Despite AWP Inflation Near 10%

CVS Health Kept Drug Price Growth Nearly Flat at 0.2%

and Adherence Improved
In 2017, despite AWP inflation ~10%, our strategies kept drug price growth nearly flat at 0.2%.

**Drug Trend Report 2017**

**By the Numbers**

We helped make prescriptions more affordable for members.


3 of 4 members spent <$100 for their prescriptions.

Hyperlipidemia increased by 1.8%.

Hypertension increased by 1.2%.

Diabetes increased by 1.2%.

By keeping drugs affordable, we also helped more members stay on therapy in key categories.*

In 2018 we are doing even more to help patients save money.

- Increasing price transparency at all points of care
- Giving members greater access to more affordable options

**Drug Price Growth**

- Traditional Brands: 9.2%
- Specialty Brands: 8.3%
- Generics: 0.4%
- CVS Health: 0.2%

*Percentage point increase in the number of optimally adherent members.

AWP (Average wholesale price). PMPM (Per member per month).
The health care landscape continues to evolve, but the cost of drugs remains a top concern for payors and consumers, and an area of focus for the government. At CVS Health, our goal is to ensure that clients and members are getting the most out of their pharmacy benefit plan and that the cost of a drug is aligned with the value it delivers in terms of patient outcomes. We leverage competition within drug classes where applicable, develop innovative strategies to keep prescriptions affordable, and help members be more adherent.

In 2017, CVS Health pharmacy benefit management (PBM) strategies reduced trend for commercial clients to 1.9 percent per member per year (PMPY) the lowest in five years. Despite manufacturer price increases of near 10 percent, CVS Health kept drug price growth at a minimal 0.2 percent. Forty-two percent of our payor clients spent less on their pharmacy benefit plan in 2017 than they had in 2016.

We also helped members save money and lower out-of-pocket costs. Three out of four members spent less than $100 out of pocket in 2017, and nearly 90 percent spent less than $300. Monthly cost per member declined by 10 cents to $11.89. To further enhance affordability and price transparency, we introduced real-time benefits enabling prescribers to see the member-specific out-of-pocket costs of a prescribed medication as well as the costs of clinically appropriate alternatives in real-time. This allows them to make more informed prescribing decisions and offer members medication options that may be more affordable.

Keeping drugs affordable helped improve adherence to the highest level in seven years. With plan designs that promoted lower-cost options and targeted adherence interventions, we increased the number of optimally adherent members in key categories like diabetes, hypertension and hyperlipidemia by as much as 1.8 percentage points. Better adherence can help reduce overall health care costs and improve quality of life.

In 2018, we are doing even more to help keep drugs affordable with our new Saving Patients Money initiative. Saving Patients Money is designed to help address the high cost of prescription drugs by providing greater pricing transparency across all points of care, including at the pharmacy, and directly to members.

CVS Health is delivering value for payors and their members with better outcomes and cost management. It’s part of how we help people on their path to better health.
Minimal drug price growth helped reduce trend to the lowest level in five years.

Low Drug Price Growth and Trend Despite AWP Inflation

In 2017, we leveraged market competition, maximized use of low-cost generics, and effectively negotiated discounts and rebates, all of which helped keep drug price growth nearly flat at 0.2 percent for our payor clients. Our strategies helped protect clients from manufacturer price increases of almost 10 percent. By minimizing cost growth we were also able to reduce overall trend for clients to 1.9 percent PMPY — the lowest in five years. Forty-two percent of our clients had negative trend; meaning their benefit plan spent less in 2017 on prescription drugs than they had in 2016.

Many plans adopted generics-first strategies or preventive drug lists with $0 copays for generics. Our generic dispensing rate reached 86.1 percent, and played a significant role in keeping drug price growth down. Brand drugs, both traditional and specialty, accounted for only 14 percent of prescriptions dispensed, but 69 percent of pharmaceutical spend.

AWP Inflation Near 10%, But Minimal Drug Price Growth

Prescription drug trend is the measure of growth in prescription spending per member per month. Trend calculations take into account the effects of drug price, drug utilization and the mix of branded versus generic drugs, as well as the positive effect of negotiated rebates on overall trend. The 2017 trend cohort represents CVS Health commercial PBM clients—employers and health plans. Price is measured as cost per days supply.
Utilization Grew, Adherence Improved

Most of our post-rebate trend was driven by growth in utilization, trending at 1.7 percent. Generics played a major role in this utilization growth, helping keep overall as well as member costs low. Generic utilization grew at 3.6 percent, while utilization of brands dropped substantially — trending at a negative 9.5 percent.

Affordable generics, along with targeted adherence interventions, also helped increase the percentage of members who were optimally adherent. Key chronic disease categories, including hyperlipidemia, hypertension and diabetes, saw adherence improvements. Preventive drug lists with $0 copays for generics, as well as formulary strategies and plan designs that promoted the use of generics first, helped drive rapid member transition to newly launched generics, reducing costs for high-utilization categories such as antihypertensives and cholesterol-reducing drugs.

Generics Were Top Drivers of Utilization Growth

<table>
<thead>
<tr>
<th>Generic</th>
<th>Reference Brand</th>
<th>Used in Treating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 rosuvastatin calcium</td>
<td>Crestor</td>
<td>hyperlipidemia</td>
</tr>
<tr>
<td>2 atorvastatin calcium</td>
<td>Lipitor</td>
<td>hyperlipidemia</td>
</tr>
<tr>
<td>3 ezetimibe</td>
<td>Zetia</td>
<td>hyperlipidemia</td>
</tr>
<tr>
<td>4 olmesartan medoxomil</td>
<td>Benicar</td>
<td>hypertension</td>
</tr>
<tr>
<td>5 metformin HCL</td>
<td>Glucophage, Glumetza</td>
<td>diabetes</td>
</tr>
<tr>
<td>6 amlodipine besylate</td>
<td>Norvasc</td>
<td>hypertension</td>
</tr>
<tr>
<td>7 losartan potassium</td>
<td>Cozaar</td>
<td>hypertension</td>
</tr>
</tbody>
</table>

Ranked in order of contribution to 2017 utilization trend.
Strategic Management Kept Specialty Drug Price Growth to 3.7% Despite AWP Inflation of 8.3%

Specialty pharmaceuticals have expanded beyond the treatment of small populations and rare conditions to treat conditions that affect millions of patients. Ongoing growth in utilization and manufacturer-driven price increases continued to drive rapid growth in specialty spending making these therapies a top payor concern.

In 2017, the AWP inflation rate for specialty drugs was 8.3 percent. However, through effective formulary strategies, indication- and outcomes-based contracting, and cost-cap based rebates we were able to keep specialty drug cost growth for payors at just 3.7 percent. The specialty drug pipeline continues to be robust, fueling further strong growth for years to come. Last year alone, the Food and Drug Administration (FDA) approved 67 new specialty drugs — including five biosimilars — and 69 supplemental specialty indications. Hundreds more new drugs are in development including therapies for conditions such as eczema, asthma, cancer, and osteoarthritis. Most, if not all, are expected to carry annual price tags in the tens, if not hundreds, of thousands of dollars. These new drugs, and supplemental indications for existing therapies, will continue to significantly expand the population of specialty pharmaceutical users.

With the increase in number of specialty drugs, the growing population of patients on specialty therapies, and ever-rising prices, careful management is required to help manage utilization of these complex therapies to ensure that the right patient is receiving the right drug at the right time and that reimbursement is related to the value a drug delivers. Ensuring high-touch, holistic patient support for optimal adherence, and symptom and co-morbidity management are also key. Now, more than ever, payors need to have the right strategies in place to ensure appropriate patient access and utilization.

Growth in appropriate utilization drove most of post-rebate specialty trend.

3.7% Drug Price Growth + 9.2% Specialty Utilization = 12.9% 2017 Specialty Trend
Market Competition Determines Management Approach

At 1.9 percent, our low 2017 trend reflects a strategic approach to the complex dynamics of the pharmaceutical market. We carefully evaluate the pharmaceutical landscape to identify competitive therapy classes and compare drug efficacy, to determine appropriate formulary placement for specific drugs for each condition. This enables us to effectively negotiate rebates and offer competitive pricing to clients, to help keep overall costs in control.

- Categories with multiple brand and generic options
- Market competition limits price increases
- Use formulary, preventive drug lists to maximize utilization of generics
- PBM management helped to improve adherence in these categories by 1.8 (for antihyperlipidemics) and 1.2 (for antihypertensives) percentage points
- Account for nearly 70% of cost and all cost and trend growth
- Specialty drugs tend to face less competition in their categories
- Manage formulary and leverage competition to negotiate for lowest-net cost
- For specialty: indication- and outcomes-based contracting, and cost-cap based rebates; utilization management
- Gross trend for autoimmune was 25.5%
- Adherence improved by 1.2 (for antidiabetics) and 1.9 (for rheumatoid arthritis) percentage points
Drug Price Declined for Clients Aligned with Our Formulary Management Strategy

Across our commercial cohort, management strategies helped keep drug price growth to a low 0.2 percent. For clients aligned with our managed formularies, drug price actually declined — by 0.1 percent — in 2017. Despite greater utilization, these clients had lower PMPM costs as well as overall trend.

Formulary is one of the most effective means of leveraging market competition and promoting the use of lower-cost options, including generics. Our management approach includes a strategic assessment of the marketplace, allowing us to evaluate how products compete in therapeutic categories and where it may be appropriate to remove specific products in categories with multiple clinical options. This enables us to effectively negotiate rebates and offer competitive pricing to clients. We also continue to develop and implement more targeted management approaches such as indication-based formularies, in which prices and rebates for a drug are negotiated based on its effectiveness to treat a specific diagnosis rather than at a therapy class level.

<table>
<thead>
<tr>
<th>2016-2017</th>
<th>Standard Formulary without Drug Removals</th>
<th>Managed Formularies with Drug Removals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilization Trend</td>
<td>1.6%</td>
<td>1.8%</td>
</tr>
<tr>
<td>Drug Price Change</td>
<td>2.6%</td>
<td>-0.1%</td>
</tr>
<tr>
<td>Overall Trend</td>
<td>4.2%</td>
<td>1.7%</td>
</tr>
</tbody>
</table>

Formularies with drug removals did not reduce utilization but did cause drug price to decline.
Diabetes affects a huge portion of the U.S. population, and accounts for substantial health care as well as pharmacy spend. Effectively managing diabetes with the appropriate medication regimen can help improve outcomes and lower overall pharmacy as well as health care costs, but managing this complex drug category can be challenging. Our formulary and utilization management options helped reduce cost for antidiabetic drugs for clients. Trend for the category fell to just 1.4 percent.

Metformin, a biguanide, is the cornerstone of oral antidiabetic treatment and is available in various forms, as a generic as well as a branded drug. Prices for both brand drugs and generics vary widely. Our management approach focuses on encouraging the utilization of the most cost-effective choices, helping reduce cost per day’s supply for metformin, and for the biguanide class overall.

The U.S. Food and Drug Administration approved the biosimilar Basaglar as safe and effective at improving glycemic control late in 2015, followed by its launch in late 2016. We were ahead of the industry in adopting Basaglar as the preferred long-acting insulin, removing the branded products Lantus and Toujeo from our managed formularies.

This helped reduce costs for payors and for members. Preferred formulary placement for drugs with lower member out-of-pocket costs also helped improve the number of optimally adherent members by 1.2 percentage points. Higher adherence to diabetes medications can help significantly lower the risk for adverse events, and save money in avoidable, downstream health care costs.

### Reducing Cost Per Days Supply

<table>
<thead>
<tr>
<th>DRUG TYPE</th>
<th>2016</th>
<th>2017</th>
<th>Decline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biguanides</td>
<td>$1.32</td>
<td>$1.05</td>
<td>-20.5%</td>
</tr>
<tr>
<td>Long-Acting Insulin</td>
<td>$8.53</td>
<td>$6.51</td>
<td>-23.7%</td>
</tr>
</tbody>
</table>

In 2017, the antidiabetic category trended at 1.4% PMPY despite AWP inflation of 4.9%. What’s more, adherence increased.
Reducing Trend for Autoimmune Therapies Through Targeted Management

The autoimmune category is one of the fastest growing therapy classes. Many autoimmune drugs — including Humira, the top-selling drug in the U.S., as well as Enbrel, Stelara, and other specialty medications, rank among the highest cost therapies in the market today. However, ensuring patients have access to the drugs they need to effectively manage their condition helps improve health outcomes. Through our formulary and utilization management strategies, we have been able to ensure appropriate utilization, while minimizing impact to payors’ overall drug spend.

Effectively managing the autoimmune class is complex. Many of these drugs have multiple indications, including rheumatoid arthritis, psoriasis, and Crohn’s disease. Supplemental indications, as well as the aging of the population, contribute significantly to the ongoing growth in utilization. Given the serious nature of these conditions, it is difficult — and potentially risky — to switch a patient who may be stable on a particular drug to a different brand or biosimilar. This means payors continue to bear the burden of high-cost drugs even when more cost-effective alternatives may be available.

Pre-rebate trend for the category was 25.5 percent. Through targeted management, including indication-based pricing and rebates, we have been able to mitigate the impact on payors, resulting in an overall trend of 20.3 percent, driven mostly by an 11.0 percent utilization increase.

We helped keep drug price growth under control by encouraging the use of generic drugs as first-line therapy through our utilization management programs. Research has demonstrated that generics can equal biologics in effectiveness. Our indication-based formulary targets specific conditions and drugs for appropriate management. That is, drugs that have shown particular efficacy for a specific indication receive preferred placement for that indication, thereby increasing competition in the category.

By taking a strategic and targeted approach, we helped payors manage their spend for this high-impact category while supporting appropriate utilization and helping improve member outcomes.

### 2018 Advanced Control Specialty Formulary: Indication-Based Approach for Autoimmune Category

<table>
<thead>
<tr>
<th>Condition</th>
<th>Formulary Preferred Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ankylosing spondylitis</td>
<td>Cosentyx, Enbrel, Humira</td>
</tr>
<tr>
<td>Crohn’s disease</td>
<td>Cimzia*, Humira</td>
</tr>
<tr>
<td>Psoriasis</td>
<td>Humira, Stelara*, Taltz*</td>
</tr>
<tr>
<td>Psoriatic arthritis</td>
<td>Cosentyx, Enbrel, Humira, Otezia</td>
</tr>
<tr>
<td>Rheumatoid arthritis</td>
<td>Enbrel, Humira, Kevzara, Orenicia</td>
</tr>
<tr>
<td>Ulcerative colitis</td>
<td>Humira, Simponi*</td>
</tr>
</tbody>
</table>

*After failure of Humira.
Right drug the first time
• Management according to NCCN regimen guideline vs. managing the drug
• Incorporation of tumor genomics into decision trees

Rigorous avoidance of waste
• Split fills for orals
• Partial vials for infused medications
• Site of care management
• Precise claims management

$8M Projected Annual Oncology Savings per 1M Members

The Novologix platform will help ensure that any patient, with any cancer, can receive the best possible care, no matter where they are being treated.

Specialty Management: Keeping Pace with the Complexity of Oncology

Cancer treatment has changed dramatically. Rather than treating colon cancer or breast cancer, we tailor treatment to the individual’s tumor and stage of disease. We’re at the point of defining the cellular abnormalities in a tumor and guiding therapy based on those abnormalities. This “precision medicine” is advancing rapidly. Guidelines from the National Comprehensive Cancer Network (NCCN), considered the gold standard, change 500 times a year.\(^4\) There are 60,000 different genetic testing products on the market, with 10 new tests added every day.\(^5\)

At CVS Specialty, our focus is to provide support to oncologists and patients ensuring that all patients have the opportunity to receive the most current recommended regimens as early as possible. Once the appropriate regimen is in place we diligently eliminate waste, avoid the use of supportive agents where there is little clinical utility, and whenever possible drive to the lowest-cost site of care.

The Novologix management platform enables these efforts. By analyzing prescribed regimens across medical and pharmacy benefits we are able to ensure conformance with NCCN guidelines and drive appropriate conversations with physicians when care is off-guideline. The platform enables several approaches to limiting waste, from partial fills in clinical scenarios where 30-day supplies often go unused, to paying for partial vials under the medical benefit. The platform can help us ensure that any patient with any cancer, regardless of how rare, has the opportunity to get the best possible care from the start, no matter where they are being treated.
88% of Members Spent Less Than $300 Out-of-Pocket

Prescription affordability is an important issue for consumers, and for our nation, but data indicates that high out-of-pocket costs affect relatively few members. Among our commercial clients, average member out-of-pocket (OOP) cost declined in 2017. Primary credit for the decline goes to the increasing utilization of generics, spurred by formulary and plan designs as well as preventive drug lists with $0 copays for generics.

Across our commercial trend cohort, 88 percent of members spent less than $300 out-of-pocket. Only 2.7 percent spent over $1,000. These higher cost members tended to be older, use specialty drugs or were enrolled in high deductible health plans (HDHPs). About 20 percent of our cohort members were in HDHPs, but they comprised 30 percent of those spending $1,000 or more.

Over a quarter of the money members spent went to two categories. Antidiabetics accounted for 14.7 percent of member spend. Autoimmune agents, including specialty drugs such as Humira and Enbrel, accounted for 11.4 percent of the cohort’s out-of-pocket expense.

Nearly 3 out of 4 Members Spent Less than $100 in 2017

Members who spent over $1,000 were more likely to use specialty drugs or be in high deductible health plans.
CVS Health: Saving Patients Money

In fall 2017, we announced the launch of real-time benefits, giving prescribers transparent access to member-specific information. In 2018, we are expanding this capability to all points of care with the Savings Patients Money initiative.

Saving Patients Money at All Points of Care

We’ve made real-time benefit information available to prescribers, CVS pharmacists and to members via the CVS Caremark app and on Caremark.com. The available information includes:

- Cost of a selected drug based on the member’s plan coverage, deductible, and how much of the deductible the member has met
- Up to five clinically appropriate, potentially lower-cost therapeutic alternatives, mapped for clinical substitution and specific to the member’s formulary
- Restrictions on the selected drug such as prior authorization (PA) or step therapy requirement

Real-time benefits further build on our connections with electronic health records, bringing the system closer to true, seamless interoperability. It means prescribers, pharmacists and members have transparent access to information at critical decision points to help members get the medications they need faster and more affordably.

During a provider visit: With real-time benefits, all of the information is integrated into the e-prescribing workflow enabling prescribers to select a clinically appropriate medication that may be more affordable for the member. If the selected drug has any restrictions, the prescriber can automatically submit an electronic PA (ePA) request, speeding up the process and helping to avoid a disruption or delay of therapy.

At the pharmacy counter: CVS pharmacists have access to a Rx Savings Finder that lets them quickly and easily determine the best way members can save money on out-of-pocket costs — with the primary goal of helping find the lowest cost alternative under their pharmacy benefit. If the member’s prescription is not covered, the pharmacist is alerted in their workflow and can request a prescription change from the provider at the click of a button.

On the go: Members can also use the Check Drug Cost tool in the CVS Caremark app and on Caremark.com to look up drug costs, find if there are any lower-cost alternatives available, or learn how they can save by filling a 90-day prescription rather than a 30-day supply. With this information, they can proactively start a conversation with their provider or the pharmacist about their prescription options.

Today, CVS pharmacists have access to member-specific information, including clinically appropriate prescription alternatives, built into their workflow.
Trend Methodology

This report provides an overview of performance for CVS Health commercial clients — employers and health plans. Trend was calculated on a cohort of more than 1,400 clients, covering 24.5 million lives. The cohort is built only on clients eligible throughout all of 2016 and 2017, removing commercial clients with eligibility shifts exceeding 20% as well as any clients contractually prohibited from inclusion.