



Disparities Between Rich & Poor

The Effect of Income on Prescription Fill Patterns

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It's well known that income affects health. Studies have shown that individuals in low-income areas suffer from higher rates of conditions like [depression](#), [obesity](#) and [diabetes](#), and have [lower self-reported health](#) than those in high-income areas.

But a close look of more than 50 million US prescription claims shows how stark the differences wealthy areas and poor areas can be, in regard to which diseases are treated where and which medications are prescribed where.

Indeed, a picture emerges of two different Americas, where higher-income communities filled more prescriptions for lifestyle medications, anaphylaxis, birth control, binge eating disorder, mental health conditions, migraine, sleep disorders and women's health. Lower-income communities, meanwhile, had substantially more fills for prescriptions for HIV and hepatitis C, environmental infectious conditions, vitamin and nutritional disorders, and prenatal vitamins.

This analysis is based on a representative sample of 12 months of prescription claims from 39 of the largest Metropolitan Statistical Areas (MSAs) in the US. Within these MSAs, we assessed prescription fill trends between low- and high-income areas, as determined by the US Census Bureau.

In particular, we focused on fills for medications for most common conditions that were disproportionately filled in low-income communities when compared to high-income communities, or vice versa. In other words, we looked for conditions that were being disparately treated in either rich or poor areas - what might be considered rich-neighborhood problems or poor-neighborhood problems.

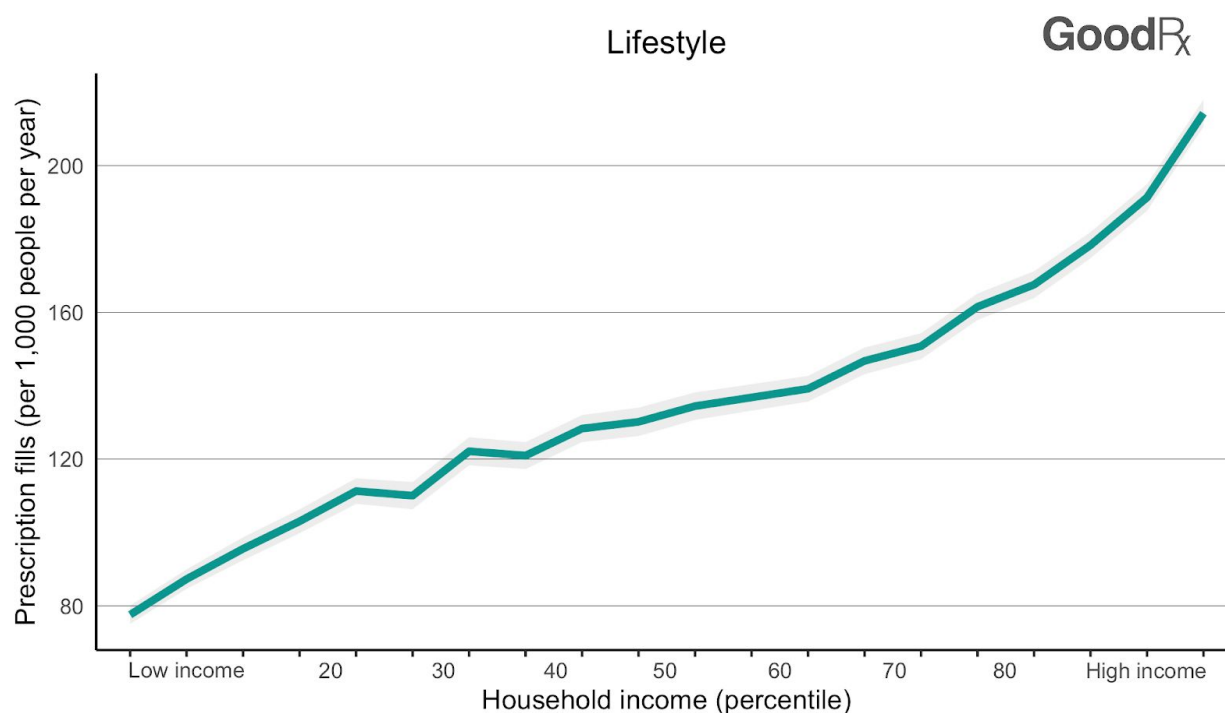
What follows is a breakdown, by condition, of our findings.

Medications filled at higher rates in high-income communities

Lifestyle

We defined lifestyle medications as prescription drugs typically used to treat acne, erectile dysfunction, excessive sweating, eyelash growth, facial wrinkles, hair loss, hyperkeratosis, rosacea, and skin discoloration.

Not surprisingly, higher-income communities have higher fills for medications that treat conditions like erectile dysfunction, facial wrinkles and skin discoloration.

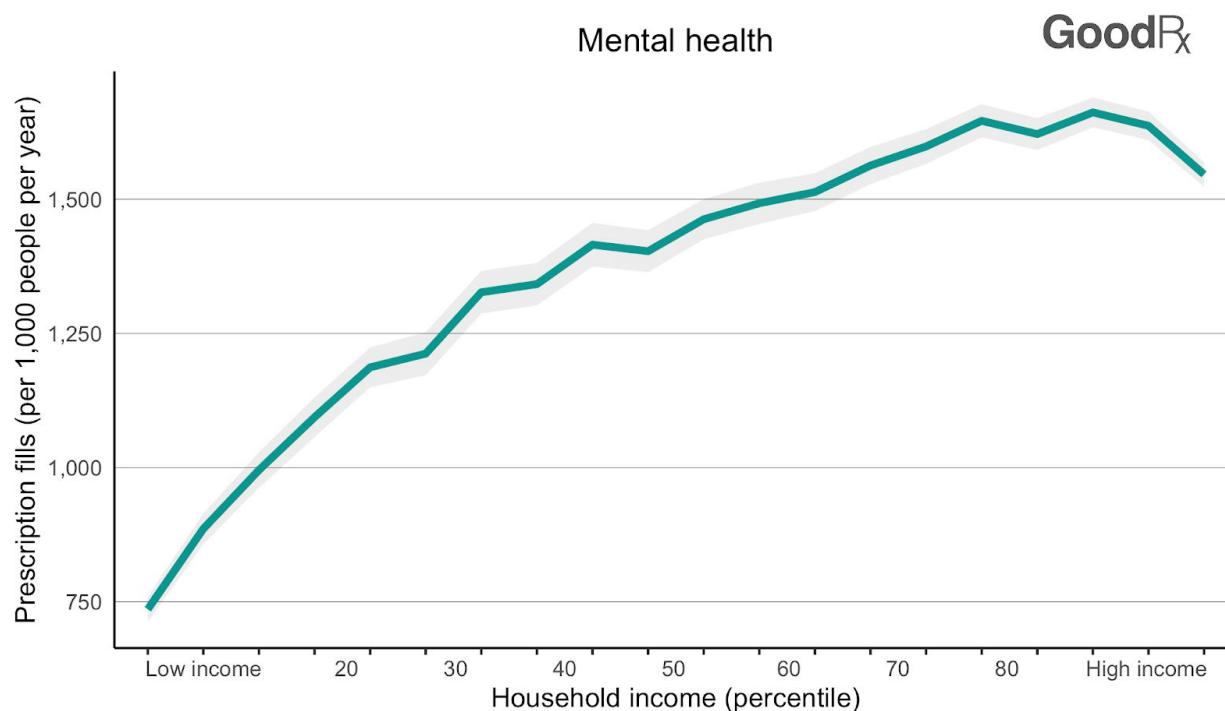


In 2018, there were over 200 fills per 1,000 people for lifestyle medications in the highest-income census tract. Presumably, higher income people can better afford these treatments.

Mental health

We defined mental health medications as prescription drugs typically used to treat ADHD, alcohol addiction, anxiety, bipolar disorder, depression, eating disorders, fatigue, obsessive-compulsive disorder, and panic disorder.

Fills for drugs used to treat mental health conditions are more popular in higher-income areas, with over 1,500 fills per 1,000 people filled for a mental health prescription in 2018.

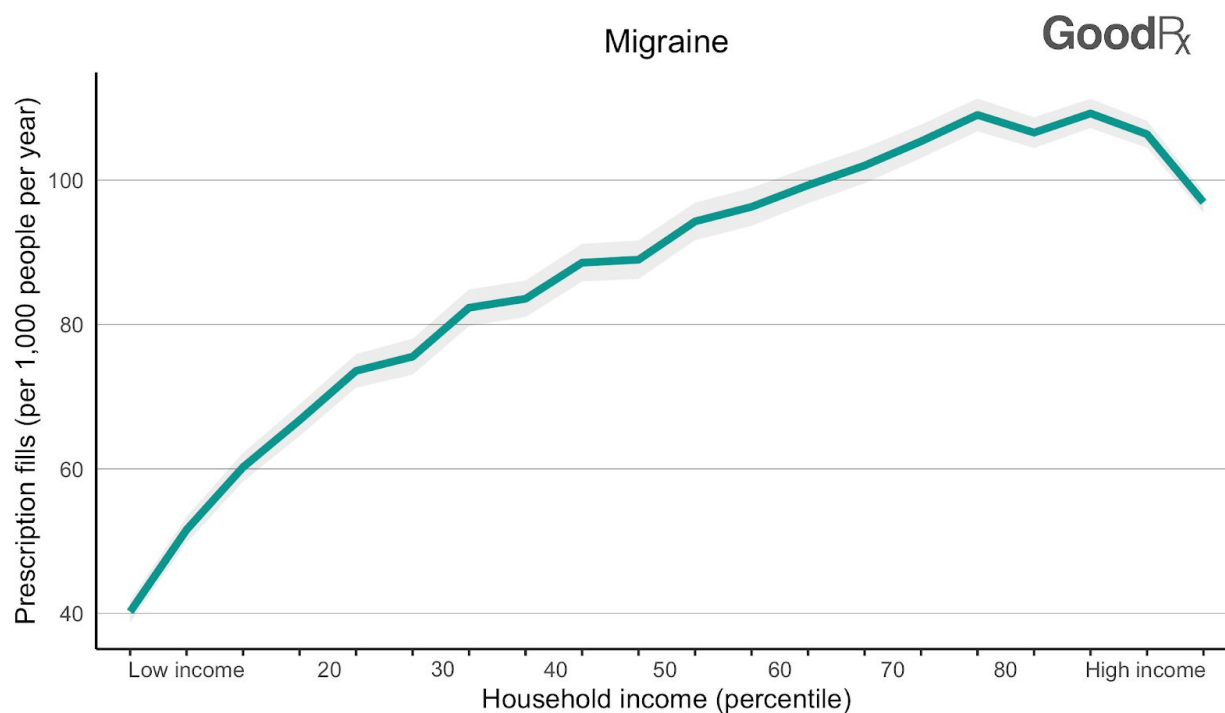


This trend seems counterintuitive. Studies have long suggested that lower-income communities have [higher rates](#) of mental health conditions like depression and anxiety which is opposite from the above fill trends.

What is accounting for this discrepancy? It's likely a difference in access to treatment. While low-income communities have higher rates of mental health disorders, it's possible that they have less time and fewer resources for diagnosis and treatment.

Migraine

Fills for migraine medications follow the same trend as that for mental health medications. In 2018, there were more than 100 fills per 1,000 people for migraine medications in highest-income areas compared to 40 fills per 1,000 people in lowest-income communities.

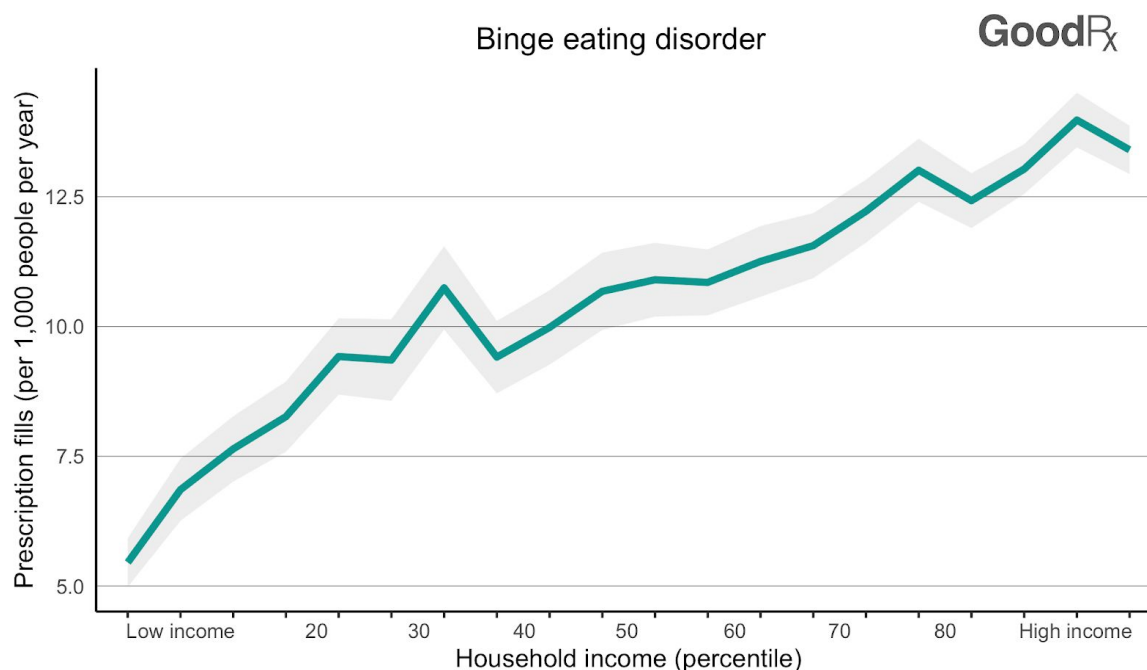


Just as we saw with prescription fills for mental health conditions, those in lower-socioeconomic communities tend to experience higher rates of migraine and chronic headache, but it could be more difficult to get access to treatment than in high-income communities.

Cost could also be a factor. Popular migraine treatments like Aimovig and Ajoovy can cost as much as \$600 for a 30-day supply and are poorly covered by most insurance plans, placing them out of reach for many.

Binge eating disorder

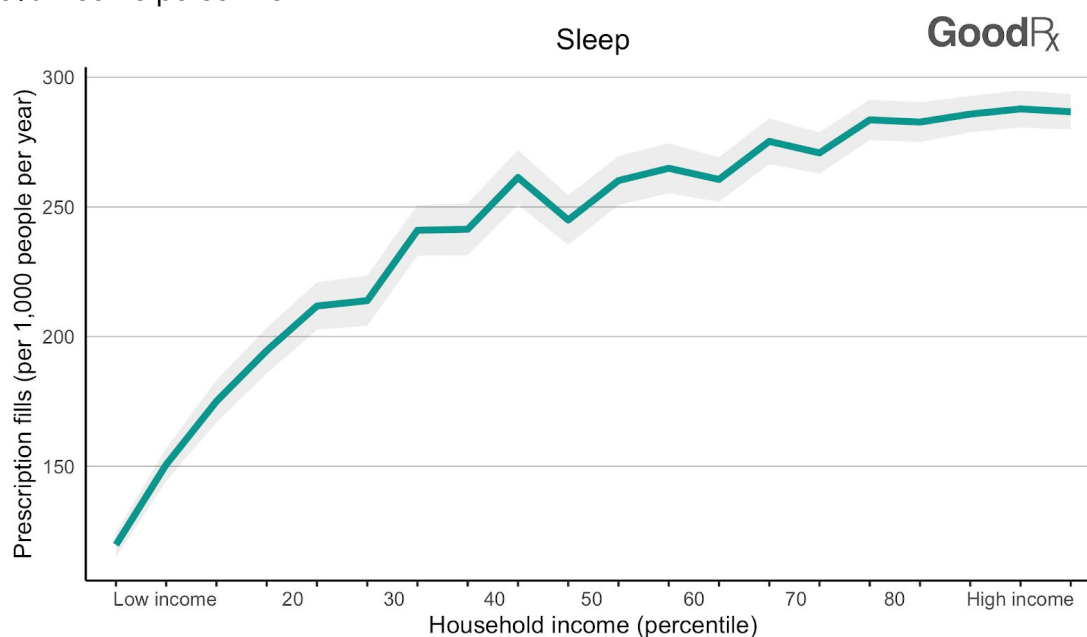
Binge eating disorder is an eating disorder characterized by episodes of consuming a large amount of food in a short time period. There is only one treatment for binge eating disorder—Vyvanse—and it has higher fill rates in higher-income communities.



Sleep disorders

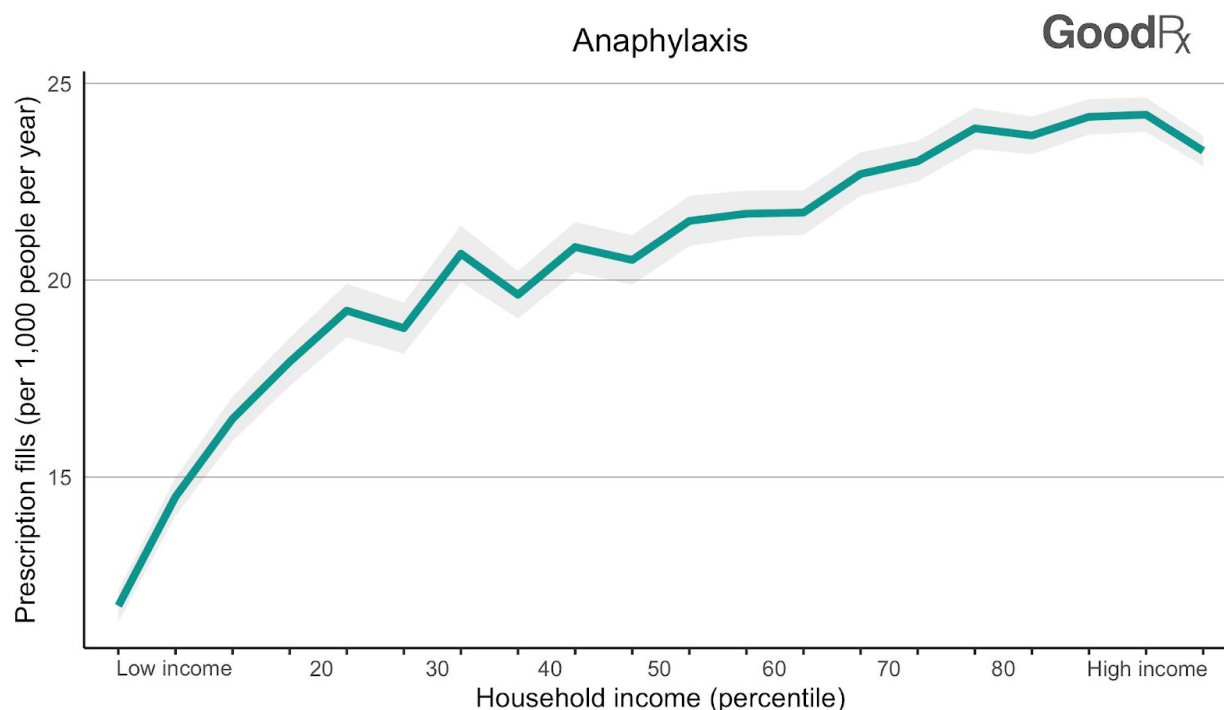
We defined medications for sleep disorders as prescription drugs typically used to treat insomnia, narcolepsy, and sleep apnea.

Treatment for sleep disorders like Ambien and Xyrem are filled more frequently in high-income communities, with nearly 300 fills for a sleep disorder treatment per 1,000 people in the highest 5% income percentile.



Anaphylaxis

Fills for drugs treating anaphylaxis, a severe allergic reaction, are higher in high-income communities.

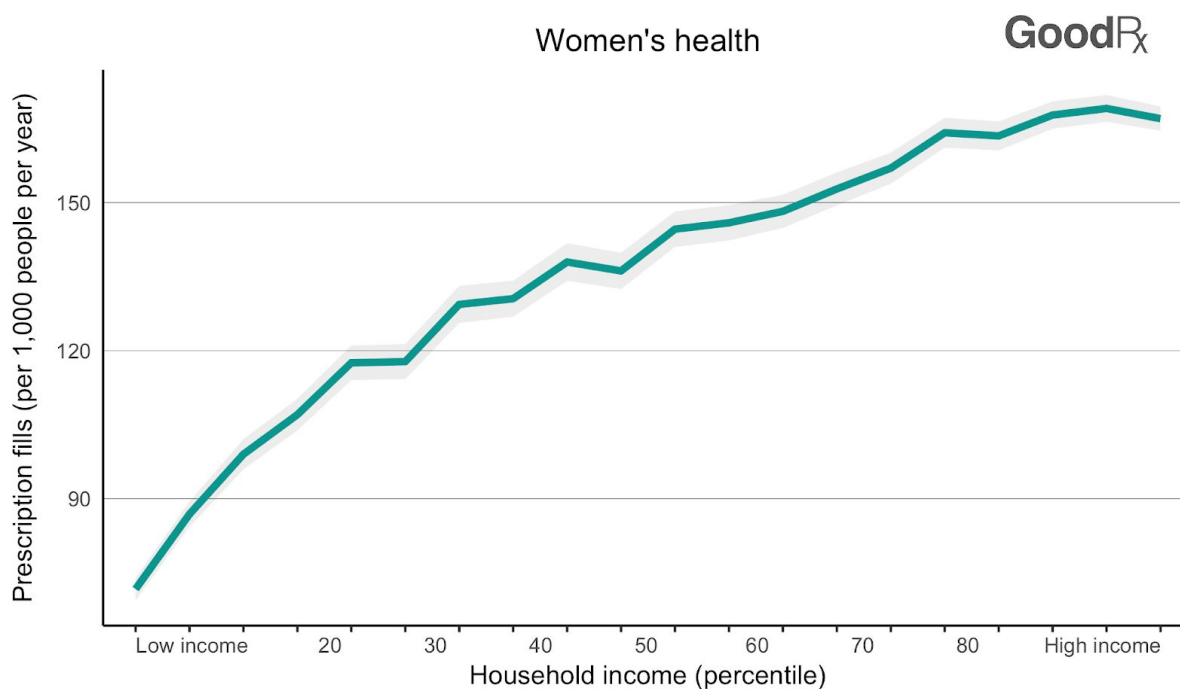


Anaphylaxis is caused by exposure to stimuli like peanuts or bee stings, and isn't something that typically thought of as income dependent. It's could be that those in higher-income communities have the resources to pay for anaphylaxis medications—especially considering the nearly \$300 per auto-injector price tag of popular drugs like EpiPen and Adrenaclick.

Women's health

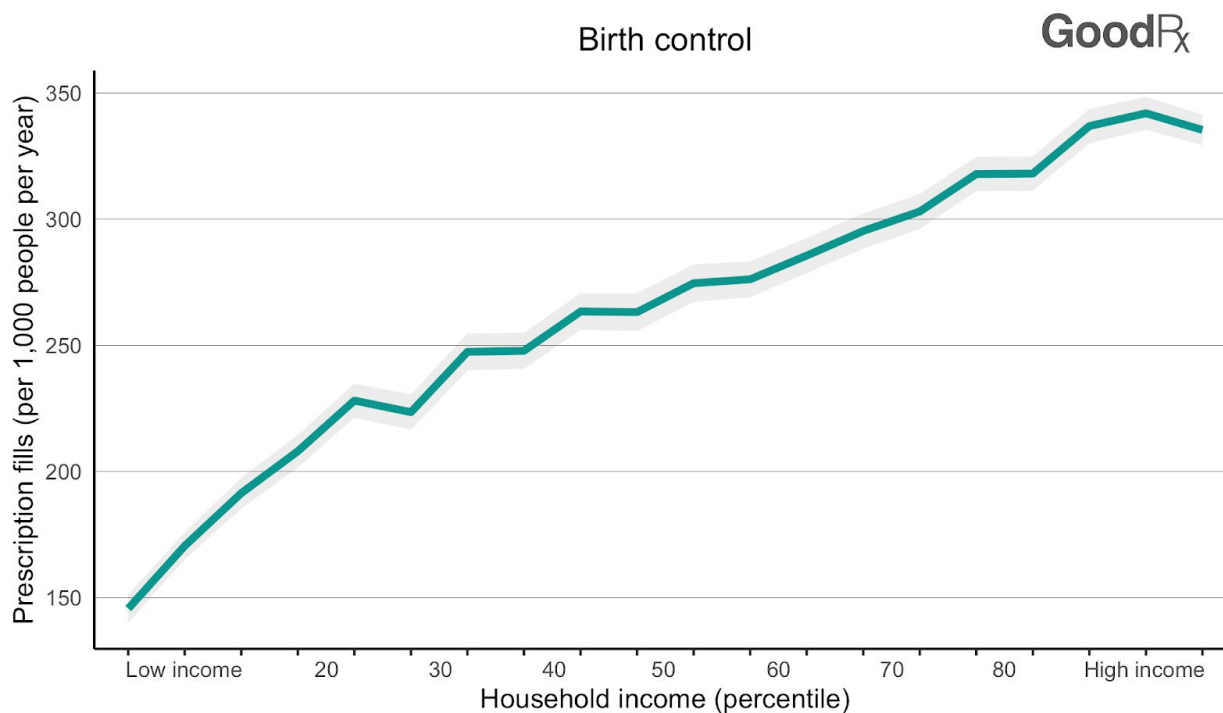
Here, we defined women's health medications as prescription drugs used to treat atrophic vaginitis, breast cancer, endometriosis, estrogen replacement, fertility, irregular menstruation, menopause, ovarian cancer, PCOS, PMDD, and preterm labor.

When it comes to women's health, those with a higher-income appear much more likely to get treatments for conditions like endometriosis, menopause and PCOS. In 2018, there were more than 150 fills per 1,000 people for a women's health medication in higher-income neighborhoods compared to only 80 fills per 1,000 people in lower-income communities - nearly a 2 to 1 ratio.



Birth control

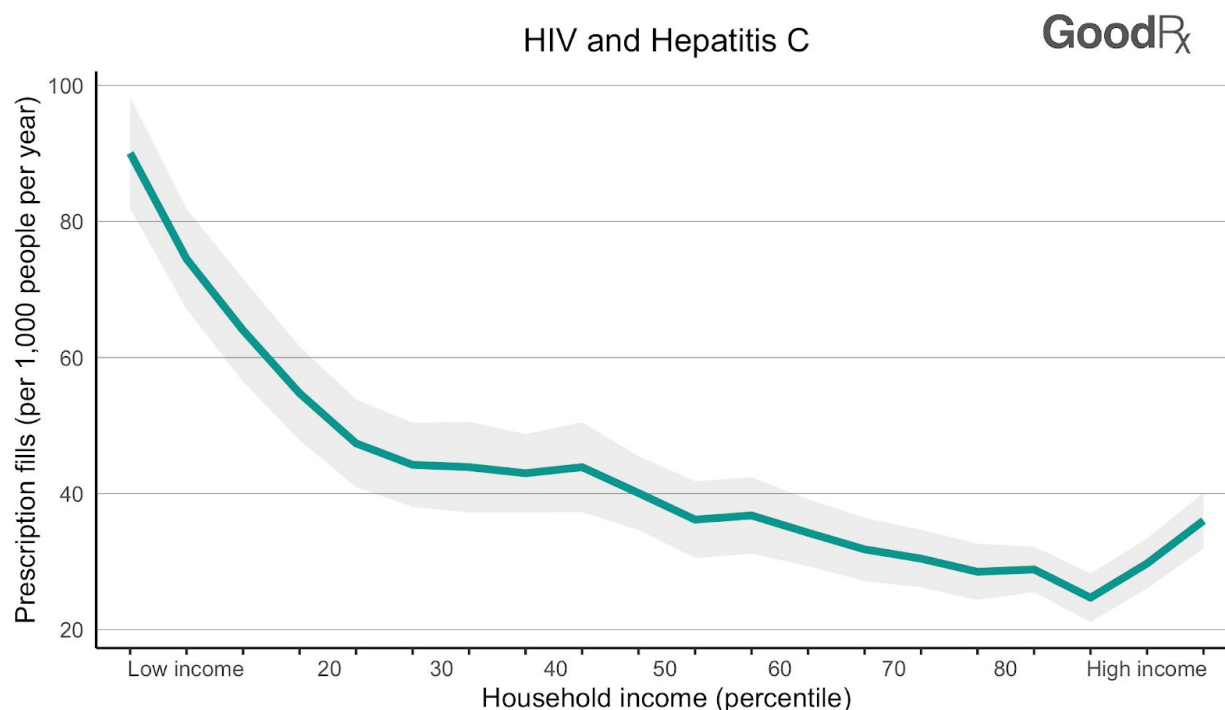
Unfortunately, the trend in birth control prescriptions is similar to women's health medication fills, where those with high-income have much higher tendency to use medications that prevent pregnancy.



Medications filled at higher rates in low-income communities

HIV and hepatitis C

Fills for HIV and hepatitis C treatments are higher in low-income communities and fill as many as 90 prescriptions per 1,000 people in 2018. Notice that this is one of the only conditions on the list where those in the lowest-income communities filled the most related medications.

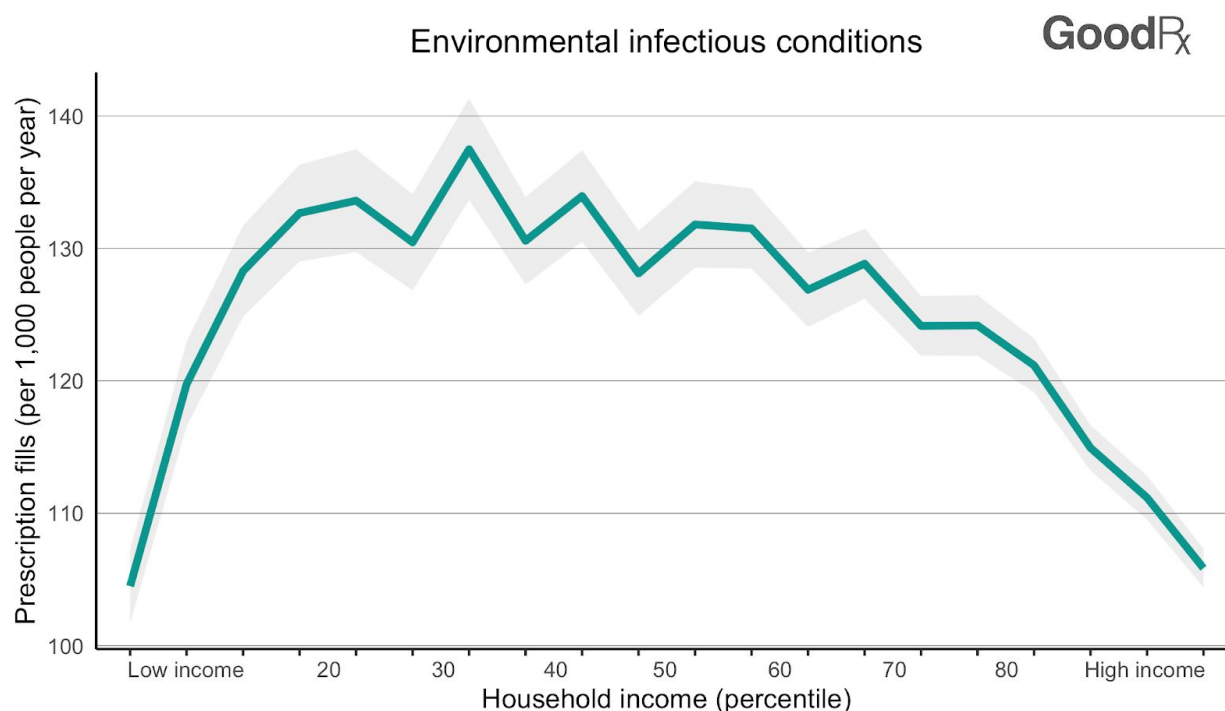


This is surprising to see when you consider the cost of these medications. Treatments for hepatitis C and HIV tend to be some of the most expensive on the market, costing upwards of \$30,000 for a monthly supply.

Environmental infectious conditions

Here, we defined medications related to environmental infectious conditions as those typically used to treat amoebiasis, athlete's foot, cytomegalovirus, hives, lice, parasitic infections, ringworm, scabies, thrush, and yeast infection.

Treatments for conditions like hives, lice and ringworm - conditions that are caused by environmental factors - are generally filled at the highest rates in low-income communities, but filled at the lowest rates in the poorest and richest census tracts.



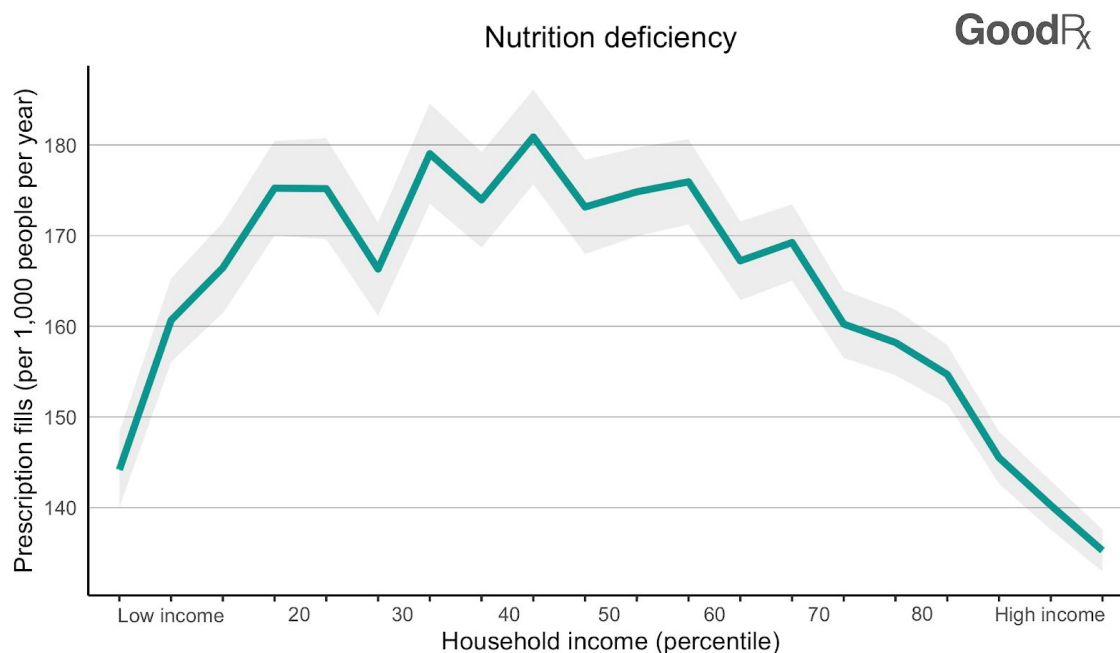
This makes some sense. Low-income communities contend with more environmental challenges, like a lack of adequate housing and higher levels of pollutants, which place them at a higher risk of environmentally-caused infections.

So why might the lowest-income census tract fill the fewest prescriptions for infection treatments? Unfortunately, this could again be caused by access to care: Those who need these treatments most often cannot afford them.

Vitamin and nutritional deficiencies

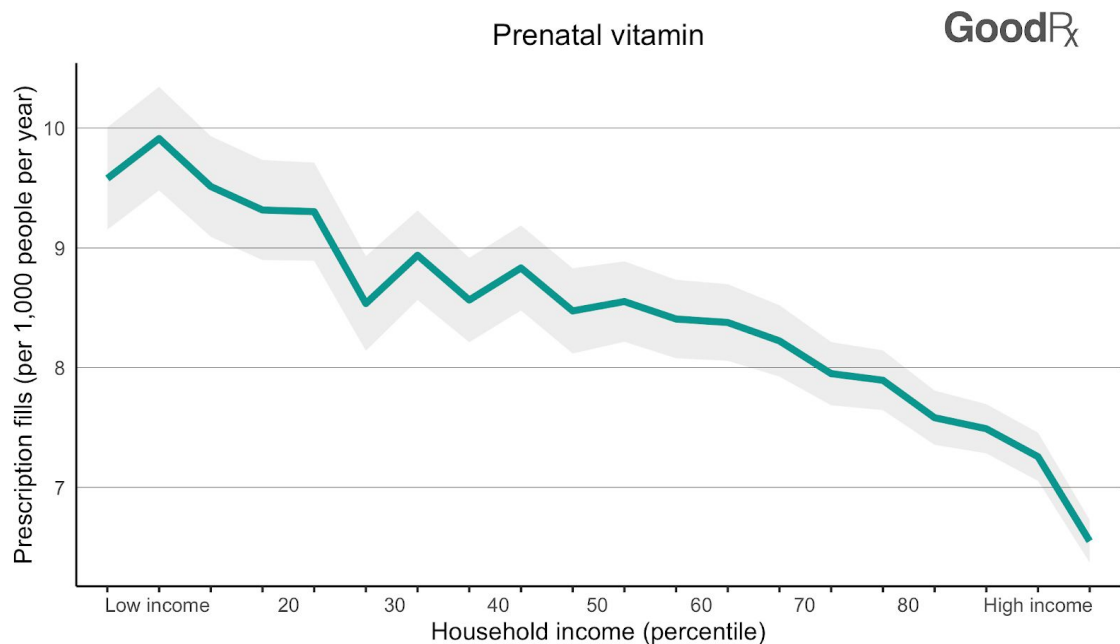
Here, we defined medications for vitamin/nutritional disorders as prescription drugs typically used to treat anemia, calcium deficiency, iron deficiency, nutritional deficiencies, vitamin B12 deficiency, and vitamin D deficiency.

Fills for drugs treating vitamin and nutritional disorders follow a similar pattern as the infection treatments graph above.



Again, this is not surprising. Low-income communities tend to have a high density of fast-food options and lower access to fresh foods, two factors that can lead to unhealthy eating habits and likely, higher rates of nutritional deficiencies.

Prenatal vitamins



Fills for prenatal vitamins are highest in lower-income communities with nearly 10 fills per 1,000 people in 2018.

This graph is even more staggering when you compare it to the birth control graph where women in the higher-income communities filled for more birth control.

Methodology: *This analysis is based on a nationally representative sample of prescription drug claims in the United States from November 2017-October 2018. After restricting the sample to fills at community retail pharmacies in 39 of the most populous Metropolitan Statistical Areas (MSAs) the sample consists of about 53 million prescription drug fills. Community retail pharmacies are neighborhood pharmacies open to the public, and exclude mail order pharmacies, pharmacies inside hospitals and pharmacies within a closed health care system. Claims are available based on the address of the pharmacy, and are attributed to census tracts based on distance and the number of pharmacies in the area.*

Claim counts at the census tract level are combined with census tract information from the American Community Survey (ACS), using the 2012-2016 data, including gender, age, race and ethnicity, education, type of health insurance, employment status and income. For income we used the median household income in the census tract. We estimated a linear model with income and a number of covariates and random effects for the MSAs to ascertain variation in prescription drug fills by income across census tracts. The results presented here are the estimated average number of fills across census tracts by median household income in the census tracts. Census tracts are grouped in 5 percent intervals to present results graphically.

Each prescription drug fill is linked to one or multiple conditions depending on the medication. For our condition analysis we use all drugs that are linked to a condition, with weights based on the number of conditions a drug is linked to (the weights sum up to one for each prescription drug claim). Subsequently, similar models as above were estimated for each condition. Uncertainty intervals from the models are shown in grey in the graphs.

MSAs included in this analysis: Akron, OH, Atlanta, GA, Baltimore, MD, Boston, MA, Charlotte, SC, Chicago, IL, Cleveland, OH, Dallas, TX, Daytona Beach, FL, Denver, CO, Detroit, MI, Fayetteville, NC, Fort Lauderdale, FL, Fort Worth, TX, Houston, TX, Indianapolis, IN, Los Angeles, CA, Melbourne, FL, Miami, FL, Minneapolis, MN, Modesto, CA, New York, NY, Orlando, FL, Philadelphia, PA, Phoenix, AZ, Pittsburgh, PA, Portland, OR, Raleigh, NC, Sacramento, CA, Salt Lake City, UT, San Diego, CA, San Francisco, CA, San Jose, CA, Seattle, WA, St. Louis, MO, Stockton, CA, Tacoma, WA, Tampa, FL, Washington, DC

Drugs included in each condition:

Anaphylaxis: a-hydrocort, adrenacllick, auvi-q, cortef, cortisone, cyproheptadine, depo-medrol, dexamethasone, dexamethasone intensol, dexchlorpheniramine, epinephrine (Adrenacllick), epinephrine (Epipen), epipen, epipen jr, hydrocortisone, medrol, methylprednisolone, methylprednisolone acetate, methylprednisolone sodium succinate, millipred, orapred, palgic, pediapred, phenadoz, prednisolone, prednisolone sodium phosphate, promethazine, promethegan, rayos, solu-cortef, solu-medrol, symjepi, veripred, zema

Birth control: altavera, alyacen 1/35, alyacen 7/7/7, amethia, amethia lo, amethyst, angeliq, annovera, apri, aranelle, ashlyna, aubra, aurovela 1.5/30, aurovela 1/20, aurovela 24 fe, aurovela fe 1.5/30, aurovela fe 1/20, aviane, ayuna, azurette, balcoltra, balziva, bekyree, beyaz, blisovi 24 fe, blisovi fe 1.5/30, blisovi fe 1/20, brevicon, briellyn, camila, camrese, camreselo, caziant, cesia, chateal, cryselle, cyclafem 1/35, cyclafem 7/7/7, cyclessa, cyonanz, cyred, dasetta 1/35, dasetta 7/7/7, daysee, debilitane, delyla, depo-provera, depo-subq provera, desogen, desogestrel/ethinyl estradiol, drospirenone/ethinyl estradiol, drospirenone/ethinyl estradiol/levomefolate, elinest, emoquette, enpresse, enskyce, errin, estarylla, estrostep fe, ethinyl estradiol/levonorgestrel, ethinyl estradiol/norethindrone, falmina, fayosim, femcon fe, femynor, generess fe, gianvi, gildagia, gildess 1.5/30, gildess 1/20, gildess 24 fe, gildess fe 1.5/30, gildess fe 1/20, hailey fe 1.5/30, hailey fe 1/20, heather, hemabate, implanon, incassia, introvale, isibloom, jaimiess, jencycla, jolessa, jolivette, juleber, junel 1.5/30, junel 1/20, junel fe 1.5/30, junel fe 1/20, junel fe 24, kaitlib fe, kalliga, kariva, kelnor, kimidess, kurvelo, kyleena, larin 1.5/30, larin 1/20, larin 24 fe, larin fe 1.5/30, larin fe 1/20, larissia, layolis fe, leena, lessina, levonest, levora, lillow, lo loestrin fe, lo minastrin fe, lo simpesse, lo/ovral, loestrin 1.5/30, loestrin 1/20, loestrin fe 1.5/30, loestrin fe 1/20, lomedica 24 fe, loryna, loseasonique, low-ogestrel, lutera, lyza, marlissa, medroxyprogesterone, melodetta 24 fe, mibelas 24 fe, microgestin 1.5/30, microgestin 1/20, microgestin 24 fe, microgestin fe 1.5/30, microgestin fe 1/20, micronor, mifeprex, mili, minastrin 24 fe, mircette, mirena, modicon, mono-linyah, mononessa, myzilra, natazia, neon 0.5/35, neon 1/35, neon 1/50, neon 10/11, neon 7/7/7, nexesta fe, nexplanon, nikki, nor-qd, nora-be, norethindrone, norgestimate/ethinyl estradiol, norinyl 1/35, norinyl 1/50, norlyda, nortrel 0.5/35, nortrel 1/35, nortrel 7/7/7, nuvaring, nylia 1/35, nylia 7/7/7, ocella, ogestrel, orsythia, ortho tri-cyclen, ortho tri-cyclen lo, ortho-cept, ortho-cyclen, ortho-novum 1/35, ortho-novum 7/7/7, ovcon 35, ovcon 50, paragard, philith, pimtrea, pirmella 1/35, pirmella 7/7/7, portia, prefest, previfem, quartette, quasense, rajani, reclipsen, safyral, seasonale, seasonique, setlakin, sharobel, simliya, simpesse, skyla, solia,

sprintec, sronyx, syeda, tarina fe 1/20, taytulla, tilia fe, tri norgestimate/ethinyl estradiol, tri-estarylla, tri-femynor, tri-legest fe, tri-linyah, tri-lo estarylla, tri-lo marzia, tri-lo sprintec, tri-lo-mili, tri-mili, tri-norinyl, tri-previfem, tri-sprintec, trinessa, trinessa lo, trivora, tydemy, velivet, vestura, vienva, viorele, volnea, vyfemla, wera, wymzya fe, xulane, yasmin, yaz, zarah, zenchent, zenchent fe, zeosa, zovia

Binge eating disorder: *vyvanse*

HIV/Hepatitis C: *abacavir, abacavir/lamivudine, abacavir/lamivudine/zidovudine, aptivus, atazanavir, atipla, biktarvy, cimduo, combivir, complera, copegus, crixivan, daklinza, delstrigo, descovy, didanosine, edurant, efavirenz, emtricitabine/tenofovir, emtriva, epclusa, epivir, epzicom, evotaz, fosamprenavir, fuzeon, genvoya, harvoni, intelence, intron a, invirase, isentress, juluca, kaletra, lamivudine, lamivudine/zidovudine, ledipasvir/sofosbuvir, lexiva, lopinavir/ritonavir, mavyret, moderiba, nevirapine, nevirapine er, norvir, odefsey, pegasys, pegintron, pifeltro, prezcobix, prezista, promacta, rebetol, rescriptor, retrovir, reyataz, ribasphere, ribavirin, ritonavir, selzentry, sofosbuvir/velpatasvir, sovaldi, stavudine, stribild, sustiva, symfi lo, symtuza, technivie, tenofovir, tivicaay, triumeq, trizivir, truvada, tybost, videx, viekira pak, viekira xr, viracept, viramune, viramune xr, viread, vitekta, vosevi, zepatier, zerit, ziagen, zidovudine*

Environmental infectious conditions: *ala-quin, albendazole, albenza, alcortin a, allegra, aloquin, aralen, arbinoxa, avc, benznidazole, biltricide, cancidas, carbinoxamine maleate, caspofungin, cetirizine, cetirizine prescription, children's allegra, children's cetirizine, children's fexofenadine, children's zyrtec, chloroquine phosphate, ciclodan, ciclopirox, cidofovir, clarinex, clemastine, clotrimazole, clotrimazole/betamethasone, cyproheptadine, cytovene, dermasorb af, dermazene, desloratadine, dexchlorpheniramine, diflucan, e.e.s., econazole, ecoza, elimite, emverm, eraxis, ertaczo, ery-tab, eryped, erythrocin, erythromycin, erythromycin dr, erythromycin ethylsuccinate, eurax, exelderm, fem ph, fexofenadine, flagyl, fluconazole, ganciclovir, grifulvin v, gris-peg, griseofulvin microsize, griseofulvin ultramicrosize, gynazole-1, hydrocortisone/iodoquinol, hydroxyzine hydrochloride, hydroxyzine pamoate, hylafem, impavido, ivermectin, karbinal er, ketoconazole, lamisil at, levocetirizine, lindane, loprox, lotrimin, lotrimin ultra, lotrisone, luzu, malathion, metronidazole, miconazole, miconazole 1, miconazole 3, miconazole 7, monistat 1, monistat 3, monistat 7, mycamine, mycelelex, naftifine, naftin, natroba, nix, nizoral, noxafil, nystatin, oravig, ovide, oxiconazole, oxistat, palgic, paromomycin, pce, permethrin, permethrin non-prescription, praziquantel, prevymis, relagard, ryvent, sklice, spinosad, stromectol, terazol 3, terazol 7, terbinafine non-prescription, terconazole, tinactin, tindamax, tinidazole, trimo-san, ulesfia, valcyte, valganciclovir, vfend, vistaril, vistide, voriconazole, vytone, xyzal, zazole, zeasorb, zyrtec*

Lifestyle: *absorica, acanya, aclaro, aclaro pd, acticlate, aczone, adapalene, adapalene/benzoyl peroxide, akne-mycin, ala-quin, aliclen, alphaquin hp, altreno, amnesteem, atralin, avage, avar, avar ls, avar-e, avar-e green, avar-e ls, avita, azelex, benzaclin, benzamycin, benzefoam, benzefoam ultra, benzepro, benzoyl peroxide, beyaz, bimatoprost, botox, bpo, caverject,*

caverject impulse, celacyn, cialis, claravis, cleocin t, clindacin etz, clindacin p, clindacin pac, clindagel, clindamax, clindamycin, clindamycin/benzoyl peroxide, clindamycin/tretinoin, demeclocycline, dermanic, dermasorb af, dermasorb xm, differin, differin gel, doryx, doryx mpc, doxycycline dr, doxycycline hyclate, doxycycline hyclate er, doxycycline monohydrate, drospirenone/ethinyl estradiol/levomefolate, drysol, duac, dynacin, edex, epiduo, epiduo forte, ery, erythromycin, erythromycin/benzoyl peroxide, eskata, estrostep fe, evoclin, fabior, finacea, finasteride, generess fe, gianvi, hydroquinone, hydroquinone sunscreen, hydroquinone time release, hypercare, isotretinoin, kaitlib fe, keralyt, klaron, latisse, layolis fe, levitra, loryna, lustra, lustra-af, melpaque hp, melquin 3, melquin hp, men's rogain, metrocream, metrogel, metrolotion, metronidazole, minocin, minocycline, minocycline er, minolira, minoxidil non-prescription, mirvaso, monodoxyne nl, monodox, morgidox, muse, myorisan, neuac, nicazel, nicazel forte, nicomide, nikki, noritate, nuquin hp, okebo, onexton, oracea, oxisoralen, pacnex hp, pacnex lp, pacnex mx, plexion, pr benzoyl peroxide, prascion, prascion fc, prascion ra, propecia, qbrexza, rajani, rea lo, refissa, remeven, renova, retin-a, retin-a micro, rhofade, rosadan, rosanil, rosula, salacyn, salex, salicylic acid, salkera, salvax, seysara, sildenafil, solodyn, soolantra, staxyn, stendra, sulfacetamide, sulfacetamide/sulfur, sulfacleanse, sumadan, sumadan xlt, sumaxin, sumaxin cp, tadalafil (Cialis), tazarotene, tazorac, tetracycline, tilia fe, tretin x, tretinoin, tretinoin emollient, tretinoin micro, tri-legest fe, tri-luma, umecta, umecta pd, uramaxin gt, urea, vanoxide hc, vardenafil, veltin, vestura, viagra, vibramycin, vibramycin calcium, vibramycin monohydrate, women's rogain, x-viate, xerac ac, ximino, yaz, zenatane, zencia, ziana

Vitamin/nutritional disorders: active fe, anadrol, animi-3, animi-3 with vitamin d, aranesp, calcitriol, calcium carbonate, cardiotek rx, centrateg, cerefolin, coq10, corvita 150, cyanocobalamin, daily-vite, decara, dermanic, dhe, dialyvite, dialyvite 3000, dialyvite 5000, dialyvite supreme d, dialyvite with zinc, diatx zn, drisdol, effer-k, epogen, ergocalciferol, falessa, feosol, fer-iron, feraheme, feriva, feriva 21/7, ferocon, ferotrin, ferralet 90, ferraplus 90, ferrex 28, ferlecit, ferrogels forte, ferrous gluconate, ferrous sulfate, floriva, folbee, folbee plus, folbee plus cz, folbic, folcaps, folgard, folgard os, folic acid, folplex, foltrate, foltx, fusion plus, glutathione, hematogen, hematogen fa, hematogen forte, hemocyte f, hemocyte plus, hydroxocobalamin, infed, injectafer, integra, integra f, integra plus, irospan, k-effervescent, l-methyl b6 b12, leucovorin, magnesium oxide, maxaron forte, metafolbic, metamucil, methylene blue, mircera, multigen, multigen folic, multigen plus, multilex-tm, multivitamin with fluoride, multivitamin with fluoride and iron, nascobal, nephplex rx, nephro-vite rx, nephrocaps, nephrocaps qt, nephron fa, niacin, nicazel, nicazel forte, nicomide, niva plus, nufola, omegaven, oysco 500 plus d, oyster shell calcium with d, phluorivit with iron, podiapn, poly-iron, poly-iron forte, poly-vi-sol, poly-vi-sol with iron, procrit, proferrin forte, pur-absorb, puralor ci, purevit dualfe plus, quflora, reguloid, rena-vite rx, renal caps, restora rx, retacrit, rocaltrol, se-tan plus, smoflipid, soliris, tab-a-vite, tandem, tandem f, tandem plus, thera-m, tl gard rx, tl icon, tl-hem, triferic, trigels-f forte, triphrocaps, vasculera, vayacog, venofer, virt-caps, virt-pn dha, virt-vite, virt-vite forte, virt-vite plus, virtprex, vitamin b complex, vitamin b12, vitamin b6, vitamin d2, vitamin d3, vol-care, vol-plus, vol-tab rx, vsl 3, vsl 3 ds, xuriden, zinc sulfate

Mental health: abilify, abilify mycite, acamprosate, adasuve, adderall, adderall xr, adzenys er, adzenys xr-odt, alprazolam, alprazolam er, amitriptyline, amoxapine, amphetamine salt combo, amphetamine salt combo xr, amphetamine sulfate, anafranil, antabuse, aplenzin, aptensio xr, aripiprazole, armodafinil, asendin, ativan, atomoxetine, bupropion, bupropion (Forfivo XL), bupropion sr, bupropion xl, buspirone, celexa, chlordiazepoxide, chlordiazepoxide/amitriptyline, chlorpromazine, citalopram, clomipramine, clonazepam, clonidine er, clorazepate, concerta, cotempla xr, cymbalta, daytrana, depakote, depakote er, deplin, desipramine, desoxyn, desvenlafaxine er, desvenlafaxine succinate er, dexedrine spansule, dexamethylphenidate, dexamethylphenidate er, dextroamphetamine, dextroamphetamine er, diazepam, disulfiram, divalproex, divalproex er, doxepin, duloxetine, dyanavel xr, effexor xr, emsam, equetro, escitalopram, evekeo, fetzima, fluoxetine, fluphenazine, fluvoxamine, fluvoxamine er, focalin, focalin xr, forfivo xl, geodon, guanfacine er, haldol, haloperidol, hydroxyzine hydrochloride, hydroxyzine pamoate, imipramine hydrochloride, imipramine pamoate, intuniv, kapvay, khedezla, klonopin, lamictal, lamotrigine, latuda, lexapro, lithium, lithium er, lithobid, lorazepam, luvox cr, maprotiline, marplan, meprobamate, metadate cd, metadate er, methamphetamine, methylin, methylphenidate, methylphenidate cd, methylphenidate er, methylphenidate la, methylphenidate sr, midazolam, mirtazapine, modafinil, mydayis, naltrexone, nardil, nefazodone, niravam, norpramin, nortriptyline, nuvigil, olanzapine, olanzapine/fluoxetine, oleptro, oxazepam, pamelor, parnate, paroxetine, paroxetine er, paxil, paxil cr, perphenazine/amitriptyline, pexeva, phenelzine, pristiq, procentra, prochlorperazine, protriptyline, provigil, prozac, quetiapine, quetiapine er, quillichew er, quillivant xr, remeron, revia, rexulti, risperdal, risperdal consta, risperdal m-tab, risperidone, ritalin, ritalin la, ritalin sr, saphris, seroquel, seroquel xr, sertraline, stavzor, strattera, surmontil, symbyax, tofranil, tofranil-pm, tranxene, transylcypromine, trazodone, trifluoperazine, trimipramine, trintellix, valium, vayarin, venlafaxine, venlafaxine er, viibryd, vistaril, vivactil, vivitrol, vraylar, vyvanse, wellbutrin, wellbutrin sr, wellbutrin xl, xanax, xanax xr, zenzedi, ziprasidone, zoloft, zyprexa, zyprexa zydis

Migraine: advil migraine, aimovig, ajovy, almotriptan, amerge, amitriptyline, axert, botox, cafergot, cambia, d.h.e. 45, depakote, depakote er, diclofenac potassium, dihydroergotamine mesylate, divalproex, divalproex er, eletriptan, emgality, ergomar, ergotamine/cafeine, excedrin migraine, frova, frovatriptan, imitrex, imitrex statdose, inderal la, isometheptene/dichloralphenazone/acetaminophen, maxalt, maxalt-mlt, migergot, migranal, naratriptan, nodolor, onzetra, propranolol, propranolol er, relpax, rizatriptan, stavzor, sumatriptan, sumatriptan statdose, sumatriptan/naproxen, topamax, topiramate, treximet, trokendi xr, zembrace, zolmitriptan, zomig, zomig zmt

Sleep: acetaminophen pm, adderall, advil pm, ambien, ambien cr, amphetamine salt combo, amphetamine sulfate, armodafinil, bellsomra, butisol, cafcit, caffeine citrate, dexedrine spansule, dextroamphetamine, dextroamphetamine er, diphenhydramine, dorsal, doxylamine, edluar, estazolam, eszopiclone, evekeo, excedrin pm, flurazepam, halcion, hetlioz, ibuprofen pm, intermezzo, lunesta, mapap pm, melatonin, metadate er, methylin, methylphenidate, methylphenidate sr, modafinil, motrin pm, nuvigil, nyquil, nyquil cough, pentobarbital,

procentra, provigil, quazepam, restoril, ritalin, ritalin sr, rozerem, seconal, silenor, sonata, temazepam, triazolam, tylenol cold nighttime, tylenol pm, unisom, xyrem, zaleplon, zenzedi, zolpidem, zolpidem er, zolpimist, zzzquil

Prenatal vitamin: *active ob, cavan alpha, cavan-ec sod dha, chromagen, citranatal 90 dha, citranatal assure, citranatal b-calm, citranatal dha, citranatal harmony, complete natal dha, complete-rf, concept dha, concept ob, corvite fe, duetdha balanced, elite ob with dha, enbrace hr, fabb, ferrogels forte, folbecal, folcaps care one, folcaps omega 3, folivane-f, folivane-ob, folivane-plus, folivane-prx dha, foltabs prenatal, foltabs prenatal plus dha, gesticare dha, marnatal f, natafort, natalvirt 90 dha, natalvirt ca, natalvirt flt, natelle one, neevo dha, nestabs, nestabs dha, nexa plus, nexa select, ob complete gold, ob complete one, ob complete petite, ob complete premier, paire ob plus dha, pnv dha, pnv dha plus docusate, pnv ob dha, pnv prenatal plus multivitamin, pnv select, pr natal, pr natal ec, preferaob, preferaob one, preferaob plus dha, prena1, prena1 chew, prena1 pearl, prena1 plus, prenaissance, prenaissance plus, prenaplus, prenatalabs fa, prenatalabs rx, prenatal 19, prenatal plus, prenatal plus iron, prenatal plus low iron, prenatal am, prenatal chewable, prenatal dha, prenatal elite, prenatal enhance, prenatal essential, prenatal mini, prenatal pixie, prenatal restore, prenatal star, prenexa, preplus, se-natal 19, se-natal one, se-tan dha, select-ob plus dha, taron forte, taron-bc, taron-c dha, taron-prex, triadvance, tristart dha, ultimatecare one nf, vemavite-prx 2, vinacal, vinate care, vinate gt, vinate ii, vinate m, vinate one, vinate pn care, vinate ultra, virt-pn plus, vitafof fe plus, vitafof nano, vitafof ob, vitafof ob plus dha, vitafof one, vitafof ultra, vitamedmd one rx, vitamedmd plus rx, vitapearl*

Women's health: *abraxane, activella, adrucil, afinitor, afinitor disperz, alkeran, alora, amabelz, anastrozole, android, androxy, arimidex, aromasin, aygestin, beyaz, bravelle, brisdelle, capecitabine, carboplatin, cenestin, cetrotide, cisplatin, climara, climara pro, clomid, clomiphene, combipatch, covaryx, crinone, cyclophosphamide, danazol, delestrogen, depo-estradiol, depo-subq provera, divigel, docefrez, docetaxel, doxil, doxorubicin, drospirenone/ethinyl estradiol/levomefolate, duavee, elestrin, ellence, endometrin, enjuvia, epirubicin, esterified estrogens/methyltestosterone, estrace, estradiol, estradiol valerate, estradiol/norethindrone, estrasorb, estring, estrogen, estropipate, evamist, evista, exemestane, fareston, faslodex, femara, femhrt, femring, femtrace, fluorouracil, follistim aq, fyavolv, ganirelix, gemcitabine, gemzar, gianvi, gonal-f, gonal-f rff, halaven, hcg, herceptin, hexalen, hycamtin, hydrea, hydroxyurea, ibrance, imvexxy, intrarosa, ixempra, jevantique lo, jinteli, kadcyla, kisqali, letrozole, loppreeza, loryna, lupaneta, lupron depot, lynparza, makena, medroxyprogesterone, megestrol, melphalan, menest, menopur, methitest, methotrexate, methyltestosterone, mimvey, minivelle, nerlynx, nikki, norethindrone acetate, novarel, ogen, orilissa, ospheha, ovidrel, paclitaxel, paroxetine, paroxetine er, paxil cr, perjeta, platinol, pregnyl, premarin, premphe, prempo, progesterone, prometrium, provera, rajani, raloxifene, repronex, rheumatex, rubraca, sarafem, selfemra, serophene, sertraline, soltamox, synarel, tamoxifen, taxotere, tepadina, testosterone enanthate, testred, topotecan, trexall, tykerb, vagifem, verzenio, vestura, vivelle-dot, xeloda, xgeva, yaz, yuvafem, zejula, zoladex, zoloff*