PHARMACEUTICAL PRICE CONTROLS:
A PRESCRIPTION FOR DISASTER

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Introduction

Throughout history, governments around the world have tried to control the prices of goods and services. These efforts have disrupted the marketplace and created shortages or excesses. But just like zombies, price controls keep rising from the dead because politicians seem to think they can create a better methodology. They never learn that price controls do not work and end up hurting the economy, consumers, and taxpayers.

The latest effort to control prices is focused on prescription drugs. Politicians in Washington, D.C., and around the country are calling for a variety of policies to control drug prices, such as restricting how much drug companies spend on research and development; capping out-of-pocket expenses; penalizing an “unjustified” price; allowing the importation of drugs from other countries; utilizing Medicaid-style rebates; and, allowing the secretary of the Department of Health and Human Services (HHS) to “negotiate” prices for Medicare Part D.

There have been efforts within Congress and state legislatures to enact “transparency” legislation to force pharmaceutical companies to release reams of proprietary information, such as the details of clinical trials and regulatory costs; manufacturing and administrative outlays; and acquisition, patent, and licensing costs in a supposed attempt to understand how drugs are priced.

It is understandable that patients, insurers, and politicians react passionately to high costs, but more competition, not price controls, will resolve this matter. The added benefit of competition is more research and innovation, which otherwise would be hampered with price controls.

In 2000, Citizens Against Government Waste released, Price Controls on Drugs: Hazardous to Your Health. At that time, President Bill Clinton was considering the creation of a prescription drug benefit for Medicare beneficiaries. Although his plan did not specifically call for price controls, the proposed pricing mechanisms would have yielded such a result.

For example, the Clinton plan would have allowed the Health Care Financing Administration (HCFA) [now the Centers for Medicare and Medicaid Services] to utilize only one pharmaceutical benefit manager (PBM), after a bidding process, for each of 15 defined geographic areas. HCFA could even have decided to utilize one PBM to oversee several regions, creating a monopsony, a situation in which one purchaser is so large it controls the price. Such a proposal, had it been implemented, would have stifled competition and limited access to some pharmaceuticals while giving more control to government bureaucrats. Fortunately, the Clinton proposal was not passed into law.

With the 2016 presidential election on the immediate horizon, drug prices remain a hot-button issue. Both former Secretary of State Hillary Clinton (D) and Donald Trump (R) have offered drug-pricing proposals. For example, former Secretary Clinton has called for controls on
pharmaceutical research and development and Medicaid rebates for low-income Medicare beneficiaries. Both candidates have called for the government to “negotiate” drug prices in Medicare Part D and allow importation of drugs from abroad.\(^2\)

Despite the implication that no price negotiations occur in Medicare Part D, it is not true. PBMs administer prescription drug plans and negotiate every day with pharmaceutical companies and pharmacies to find the best deal for the clients they serve: Medicare beneficiaries, the Federal Employee Health Benefits Program (FEHBP), insurers, unions, and companies that provide health plans for their employees. They use a variety of tools, such as mail order delivery; creating networks of more affordable pharmacies; encouraging the use of generic drugs; negotiating rebates from manufacturers; reducing waste; and counseling patients to take their medications in order to stay healthy and lower healthcare costs.\(^3\)

Medicare Part D was signed into law on December 8, 2003, and the Congressional Budget Office (CBO) predicted in 2005 that the benefit would cost the government $127 billion in 2012; however, its cost in that year was $55 billion.\(^4\) Compare that result to Medicare Parts A and B, which use government price controls to pay providers. In 1967, the House Ways and Means Committee predicted the entire Medicare program would cost taxpayers $12 billion in 1990; its cost that year was $98 billion.\(^5\)

Because of Medicare Part D’s “non-interference” clause, which prevents the HHS secretary from interfering in price negotiations among stakeholders, private-sector competition has kept premium costs low and beneficiary satisfaction high. Medicare Part D has often been cited as a model to restructure the entire Medicare program for future beneficiaries, as suggested in the House Republicans’ June 22, 2016 policy document, “A Better Way – Healthcare.”\(^6\)

Regarding importation, there are significant and serious pitfalls to purchasing drugs from other countries. While the Food and Drug Administration (FDA) does allow some importation of drugs for personal use in very special circumstances, the agency has long expressed anxiety about drug importation in general. Many drugs sold overseas have different formulations or, worse, the drugs could be adulterated and dangerous. The FDA website notes, “many drugs obtained from foreign sources that claim or appear to be the same as U.S.-approved drugs are, in fact, of unknown quality and may even be counterfeit. There is also a possibility that drugs coming to U.S. consumers through Canada, or that claim to be from Canada, may not actually be Canadian drugs. FDA cannot assure the authenticity, safety, or effectiveness of drugs from foreign countries.”\(^7\)

Some politicians argue drug importation is a trade or “free market” issue, but it is not. Importing another country’s drugs because the prices are lower is simply importing that country’s price controls. Furthermore, it is unlikely a research-based pharmaceutical company will ship more drugs to a foreign country, such as Canada, than its population needs. It is also unlikely that Canadian pharmacies will ship their supplies of drugs to U.S. markets without increasing prices. Even worse, allowing importation would encourage unscrupulous actors to
utilize counterfeit drugs made in third-world countries, camouflage them as Canadian
prescription drugs, and ship them to unsuspecting Americans.\(^8\)

**Price Controls: Always a Misguided Policy**

In their 1978 book, *Forty Centuries of Wage and Price Controls*, authors Robert Scheuttinger
and Eamonn Butler ably demonstrated that price controls are damaging, whether utilized in
2150 B.C. or 2016 A.D. From the Babylonian Code of Hammurabi, to President Nixon’s
Economic Stabilization Act, to rent control in San Francisco and New York, the authors laid out
how price controls interfered with the marketplace, caused shortages, and hurt the very
population they were intended to help.\(^9\)

Economist Gary North wrote in a May 1, 1974, article, “The Puritan Experiment with Price
Controls,” that although colonial leaders were trained in law and theology, most were farmers,
craftsmen, and artisans. The study of economics was a fledging discipline in England and,
therefore, when shortages occurred – perhaps because of a bad growing season or little
competition or a lack of craftsmen for a particular product or service – citizens complained of
price gouging and exploiters. The response to these circumstances was to employ “‘tried and
true’ medieval economic concepts.”\(^10\)

For example, in 1630, the colonial leaders of the Massachusetts Bay Company passed a law
that:

> established wage ceilings for carpenters, joiners, bricklayers, sawyers, and thatchers. Common laborers were limited to twelve shillings a day, or six if meat and drink were provided by the employer. Any artisan violating this statute was to be assessed a ten shilling fine. The effect of these wage ceilings must have presented itself almost immediately: an excess of demand for the services of artisans over the available supply. Under such conditions, it is always difficult to recruit labor. Within six months, these wage ceilings were repealed, leaving wages ‘free and at liberty as men shall reasonably agree.’\(^11\)

North pointed out that, even after this first failed attempt at price controls, similar restrictions
were adopted in subsequent years. In 1633, magistrates imposed a general profit margin of 33
percent on any imported good, but added a clause that warned citizens against violating the
“intent” of the law forbidding “excessive wages” and “unreasonable prices for such necessary
merchandise or other commodities as shall pass from man to man.” Those who violated the
intent of the law would be punished with fines or incarceration. The law gave enforcement
agents broad discretion to determine the meaning of “intent” and “excessive,” which led to “a
considerable degree of uncertainty in economic exchanges.” The law was repealed two years
later.\(^12\)

Finally, after even more attempts by colonial leaders to control prices, in 1650 there was a
relaxation of economic regulations. As trade grew, so did market transactions, and the
colonists benefitted from more competition, more specialized production, greater economic productivity, and lower prices.13

**Wage and Price Controls in the 1970s**

During the 1970s, inflation had taken its toll on the American economy due to prolific spending in the 1960s on massive new social programs and the Vietnam War. This led to high inflation and a weakening of the dollar, because the dollar was fixed to a specific amount of gold and other countries’ exchange rates were tied to it. The pressure on the dollar became unbearable in mid-1971, and President Nixon abandoned the gold exchange standard.14 As inflation rose, President Nixon made a fateful decision. Under the authority of the Economic Stabilization Act of 1970, he issued Executive Order 11615 on August 15, 1971, to “stabilize prices, rents, wages, and salaries in order to improve our competitive position in world trade and to protect the purchasing power of the dollar.”15

Although the executive order was only supposed to last for 90 days, several iterations were implemented: Phases Two, Three, and Four. After Phase Four was executed on August 12, 1973, Secretary of the Treasury George Schultz announced that the goal of the administration was to reduce inflation to 3 percent per year or less. Phase Four lasted nine months and, during that time, the Wholesale Price Index (WPI) went up by 18.3 percent and the Consumer Price Index (CPI) went up at an annual rate of 11.4 percent.16

From August 15, 1971 to April 30, 1974, the entire length of the Nixon price controls, the WPI and CPI increased at annual rates of 12.0 and 7.2 percent, respectively. In the 12 months before price controls were implemented, the WPI and CPI had annual rate increases of 3.3 and 4.3 percent, respectively.17

Perhaps the most striking impact of Nixon’s decision was the evasive action that followed in numerous industries. For example, with price controls in place on conventional cuts of beef, grocers invented new cuts of beef, such as the “watermelon roast,” which did not fall under price controls. Lumber producers took advantage of a loophole for imported lumber, which was exempt from price controls. They simply exported lumber to Canada and then imported it back into the United States. Another loophole was created for “customized” work. Enterprising contractors drilled holes in plywood, then filled the holes back up again to create a customized product.18

While some evasive maneuvers were clever and successful, others were almost tragic. Cattle were withheld from the market, driving up the cost of beef; baby chickens were drowned; and, food shelves were sparsely stocked.19

Other, perhaps more memorable examples of price controls, were the gas shortages of the 1970s. Because price controls lead to distortions in the marketplace, the government’s regulatory systems often promulgate layers of complex rules to address the irrational behavior resulting from them. Although domestic oil prices were under a price control regime, the cost
of foreign oil had been left free to rise and fall based upon market conditions. Because refiners had access to domestic and foreign oil in different proportions, the Nixon administration sought to equalize their costs. Thus, its Cost of Living Council created a two-tier pricing system to equalize the price of all petroleum products from refiners. Prices for foreign oil and domestic oil from “new” wells were allowed to rise while oil from “old” domestic wells were controlled. This intervention in the conservation and allocation of oil supplies caused Americans in various regions of the country to line up for hours to get access to gasoline.\(^{20}\)

Another adverse impact of price controls was a greater reliance on imported oil. In October 1973, when the OPEC nations announced an oil embargo to countries that had given assistance to Israel during the Yom Kippur War, gas shortages, price gouging, and long lines at the pumps became even more pervasive.\(^{21}\) Drivers looked for green flags outside service stations, which signaled gas was available; license plate numbers determined what day consumers could buy gas.

Most price controls ended by April 1974, but the control of oil prices was transferred to the Federal Energy Office. Instead of getting rid of price controls, Congress decided to “punish” oil companies in 1976 for continued high prices and extended price controls indefinitely. The price controls further discouraged domestic production of oil and encouraged even greater reliance on foreign oil that often came from unstable parts of the world.\(^{22}\)

With energy costs still high and an increased reliance on foreign oil, President Carter asked Congress to turn the Federal Energy Office into the U.S. Department of Energy. His administration then increased the fuel efficiency mandates created under the Nixon administration, pumped billions of tax dollars into alternative energy, and required energy savings standards on home appliances. Millions of dollars were wasted on projects that were not economically sound, such as coal gasification. The end result was that oil consumption rose from less than 15 million barrels a day in 1970 to more than 18 million barrels a day in 1979.\(^{23}\)

The 1979 Iranian oil crisis, caused by the Iranian Revolution, suppressed output and pushed gas prices higher. Panic ensued and lines began to form at gasoline pumps. In an effort to make more fuel available, Carter began to dismantle the price controls on oil and gasoline. Prices quickly rose and businesses passed along their costs, which helped to create sky-high inflation; and unions demanded large cost-of-living increases. The Federal Reserve, reacting to the crisis, increased interest rates, which plunged the nation into a recession.\(^{24}\)

When President Reagan entered the White House, one of the first actions he took was to remove the oil price controls and abolish approximately 200 energy regulations. Over time, consumption and oil prices fell in real terms as domestic oil production increased for the first time in 10 years. The free market did more to control the price and improve access than any government program.\(^{25}\)

The price controls of the Nixon era had a broad array of odd, distorted, and unintended effects, which the president realized far too late. Nixon said:
What did America reap from its brief fling with economic controls? The August 15, 1971, decision to impose them was politically necessary and immensely popular in the short run. But in the long run I believe that it was wrong. The piper must always be paid, and there was an unquestionably high price for tampering with the orthodox economic mechanisms.26

**Price Controls for Insurers Has Not Worked**

President Obama promised lower costs and greater accessibility if the Patient Protection and Affordable Care Act (ACA), or Obamacare, became law. The opposite has happened. While the federal government has engineered insurance premiums and insurers’ profits, promising less strain on everyone’s wallets, in reality Americans are experiencing higher premiums, skyrocketing deductibles, and large out-of-pocket costs. On October 24, 2016, HHS announced that the average premium increase for the benchmark Obamacare plan would be 25 percent.27

Under free-market conditions, younger people would pay less for health insurance because they tend to be healthier and utilize fewer services compared to those in their late sixties. Prior to Obamacare, some form of community rating was mandated in 18 states to spread risk across the community and people paid the same rates no matter their health status or factors such as age or gender. In the states that used community rating, insurance premium costs were higher.28 Under ACA’s adjusted community rating, insurers can adjust insurance premiums based on only four factors: individual or family enrollment; geographic area; age; and, tobacco use. With respect to age, the law will not allow insurers to charge an older adult more than three times the rate charged a younger person.

This policy has driven up health insurance premiums for younger, healthy people, particularly those between the ages of 18 and 30, to the point they would rather pay a fine than purchase insurance. According to March 2016 data from the Centers for Disease Control and Prevention’s National Center for Health Statistics, approximately 16 percent of Americans aged 25 to 34 do not have health insurance and 14 percent of those between the ages of 35 to 44 are also without coverage.29 Yet, these are the very participants Obamacare needs in order to stabilize the marketplaces. Younger purchasers know a bad deal when they see it and are rejecting the high premiums and deductibles.

In addition, the four compulsory cost-sharing metallic plans, Platinum, Gold, Silver, and Bronze, dictate actuarial value costs. Under a Platinum Plan, the insurer is required to cover about 90 percent of healthcare costs; under Gold about 80 percent; under Silver about 70 percent; and, under Bronze about 60 percent. In each case, consumers pick up the rest of the costs, which can vary depending on whether they qualify for government subsidies.

Obamacare controls the amount an insurer spends from premium dollars on claims, administration, and profits, known as the medical loss ratio (MLR). The law requires health insurers that cover individuals and small businesses to spend 80 percent of premium funds on covering healthcare claims and 20 percent on administration. For insurers covering large group
plans, the MLR is 85 percent. If insurers fail to meet their MLR benchmark, they must pay a rebate to their customers. For 2015, the average rebate amount was approximately $129 per family, or less than $11 per month.\textsuperscript{30}

An insurer’s revenue will vary from year to year, depending on the number of patients and cost of claims. America’s Health Insurance Plans (AHIP), the national association representing the health insurance industry, cautioned in 2012 that administrative costs are not driving healthcare costs and capping them would make it more difficult to improve care. Items such as deterring fraud, credentialing in-network providers to make sure they provide quality care, and providing patients with online and mobile access to claims histories are considered administrative costs and, therefore, fall into the 20 percent side of the ledger. The industry argues that capping these types of improvements would hurt healthcare delivery.\textsuperscript{31}

\textbf{Price Controls for Drugs Will Not Work Either}

In spite of all the evidence that price controls do not work at any time or for any purpose, politicians and advocacy groups are still clamoring to place them on pharmaceuticals.

Proponents have been spreading false narratives that there is no regulation in drug pricing and somehow pharmaceutical companies have free rein to do whatever they want, or that Obamacare left the pharmaceutical industry unscathed.\textsuperscript{32} To the contrary, U.S. pharmaceutical companies have been dealing for years with a variety of price control measures, such as Medicaid rebates and the 340B discount program, which were intensified under Obamacare. These price control measures, among others, have distorted the market, shifted costs, and stifled innovation.

\textbf{Medicaid Rebates}

In 1990, congressional hearings were held on prescription drug pricing for Medicaid. Focus was placed on the lower-than-average prices the Department of Veterans Affairs (VA) had obtained since World War II from some drug companies. Members of Congress, led by Sen. David Pryor (D-Ark.), chairman of the Special Committee on Aging and a member of the Senate Finance Committee, queried witnesses as to why similar prices were not provided to state Medicaid drug programs. At that time, coverage of prescription drugs was an optional Medicaid service provided by all states and the District of Columbia with a federal upper payment limit\textsuperscript{33} and there was no requirement that manufacturers sell drugs through the Federal Supply Schedule (FSS) or VA depots at discounted prices.\textsuperscript{34}

New Medicaid pricing bills were introduced which proffered several policy options, such as restrictive formularies and a requirement that drug manufacturers provide rebates to the state Medicaid programs based on best price and average manufacturer price (AMP). During these hearings, there were warnings that implementing price controls would be counterproductive.

For example, during a September 14, 1990, House Energy and Commerce Committee hearing, a discussion ensued about how and why some pharmaceutical companies had given the VA
discounts of between 41 and 67 percent off the average wholesale price for single-source drugs and 39 to 93 percent for multi-source drugs. The witness replied that, although some pharmaceutical companies’ prices to the VA were close to their commercial prices, others companies had given sizable discounts because the VA represented only 1 to 2 percent of the total U.S market. The witness characterized the lower prices as an “historical anomaly that has evolved from World War II efforts to bolster the government’s access to needed medicines.” However, he cautioned, if these lower prices were utilized to determine the best price available to calculate Medicaid discounts, the hefty discount would affect a larger percentage of total sales, as much as 15 percent. Offering such a discount would no longer be “commercially reasonable for a broader sector of the market.” Discounts at this scale could not be absorbed by many companies, thus forcing cuts to research and development, layoffs, and/or price increases.

In a September 17, 1990, Senate Finance Subcommittee on Health for Families and the Uninsured hearing on Medicaid prescription drug pricing, then-HCFA Administrator Dr. Gail Wilensky said, “My concern about the explicit way of ensuring that you keep the best price over time is that it sounds an awful lot like a price control to me.”

Sen. Orrin Hatch (R-Utah) testified against the Medicaid rebate legislation, saying that the states were already “doing a terrific job” of negotiating prices and should be allowed to continue to do so because, in some cases, they received lower prices than those created in the bills. Hatch stated, “I believe this type of legislation is either going to cause prices to go even higher in the final result or most importantly it is going to stifle innovation.”

In the same hearing, Sen. John Chafee (R-R.I.) remarked that he understood how a drug company could have had a long and almost philanthropic relationship with the VA, or perhaps a charitable healthcare institution that served the indigent, since they only made up a small percentage of their total sales. He went on to say that if all “future sales to the Medicaid program, for example, would have to be tied to that lowest price, one of the actions I suppose might be you wouldn’t sell it at the lowest price to that entity anymore. So we might be shooting ourselves in the foot.”

Congress ignored the warnings and passed the Medicaid rebate legislation as part of the Omnibus Budget Reconciliation Act, which was signed into law by President George H. W. Bush on November 5, 1990. The law required a manufacturer entering into a Medicaid outpatient drug rebate agreement to provide a rebate for a covered single-source or innovator multiple source drug in an amount equal to the lower of 12.5 percent of the average manufacture price (AMP) until December 31, 1992, and 15 percent of the AMP thereafter, or the difference between the AMP and the “best price” for the drug. The best price was “defined as the lowest price charged to any wholesaler, retailer, nonprofit entity, or governmental entity in the United States, excluding depot prices or single award contract prices to a government agency, to a maximum discount of 50 percent of the AMP.”
Sen. Chafee’s warning was prescient. The substantial discounts to the VA and other healthcare entities ended. Many companies that had given steep price reductions to the VA could not absorb the costs of the rebates based on an expanded “best price” without harming their businesses.

Another way to think of this result is as follows: suppose a grocer decided to give returning veterans and their families a 40 percent discount on certain groceries. Since veterans’ families represented only 1 percent of the grocer’s total business, the cost could be absorbed. Suddenly, the grocer’s state legislature declares that, if this price were offered to veterans, the same price must be offered to other deserving customers. Now the population receiving the lower price makes up 10 to 15 percent of the grocer’s total sales. The only ways the grocer could prevent such a hit to the business’s bottom line is to stop providing discounts to veterans or to raise costs and cut workers.

It wasn’t long before the results of this faulty legislation became evident. Drug prices to the VA increased but, rather than blame the law they had passed and their misunderstanding of economics, members of Congress were at it again within a year, trying to “fix” the problem they had created in the marketplace. Several bills, debated in both the House and Senate, were merged into a compromise bill, the Veterans Health Care Act of 1992 (P.L. 102-585), which was signed into law on November 4, 1992. The law created two new price-controlled systems, the VA Federal Ceiling Price (FCP) Program and the 340B drug discount program. The law also excluded these drug prices from the Medicaid rebate calculus.40

**The VA FCP Program**

Although many will claim the VA “negotiates” drug prices, it does not; the prices charged to the VA are based on statutorily mandated prices and discounts. The Veterans Health Care Act requires pharmaceutical manufacturers to list covered drugs on the FSS and that their prices be no greater than 76 percent of the non-Federal Average Manufacturer Price (non-FAMP), minus any additional discounts as determined each year. This cap on pricing applies to purchases made by the VA, the Department of Defense, the Public Health Service (including the Indian Health Service), and the Coast Guard, which are often called the “Big Four.” If a manufacturer does not comply with P.L. 102-585, it cannot sell drugs to any of the Big Four and Medicaid.41

The VA also uses other price-controlled formulas. For example, under the FSS, the prices are the lowest prices that manufacturers charge their most-favored customers. Sometimes these prices are lower than the FCP. Greater discounts can be obtained under blanket purchasing or performance-based incentive agreements for an additional discount of between 5 to 15 percent of the FSS price. The VA chooses the mechanism that provides the lowest price on a case-by-case basis.42

However, the VA’s price-controlled drugs and strict formulary result in fewer choices for veterans compared to those received by Medicare Part D beneficiaries and federal government employees through the FEHBP. The VA is a closed system run by government employees;
however, the federal government acts as an administrator in Medicare Part D and FEHBP, in both of which private healthcare plans compete with one another and provide the benefits.

An October 2013 Lewin Group study compared the VA national formulary with the two highest-enrollment plans in the Medicare Part D and FEHBP drug plans. The study found that Medicare Part D and FEHBP drug plans provided “greater breadth of drug coverage than the VA formulary.” For example, only 78 percent of the 274 most-prescribed drugs in the U.S. are in the VA formulary. However, the two most popular Medicare Part D plans covered 97 and 95 percent of the drugs, respectively. FEHBP covered 91 percent of the 274 drugs. In addition, the two highest enrollment Part D plans and FEHBP did not impose prior authorization, step therapy (starting with the less expensive therapy and proceeding to a newer, riskier, or costlier drug if the first did not work as hoped), or quantity limit requirements on the majority of the 274 drugs.  

The 340B Drug Discount Program

The VA was not the only organization that received special discounts from pharmaceutical companies prior to the 1990 Medicaid rebate legislation. Some federally-funded clinics and hospitals that served large numbers of low-income and uninsured patients also received large discounts and donations from pharmaceutical companies. Since the Medicaid rebate law required these discounted prices to be included in the overall rebate calculus, the recipients saw their generous discounts or free medications disappear as well.

The 1992 VA legislation attempted to correct the problem by establishing a new provision in the Public Health Service Act (PHS), Sec. 340B, which required drug companies to give certain “covered entities” the same discounts as those given to Medicaid. These entities included such federally-funded facilities as community health centers, black lung clinics, tuberculosis clinics, and hemophilia treatment centers. Also included were certain disproportionate share hospitals (DSH), which are hospitals that receive extra government funding depending on the number of low-income Medicare and Medicaid patients they treat, as well as uninsured indigent patients.

Congress intended that the savings from the discounted drugs would allow the covered “entities to stretch scarce Federal resources as far as possible, reaching more eligible patients and providing more comprehensive services.” However, because the law did not require covered entities to pass along drug savings to their patients and the definition of a 340B patient has been broadly interpreted, the program has been used by hospitals and pharmacies primarily as a profit-making scheme.

The 340B program has been particularly detrimental in the field of cancer care. Due to the lack of a clear definition of 340B-eligible patients, such as whether they have insurance or the ability to pay, 340B hospitals have utilized the program as a way to generate revenue. By purchasing oncology physician offices, the 340B hospitals can administer their heavily discounted cancer drugs to newly-acquired insured outpatients, accept their co-pays, and charge insurers the full
reimbursable price, pocketing the difference. As a result, the locations where patients receive chemotherapy infusion has dramatically shifted from lower-cost physician offices to higher-cost hospital outpatient settings.  

Furthermore, a June 2015 Government Accountability Office (GAO) report found “per-beneficiary Medicare Part B drug spending, including oncology drug spending, was substantially higher at DSH 340B hospitals than at non-340B hospitals.” According to the GAO, these findings indicate that, on average, “beneficiaries at 340B DSH hospitals were either prescribed more drugs or more expensive drugs, than beneficiaries at the other hospitals.” The differences appeared not to be due to a hospital’s characteristics or patients’ health status. Instead, the GAO believes the drug discount program provides “a financial incentive at hospitals participating in the 340B program to prescribe more drugs or more expensive drugs to Medicare beneficiaries.”

The ACA has made the market distortions caused by these programs worse by increasing the Medicaid rebate amount from 15.1 percent to as much as 23.1 percent for brand-name drugs and from 11 percent to 13 percent of the AMP for generic drugs. The ACA also expanded the types of covered entities that can participate in the 340B discount program. In addition, in 2010, the Health Resources and Services Administration (HRSA), the agency that oversees the 340B program, allowed covered entities to use a limitless number of contract pharmacies to fill patients’ prescriptions, even though the statute does not permit the agency to do so.

Price control measures such as Medicaid rebates, the 340B program, and the VA pricing structures have distorted the pharmaceutical market and caused price shifting. In a November 4, 2010, letter to then-House Budget Committee Ranking Member Paul Ryan (R-Wisc.), the CBO confirmed that Obamacare’s increased Medicaid discounts and mandated new Medicare Part D discounts in the cover gap (more commonly referred to as the “donut hole” between the end of initial coverage and the start of catastrophic coverage), would likely cause manufacturers to raise prices to offset the costs of new discounts.

Markets respond to pricing pressure as if it were an inflated balloon: push down on one side and the other expands. It should come as no surprise that some drug costs are being shifted to the private sector because of government price controls.

**Speed Up the Drug Approval Process**

The best way to lower consumer prices for pharmaceuticals is to encourage a vibrant, competitive marketplace, not overlay more government intervention in drug pricing. Using modern scientific methods and improving performance at the FDA would enable research-based and generic pharmaceuticals to enter the marketplace faster.

It takes between 10 and 12 years to collect the clinical data necessary to submit a New Drug Application (NDA) before receiving FDA approval, at an average cost of $2.6 billion per approved compound. Generic drug manufacturers also face expensive roadblocks. In June
2015, there was a backlog of more than 4,000 Abbreviated New Drug Approvals (ANDAs), the process generic drug manufacturers undertake to get their products to the marketplace.\textsuperscript{52}

Research-based and generic companies pay user fees to get their drugs approved in a timely manner. Congress passed the Prescription Drug User Fee Act (PDUFA 1) in 1992 after hearing from constituents that the FDA approval process took too long and was far slower than in many European countries, particularly with AIDS/HIV drugs. The law allowed the FDA to collect user fees from drug manufacturers to fund the approval process for a new drug. In exchange for the funding, the FDA must meet certain performance targets.

A similar user fee law for the generic drug industry, the Generic Drug User Fee Amendments (GDUFA), was signed into law in 2012. Both user fee laws need to be reauthorized every five years.

In 2017, the cost for a research-based drug company to submit an NDA with clinical data will be $2,038,100 and a generic firm will pay $70,480 for an ANDA. Companies also pay many other charges, such as establishment and supplement fees, to get their drugs approved.\textsuperscript{53}

PDUFA stakeholders are generally pleased with the user fee law, under which the FDA review process has become faster and more efficient. On March 29, 2016, the California Life Sciences Association and the Boston Consulting Group released an analysis which demonstrates that FDA review times have dropped from an average of 21 months in 2009 to 10 months in 2015. The fastest reviews have occurred with oncology, infectious diseases, and rare disease drugs.\textsuperscript{54}

On July 15, 2016, the Pharmaceutical Research and Manufacturers of America (PhRMA) announced its agreement with the FDA on the sixth iteration of PDUFA. Congress will take up PDUFA for reauthorization in 2017. PhRMA stated, “For nearly 25 years, PDUFA has helped bring innovative medicines to patients by providing greater consistency, certainty and predictability in the U.S. drug review process. The PDUFA VI agreement is an important step forward in ensuring patient safety, maintaining the FDA’s high standards of regulatory review and promoting timely access to safe and effective medicines for patients.”\textsuperscript{55}

On the other hand, generic firms have been more critical of GDUFA’s implementation. The law’s three main goals were to ensure safety, access, and transparency. By December 2014, the FDA had hired almost 1,000 new employees, a year ahead of schedule according to Center for Drug Evaluation and Research Director Janet Woodcock. She stated that the new hires would help approve most ANDAs within 10 months.\textsuperscript{56}

In a January 28, 2016, press release, Generic Pharmaceutical Association (GPhA) Senior Vice President for Regulatory and Scientific Affairs David Gaugh noted:

\begin{quote}
In 2011 when GDUFA [negotiations] began, median review time to approval was at 30 months. Since then, median review times increased to 31 months in FY2012, 36 months in FY2013 and an estimated 42 months in FY2014. At the industry’s best estimate,
\end{quote}
current fiscal year median approval times will be 48 months – the slowest it has ever been.

Too many generic drug applications including potential first generics have been sitting with the Agency for many years before being picked up by a reviewer. These delays contribute significantly to rising health care costs and impact access to pharmaceuticals for millions of patients.57

Mr. Gaugh went on to say that, while the FDA had expressed concerns about the quality of the applications, the agency “has not defined or provided data on what constitutes ‘quality’ or completeness of generic applications.” In addition, because so many ANDAs have languished at the agency with no action, Gaugh noted that the agency “continues to deem applications submitted three to four years ago to be of ‘poor quality’ because they don’t meet new, more recent standards updated while these applications sit in the backlog.”58

GDUFA required the FDA to review and take regulatory action on 90 percent of the ANDA backlog by September 2017. The agency recently claimed it had met that goal a year ahead of time. But that does not mean consumers can expect a flood of generic drugs to enter the marketplace. According to the Regulatory Affairs Professionals Society, the FDA continues to seek more information from companies or require them to fix easily correctable deficiencies for the vast majority of ANDAs. In fact, by July 2016, the FDA rejected far more ANDAs than it approved.59 In other words, most of the action taken by the FDA was to return the majority of ANDAs to the manufacturers for more information or corrections. According to the GPhA, the current backlog at the FDA stands at more than 3,100.60

In an August 31, 2016, press release, GPhA noted that the FDA and the industry had reached agreement on a package of program enhancements and resource commitments to reauthorize GDUFA in 2017. Key provisions include addressing the ANDA backlog; providing priority, as opposed to standard review, for generic drugs where there is no competition; FDA performance reporting; and, enhanced communications between the agency and manufacturers.61

Only time will tell if the FDA lives up to expectations and approves generics in a timely way. It will be up to Congress to hold the FDA’s feet to the fire to make sure these goals are met.

**New Actions to Speed Up Approvals and Enhance Competition**

While user fees have sped up the drug approval process, at least in regard to the NDAs, they are certainly not a panacea. A 2014 Manhattan Institute study entitled, “An FDA Report Card: Wide Variance in Performance Found Among Agency’s Drug Review Revisions” found that some divisions within FDA’s Center for Drug Evaluation and Research (CDER) have a better performance record than others.62

For example, the Oncology and Antivirals divisions approve drugs roughly two times faster than the CDER average and three times as fast as the least efficient drug-review divisions. The authors of the study “estimate that a modest narrowing of the CDER divisional productivity gap
would reduce drug costs by nearly $900 million annually.” More importantly, the value of the benefit to patients “would be far greater if the agency could accelerate access to an additional generation of (about 25) drugs every year. Greater agency efficiency would be worth about $4 trillion annually in value to patients, from enhanced U.S. life expectancy.”

The report called for the FDA to determine what is working in its high-performing drug divisions and promote the adoption of these best practices throughout the rest of the agency to improve efficiency and expedite drug approvals, and to brief Congress on a regular basis on their quality improvement efforts. The report also called for more FDA transparency, such as continual self-examination of approval delays and denials in order to address what caused these actions, or even an inaction. When the agency does not have in-house expertise to review complex new technologies, it should augment FDA staff by utilizing personnel from other trusted organizations, such as the National Institutes of Health, the Critical Path Institute, or the Reagan-Udall Foundation.

The report noted that the FDA must be prepared for innovations in medical science and the development of new therapies, such as personalized medicine, in which a drug will be developed based on an individual’s genome. New thinking and new methods will be required to approve these drugs because for many years pharmaceutical research and development was one-size-fits-all. Thousands of people were tested in clinical trials to obtain evidence that the drug benefited more people than it did not. With the new technologies that utilize the human genome, researchers will be able to quickly discover which drugs will work best on particular individuals.

For example, Vioxx was a very popular drug to treat arthritis and provide pain relief, but it was withdrawn from the market in 2004 when a study showed it had caused heart attacks and sudden cardiac deaths for thousands of people. Vioxx’s earliest critic had argued that “genetic testing could identify and exclude from the patient population the minority of people at risk from serious side effects, and thus that Vioxx would be a useful drug to have on the market.”

Biotechnology and the mapping of the human genome allows researchers and doctors to fight diseases at the molecular level. Government policy must not lag behind these pioneering treatments. Certain research tools and methods, such as biomarkers and surrogate endpoints, will help to speed up clinical trials and the drug approval process, thus improving patient access to life-saving pharmaceuticals. In addition, patient experience data and allowing more patients in clinical trials should become part of the regulatory approval process. These ideas and others are addressed in H.R. 6, the “21st Century Cures Act,” a bill that passed the House of Representatives in July 2015, but is still under consideration in the Senate.

A biomarker is described by the FDA as a “defined characteristic that is measured as an indicator of normal biological processes, pathogenic processes, or responses to an exposure or intervention, including therapeutic interventions.” A surrogate endpoint is a type of biomarker.
used in clinical trials as a “substitute for a direct measure of how a patient feels, functions or survives.”

A biomarker may be as commonplace as monitoring blood pressure when evaluating a patient’s response to an antihypertensive drug; or more complex and genetically-based, such as a gene mutation that determines a patient’s risk for breast cancer, or one that causes a particular kind of leukemia that can be targeted and eliminated by a powerful drug, sparing healthy cells in the process. A surrogate endpoint, such as the reduction in size of a tumor, can be used by the FDA to quickly approve a new cancer drug rather than waiting several years to determine a survival rate.

A January 2015, House Energy and Commerce Committee whitepaper entitled the “21st Century Cures Discussion” noted that the FDA already has broad authority to use biomarkers and surrogate endpoints and has done so to expedite drug approvals for life-threatening diseases. By codifying their use and requiring the FDA to issue guidance to assist with the development and identification of more biomarkers and surrogate endpoints, as well as providing for collaboration outside the agency, biomarkers and surrogate endpoints could be used to enhance drug development and speed up even more approvals.

H.R. 6 also brings patients into the drug approval process because “no one understands a particular condition or disease better than patients living with it.” The bill would establish a framework to collect meaningful patient experience data, such as an assessment of desired benefits and tolerable risks, and incorporate them into the regulatory approval process. It would also allow a more open process so that additional patients could learn about and possibly participate in investigation of drugs going through clinical trials.

Many provisions in H.R. 6 are contained in PDUFA 6, which is scheduled for reauthorization in 2017.

Additional bills such as H.R. 3012, “The Right to Try Act,” introduced in July 2015, and S. 2912, “The Trickett Windler Right to Try Act,” introduced in May 2016, could provide greater access to life-saving drugs for patients with terminal diseases. The bills would prevent the government from restricting access to an investigational new drug that has completed Phase 1 clinical trials for safety, but has not yet been approved by the FDA.

State governments across the country are not waiting for Congress and have implemented right-to-try laws to allow terminally ill patients access to investigational drugs. According to the Goldwater Institute, which is leading the charge on right-to-try laws, the FDA grants compassionate use exceptions for approximately 1,000 patients a year. The right-to-try laws are attempting to expand that number. So far, 32 states have right-to-try laws in place.

There are also calls for reciprocity of regulatory approvals between the U.S. and a select group of countries. Sens. Ted Cruz (R-Texas) and Mike Lee (R-Utah) have introduced S. 2388, the Reciprocity Ensures Streamlined Use of Lifesaving Treatments (RESULT) Act, which would
amend the Food, Drug, and Cosmetic Act. The legislation would require the FDA to approve a drug application from a sponsor within 30 days if the drug were already approved and sold in certain developed and trustworthy countries, including Australia, Canada, the European Union (EU), Israel, and Japan.

If a promising application for a life-saving drug is declined by the FDA, Congress can override the FDA decision by a majority vote on a joint resolution. According to Sens. Cruz and Lee, the legislation would allow Americans suffering from chronic and life-threatening conditions to access drugs which are already saving lives in developed countries but are not yet approved in the U.S. 71

S. 2388 has both critics and fans. In a December 11, 2015, Regulatory Affairs Professionals Society article, Larry Stevens, a former FDA official and consultant with the Massachusetts-based FDA Group, was quoted as saying while the bill “sounds good,” reciprocity will not work because “no developed country has the expertise to review a product like the FDA does” and that, if Congress should override an FDA decision, it would be responsible for the drug’s safety. 72

Likewise, Washington University Associate Professor Rachel Sachs noted in a December 12, 2015, Harvard University Bill of Health blog that a majority of new drugs are approved in the U.S. first and the “FDA consistently has the speediest review times of the major drug regulatory agencies.” 73

But Hoover Institution Senior Fellow Henry Miller, M.D., a former FDA drug reviewer and founding director of the FDA Office of Biotechnology, believes reciprocity is an antidote for escalating drug prices. He cites the drug pirfenidone, which is used to treat a pulmonary disorder called idiopathic pulmonary fibrosis, a disease which kills thousands of Americans annually, as an example of FDA’s lassitude and hyper-cautiousness. The drug was approved in Japan in 2008, in Europe in 2011, and in Canada in 2012. An FDA advisory committee recommended approval in 2010, but the FDA requested another major clinical study. The FDA approved the drug in October 2014. More than 150,000 patients died between 2010 and 2014. 74

In a February 14, 2014, Health Affairs blog, “If a Drug is Good Enough for Europeans, It’s Good Enough for Us,” Manhattan Institute Center for Medical Process Director Paul Howard expressed his support for reciprocity. He cited a deadly bacterial meningitis outbreak (serogroup B) at Princeton University in 2013. Meningitis is an acute inflammation of the protective membranes of the brain and spinal cord, which is caused by a virus, bacteria, or other microorganisms. The mortality rate for bacterial meningitis in the U.S. is 10 percent. Although a vaccine named Bexsero was approved in the EU for this particular strain of meningitis, it was not available in the U.S. because it was still in clinical trials. Nonetheless, Princeton received permission from the FDA to obtain Bexsero and vaccinated students and faculty within nine months of the outbreak. 75 The FDA approved the drug in January 2015.
Howard argued that, because the EU and the U.S. share many commonly used drugs, there is a “net loss for society by requiring manufacturers to essentially jump through the same hoops over and over, expending more R&D dollars and human resources running multiple trials of the same medicine for different regulatory jurisdictions.” Howard wrote that while the FDA and the European Medicines Agency (EMA) “engage in high level discussion and collaboration, true reciprocity of approvals has never really been on the table. Why? Regulators may fear losing clout, and application review fees – about $672 million in 2012 – that come with submitting new drug approvals to the FDA. After all, if access to the large and lucrative U.S. market could be obtained by going to the EMA rather than the FDA, there might be a mass exodus of drug applications to the E.U.” Howard believes, instead of a “race to the bottom,” that “international regulatory competition would mainly benefit consumers who would gain faster access to new medicines, and (potentially) lower prices if development costs and times fell as well. Most importantly, it would save lives.”

The Cruz-Lee bill, or provisions within the bill, certainly could gain more support if the reauthorized user fees do not produce the expected results, the approval process at the FDA slows down, and the reforms found in the 21st Century Cures Act do not come to fruition.

Conclusion

Competition and market forces, not price controls, will drive down drug costs and will do so better than any heavy-handed legislation or regulation. In early 2014, reactions to drug prices reached a fever pitch after Gilead announced its $84,000 list price tag for a 12-week course of the hepatitis C drug Sovaldi and reached a crescendo when Turing Pharmaceuticals, led by former hedge fund manager Martin Shkreli, raised the price of its drug Daraprim from $13.50 a tablet to $750 in September 2015.

Prices for Gilead’s hepatitis C drug began to drop when AbbVie began to market its hepatitis C drug Viekira Pak in early 2015. In January 2016, the FDA approved Merck’s hepatitis C drug Zepatier; it was priced approximately 35 percent below Gilead’s price. In addition, drug companies, PBMs, and other healthcare providers negotiate lower pricing agreements based on volume and other factors, such as formulary placement.

Unfortunately, there is little discussion about the other side of the ledger: how much the hepatitis C drugs save in future medical costs by curing people of a chronic disease and keeping them out of the hospital, making liver transplants unnecessary, and allowing patients to become productive citizens. A September 26, 2016, Inside Health Policy article noted usage of hepatitis drugs dropped by 40 percent among Medicaid patients in 2015. While the introduction of AbbVie’s drug in early 2015 brought down costs, usage apparently fell due to the Gilead drug’s 90 percent cure rate. Patients who took Gilead’s drug in 2014 were cured and did not need to continue to take the drug in 2015. Since AbbVie’s hepatitis cure rate is between 97 and 100 percent, it is likely this trend will continue.
Although retail drug spending was 9.8 percent of total national health expenditures in 2014, politicians are still agitating to implement government price controls.\textsuperscript{81} Yet it has been proven through the centuries that price controls do not work. They distort the marketplace, cause shortages, and hurt the very people they were intended to help. Former Democratic National Committee Chairman Howard Dean, M.D., a 2014 Democratic presidential candidate, agrees that price controls are harmful. In a September 18, 2015, \textit{New York Times} Letter to the Editor he wrote, “The American drug industry is by far the most successful and innovative in the world in addition to being the most expensive because we are the only country that pays the true research and development costs, not only for Americans, but for the rest of the world as well.”\textsuperscript{82}

Dean rejected the notion that negotiations do not occur in Medicare Part D because PBMs, HMOs, and insurance companies “already negotiate with drug companies far more effectively than the government, and they should continue to do so.” He closed by saying, “schemes to launch a federal attack on one of the last growing, innovative industries in America are in the long run counterproductive for both job creation and, more important, for the health of human beings around the world. By all means let us try to reduce the cost of drugs. But over the years, advances in drug efficacy and scope have saved us far more in hospital costs than we have spent on drugs.”\textsuperscript{83}

Pharmaceutical companies, both researched-based and generic, are not monolithic entities. Price controls adversely affect them in different ways. They are, however, fierce competitors providing valuable products that keep citizens healthy and able to live productive lives. Policy makers should reject destructive price controls in favor of policies that speed up drug approvals and improve patient access. In that way, they can provide an environment that allows drug makers to continue to compete and drive down prices.
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