$77.90
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug	\$0.26	\$212.56	\$0.56	\$142.58	\$0.03	\$125.18
90471	Immunization administration through 18 years of age via any route of administration; first or only component of each vaccine or toxoid administered	\$0.26	\$23.61	\$0.14	\$18.94	\$0.04	\$8.58
90461	Immunization administration each additional component	\$0.14	\$12.99	-	-	\$0.12	\$27.95
67028	Intravitreal injection of a pharmacologic agent (separate procedure)	\$0.09	\$194.68	\$0.86	\$115.36	\$0.03	\$290.07
96365	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to 1 hour	\$0.08	\$93.22	\$0.16	\$71.14	\$0.01	\$54.12
95117	Immunotherapy injections	\$0.06	\$13.73	\$0.02	\$9.99	-	-
96401	Chemotherapy administration, subcutaneous or intramuscular; nonhormonal antineoplastic	\$0.05	\$88.15	\$0.13	\$74.71	\$0.01	\$42.55
96367	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); additional sequential infusion of a new drug/substance, up to 1 hour	\$0.04	\$47.95	\$0.11	\$30.97	\$0.04	\$107.34
96375	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); each additional sequential intravenous push of a new substance/drug	\$0.03	\$34.05	\$0.05	\$17.41	\$0.00	\$16.75
96417	Chemotherapy administration, intravenous infusion technique; each additional sequential infusion (different substance/drug), up to 1 hour	\$0.03	\$111.26	\$0.07	\$67.26	\$0.00	\$61.73
96415	Chemotherapy administration, intravenous infusion technique; each additional hour	\$0.03	\$47.04	\$0.06	\$30.83	\$0.00	\$28.05
90472	Immunization administration through 18 years of age via any route of administration	\$0.03	\$14.66	\$0.01	\$13.54	\$0.02	\$8.39
96416	Chemotherapy administration, intravenous infusion technique; initiation of prolonged chemotherapy infusion (more than 8 hours), requiring use of a portable or implantable pump	\$0.03	\$250.67	\$0.03	\$157.91	-	-
96411	Chemotherapy administration; intravenous push technique, each additional substance/drug	\$0.01	\$96.99	\$0.03	\$58.89	\$0.00	\$51.66
96374	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); intravenous push, single or initial substance/drug	\$0.01	\$72.62	\$0.02	\$40.28	\$0.00	\$41.36
96360	Intravenous infusion, hydration; initial, 31 minutes to 1 hour	\$0.01	\$78.25	\$0.02	\$41.97	\$0.00	\$45.49
96366	Intravenous infusion for therapy, prophylaxis, or diagnosis (specify substance or drug); each additional hour	\$0.01	\$31.89	\$0.02	\$23.95	\$0.00	\$24.26
95115	Immunotherapy one injection	\$0.01	\$11.91	-	-	-	-
G0008	Administration of influenza virus vaccine	\$0.01	\$22.23	\$0.25	\$18.31	-	-

# **GLOSSARY**

ACO	accountable care organization	KOL	key opinion leade
AMD	age-related (wet) macular degeneration	LOB	line of busines
AMP	average manufacturer price	MA	Medicare Advantage
\SP	average sales price	MCO	managed care organization
\WP	average wholesale price	MoAb	monoclonal antibody
BDAIDs	biologic drugs for autoimmune disorders	MS	multiple sclerosi
CAR-T	chimeric antigen receptor therapy	NCCN	National Comprehensive Cancer Networl
OE	centers of excellence	NCQA	National Committee for Quality Assurance
OPD	chronic obstructive pulmonary disease	NMEs	new molecular entities
COVID-19	severe acute respiratory syndrome coronavirus 2	NDC	National Drug Code
PT	Current Procedural Terminology	P&T	pharmacy and therapeutics
CRL	complete response letter	PA	prior authorization
Crohn's/UC	Crohn's Disease/Ulcerative Colitis	PBM	pharmacy benefit manage
CSF	colony-stimulating factors	PDL	preferred drug lis
ER	extended release	PMPM	per member per month
SA	erythropoiesis-stimulating agent	PPPY	per patient per yea
SRD	end stage renal disease	PSCE	post-service claim edit:
DA	U.S. Food and Drug Administration	RA	rheumatoid arthriti
HCPCS	Healthcare Common Procedure Coding System	SOS	site of service
HEDIS	Healthcare Effectiveness Data and Information Set	SPP	specialty pharmacy provide
H	home infusion	SQ	subcutaneou
HOP	hospital outpatient	TPA	third party administrato
CER	Institute for Clinical and Economic Review	UC	ulcerative coliti
CU	Intensive Care Unit	UM	utilization managemen
G	immune globulin	WAC	wholesale acquisition cos
V	intravenous	XR	extended release
VIG	intravenous immune globulin	YOY	year over yea