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### SNS: A Public Good with a Declining Budget

Established in 1999, the SNS evolved from National Pharmaceutical Stockpile (NPS), headed by the Centers for Disease Control Parevention (CDC) within the Department of Health and Human Services (HHS). ptsrpose, as directed by Congress, was to "provide a re-supply of large quantities control medical material to states and communities during an emergency within the hours of the federal decision to deploy." After the 9/11 terror attacks, which is lodged Americans from a state of complacency about disasters, policymakters a more careful look at the NPS and discovered a number of flaws. These shortings included a slow response time, inadequate supplies on hand, and respondences were often unqualified to handle specific emergencies To address these shortcomings, the Homeland Security Act of 2002 transferred responsibility of the NPS the Department of Homeland Security, under whose authority the NPS officially damene the Strategic National Stockpile in March 2003.

In 2004, the enactment of Project Bioshife Increased preparedness efforts by appropriately restoring jurisction of the SNS to the CDC—which is part of HHS, not the Department of Homeland Security—as I was calling for the strengthening of the SNS' capacity to store and distribute counterastures such as vaccines and drugs in the event of a bioterror attacThe Bioshield Special Reserve Fund encouraged private business involvement in building up the SNS offering a guaranteed federal market for medical supplies. Establishing such a market was, its newscale preparedness efforts by

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<sup>&</sup>lt;sup>3</sup> "CDC – PHPR – Strategic National Stockpile," Centers for Disease Control and Prevention, http://www.cdc.gov/phpr/stockpile/stockpile.htmaccessed July 15, 2013).

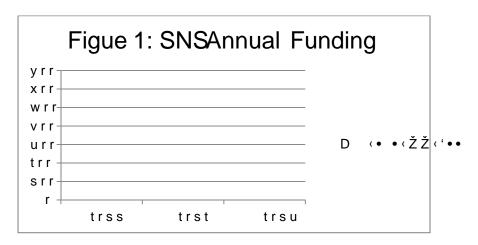
<sup>&</sup>lt;sup>4</sup> Ali S. Khan, "Public health preparedness and respon the USA since 9/11: a national health security imperative," Centers for Diase Control and Prevention, www.cdc.gov/phpr/documents/Lancet\_Article\_Sept2011(adcessed July 15, 2013).

<sup>&</sup>lt;sup>5</sup> U.S. Department of Health and Human Servi@emical Hazards Emergency Medical Management, "Strategic National Stockpile – SNShttp://chemm.nlm.nih.gov/sns.ht(accessed July 15, 2013).

<sup>&</sup>lt;sup>6</sup> Congressional Research Servittledical Countermeasures to Chemil, Biological, Radiological, and Nuclear Terrorism," Issues in HomelaSecurity Policy for the 113th Congress,

as individuals are unlikely to purchase manifythe key countermeasures needed in case of a biological, radiological, or chemical incide

Figure 1:



These numbers may sound huge, and they are. But the SNS is a classic example of a public good, something that the nation requirement that individuals are unlikely to procure for themselves. Historically, the adigmatic example of a public good has been a lighthouse, especially in days whenss-oceanic transport took place exclusively by ship. These days, lighthouses are relatively, raut the need for plib goods continues. According to a recent analysis by Kevin Williamson, authorhof End Is Near and It's Going to Be Awesomenly about one-third of feddel spending today is on public goods.11 Our problem today is perhaps not a lack of resources as much as a need to reexamine our priorities. The SNS is a stratered cessity for the United States government. Given that there are many forms of governmentaling that are netrategic priorities, the United States needs to find ways iton tron-priority spendig before reducing its commitment to the SNS. Decreasing fundstife SNS inhibits itability to provide adequately for the ever-ineasing population of the Unitestates, forcing it to do more with fewer resources.

If funds continue to dwindle, the SNS willed to allocate its limited dollars more strategically by evaluting different platform technologis that could promote more efficient innovation in the future. Also, the fie bug, one drug" metad that is currently employed should be re-evaluated and redirected to a "many bugs, one drug" approach.

<sup>&</sup>lt;sup>11</sup> Kevin D. Williamson, The End Is Near and It's Going to Be Awesome: How Going Broke Will Leave America Richer, Happier, and More Seculew York: Broadside Books, 2013).

Establishing the right platform technolegicould put us on the path for more innovations in the future. Another budgetahallenge has always been the need to replace products rather frequently as the their expiration dates. Fortunately, PAHPRA has extended the shelf life of exept SNS products that the FDA has deemed are still effective and usable, which while p further stretch limited SNS spending.

The Promise of the SNS

The SNS' arsenal of drugs and vaccines ha

best examples of the SNS' potential beniefin the area of antax, which came to the public's attention during the tatcks via the U.S. Postal Siece in the autumn of 2001. Anthrax, an infectious diseastheat affects the ski, gastrointestinatract, and/or lungs, can be spread rapidly, over great distant in relatively minute amounts by persons wishing to do us harm. In 2009, the Natio Security Council reporte that a biological attack with an agent such as anthrax covalids casualties in the "hundreds of thousands"

of the supplies, with a goal of being abbleget a crucial countermeasure to any location in the country within 24 hours. The firstoprisions to be deployed are 12-hour "Push Packages" that provide an except array of drugs and reactis within the early hours of an immediate threat. In the event of a bringteattack, antibiotics hyphoetically would be distributed to a designated metropolitanea within 48 hours of the deployment.

## Distribution methods

Beyond the big-picture goal of the distribution of large quantitis of product to a general area, there is the question but best to distribute produte the specific people in need.

#### Overall coordination

Another challenge, as the casethod missing Tamiflu suggests, the apparent lack of an overarching central authority topordinate all aspects public health. Under Section 2811 of the PHSA, the authority for coordination this sort falls squarely under the Secretary of Health and Human Service, if possibly in the office of the Assistant Secretary for Preparedness and Responsible Framework Emergency Support Function (ESF) #8 is quite explicit to front: "The Secretary of HHS leads the ESF #8 response. ESF #8, when activated by the Assistant Secretary for Preparedness and Response (ASPR)."

And yet, as with many government responsibles and activities, pulse health data and information remains scattered among various

Offsetting the cuts in SNS funding is affidiult task, especially considering the \$16.7 trillion national debt and theconcerns about budget segration. Some options include transferring funds from other plubhealth agencies including Indian Health Services (IHS), Agency for Healthcare Research @wality (AHRQ), and Centers for Medicare and Medicaid Services (CMS), to name w. These agencies' combined budgets were increased \$296 million with the 2013 FY budget. Perhaps with the establishment of the situational awareness autityruniting the public health agencies, appropriate budget transfers could be made among the agest calthough the bureaucratic tendency to defend one's turf makes this somewhat uetlik The second option involves deriving funds from the Prevention and Publicath Fund of \$903 million. This too seems unlikely, given that Congress has alreadythis fund for 2013 b\$250 million, and that the fund has certain powerful advocates in Congress.course, there is always the option to accept the cuts, asidnply reduce spending within the SNS. For example, the SNS is already preparing to save mobeychoosing to replace only high-priority expiring supplies, and thing low priority items<sup>26</sup> Careful consideration must be applied to decisions about which provisions are abtsolyunecessary, versus those that can be done away with?

The difficult budget environment clearly meathat SNS, as with nearly all government programs, will experience cuts. The outstagoquestion is whether the SNS budget cuts will threaten the efficiency of the program. As Ali Khan, director of CDC's Office of Public Health Preparedness and Responsestated, "The [stockpile] will be buying less. There's no doubt about it. Whether the smaller stockpile be able to maintain the right level of preparedness depends on that extic decisions HHSf focials make in the months ahead.

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<sup>&</sup>lt;sup>25</sup> Meredith Wadman, "US diseasgency in fiscal peril, Nature, February 28, 2012, http://www.nature.com/news/us-diseasgency-in-fiscal-peril-1.10109#co(accessed July 18, 2013).

<sup>&</sup>lt;sup>26</sup> Budget Highlights, Centers for Disease Control and Prevention, <a href="https://www.cdc.gov/fmo/topic/budget%20imfmation/factsheets/PHPR">www.cdc.gov/fmo/topic/budget%20imfmation/factsheets/PHPR</a> Factsheet(adcessed July 18, 2013). <sup>27</sup> Erika Check Hayden, "Budget forces tough look at biodefeined, April 10, 2013, <a href="http://www.nature.com/news/budget-forcesigh-look-at-biodefence-1.12766#/stock/faccessed July 18, 2013).">http://www.nature.com/news/budget-forcesigh-look-at-biodefence-1.12766#/stock/faccessed July 18, 2013).</a>

2. Community Polling Sites used as "PODs" Using polling or other community sites as PODs is another possible applicator the POD method. Polling sites in particular are typically more numeroweigh communities than the standard public PODs (high schools, pharmacies, effheir locations are specifically designed to efficiently handlarge crowds of people diong a short, discrete time period (i.e., Election Day) and to providervice to a significant, but unknown, number of citizens in a timely mannery pically, the locations are convenient and familiar to people, and furthermore they are designed to prevent congestion and limit long lines. Election personnel, more, are experienced in handling crowds and equipment at sites, and predisposed to volunteer and are engaged in their communities. Overally ploying workers or volunteers already used to staffing community centers for icipurposes could address the potential shortage of public health workers whould quickly and efficiently distribute drugs in case of emergency.

While the polling place POD method has many advantages, it presents some challenges as well. Increasing the number docations may reduce congestion, but it also requires more complex logistics for organize its addition, the heavy reliance on volunteer, civically-minder on-health experts might cause some consternation with the cipient population since volunteers would be inexperienced in the administration of the materials probably would not require too much time and effort to trathem, but any additional tension during an already nerve-wracking situanti requires careful consideration.

Transporting the provisions to the pollinges is another issue, especially if there is a crisis and the provisins are highly sought aftedeally, the local police force

<sup>&</sup>lt;sup>30</sup> National Association of County and City Healtffi@als, "Alternative Methods of Dispensing: Model Highlights," <a href="https://www.naccho.org/topics/emergency/SNSbbad/POD-Article-4">www.naccho.org/topics/emergency/SNSbbad/POD-Article-4</a> polling-places.p(\*\*accessed July 18, 2013).

Tevi Troy, "Preparing for Bioterrorism, The Weekly Standar debruary 23, 2010, <a href="http://www.weeklystandard.com/blo/gseparing-bioterrorism?page+accessed">http://www.weeklystandard.com/blo/gseparing-bioterrorism?page+accessed</a> July 18, 2013).

would be tasked with picking up thepaplies at the pre-determined general location to which the SNS sent the matter, and would then distribute those materials among the voting sites.

3. Employing Private SectorCommercial Infrastructure: Another promising distributional approach would be to employ the private ector through retail stores and drug manufacturers. Most retail armacies have experience with administering flu vaccines, so they add possess basic experience with medical supplies and civilians. Furthermore, there ideal for handling large crowds looking to procure specific items—that is what they do. Their resources for doing so include large parking lotstorage units to receive shipments, extensive indoor space laid out for the purpose adding with customers, and an available and expandable supply of staff. Perhapost importantly, retailers also have experience dealing with sales crunchesich a countermeasure supply effort would resemble. On the other side of the quation, retail stores are also familiar and convenient for people. If there is dhieng the American people like to do, it is shop. Consequently, there is a retail stwithin five miles of 95 percent of U.S. residences.

This idea, while promising, has challenges as well. Primary among these issues is the question of liability. If someone wetre be injured during the distribution process, or even by the administration the countermeasure, who would be held liable? As non-governmental employees, thrivate sector retail workers would face significant liability expose. Furthermore, the retail stores themselves, as well as their parent companies, coaldo have some exposure, which would likely make them extremely wary of participang. In fact, it is likely that the only way that the retail store option could the would be if Congress were to provide blanket and explicit liability ptection for the workers, the individual locations, and their parent companies.

<sup>&</sup>lt;sup>32</sup> Onora Lien, Crystal Franco, Gigi Kwik Gronvall, and BMaldin, "Getting Medicine to Millions: New Strategies for Mass Distribution," UPMC Center for Health SecurBiosecurity and Bioterrorism, no. 2 (2006), <a href="http://www.upmchealthsecurity.org/dwsite/resources/publitions/2006/2006-06-15-mie/thetomillions.htm">http://www.upmchealthsecurity.org/dwsite/resources/publitions/2006/2006-06-15-mie/thetomillions.htm</a> (accessed July 18, 2013).

provide the physical produitself to the 12 SNS locatins but would instead sell the government a guarantee tthaty would provide the roduct to the requested location in case of emergency. In doirog the manufacturer could use its existing logistics, storage, and security operations sold on to the parduct until needed, at which point it could serve as the singlistributing force when directed by the SNS, or even after a signal from there applace that commercial supplies had been depleted to a pre-arranged degit he necessary supplies would be dispersed to communities via manufacturer's existing commercial modes of transportation.

making them convenient and available those entire population. Furthermore, the kits could be purchased by large comparand universities and distributed to large groups of employees and stude have option of home medkits appears attractive since it addresses the issuessatic and the need for rapid deployment after a crisis has already commence are more likely to remain calm during a pandemic knowing they have immediate access to health provisions within the safety and convience of their own homes.

As with all potential solutions, home medkits have a few drawbacks. Most vaccines have specific requiremensach as administration by a health professional or storage in temperaturessite environments. Neither of these restrictions can be accommodated throther huse of home medkits. Vaccines would therefore not be included in thies. In 2008, Secrety of Health and Human Services Mike Leavitt met almost unanimous opposition regarding home medkits from skeptical public health authiers, who distrust citizens' ability to handle the medkits properly. Howeve 2006 study performed in St. Louis by the CDC revealed that when given the homedkits, 97 percent of citizens followed the directions of health officials. These findings suggest that home medkits can be useful sources of basic provisions though they obviously cannot cover the entire scope of emergency products.

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<sup>&</sup>lt;sup>36</sup> "CDC's Division of Strategic National Stockpile Emergency MedKit Evaluation Study Summary: Background, Key Results, and Next Steps,has for Disease Control and Prevention, <a href="https://www.bt.cdc.gov/agent/anthrax/prep/pdf/medkit-evaluation-summary-200@accessed">www.bt.cdc.gov/agent/anthrax/prep/pdf/medkit-evaluation-summary-200@accessed</a> July 18, 2013).

Conclusion: Should we

#### **About the Author:**

Tevi Troy is a Senior Fellow at Hudson Institute, and a writer and consultant on health care and domestic policy, whose commentary has appeared in major media outlets including the *Washington Post*, *Wall Street Journal, Commentary, National Affairs, Politico, National Review*, and *The Weekly Standard*. He is also a frequent commentator on outlets such as CNN, Fox News, PBS' NewsHour, and the Bill Bennett Radio Show. Troy is the author of two books, *What Jefferson Read, Ike Watched, and Obama Tweeted: 200 Years of Popular Culture in the White House* (Regnery History, 2013) and *Intellectuals and the American Presidency: Philosophers, Jesters, or Technicians* (Rowman & Littlefield).

In 2007, he was unanimously confirmed by the U.S. Senate as the Deputy Secretary of the U.S. Department of Health and Human Services. As Deputy Secretary, Troy was the chief operating officer of the largest civilian department in the federal government, with a budget of \$716 billion and over 67,000 employees. In that position, he oversaw all operations, including Medicare, Medicaid, public health, medical research, food and drug safety, welfare, child and family services, disease prevention, and mental health services. He served as the regulatory Policy Officer for HHS, overseeing the development and approval of all HHS regulations and significant guidance. In addition, he led a number of initiatives at HHS, including implementing the President's Management Agenda, combating bio-terrorism, and public health emergency preparedness. He also sponsored a series of key conferences on improving HHS' role with respect to innovation in the pharmaceutical, biomedical, and medical device industries. Troy has led U.S. government delegations to Asia, the Middle East, Europe, North America, and Africa.

Troy has held numerous other high-level positions, including Deputy Assistant and Acting Assistant to the President for Domestic Policy, Deputy Assistant Secretary for Policy at the Department of Labor, Policy Director for Senator John Ashcroft, and Domestic Policy Director for the House Policy Committee.

Troy has a B.S. in Industrial and Labor Relations from Cornell University and an M.A. and Ph.D. in American Civilization from the University of Texas at Austin.

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