



What to Do about Drug Shortages

Statement of

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**Short Supply Prescription Drugs: Shining a Light on the
Gray Market**

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Mr. Chairman and members of the committee, I am Devon Herrick, senior fellow at the National Center for Policy Analysis, a nonprofit, nonpartisan public policy research organization dedicated to developing and promoting private alternatives to government regulation and control, solving problems by relying on the strength of the competitive, entrepreneurial private sector. I appreciate the opportunity to submit this written statement for the record.

American hospitals and physicians are facing an unprecedented shortage of commonly used drugs. President Obama announced his support for legislation to address this problem by requiring drug makers to notify the Food and Drug Administration (FDA) of possible shortages six months in advance.¹

The president also signed an executive order directing the FDA to streamline the process of approving changes to production lines and giving the Justice Department authority directive to investigate alleged price gouging.² However, these steps will not fix the drug shortage problem and could even make it worse.

The Drug Shortage Problem Is Real. Drug shortages are widespread. In a recent survey, nine-in-ten anesthesiologists reported experiencing a shortage of at least one anesthesia drug.³ Oncologists also face drug shortages — in August 2011, more than 40 percent of the 34 generic oncology drugs on the market were in short supply.⁴ There are no reliable substitutes for most of these drugs. Most are generic injectable medications that have been on the market a long time and are commonly used in hospitals, emergency rooms and cancer treatment centers.

The American Hospital Association recently reported that virtually all the community hospitals it surveyed had experienced a drug shortage in the previous six months. Nearly half had experienced a shortage of more than 20 drugs in the previous six months. Consider:

- Two-thirds of hospitals surveyed had experienced a shortage of cancer drugs.
- Eighty-eight percent were short on pain medications.
- Ninety-five percent experienced a shortage of anesthesia drugs for a surgery.

Hospitals have responded in a variety of ways, including delaying treatment, giving patients less effective drugs and providing a different course of treatment than the one recommended. Indeed, about 82 percent of hospitals surveyed reported at least occasionally delaying a treatment because of a drug in short supply.

The Drug Shortage Problem Is Not New. The number of newly reported drug shortages has been growing.⁵

- There were 74 newly reported drug shortages in 2005.
- The number dipped slightly to 70 in 2006, then rose to 129 in 2007, 149 in 2008, 166 in 2009, and 211 in 2010.

In mid-2011 there were about 246 shortages.

In 2005, hospitals and clinics complained to Health and Human Services Secretary Michael Leavitt that drug manufacturers and distributors were often out of certain drugs because distributors first filled their more lucrative commercial orders.⁶

Problem: Government Regulation. There are many reasons for drug shortages. Shortages of certain drugs reoccur due to a lack of competition and manufacturing problems.⁷ According to former White House advisor and oncologist Ezekiel Emanuel, only about 10 percent of shortages are due to a lack of raw materials needed to manufacture them. The ultimate cause is government regulatory policy. Normally, when a product's price rises due to its scarcity, new competitors enter the market, increasing supply and driving down the price. However, government regulations often prevent price rises that would attract competitors.

Problem: Output Controls. The FDA has stepped up its efforts to ensure that drug manufacturing processes and facilities meet its quality standards by instituting a "zero tolerance" policy. It levies fines and forces manufacturers to retool both domestic and foreign facilities. For example, the FDA approves how much a drug manufacturer can produce. If a shortage develops because the FDA shuts down a competitor's plant, a manufacturer must seek FDA approval to increase its output and alter its production timetable. This slows down adjustments in production.

The Drug Enforcement Agency (DEA) has a role because minute quantities of controlled substances are often used to make other drugs.⁸ Its regulations are also inflexible. For example, if a shortage develops, a manufacturer that has reached its preauthorized production cap cannot respond by increasing output without DEA approval.

Problem: Medicare Part B Price Controls. Certain generic drugs are in short supply due to a lack of competition and manufacturing problems, but according to former White House advisor and oncologist Ezekiel Emanuel only about 10 percent of shortages are due to a lack of raw materials.⁷ A major cause is government price controls. Normally, the market price of a product rises when it is short supply, attracting competing manufacturers. However, the Medicare Modernization Act of 2003 limited the amount by which the price of the drug could rise over a given period. As a result, says Emanuel, many life-saving generic oncology drugs are scarce. Razor-thin profit margins for generic injectable drugs encourage drug makers to cease production or switch to making more lucrative branded drugs.

The law also changed the way injectable and intravenous drugs administered by physicians are reimbursed under Medicare Part B. Rather than paying providers a fee that varies with the difficulty of the procedure, Medicare reimburses them 6 percent of the drug's cost, based on its average selling price. This gives physicians an incentive to use newer patented drugs, even when older generic drugs are just as effective. Additionally, because of the shortages, says Emanuel, physicians have in some cases substituted new drugs that prolong life a few months when older generic drugs that could cure a patient are unavailable.

Problem: 340B Price Controls. Also contributing to the problem of shortages is the little known federal 340B drug rebate program. This program forces drug manufacturers to give discounts to hospitals and clinics that treat a high number of indigent or Medicaid patients, Public Health Service hospitals and clinics, and certain Federally Qualified Health Centers. Currently, the law requires drug companies to give these hospitals and clinics a 23.1 percent

rebate off of their average manufacturer's price for brand-name drugs and 13 percent for generic drugs on qualifying outpatient use.⁹ The Patient Protection and Affordable Care Act (PPACA) — the new federal health care law — will expand the number of hospitals and clinics that qualify for rebates. The number of participating facilities has already grown from about 8,000 in 2002 to more than 14,000 by 2010. It is estimated that nearly 20,000 are eligible under the PPACA.¹⁰ According to a U.S. Government Accountability Office report, nearly one-third of U.S. hospitals qualify for 340B drug discounts.¹¹

Furthermore, manufacturers are not allowed to increase brand-name drug prices faster than the Consumer Price Index. If they do, the drug maker has to rebate the excess amount above the Index. This means manufacturers have little incentive to purchase new equipment to maintain or improve their manufacturing processes. As a result, some drugs become less and less profitable over time.

Responses to Drug Shortages. Economics teaches that when prices are kept artificially low, shortages develop. People adjust to persistent shortages in ways that can worsen the shortages.

Stockpiling. Buyers typically respond by hoarding drugs when the supply is uncertain. As a report from the Premier healthcare alliance, a consulting firm, explains, “Drug shortages have been exacerbated by stockpiling on the part of providers,” who are trying to “protect themselves from the instability of the drug supply chain by placing orders that exceed normal requirements.”¹² Occasionally, the unit rebate exceeds the average manufacturing price of a drug. Rather than requiring manufacturers to rebate more than the price of the drug, the FDA created a “penny price policy,” allowing the manufacturer to charge a minimum price of one penny per dose. When a drug is in short supply, a drug maker must restrict sales to a proportion of past purchases in order to prevent 340B-eligible facilities from hoarding or reselling drugs worth far more than the price they paid.

Black Markets. Shortages also lead to the development of black (or gray) markets, where speculators buy a drug in short supply and sell it for a much higher price. An additional problem with the development of black markets is the potential sale of expired drugs of dubious origin. Finally, wholesale drugs can pass from one distributor to another, resulting in multiple transfers with higher prices at each point.¹³ In August 2011, members of the Premier healthcare alliance report paying “gray market” prices as much as 335 percent above the approved rate.

Cascading Effects on Other Markets. Shortages in one market tend to cascade to others. In general, when hospitals cannot get a drug, they will turn to the next best alternative. But as the Premier healthcare alliance analysis explains, when a shortage of one drug increases demand for a therapeutically similar product, the substitute may also become scarce because it “is not normally produced in quantities sufficient to meet unanticipated market needs.”¹⁴ This happened last year when a shortage of morphine led to a shortage of the substitute painkiller hydromorphone.

Solutions. Attempts to solve drug shortages with more regulations could actually worsen the problem. Indeed, expanding the number and type of companies required to provide advance

notice of impending shortages would *exacerbate* shortages by encouraging hospitals to hoard drugs.¹⁵ Such legislation would not make it any easier for manufacturers to avoid the problem.

Ultimately, the only way to alleviate the drug shortage is to make generic drugs more profitable. Thus, Congress should create a mechanism to reduce rebates for specific drugs in short supply. For example, injectable drugs are harder to store and involve different manufacturing processes, handling and administration than do simple tablets. Therefore, injectable drug rebates should be lower.¹⁶ Congress should also reform regulations that reimburse physicians a percentage of a drug's cost for administering it, rather than a fee schedule based on the complexity of the procedure.

Furthermore, Emanuel and other policy analysts say injectable generic drugs should be reimbursed under Medicare Part D private drug plans rather than Part B. Competing drug plans have kept drug costs lower than they would be otherwise, and have helped maintain adequate supplies of covered drugs.

In addition, Congress should reward new investments in the manufacturing process. Limiting price increases for Part B drugs to increases in the Consumer Price Index often means that it is unprofitable to upgrade older production facilities. The federal government cannot expect firms to make necessary upgrades if profit margins do not cover costs.

Finally, regulation of production processes should be more flexible. Drug makers that want to boost production are often delayed by the approval process. For example, the FDA currently requires a triple-check verification of the manufacturing process over an extended time period.

More research and analysis of prescription drug shortages can be found at the NCPA.org website. I appreciate the opportunity to submit testimony on this important issue, and I offer any assistance necessary to help solve this significant public policy problem.

Endnotes

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