List Price by Condition

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According to a GoodRx analysis, the price for all drugs, brand and generic, has increased by 32% since 2014. This steep increase comes as no surprise, but a deeper look at price trends for some common conditions tells a more intricate story.

As it turns out, prices for drugs that treat certain conditions are rising faster than others. Specifically, prices for drugs that treat rheumatoid arthritis and anaphylaxis have increased by over 90% since 2014, while prices for depression and anxiety medications have dropped by 18%.

While the media continues to ring alarm bells over rising drug prices, it seems as if some Americans may be feeling these steep increases more than others.
Price Change by Condition, 2014-2019

<table>
<thead>
<tr>
<th>Condition</th>
<th>Price change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaphylaxis</td>
<td>+96%</td>
</tr>
<tr>
<td>Rheumatoid arthritis</td>
<td>+92%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>+58%</td>
</tr>
<tr>
<td>HIV</td>
<td>+42%</td>
</tr>
<tr>
<td>Asthma</td>
<td>+35%</td>
</tr>
<tr>
<td>Birth control</td>
<td>+18%</td>
</tr>
<tr>
<td>ADHD</td>
<td>+12%</td>
</tr>
<tr>
<td>Erectile dysfunction</td>
<td>+7%</td>
</tr>
<tr>
<td>Migraine</td>
<td>+5%</td>
</tr>
<tr>
<td>High cholesterol</td>
<td>+5%</td>
</tr>
<tr>
<td>Depression and anxiety</td>
<td>-18%</td>
</tr>
<tr>
<td>All drugs</td>
<td>+32%</td>
</tr>
</tbody>
</table>

These numbers are even more staggering when you consider the rate of inflation. If drug prices were rising in line with the rate of inflation, we would only see an increase of 9.69% since 2014. Instead, we are seeing increases of nearly 100% in some cases.

This analysis is based on the GoodRx List Price Index, a model created by GoodRx researchers that tracks list prices set by drug manufacturers. The index takes into account published list prices and the prescription drug mix as dispensed by community retail pharmacies.

While few people actually pay the full list price of a drug, it is a powerful indicator of drug pricing trends as it informs other prices, like the cash price or copay that people pay in pharmacies. What’s more, high-priced drugs end up raising insurance rates and overall healthcare spending, which trickles down to patients in the end.

ADHD

Patients taking medications for ADHD (attention-deficit hyperactivity disorder) have been spared from large price hikes—in fact, since 2014, the average list price for ADHD medications has only increased by 12%.
The relatively stable average list price likely reflects the fact that many generic ADHD medications have been approved recently. Some of the most popular ADHD medications, like Adderall and Ritalin, have affordable generic counterparts that cost less than $30 for a 30-day supply.

However, a deeper dive into ADHD medications reveals that 3 medications significantly contribute to the 12% average list price increase: Concerta, Strattera, and Vyvanse. Concerta and Strattera have generic alternatives, so patients are shielded from the climbing brand prices, but Vyvanse is a brand-only drug, and its list price has increased by about 66% since 2014.
Anaphylaxis

The average list price for anaphylaxis medications, like EpiPen and Adrenaclick, has increased by 96% since 2014, far surpassing the rate of increase in the average list price of all drugs.
This increase may not come as a surprise to many, considering the EpiPen controversy that occurred two years ago. Back in August 2016, many patients who filled their EpiPen or EpiPen JR prescriptions experienced sticker shock at the pharmacy. Those paying the cash price for EpiPen were hit with a bill for a whopping $600 or more for a pack of 2 auto-injectors. It soon came out that manufacturer Mylan had increased prices for EpiPen and EpiPen JR by 400% from 2011 to 2016.

In an effort to curb the high cost of anaphylaxis drugs, manufacturers and pharmacies have taken steps to release more affordable alternatives. Both Teva and Mylan released generic versions of EpiPen, and CVS slashed prices for the EpiPen alternative, Adrenaclick. These efforts are reflected in the list price trend—price increases for anaphylaxis medications halted in the middle of 2016 but have not dropped.
Asthma

The average list price of asthma medications has increased in lock step by about 35% since 2014—tracking closely with the trend for average list price of all drugs.

Much of this increase is due to prices of popular asthma brand drugs like **Advair**, **Flovent**, and **Symbicort** that have increased by 47% since 2013.

Unfortunately, this 35% increase in asthma drug prices disproportionately hits underinsured and uninsured individuals. A report done by the Centers for Disease Control and Prevention found that in some states, as many as 20% of people with asthma do not have insurance and are forced to pay out of pocket for their inhalers. What's more, individuals lacking insurance tend to live in lower-income areas, which have higher rates of asthma.
Birth control

While the average list price for all birth control medications has increased by 18% since 2014 and is still on the rise, it is not increasing as quickly as the average list price of all drugs.

Much of this increase can be explained by the changing list price of 3 drugs—Nuvaring, Lo Loestrin FE, and Minastrin 24 FE, which have increased by 77%, 70%, and 114%, respectively, since 2014. While a more affordable, generic version of brand-name Minastrin 24 FE is available, which may shield some people from climbing list prices, both Nuvaring and Lo Loestrin FE are brand-only drugs.
Unfortunately, these price increases may be hitting low-income communities harder than high-income communities. According to a previous report done by the GoodRx Research team, more birth control prescriptions are filled in high-income communities. Specifically, nearly 350 birth control prescriptions per 1,000 people were filled in higher-income neighborhoods compared to only 150 birth control prescriptions per 1,000 people in lower-income communities. Even though the increase in birth control price is relatively small, it could be one of the factors driving a wide gap in fills between high- and low-income communities.

Depression and anxiety

While all other conditions on this list have seen an increase in average drug list price, the average list price for drugs that treat depression and anxiety has dropped since 2014—by 18% to be exact.
This 18% decline is largely a product of individual price trends of the multiple generics that are approved to treat anxiety and depression. List prices for quetiapine ER (generic Seroquel XR) and escitalopram (generic Lexapro) have both dropped by around 40% since 2014, and those for aripiprazole (generic Abilify) and duloxetine (generic Cymbalta) have dropped by 69% and 82%, respectively, in the same time period.
Diabetes

It’s no surprise, but prices for diabetes medications are on the rise. Since 2014, the average list price for diabetes medications has increased by 58%. 
What’s driving this increase? A couple of things.

First off, the list price for one drug, Glumetza, has increased by nearly 1,000% since 2014. While this is a large increase, the cheaper, generic version of Glumetza, metformin ER, is more commonly prescribed.
From the chart above, you'll see that the price for Glumetza skyrocketed in mid-2015 right before its generic, metformin ER, was released. This isn't a coincidence. It's a common pricing tactic manufacturers use to keep the prices of generics high, while still touting that generics are a bargain compared to the brands.

Secondly, according to previous research on diabetes medications, prices for non-insulin medications are far outpacing prices for insulins and are likely a large contributor to the increase in the overall list price of diabetes medications. Non-insulin medications like Victoza and Januvia have increased in list price by 72% and 59%, respectively, since 2014.

Erectile dysfunction

The average list price for erectile dysfunction (ED) drugs, which includes Viagra and Cialis, increased the fastest compared to the average drug list price for any other condition, at least up
until 2018. In fact, in 2018, the average list price of erectile dysfunction medications was almost 150% more expensive than it was in 2014.

But after rising in lockstep multiple times per year, the average list price for erectile dysfunction medications dropped drastically and is now only 7% more expensive than it was 5 years ago.

So, what accounts for this drop in average list price? Three new generics. Since December 2017, the most popular erectile dysfunction medications, Viagra, Cialis, and Levitra, went generic, and prices for those generics have dropped off. In fact, since its approval, generic Viagra (sildenafil) has seen a 74% decline in list price.

While ED medications are more affordable than ever, you may notice from the graph above that the average list price still hasn’t returned to where it was in 2014. This is mainly due to brand-name ED drugs continuing to get more expensive: List prices for Viagra and Cialis have increased by 165% and 119%, respectively, since 2015.
High cholesterol

High cholesterol medications have seen their fair share of price hikes, but since 2016, their average list price has dropped substantially. Now, on average, high cholesterol medications are only 5% more expensive than they were in 2014.

List Price for High Cholesterol Medications

Despite the fact that the average list price of high cholesterol drugs increased more than 30% from 2014 to 2016, the price of statins began dropping in 2016, which likely brought down the overall average. Statins are a class of drugs that treat high cholesterol and include popular drugs like Lipitor (atorvastatin), Zocor (simvastatin), and Crestor (rosuvastatin). List prices for statins are now 22% cheaper on average compared to where they were in 2014.
HIV

Medications that treat HIV are notoriously expensive, and their prices are only increasing. Since 2014, the average list price for HIV medications has increased by 42%.
Four popular brand-name medications are the main contributors to this rise in list price. Since 2014, list prices for Atripla, Prezista, Tivicay, and Complera have all increased by around 50%. What’s more, all four of these drugs are brand-only, so there are no affordable alternatives and patients have likely been feeling these price increases.

Migraine

From 2014 to mid-2018, the average list price for migraine medications increased by almost 20%, but now, it’s only 5% higher than it was in 2014.
So, what has happened? Two things. First, Treximet, a tablet used to treat migraines, went generic in February 2018, and second, list prices for some popular generic migraine drugs have dropped. Specifically, eletriptan, divalproex ER, rizatriptan, and naratriptan have all decreased in list price by almost 60%, and sumatriptan has decreased by more than 20% since 2014.
Rheumatoid arthritis

The average list price for rheumatoid arthritis medications has increased by 92% since 2014, and it may continue to climb.
Four popular brand drugs seem to be contributing to this steep increase. Since 2014, list prices for Enbrel, Humira, and Xeljanz have all increased by over 100%, and the list price for Duexis has increased by 266%.

If these price increases weren’t enough, keep in mind that both Humira and Enbrel are both biologic drugs that are made out of living cells. This means that they will likely never get affordable generics, as it is nearly impossible to make an exact replica of a biologic drug.

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**Methodology:**

The list price index is used to track the evolution of the price of prescription drugs in the United States. This index is based on published list prices as set by the manufacturers of prescription drugs, and the prescription drug mix as dispensed by community retail pharmacies.

The list price index is calculated daily, taking into account day-to-day changes in list prices and quarterly changes in the prescription drug mix. The list price index starts on December 31,
2013, using the Q4 2013 drug mix and published list prices on December 31, 2013 and ends on
August 31, 2019. The index is based on the prescription drug mix as dispensed, so price
changes in high-volume and high-cost drugs will have more impact on the index than
low-volume and low-cost drugs.

The GoodRx list price index uses a nationally representative sample of prescription fills from
each quarter to estimate the drug mix across all community retail pharmacies for that time
period. The drug mix is used to calculate the average price change of all drugs and is updated
every quarter.

**Drugs included for each condition:**

**ADHD:** strattera, vyvanse, methylphenidate er, concerta, focalin xr, intuniv, methylphenidate sr,
daytrana, quillivant xr, methylphenidate la, ritalin la, cotempla xr, adzenys xr-odt, quillichew er,
dyanavel xr, adderal, aptensio xr, methamphetamine, mydayis, vayarin, metadate cd, kapvay,
evekeo, zenzedi, amphetamine sulfate, metadate er, focialin, ritalin, clonidine er,
dextroamphetamine er, dexmethamphetamine, dextroamphetamine, methylphenidate,
dexmethylphenidate er, methylphenidate cd, atomoxetine, adderal xr, amphetamine salt
combo, guanfacine er, amphetamine salt combo xr

**Anaphylaxis:** epipen, epipen jr, auvi-q, dexamethasone, rayos, cortef, solu-cortef, depo-medrol,
solu-medrol, methylprednisolone acetate, orapred, cortisone, medrol, dexamethasone intensol,
millipred, prednisolone, prednisolone sodium phosphate, phenadoz, hydrocortisone,
promethegan, cyproheptadine, promethazine, methylprednisolone, epinephrine

**Asthma:** advair, flovent, symbicort, proair, zyflo cr, qvar, serevent, xolair, ventolin, spiriva,
theophylline er, xopenex hfa, terbutaline, alvesco, proventil, asmanex, arnuity ellipta, sski,
theo-24, dexamethasone, nucala, foradil, dexpak, rayos, airduo, cortef, solu-cortef, medrol,
prednisone intensol, depo-medrol, solu-medrol, methylprednisolone acetate, orapred, cortisone, medrol, dexamethasone intensol, xopenex, millipred, prednisolone, prednisolone sodium phosphate, armonair, cortisone, metaproterenol, dexamethasone intensol, xopenex, millipred, orapred, theophylline, kenalog, prednisolone sodium phosphate, prednisolone, albuterol er, zyflo,
singulair, fasenra, prochamber, dupixent, zafirlukast, easivent, hydrocortisone, asmanex hfa,
aerocampher plus, prednisone, aerocampher plus w/mask, fluticasone/salmeterol, zileuton er,
cromolyn, pulmicort, aerospan hfa, methylprednisolone, dulera, levalbuterol, albuterol,
montelukast, budesonide

**Birth Control:** nuvaring, lo loestrin fe, minastrin 24 fe, ortho tri-cyclen lo, xulane,
medroxyprogesterone, taytulla, generess fe, natazia, tilia fe, beyaz, mirena, safyral, ortho
tri-cyclen, caziant, yaz, angeliq, yasmin, nexplanon, ortho-cyclen, quartette, leena,
drospirenone/etinyl estradiol/levomefolate, seasonique, kyleena, vienna, paragard, depo-subq
provera, micronor, balcoltra, skyla, microgestin 1/20, melodetta 24 fe, mibelas 24 fe,
ortho-novum 1/35, loestrin fe 1/20, ortho-novum 7/7/7, isibloom, loseasonique, mircette,
estrostep fe, kaitlib fe, loestrin 1/20, norlyda, bekyree, loestrin 1.5/30, gildagia, fayosim, lyza, tydemy, lillow, microgestin 24 fe, ortho-cept, camila, rajani, desogen, myzilra, mili, aubra, norinyl 1/35, briellyn, vyfemla, larissia, cyclafem 7/7/7, emoquette, gildess fe 1.5/30, tri-lo marzia, kimidess, necon 10/11, femynor, gildess 1.5/30, microgestin fe 1/20, previfem, chateal, dassetta 7/7/7, levora, pirmella 7/7/7, gildess 1/20, larin 1.5/30, aranelle, sronyx, wera, larin fe 1.5/30, philith, pirmella 1/35, tri-femynor, gildess fe 1/20, trinessa lo, larin fe 1/20, junel fe 24, alyacen 7/7/7, debilitane, cyclafem 1/35, tri-previfem, wymzya fe, microgestin 1.5/30, gildess 24 fe, tri-lo sprintec, layolis fe, jencycla, levenost, luteru, necon 1/50, low-ogestrel, amethyst, microgestin fe 1.5/30, zovia, tri-legest fe, juleber, zenchen, kurvelo, lessina, zenchen fe, ogestrel, zarah, velivet, necon 0.5/35, ethinyl estradiol/norethindrone, nortrel 7/7/7, amethia lo, necon 7/7/7, balziva, sharobel, trivora, marlissa, heather, orsytia, enpresse, tri-estarylla, dassetta 1/35, norgestimate/ethinyl estradiol, pimtrea, camreselo, elinest, kelnor, setlakin, estarylla, altavera, falmina, daysee, desogestrel/ethinyl estradiol, enskyce, larin 1/20, portia, nortrel 1/35, junel 1.5/30, larin 24 fe, errin, nortrel 0.5/35, nor-a-be, jolivette, vestib, loryna, ethinyl estradiol/levonorgestrel, gianvi, lomedia 24 fe, junel 1/20, mono-linyah, kariva, syeda, junel fe 1.5/30, quasense, jolissa, norethindrone, tri-linyah, introvale, alyacen 1/35, necon 1/35, reclipsen, crynelle, aviane, azurlet, junel fe 1/20, amethia, mononessa, apri, camrese, tri-lo estarylla, trinessa, nikki, ocella, tri-sprintec, blisovi fe 1.5/30, sprintec, ashlyna, blisovi fe 1/20, tri norrgestimate/ethinyl estradiol, viorele, blisovi 24 fe, drosperone/ethinyl estradiol

Depression and anxiety: abilify, wellbutrin xl, pristiq, viibryd, bupropion xl, trintellix, seroquel xr, trazodone, rexulti, lexapro, amitriptyline, effexor xr, fetzima, doxepin, mirtazapine, nortriptyline, ativan, fluoxetine, citalopram, emsam, chlorpromazine, paroxetine er, prozac, forfivo xl, wellbutrin sr, bupropion, zoloft, nefazodone, clorazepate, xanax, lorazepam, aplenzin, desipramine, ceflexa, deplin, alprazolam, perphenazine/amitriptyline, sertraline, hydroxyzine pamoate, tranlycypromine, paxil, imipramine hydrochloride, protriptyline, paxil cr, prochlorperazine, diazepam, chlordiazepoxide/amitriptyline, meprobamate, valium, imipramine pamoate, oxazepam, olanzapine/fluoxetine, desvenlafaxine er, phenelzine, trifluoperazine, wellbutrin, maprotiline, amoxapine, vistaril, chlordiazepoxide, nardil, midazolam, oleptro, bupropion (Forfivo XL), desvenlafaxine succinate er, paroxetine, hydroxyzine hydrochloride, bupropion sr, venlafaxine, bupropion (Zyban), venlafaxine er, buspirona, quetiapine er, cymbalta, escitalopram, aripiprazole, duloxetine

Diabetes: glumetza, novolog, victoza, invokana, trulicity, humalog, jardiance, novolog 70/30, bydureon, farxiga, tradjenta, welchol, byetta,apidra, humalog 75/25, bayer contour next, humulin r, ozempic, humulin n, invokamet, symlinpen, tresiba, onglyza, janumet xr, xiduo xr, riomet, bd ultra-fine, jentadueto, synjardy, bydureon bcise, humulin 70/30, humalog 50/50, invokamet xr, synjardy xr, soliqua 100/33, vgo, kombiglyze xr, toujeo max, jentadueto xr, cycloset, actos, xultophy, actoplus met xr, chlorpropamide, steglatro, amaryl, starlix, glucotrol xl, glyset, oseen, prodigy autocode, glucovance, avandia, afrezza, pioglitazone/glimepiride, prandin, nesina, advocate redi-code, kazano, surecomfort, fiasp, trueresult, nova max, alogliptin/pioglitazone, novotwist, fortamet, trueplus, glucophage xr, glucophage, glyburide micronized, freestyle libre, wavesense, alogliptin/metformin, novolin r, dextrom g6, glimepiride
novolin n, bayer microlet, toujeo, januvia, acarbose, precision xtra, novolin 70/30, truetrack, novofine, admelog, true metrix, bayer breeze 2, glyxambi, metformin er (Fortamet), glipizide, glipizide/metformin, alogliptin, colesevelam, glyburide/metformin, nateglinide, janumet, glyburide, pioglitazone/metformin, pioglitazone, glipizide er, metformin er (Glucophage XR), bayer contour, basaglar, metformin er (Glumetza), accu-check, repaglinide, levetiracetam, metformin, abbott freestyle, onetouch, lantus

Erectile dysfunction: viagra, cialis, levitra, stendra, staxyn, caverject impulse, caverject, vardenafil, muse, edex, tadalafil (Cialis), sildenafil

High cholesterol: zetia, crestor, vytorin, welchol, repatha, livalo, lipitor, colestitol, ezetimibe/simvastatin, praluent, fenoglide, antara, lescol xl, cholestyramine, lovastatin, lipifen, previvalte, fluvastatin, fluvastatin er, trilipix, tricor, colestitol, zocor, pravachol, altoprev, triglide, fenofibric acid, cholestyramine light, niaskan, amlodipine/atorvastatin, niacin er, fenofibrate micronized, gemfibrozil, fenofibric acid dr, colesevelam, pravastatin, simvastatin, fenofibrate, ezetimibe, rosuvastatin, atorvastatin

HIV: atripla, prezista, tivicay, complera, genvoya, prezcobix, sustiva, intence, descovy, reytaz, odefsey, triumeq, epzicom, truvada, biktavir, symtuza, edurant, lexiva, viread, selzentry, jula, viracept, viramune.xr, invirase, viramune, pifeltro, stavudine, zidovudine, epivir, didanosine, efavirenz, zidovudine nevirapine, fosamprenavir, combivir, atazanavir, ritonavir, emtriva, trizivir, evotaz, nevirapine er, abacavir/ lamivudine/zidovudine, kaletra, stribild, tenofovir, lamivudine, abacavir, lamivudine/zidovudine, isentress, abacavir/lamivudine, norvir

Migraine: relpax, treximet, trokendi xr, amitriptyline, dihydroergotamine mesylate, frova, zomig, topamax, cambia, imitrex, propranolol, migranal, propranolol er, axert, depakote er, botox, depakote, imitrex statdose, onzetra, inderal la, isometheptene/dichloralphenazone/acetaminophen, migergot, amerge, almotriptan, zembrace, cafegrot, sumatriptan/naproxen, zomig zmt, emgality, ajoyv, zecuity, maxalt, maxalt-mlt, aimovig, frovatriptan, divalprox, toipramate, sumatriptan statdose, zolmitriptan, naratriptan, eleetriptan, rizatriptan, divalproex er, sumatriptan

Rheumatoid Arthritis: enbrel, humira, xeljanz, celebrex, duexis, vimovo, cuprimine, xeljanz xr, salsalate, azasan, kevzara, plaquenil, dexamethasone, arthrotec, dexpak, ketoprofen, rayos, mobic, cortef, solu-cortef, depo-medrol, solu-medrol, methylprednisolone acetate, ibuprofen non-prescription, medrol, fenortho, orapred, prednisone intensol, cortisone, trexall, millipred, dexamethasone intensol, naprelan, indocin, kenalog, nalfon, meclofenamate, tolmetin, fenoprofen, flurbiprofen, olumiam, prednisolone, imuran, prednisolone sodium phosphate, aspirin, naproxen er, inflectra, ridaura, naproxen, naproxen dr, rasuvo, gengraf, diflunisal, otrexup, ketoprofen er, hydrocortisone, sulindac, neoral, sulfasalazine dr, diclofenac potassium, simponi, indomethacin, etodolac er, prednisone, ibuprofen, indomethacin er, diclofenac sodium er, remicade, meloxicam, methylprednisolone, oxaprozin, leflunomide, diclofenac sodium/misoprostol, etodolac, cyclosporine modified, piroxicam, kineret, h.p. acthar,
nabumetone, actemra, methotrexate, azathioprine, cimzia, diclofenac sodium, ocrenia, hydroxychloroquine, celecoxib