

1 RPTR KRAMER

2 EDTR CRYSTAL

6 MADE IN AMERICA: STRENGTHENING DOMESTIC MANUFACTURING

7 AND OUR HEALTH CARE SUPPLY CHAIN

8 WEDNESDAY, JUNE 11, 2025

9 House of Representatives,

10 Subcommittee on Health,

11 Committee on Energy and Commerce,

12 Washington, D.C.

16 The subcommittee met, pursuant to call, at 10:02 a.m., in Room 2123, Rayburn House Office  
17 Building, Hon. Earl L. Carter [chairman of the subcommittee] presiding.

18 Present: Representatives Carter of Georgia, Griffith, Bilirakis, Dunn, Crenshaw, Joyce,  
19 Balderson, Harshbarger, Miller-Meeks, Cammack, Obernolte, James, Bentz, Houchin, Langworthy,  
20 Kean, Guthrie (ex officio), DeGette, Ruiz, Dingell, Kelly, Barragan, Schrier, Veasey, Fletcher,  
21 Ocasio-Cortez, Auchincloss, Carter of Louisiana, Landsman, and Pallone (ex officio).

22 Staff Present: Jessica Donlon, General Counsel; Sydney Greene, Director, Finance and  
23 Logistics; Jay Gulshen, Chief Counsel, Health; Emily Hale, Staff Assistant; Annabelle Huffman, Clerk,

24 Health; Megan Jackson, Staff Director; Sophie Khanahmadi, Deputy Staff Director; Brayden Lacefield,  
25 Special Assistant;; Molly Lolli, Counsel, Health; Sarah Meier, Counsel and Parliamentarian; Joel Miller,  
26 Chief Counsel; Jake Riith, Staff Assistant; Jackson Rudden, Staff Assistant; Chris Sarley, Member  
27 Services/Stakeholder Director; Emma Schultheis, Policy Analyst, Health; Matt VanHyfte,  
28 Communications Director; Katie West, Press Secretary; Lydia Abma, Minority Policy Analyst; Sam  
29 Avila, Minority Health Fellow; Jacquelyn Bolen, Minority Counsel, Health; Keegan Cardman, Minority  
30 Staff Assistant; Waverly Gordon, Minority Deputy Staff Director and General Counsel; Tiffany  
31 Guarascio, Minority Staff Director; Una Lee Minority Chief Counsel, Health; and Destiny Sheppard,  
32 Minority Intern.

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36           Mr. Carter of Georgia. The subcommittee will come to order. The chair recognizes himself for  
37 5 minutes for an opening statement.

38           Welcome, everyone.

39           Today's hearing is critical in addressing our Nation's reliance on adversarial countries for  
40 essential medications and healthcare products. This dependence not only jeopardizes our national  
41 security and patient safety, but also highlights the urgent need to increase domestic and  
42 friend-shored manufacturing.

43           Let me be clear: The United States should never be dependent on the Chinese Communist  
44 Party for the antibiotics and essential medicines. But that is exactly the dangerous position we are in  
45 today.

46           In 2002, the United States manufactured 72 percent of the pharmaceuticals it consumed. By  
47 2023, that number had dropped to just 37.5 percent. We didn't just outsource manufacturing -- we  
48 outsourced the sovereignty and safety of our healthcare system.

49           We saw the impacts of this reliance firsthand during the COVID-19 pandemic. According to a  
50 conversation I had with the Administrator for Strategic Preparedness and Response, our ASPR, under  
51 the Trump administration the United States saw a downtick in the amount of PPE and  
52 pharmaceuticals coming to our country from China in the fall of 2019 -- in the fall of 2019. We didn't  
53 learn about COVID until January of 2020. They knew what was going on. They started hoarding this  
54 stuff and not sending it to us.

55           China knew there was an unidentified sickness in its own country. They concealed it, and  
56 then they withheld medical supplies so the United States was less prepared when COVID-19 hit our  
57 shores.

58           As both a pharmacist and a Member of Congress, I know how critical these medicines and  
59 supplies are, especially for our national security. Under the Biden-Harris administration, over 323  
60 drugs were in shortage during the first quarter of 2024, an all-time high, and cancer patients were  
61 often forced to switch treatments, adjust dosage regimens, or, in extreme cases, unable to receive  
62 their life-saving medications. There was no comprehensive effort to support American  
63 manufacturers or reduce our reliance on foreign supply chains.

64           That is simply unacceptable.

65           Thankfully, President Trump is taking meaningful action by demanding real investment in our  
66 domestic production base and putting it into decades of failed "America Last" policies that left our  
67 supply chains hollowed out and put our patients, constituents, and families at risk.

68           Under the leadership of President Trump, we are bringing manufacturing back to America.  
69 Since the start of this year, the start of President Trump's second term, Johnson & Johnson broke  
70 ground on a new \$2 billion facility in North Carolina, Amgen announced a \$900 million manufacturing  
71 expansion in Ohio, AbbVie committed \$10 billion to invest in the United States, and Sanofi  
72 announced plans to invest at least \$20 billion.

73           And these are just a few examples. This is just the start.

74           I look forward to hearing from my other colleagues about the recent investments in their  
75 districts and States during this hearing today, and I am thrilled to see what additional investments  
76 continue to flow and thrive under an administration focused on unleashing innovation and bringing  
77 capacities back home.

78           Along those lines, I commend recent efforts by this administration to bolster domestic  
79           production. But we must do our part in Congress as well.

80           This hearing will make it clear that more can be done to eliminate burdensome regulatory  
81           barriers, streamline processes that impede our competitiveness on the global stage, and establish the  
82           proper incentives to ensure we are creating the environment to allow innovation to flourish.

83           It is no coincidence that Georgia, my home State, the number one State in the Nation to do  
84           business, is home to Manus Bio, which has invested nearly \$60 million and created over 100 jobs  
85           with the acquisition of a new manufacturing facility in Augusta. We need more policies at the  
86           Federal level that mirror the pro-growth examples we have in the State of Georgia.

87           That is why House Republicans passed the One Big Beautiful Bill Act, which incentivizes  
88           domestic medical supply production by rewarding companies that build their products in America,  
89           like USAntibiotics, who is the last remaining end-to-end domestic U.S. manufacturer of amoxicillin,  
90           the most prescribed antibiotic in the country.

91           This is about protecting American lives, empowering American workers, restoring American  
92           sovereignty, and reenforcing U.S. leadership in medical innovation.

93           China is not our friend. Ladies and gentlemen, China is not our friend. Every product  
94           component that then turns into a vial of medicine or a piece of medical equipment that is made in  
95           China is a missed opportunity to strengthen our economy and protect our people.

96           It is time to act. We need to view pharmaceutical and healthcare supply chain independence  
97           just as we are viewing energy independence.

98           I am proud to stand with President Trump and all those committed to putting America first in  
99           our healthcare system, starting with the medicines we rely on every day.

100 I now recognize the gentlelady from Colorado, Representative DeGette, for 5 minutes for an  
101 opening statement.

102 [The prepared statement of Mr. Carter of Georgia follows:]

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104 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

105 Ms. DeGette. Thank you so much, Mr. Chairman.

106 I do agree with you that China is not our friend. But, however, it is hard to take this  
107 administration seriously on this issue when they are firing hardworking public servants who support  
108 generic drug approvals, facility inspections, and initiatives that help companies make products in  
109 America because that will just cause a longer delay.

110 I do want to say the COVID-19 pandemic laid bare the challenges of our medical supply chain,  
111 but, unfortunately, Mr. Chairman, as you mentioned, our reliance on foreign supply chains for critical  
112 medical products has been a problem for decades, as you said, much longer since 2020.

113 We have a system that is great at producing cheap generic drugs and basic supplies, but we  
114 do not have a system that is great at encouraging a resilient supply chain that we can always count  
115 on.

116 I believe everybody in this room wants to be serious and come up with serious solutions to a  
117 ensure secure, reliable medical supply chain.

118 During the COVID pandemic, everybody in the world needed the same products at the same  
119 time, and manufacturing was severely disrupted. The problems with COVID put this problem into  
120 sharp relief because there were too many single points of failure, there was an inability to quickly  
121 shift manufacturing to critical products, and, as you said, there was an overreliance on unreliable  
122 foreign countries among them. That has all been long simmering.

123 So I think it is past time we work together to stop the endless cycle of shortages of critical  
124 medicines and ensure that we will have a reliable supply of medical products.

125 This committee considered legislation last Congress to address the supply chain and how it  
126 relates to drug shortages. This includes legislation from the former chairwoman of this

127 subcommittee, my predecessor, Anna Eshoo, to ensure that we better understand where the active  
128 ingredients for these drugs are coming from.

129 The bill, the Drug Origin Transparency Act, is so important because only 12 percent of active  
130 pharmaceutical ingredients globally are made in the United States.

131 We also, of course, need to reauthorize the Pandemic and All-Hazards Preparedness Act, one  
132 of the major tools we have to invest domestically in medical countermeasures.

133 Some PAHPA-authorized programs, like the Biomedical Advanced Research and Development  
134 Agency, have made it possible for innovative manufacturers to help the American people prepare for  
135 public health emergencies.

136 And I know I have friends on the other side of the aisle who are working very closely to try to  
137 get this PAHPA reauthorization into this committee for hearing and markup and onto the floor.

138 And the Strategic National Stockpile can be used to help support domestic manufacturers and  
139 secure the supply chain by focusing on resiliency.

140 Our hospitals can also be part of the solution. Hospitals are major medical supply purchasers,  
141 and they need to be at the table to encourage and reward domestic production and secure supply  
142 chains.

143 But, frankly, as I mentioned, I am troubled by the discordance between this committee's  
144 other work this Congress and our work today on supply chains. For example, the more we squeeze  
145 hospitals, particularly rural hospitals, the less they will be able to do to spend a few extra dollars on  
146 buy American.

147 If we kick off millions of people from Medicaid under the Republicans' reconciliation bill, that  
148 will result in an additional \$42.4 billion in hospital uncompensated care costs in 2034.



149           Let me say that again. If this bill actually passed the way it passed from this committee in the  
150 House, there would be an additional \$42.4 billion in hospital uncompensated care costs in 2034.  
151 That would translate into hundreds of billions of dollars of care hospitals will have to swallow in the  
152 next 10 years.

153           I don't think that that is going to make hospital procurement offices more able to consider the  
154 source of the antibiotics they are buying. Instead, what it does is it makes them even more likely to  
155 go with the cheapest option regardless of where it came from or any downstream consequences.

156           So I implore my Republican colleagues to consider all of the consequences of their Medicaid  
157 cuts, not just throwing 16 million, or however many, people off of healthcare.

158           A resilient supply chain will become less popular as we squeeze care for hardworking  
159 Americans, and especially rural and otherwise underresourced hospitals that provide us with that  
160 care.

161           So I want to thank you again, Mr. Chairman, for having this hearing. And I will yield back.

162           [The prepared statement of Ms. DeGette follows:]

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164           \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

165 Mr. Carter of Georgia. The gentlelady yields.

166 The chair now recognizes the chairman of the full committee, Chairman Guthrie, for 5  
167 minutes for an opening statement.

168 The Chair. Thank you, Chairman Carter and Ranking Member DeGette, for this hearing.

169 I appreciate all the witnesses for being here today.

170 During this hearing, we will be hearing from expert witnesses regarding the current state of  
171 our supply chain and opportunities and challenges to strengthen our domestic manufacturing  
172 capacities and infrastructure.

173 Efforts to bring capacity back home to the United States are critical to protecting our national  
174 security as well as ensuring access to safe, secure, and reliable medicines and healthcare products for  
175 Americans.

176 Over the years countries like India and China have continued to grow more influential in  
177 research, development, and manufacturing of medical products. Globally, this has led many  
178 countries, including the United States, to be reliant on international sources for the production of  
179 certain medicines and other health products and supplies.

180 The reasons for this evolution are incredibly complex, involving both workforce and  
181 development and manufacturing cost considerations, differing incentive structures, strategic location  
182 selections, operational risk, as well as associated regulatory burdens or corresponding flexibility, just  
183 to name a few.

184 While the reasons are complex, the staggering reality that our current domestic supply chain  
185 is largely reliant on international forces is remarkably clear and one that we must address.

186 According to recent data, about half of all the APIs, or Active Pharmaceutical Ingredients, for  
187 prescription medicines in the U.S. come from India and the European Union. In addition, India  
188 controls the majority of production volume for most oral tablets and capsules.

189 Meanwhile, China is an exclusive manufacturer of certain APIs and essential medicines, while  
190 remaining a dominant supplier of key starting materials, the pieces of the puzzle that often go to  
191 contribute to API.

192 Thus, it is fair to say the U.S. remains reliant on several international partners for many,  
193 varied pieces of the supply chain that eventually come together to produce the products that land in  
194 our medicine cabinets, our doctors' offices, and are used in our hospitals.

195 Our healthcare supply chain involves many components and important players, from the  
196 groundbreaking research to the raw material suppliers, product manufacturers and distributors and  
197 purchasers, all the way to the patient.

198 We look forward to hearing from the experts in front of us today to provide their perspective  
199 and shed light on the nuances of this supply chain and the role their entities play, shed light on  
200 vulnerabilities, and discuss possible opportunities and solutions.

201 With decreased reliance on China and other nations, we can help to foster a more  
202 sustainable, resilient, and predictable healthcare supply chain, bolstering our domestic  
203 manufacturing and promoting the safety of our medicines and the security of our country.

204 It is important to remember the national advancements in medicine already being made right  
205 here at home. For example, from 2018 to 2022, the biopharmaceutical industry increased capital  
206 investments in their facilities, equipment, and infrastructure by more than 72 percent, more than  
207 \$126 billion towards U.S. advanced manufacturing.

208 To put this into perspective, the only industry who exceeded this was motor vehicles.

209           In terms of innovation, the biopharmaceutical industry increased their research and  
210   development by more than 58 percent at the same time.

211           In fact, 46 percent of the 643 novel drugs that have been approved globally over the last  
212   decade are as a result of American companies' involvement in the discovery, patent, or clinical  
213   research process. This is twice as much as Europe.

214           I look forward to hopefully hearing more about some of these district stories from members  
215   of the committee as well as our witnesses, and I look forward to having our witnesses testify today.

216           And I yield back.

217           [The prepared statement of The Chair follows:]

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219   \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

220 Mr. Dunn. [Presiding.] Thank you.

221 I now recognize the ranking member of the full committee, Mr. Pallone, for 5 minutes for an  
222 opening statement.

223 Mr. Pallone. Thank you, Mr. Chairman.

224 Today committee Republicans want to discuss healthcare supply chains while the Trump  
225 administration is unleashing chaos and harm on our public health infrastructure.

226 The latest dangerous action by this administration came on Monday when Secretary Kennedy  
227 fired all 17 medical experts of the Advisory Committee for Immunization Practices, the committee  
228 that advises our Nation on immunization practices.

229 This action puts the health and well-being of the American people, especially our Nation's  
230 children, at extreme risk. It undermines vaccine safety and politicizes research and also politicizes  
231 science. And it is all being done so RFK, Jr., can stack the panel with a bunch of anti-vaccine people.

232 And also on Monday, 342 of the top scientists at the National Institutes of Health signed a  
233 letter to the NIH Director detailing unprecedented waste, abuse, and illegality at NIH under the  
234 Trump administration.

235 The letter also addresses the harmful consequences of these actions on our Nation's ability to  
236 improve and save lives through scientific breakthroughs.

237 This was really an unprecedented action by these employees who must feel they have no  
238 other options at this point than to go public.

239 Now, each of these actions warrants a hearing here in this committee, and yet Republicans on  
240 the committee remain silent, blindly following the Trump administration as it decimates our public  
241 health infrastructure.

242           This committee has yet to hear from the Secretary of HHS. We have yet to hear from the NIH  
243 Director. I know Republicans plan a budget hearing with Secretary Kennedy later this month, but he  
244 has caused so much destruction at HHS already that one hearing focused on the budget is not going  
245 to be sufficient. He must answer separately for the dangerous actions he has taken to undermine  
246 vaccines.

247           And rather than demanding answers of this administration, congressional Republicans are  
248 plowing ahead with their Big Ugly Bill that rips healthcare away from 16 million people so they can  
249 give giant tax breaks to billionaires.

250           Committee Republicans want to talk about strengthening domestic manufacturing and the  
251 healthcare supply chain. However, it is difficult to have a discussion about the supply chain without  
252 acknowledging the disruption, confusion, and uncertainty that the Trump tariff policies have caused,  
253 as well as the deep budget cuts the administration has proposed to the FDA.

254           I don't understand how congressional Republicans intend to square their desire to onshore  
255 manufacturing and bolster the domestic supply chain while eliminating nearly 2,000 jobs at FDA and  
256 proposing an 11 percent budget cut.

257           FDA employees are the ones who inspect foreign and domestic manufacturing facilities,  
258 approve branded and generic drugs, and ensure that medical products are safe and accessible for the  
259 people who rely on them. FDA staff have said the layoffs have resulted in drug safety work being  
260 stalled and inspections falling behind.

261           And that is the hearing we should be having. We should be conducting robust oversight on  
262 the implications of these actions, what it means in the short term for preparedness and response,  
263 what it means in the long term for American innovation and our ability to lead on a global scale.  
264 Both are threatened under the Trump administration's policies.

265           And if Republicans are really interested in strengthening domestic manufacturing and the  
266   healthcare supply chain, they would work with Democrats to ensure FDA has the resources and  
267   authorities it needs to ensure the medical products Americans rely on are safe, effective, and  
268   available.

269           FDA needs additional tools, resources, and authorities, not less, to address drug shortages  
270   and strengthen the supply chain.

271           Now, last Congress, Democrats put forward several bills that would bring greater  
272   transparency and resiliency to the supply chain, but Republicans refused to act on them. They also  
273   walked away from a bipartisan reauthorization of the Pandemic and All-Hazards Preparedness Act  
274   after Elon Musk blasted the overall package it was included in.

275           There is a lot of work to be done here, Mr. Chairman, to protect our supply chain, mitigate  
276   drug shortages, and ensure we are better prepared for the next pandemic.

277           However, unless and until the Trump administration chooses to end its dangerous crusade  
278   against public health, against biomedical research and vaccines, it is not possible to do the things that  
279   supposedly this hearing is about with the supply chain.

280           It is time that the administration and Republicans understand that these policies and solutions  
281   are all intertwined. You can't separate them. You can't talk about the supply chain and mitigating  
282   drug shortages and at the same time fire people at FDA, limit the resources that go to FDA, and all  
283   the other chaos that this administration is creating.

284           And with that, I yield back the balance of my time, Mr. Chairman.

285 [The prepared statement of Mr. Pallone follows:]

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287 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*



288           Mr. Dunn. This concludes member opening statements. The chair would like to remind  
289 members that, pursuant to committee rules, all members' opening statements will be made part of  
290 the record.

291           We want to thank all of our witnesses for being here today and taking time to testify before  
292 the subcommittee.

293           Our witnesses today are Mr. Patrick Cashman, President, USAntibiotics; Mr. John Murphy,  
294 President and Chief Executive Officer of the Association for Accessible Medicines; Dr. Ronald T.  
295 Piervincenzi, Chief Executive Officer, United States Pharmacopeia; Ms. Dawn O'Connell, former  
296 Assistant Secretary for Preparedness and Response; and Mr. Josh Bolin, Associate Executive Director,  
297 Government Affairs and Innovation, of the National Association of Boards of Pharmacy.

298           Per committee custom, each witness will have the opportunity for a 5-minute opening  
299 statement, followed by a round of questions from members. The light on the timer in front of you  
300 will turn from green to yellow when you have 1 minute left.

301           I now recognize Mr. Patrick Cashman for 5 minutes to give an opening statement.

302  
303 **STATEMENTS OF MR. PATRICK CASHMAN, PRESIDENT, USANTIBIOTICS; MR. JOHN MURPHY III,**  
304 **PRESIDENT AND CHIEF EXECUTIVE OFFICER, ASSOCIATION FOR ACCESSIBLE MEDICINES**  
305 **(MINORITY); DR. RONALD T. PIERVINCENZI, PH.D., CHIEF EXECUTIVE OFFICER, UNITED STATES**  
306 **PHARAMACOEPIA; MS. DAWN O'CONNELL, FORMER ASSISTANT SECRETARY FOR PREPAREDNESS**  
307 **AND RESPONSE (MINORITY); AND MR. JOSH BOLIN, ASSOCIATE EXECUTIVE DIRECTOR,**  
308 **GOVERNMENT AFFAIRS AND INNOVATION, NATIONAL ASSOCIATION OF BOARDS OF PHARMACY**  
309

310 **STATEMENT OF PATRICK CASHMAN**  
311

312 Mr. Cashman. Chairman Carter, Ranking Member DeGette, distinguished members of the  
313 subcommittee, thank you for the opportunity to speak today. My name is Patrick Cashman. I serve  
314 as President of Bristol, Tennessee-based USAntibiotics, which is the last remaining end-to-end U.S.  
315 manufacturer of amoxicillin.

316 The facility I lead has supplied life-saving medicine to American patients for more than 40  
317 years. Until 2008, every U.S. prescription of amoxicillin was produced at our Bristol plant. But after  
318 years of escalating subsidized competition from Indian and Chinese generic drugmakers, the facility's  
319 previous owners filed for bankruptcy in 2020. By the time our production lines went dark that year,  
320 the U.S. had become entirely reliant on foreign-origin amoxicillin.

321 In 2021, USAntibiotics was rescued from bankruptcy by private American investors who  
322 recognized the national security imperative of antibiotic production. Since then, we have created  
323 new jobs, invested tens of millions of private capital into reactivating production lines, and reentered  
324 the commercial market.

I feel privileged to play a role in this important story, and I look forward to sharing more with you about our experience.

Without antibiotics, routine surgeries and common infections can become fatal. Our Nation's health security, military readiness, and emergency preparedness all hinge on reliable antibiotic access.

Amoxicillin alone accounts for approximately 50 million U.S. prescriptions annually, making it the most prescribed antibiotic. After dropping to zero in market share in 2020, USAntibiotics now has about 5 percent market share.

If our facility were to shut down permanently, it would take no less than 5 years and hundreds of millions of dollars to construct a new facility capable of producing amoxicillin. That would be at least half a decade in which the U.S. would be entirely reliant on other countries for the most commonly prescribed antibiotic.

Our company and other U.S. generic drugmakers like us face three primary challenges.

One, unfair foreign subsidies, labor practices, and lax regulatory oversight. One 2022 study found that a lack of Chinese and Indian regulatory enforcement allows their drugmakers to cut as much as 25 percent off their cost.

Two, a lack of long-term government purchasing commitment. Most buyers prioritize cost over reliability or origin. Unlike defense contractors, which often operate under multiyear contracts, U.S. drugmakers of critical generic medicines are vulnerable to market fluctuations.

Three, a lack of recognition for critical drugs' national security relevance. Generic antibiotics are not treated as strategic assets like weapon systems or critical minerals. This means manufacturers cannot access all of the same financing tools, tax incentives, or industrial base support programs available to other domestic producers of critical goods.

348 Today, my colleagues in Bristol will manufacture approximately 700,000 doses of amoxicillin  
349 before their shift ends, but we operate on razor thin margins. Despite our strategic importance, we  
350 receive no Federal subsidies, Federal prime contracts, or protection from predatory pricing.

351 Since January 2023, the U.S. Government has spent \$900,000 on USAntibiotics products  
352 through the Federal Supply Schedule system. However, during roughly the same period, HHS spent  
353 approximately \$40 million to purchase foreign-origin amoxicillin for the Strategic National Stockpile.

354 To ensure the U.S. is never again dependent on China and India for amoxicillin, I humbly  
355 submit four policy recommendations for your consideration:

356 One, incentivize long-term purchasing agreements. To establish predictable demand  
357 companies like USAntibiotics require to scale and grow, encourage Federal agencies to enter a  
358 multiyear contract with domestic producers of essential medicines.

359 Two, implement domestic preference policies. The U.S. Government should establish a buy  
360 American requirement for antibiotics purchased with Federal funds when a U.S. manufacturer exists.

361 Three, create a strategic antibiotic manufacturing fund. Provide targeted grants, low-interest  
362 loans, and tax incentives to companies investing in domestic production.

363 Four, enforce trade rules to counter predatory pricing. The Department of Commerce and  
364 USTR should leverage existing authorities to penalize unfair trade practices in the antibiotic sector.

365 We support the ongoing Section 232 investigation regarding national security effects of  
366 imports of pharmaceuticals and pharmaceutical ingredients.

367 USAntibiotics stands ready to play its part to secure the U.S. antibiotic supply chain for the  
368 21st century. We have the infrastructure and we have the expertise. But we need this Congress to  
369 act.

370 Thank you for the opportunity to testify. I look forward to your questions.

371 [The prepared statement of Mr. Cashman follows:]

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373 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

374 Mr. Carter of Georgia. [Presiding.] Thank you, Mr. Cashman.

375 The chair now recognizes Mr. John Murphy III for 5 minutes to give an opening statement.

376  
377 **STATEMENT OF JOHN MURPHY III**

378  
379 Mr. Murphy. Chairman Carter, Ranking Member DeGette, members of the subcommittee,  
380 thank you for inviting me to discuss how we can strengthen domestic pharmaceutical manufacturing  
381 and secure our supply chain.

382 My name is John Murphy, President and CEO of the Association for Accessible Medicines. We  
383 represent the companies that supply more than 90 percent of U.S. prescriptions to American patients  
384 while accounting for just over 13 percent of total U.S. drug spending.

385 American families depend on affordable generic and biosimilar medicines. Yet the supply  
386 chain that delivers these medicines is under increasing pressure and in some parts is already  
387 fracturing.

388 The total value of sales of generic and biosimilar medicines has stagnated for more than a  
389 decade and the economic footprint of U.S. generics has shrunk by \$6.5 billion over the past 5 years  
390 despite growth in volume and the availability of many new medicines.

391 Production has increasingly evolved globally due to the competing economies seeking to  
392 bolster their own health security and access and the declining incentive structures and  
393 reimbursement potential here in the United States.

394 To be more specific, four key challenges face our industry and its growth in the United States.

395           We have no comprehensive national strategy or real incentives for production. The CHIPS  
396 Act, as an example, incentivized domestic manufacturing of semiconductors and showed what a bold  
397 industrial policy looks like.

398           Reimbursement policies continue to underprice essential drugs. For sterile injectables in  
399 particular, a race to the bottom competitive environment drives prices for indispensable medicines  
400 below sustainable levels and often rewards higher price brands over generics.

401           We have labor shortages. According to a recent HHS-sponsored report, the U.S. faces a  
402 shortage of workers with the requisite expertise to work in our sector, and more than half of  
403 specialized manufacturing jobs go unfilled.

404           Slow permitting and regulatory barriers also add. It can take 5 to 7 years to build a new plant  
405 and 3 to 5 years to add a single production line.

406           That is the bad news.

407           The good news is that Congress can help. Congress can reverse these trends with  
408 commitments built on nine pragmatic steps.

409           First, we should create guaranteed purchase contracts for essential medicines. Fixed-volume,  
410 fixed-price agreements, structured to encourage multiple suppliers, would give manufacturers the  
411 revenue certainty to build or reopen capacity here in the United States.

412           Second, we should expand the Strategic National Stockpile to include finished drugs and other  
413 active ingredients.

414           Third, fund grants to defray relocation and retrofitting costs of existing dormant capacity.

415           We should provide targeted tax incentives. A 50 percent credit on capital costs for  
416 domestically producing essential medicines, a simplified 20 percent R&D tax credit, relief for

bioequivalent studies and FDA user fees, and wage credits for U.S. production would narrow the cost gap with overseas labor and energy.

We should streamline FDA regulatory review of new complex generics and biosimilars.

We should look to invest in domestic API capacity. Many other countries, like Austria and South Korea, have invested heavily to support their own API production. The U.S. can and should pursue similar strategies that cluster suppliers and reduce barriers to scale.

We should appropriate multiyear funding equal to the strategic value of medicines to the United States, comparable to commitments made in the CHIPS Act.

We should look to curb anticompetitive brand patent tactics that delay generic entry by limiting serial patents and preserving the ability to reach pro-competitive settlements.

And last, we should reform Medicare and PBM practices that steer patients to higher price brands and protect prolonged brand monopolies.

These measures are not theoretical. They mirror the tools that secured domestic production of semiconductors and personal protective equipment. Applying them to medicines will expand U.S. manufacturing, enhance national security, and preserve access to affordable treatments for every patient.

Let me close with two realities.

First, the United States has dormant capacity. With the right incentives, existing facilities can restart lines faster than we can build new plants.

Second, rebuilding resilience will require some patience. Capital investments, ingredient qualification, validation, and FDA inspections take time. But the sooner we begin, the sooner patients, hospitals, and our military will benefit.



439           Generic and biosimilar medicines are not just cost savers. They are lifelines. With strategic,  
440           sustained support, we can reenforce that lifeline at home, reduce reliance on any single foreign  
441           source, and create skilled jobs across our communities.

442           I appreciate the subcommittee's attention to this urgent issue and look forward to working  
443           with you to turn these proposals into law.

444           Thank you.

445           [The prepared statement of Mr. Murphy follows:]

446

447           \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

448 Mr. Carter of Georgia. Thank you, Mr. Murphy.

449 The chair now recognizes Dr. Ronald Piervincenzi. Is that pretty good?

450 Dr. Piervincenzi. That is pretty good. Thank you.

451 Mr. Carter of Georgia. You know, I try to get staff to get Smith and Jones, but they get all  
452 these other people here. So, I have directed them, "Don't have any witnesses unless it is a Smith or a  
453 Jones."

454 [Laughter.]

**STATEMENT OF RONALD T. PIERVINCENZI**

Dr. Piervincenzi. Thank you, Chairman Carter, and thank you, Ranking Member DeGette, members of the committee, for this opportunity to provide testimony on strengthening the domestic manufacturing and the healthcare supply chain.

I am Ron Piervincenzi, Chief Executive Officer of the United States Pharmacopeia, better known as USP.

USP is an independent scientific global nonprofit organization founded on January 1 of 1820 when 11 physicians concerned about patient safety and poor-quality imported medicines from England came together to create the first national Pharmacopeia in the world.

Today, USP works with hundreds of independent experts to set 6,000 -- over 6,000 quality standards for the entire medicine supply, including dietary supplements -- and also their ingredients, importantly. In addition, we have developed verification services to ensure the quality of ingredients, a program to test the quality of pharmaceutical products from the marketplace, and initiatives to accelerate adoption of advanced pharmaceutical manufacturing technologies.

All of this work is in service of USP's mission to help strengthen the global supply chain so that medicines people rely on are available when needed and meet quality standards as expected and required.

USP launched an ambitious initiative in 2019 to map and analyze the global medicine supply chain. The resulting data platform, known as the Medicine Supply Map, now tracks 94 percent of U.S. drug products and ingredients wherever they are manufactured in the world. It identifies

477 vulnerabilities in our supply chain and helps guide smarter investments by both the private sector  
478 and, hopefully, targeted interventions by policymakers.

479         So what have we learned from this extensive mapping? Globalization has indeed enabled the  
480 manufacture of generic medicines at lower cost, but it has clearly made our supply chains longer,  
481 more fragmented, and more opaque.

482         So a few facts.

483         Over 80 percent of key ingredients and raw materials used in U.S. medicines are  
484 manufactured abroad today, and many in just a handful of locations. India supplies more than a third  
485 of all U.S. prescription drug APIs. But China's API filings have risen 63 percent just over a 2-year  
486 period from 2021 to 2023, now comprising a third of new global filings on a go-forward basis.

487         This geographic concentration is one key driver of vulnerability.

488         Using our data, USP has identified 100 vulnerable medicines that are both at high risk for  
489 disruption and difficult to substitute therapeutically. Pharmacists will understand that one.

490         Right now, the supply of our most essential medicines, nearly all of which are generics,  
491 remain highly sensitive to geopolitical tensions, disasters, pandemics, and, importantly, market  
492 dynamics that drive often the most reliable manufacturers to exit the market for individual drugs.

493         The result is an increasingly fragile supply chain that jeopardizes not just patient care but  
494 national security.

495         To reduce these risks and improve resiliency, we have identified four key recommendations  
496 which can also serve as pillars to guide Congress' support for domestic manufacturing.

497         The first is to continuously identify the Nation's most vulnerable medicines, to leverage that  
498 data to pinpoint the factors most responsible for supply risk, and target interventions where the data  
499 shows the risk is most imminent.

500           The second is supporting the innovation in U.S. manufacturing technologies, reducing the  
501 barriers for new novel methods for producing pharmaceutical ingredients, including key starting  
502 materials as well as APIs.

503           The U.S. is actually quite well positioned to lead on breakthrough technologies, including  
504 advanced manufacturing, and to find alternative synthesis pathways for those APIs. That can help  
505 reduce our reliance on overseas suppliers and enable us to domestically manufacture medicines and  
506 their ingredients more efficiently and more competitively.

507           A third is to establish a resiliency benchmark for the purchase of vulnerable medicines. We  
508 must rethink how we value essential generic drugs, which account for more than 90 percent of  
509 medicines that Americans rely on but represent less than 20 percent of our spending on medicines.

510           USP and other stakeholders have proposed establishing a resilience benchmark to help shift  
511 the paradigm to empower and incentivize public and private sector purchasers to value resiliency and  
512 predictability.

513           Fourth, expand the supply chain visibility by leveraging tools like the USP Medicine Supply  
514 Map. Expertise like this is essential to unravel complicated supply chains and provide the risk  
515 management intelligence. We can pinpoint vulnerabilities so that we can also pinpoint solutions.

516           The fragile supply chain is a problem we can and should solve, and with confidence. In fact,  
517 we must work to forge a more resilient, adaptable, and secure future for America's medicine supply  
518 because the well-being of millions of people and our Nation's security does depend on it.

519           USP thanks the committee for convening this discussion on this urgent issue that affects so  
520 many of my fellow Americans and their healthcare providers.

521           I look forward to answering your questions. Thank you.

522           [The prepared statement of Dr. Piervincenzi follows:]

523

524 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

525 Mr. Carter of Georgia. Thank you, sir.

526 The chair now recognizes Ms. Dawn O'Connell for 5 minutes for an opening statement.

527  
528 **STATEMENT OF DAWN O'CONNELL**

529  
530 Ms. O'Connell. Thank you, Chairman Carter and Ranking Member DeGette. I am pleased to  
531 have this opportunity to testify before you today on the need to strengthen domestic manufacturing  
532 and the public health and medical supply chain.

533 I served in the previous administration as the Assistant Secretary for Preparedness and  
534 Response. My job was to help the country prepare for, respond to, and recover from public health  
535 emergencies and disasters.

536 Much of this work was focused on making sure the country had the tools it needed to  
537 respond to whatever emergency was at hand. As a result, having a resilient public health and  
538 medical supply chain was always a concern of mine, but over the last 4 years it became a mission.

539 We must never forget what Ranking Member DeGette mentioned, those early days of COVID  
540 when the whole world needed the exact same medical supplies at the exact same time, and most of  
541 them were manufactured somewhere else.

542 The Strategic National Stockpile had limited stores of usable PPE, the last pieces purchased 10  
543 years prior during the H1N1 outbreak. Also, the amount of PPE manufactured in the United States  
544 was limited, and much of it was manufactured just in time with little surge capacity.

545 As a result, our frontline healthcare workers were forced to wear garbage bags and used  
546 empty soda bottles for PPE.

547 When I began my work at ASPR in 2021, two things were clear to me.

548 First, we needed enough supplies in the Strategic National Stockpile to get the country  
549 through the first 90 days of an emergency.

550 And second, we needed a manufacturing base in the United States with enough capacity that  
551 could quickly ramp up to meet demand after those first 90 days.

552 And so we got to work.

553 The first Trump administration began the work of investing in domestic manufacturing of  
554 critical PPE and medical supplies. We continued that work when we came in.

555 And over the course of the COVID response across both administrations, ASPR invested in the  
556 domestic manufacture of masks, gloves, gowns, tests, as well as ancillary equipment, such as swabs  
557 and vials.

558 Under my leadership, I established ASPR's supply chain office to manage our domestic  
559 manufacturing efforts. I elevated the Strategic National Stockpile to direct report to me, and I  
560 restocked its depleted shelves with domestically manufactured supplies whenever possible.

561 As the country emerged from the acute COVID PPE and medical supply shortages, our team  
562 expanded its efforts to invest in the domestic manufacturing of active pharmaceutical ingredients  
563 and key starting materials for the medicines that are most needed in public health emergencies.

564 Expanding the healthcare manufacturing base in the United States takes time, attention, and  
565 a coordinated effort across the government. We ran into several challenges that ASPR and HHS  
566 alone could not solve but required the support and engagement of other parts of government.

567 And despite our efforts, some of the companies we invested in were unable to survive the  
568 waning demand for PPE that quickly followed the ending of the acute phase of the COVID response.

569 But despite these challenges, I think we have an opportunity. The previous two  
570 administrations initiated much of their supply chain work during times of emergency and acute



571 shortage. There is an opportunity now that we are not in a crisis to take a look at what has worked  
572 and what has not and consider a comprehensive framework for securing our public health and  
573 medical supply chain.

574         This framework should first clearly identify, what is the public health and medical supply  
575 chain? What is in it that needs to be available and ready to use on day one of an emergency?

576         It should promote investment in the domestic manufacture or near-shoring of whatever those  
577 products are.

578         It should have a strategy to ensure there is a market for those products in both peacetime  
579 and times of emergency.

580         And the strategy should take into account government incentives, thoughtfully applied tariffs,  
581 and stockpiles of vendor-managed inventory, and it should build enough domestic manufacturing  
582 that manufacturers can surge production quickly in times of emergency.

583         Ensuring a resilient and secure domestic supply chain is a nonpartisan issue. In fact, it is a  
584 place, despite deep partisan divisions around public health, where both the Biden and first Trump  
585 administrations found agreement.

586         We owe it to our frontline healthcare workers to make progress on this important issue  
587 before the next public health emergency so they never have to wear garbage bags for PPE again.

588         Thank you, and I look forward to your questions.

589         [The prepared statement of Ms. O'Connell follows:]

590  
591 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

592 Mr. Carter of Georgia. Thank you, Ms. O'Connell.

593 The chair now recognizes Mr. Josh Bolin for 5 minutes to give an opening statement.

594  
595 **STATEMENT OF JOSH BOLIN**  
596

597 Mr. Bolin. Health Subcommittee Chairman Carter, Ranking Member DeGette, members of the  
598 subcommittee, thank you for the opportunity to testify today about the state of the U.S. drug supply  
599 chain.

600 NABP is a 501(c)(3) nonprofit association that for over 120 years has protected public health  
601 by assisting our member boards of pharmacy in all 50 States that have the responsibility for  
602 regulating the practice of pharmacy as well as the prescription drug supply chains within their States.

603 With my testimony today, I will highlight some of the emerging safety threats to both the  
604 regulated and unregulated supply chains for products as they move closer to patients.

605 As the subcommittee is aware, the Drug Supply Chain Security Act passed into law in 2013  
606 and provided a phased window of implementation for the pharmaceutical supply chain to achieve  
607 interoperable data sharing and electronic tracing of products to prevent dangerous products from  
608 reaching patients.

609 The DSCSA provides essential tools that trading partners in the supply chain and State and  
610 Federal regulators can utilize to detect unsafe medications.

611 First, products now have to be serialized down to the individual saleable unit, meaning that  
612 there is a unique identifier for each product, and product packaging contains a 2D barcode that can  
613 be scanned.

614           Once the product is scanned, trading partners and regulators can ask about the legitimacy of  
615           that product's identifiers or who owned that product previously.

616           The U.S. supply chain now generates 16 to 20 billion transactions per year, and given this  
617           massive amount of data, NABP started working with our member boards of pharmacy and all sectors  
618           of the supply chain to conduct pilots that led to the development of Pulse by NABP, which is NABP's  
619           digital platform for DSCSA that we launched in January.

620           The best way to think about Pulse is that it is a directory for all the manufacturers,  
621           distributors, and pharmacies in the supply chain as well as all the products that move through the  
622           supply chain.

623           Utilizing Pulse, regulators and trading partners can scan the 2D barcode of a product and ask  
624           questions of trading partners about that product.

625           NABP is providing the tools to our members and to every pharmacy in the supply chain at no  
626           cost. We are doing so because the tools of DSCSA only work if they are accessible and easy to use.

627           We rolled out Pulse to our member boards in mid-January, and as it happens, the very first  
628           scans that were conducted out in the field utilizing Pulse helped the Arkansas and Mississippi Boards  
629           of Pharmacy in identifying illegitimate and counterfeit GLP-1 medications that had actually made  
630           their way into our legitimate supply chain.

631           From a congressional perspective, DSCSA worked, but it illustrated that our supply chain is  
632           still susceptible to illegal actors.

633           Since January, we have nearly 30 States utilizing the tool, and not just boards of pharmacy but  
634           other regulatory authorities, such as attorneys general and Drug Enforcement Administration field  
635           offices.

636           While we have made progress, and implementation of DSCSA helps, we still face challenges  
637 and threats to supply chain security.

638           First, regarding medications offered over the internet. NABP has a host of resources we can  
639 share about the dangers of purchased medications over the internet.

640           But our primary highlight is that in that work we estimate that 96 percent of online  
641 pharmacies in operation at any given time are illegal and in violation of State and Federal law. And  
642 research shows that the majority of Americans falsely believe that websites offering prescription  
643 medications have been approved by the FDA or by the boards of pharmacy. People increasingly trust  
644 that medications on the internet are safe and regulated, but, unfortunately, that is not always the  
645 case.

646           Second. NABP's members have flagged a disturbing trend in the loosely regulated space of  
647 med spas. For example, one State board uncovered an operation where a med spa had been set up  
648 in an individual's home where compounding -- and I use that loosely -- or mixing of purported GLP-1  
649 medications with vitamin B12 in their bedroom, hardly a sterile environment.

650           The med spa was compounding, using active pharmaceutical ingredient that was obtained not  
651 from an FDA-registered API manufacturer but from an international online source advertising cheap  
652 weight loss APIs. The med spa simply mixed these ingredients, drew it up in syringes, and then  
653 mailed them to individuals in plastic bags.

654           This is just one example from a State that actually has authority to regulate these types of  
655 entities. And, unfortunately, we know activities like this are going on in every State, but most State  
656 boards lack the authority to actually do anything about it.

657           So while there are absolutely legitimate sources for obtaining medications over the internet,  
658 unfortunately, bad actors are using internet platforms to peddle medications, putting profits over

659 safety. And to be clear, legitimate compounding plays an essential role in our supply chain to ensure  
660 patients have access to medications they need that aren't commercially available.

661 But those that are simply mixing medications in their bedroom or in their bathroom in  
662 nonsterile environments and calling it "compounding" are a threat to legitimate practice.

663 Given the popularity of certain medications, those who believe they can make a dollar over  
664 demand for a popular medication will do so irrespective of the harm it causes to patients.

665 I would like to once again thank the committee for their time and attention. I will look  
666 forward to your questions.

667 [The prepared statement of Mr. Bolin follows:]

668

669 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

670 Mr. Carter of Georgia. Thank you, Mr. Bolin.

671 And thank all of you for your testimony.

672 We will now begin questioning, and I will recognize myself for 5 minutes of questioning.

673 As has been established here already, America has found itself entrenched in an issue that  
674 poses a threat to our safety and our national security. China has become our pharmacist. I practiced  
675 pharmacy for almost 40 years. Now I have been replaced by China.

676 Seriously. China has become our pharmacist. China decides whether Americans have the  
677 prescription and over-the-counter drugs we need to get and stay healthy.

678 That is why we are having this hearing today, so that we can examine the policies that bolster  
679 our domestic pharmaceutical supply chain.

680 Before our committee today is USAntibiotics, who is the only -- the only -- U.S. manufacturer  
681 of amoxicillin and Augmentin.

682 Based in Bristol, Tennessee, USAntibiotics operates a world-class antibiotic production facility  
683 with the sole focus of affording patient access to quality life-saving medications and antibiotics,  
684 securing critical domestic supply chains, and creating good-paying jobs.

685 Despite USAntibiotics' critical importance to our supply chain and national security, previous  
686 administrations didn't prioritize these American-made products. In fact, previous administrations  
687 prioritized foreign-sourced amoxicillin over American-made amoxicillin.

688 Thankfully, President Trump has prioritized American-made medicines and issued an  
689 executive order promoting American-made pharmaceutical manufacturing to reduce our reliance on  
690 adversarial countries.

691 Mr. Cashman, in your testimony you mentioned that we should treat generic drugs the same  
692 way as we treat military weapon system or critical minerals. Can you explain the rationale for that?

693 Mr. Cashman. Thank you, Chairman Carter.

694 Yes, absolutely. Approximately 45 percent of the global amoxicillin API production --

695 Mr. Carter of Georgia. Can you bring that microphone closer to you?

696 Mr. Cashman. Excuse me.

697 Approximately 45 percent of the global amoxicillin API production capacity is concentrated in  
698 China. Even though China isn't the leading global exporter of our finished form of amoxicillin, they  
699 supply upwards of 70 percent of the amoxicillin API that Indian drugmakers use.

700 In addition, one should note that 80 percent of the key starting materials used for the  
701 production of API, amoxicillin API, is also produced in China.

702 So China has a stranglehold on amoxicillin production globally.

703 Mr. Carter of Georgia. Let me ask you something. There was a study done in 2025 that found  
704 that Indian-made generics were 54 percent more likely to cause severe adverse effects than  
705 made-in-America drugs.

706 Can you describe any documented quality differences between domestic and foreign  
707 manufactured antibiotics?

708 Mr. Cashman. Yes. In this study that was done by Ohio State that you mentioned, Chairman  
709 Carter, 54 percent effect was -- there were 54 percent more severe adverse events in medications  
710 from China than medications -- the same -- very same medications produced in the United States.

711 In addition, there have been cases of contamination with carcinogens. In 2019, there was a  
712 case of carcinogens being in blood pressure medications. And there have been numerous other  
713 situations like this.

714           Mr. Carter of Georgia. And this is one thing we want to look at in the future on this  
715 committee as well, on this subcommittee and this committee, and that is the FDA investigating and  
716 looking at these foreign manufacturers.

717           If Congress would act on the recommendations today, how quickly could we -- could our  
718 domestic capacity expand? If we were to act on this, how quickly could we get this up and running?

719           Mr. Cashman. With the right policy framework, we could significantly expand production  
720 within 18 to 24 months. And let me explain that a little bit.

721           We are currently running three active production lines. We have two crews on first shift and  
722 another crew on second shift. By simply adding new crews, adding shifts, so we can have three shifts  
723 per day on each line, we could dramatically increase our production.

724           In addition, we have over 11 production lines -- or excuse me -- nine production lines. So we  
725 can add additional new production lines as well.

726           So in a time period of 18 to 24 months, we could increase our production significantly.

727           Mr. Carter of Georgia. So can we work with our allies to reduce dependence on China  
728 without going totally domestic? I mean, friend-shoring, offshoring, that would help as well, correct?

729           Mr. Cashman. Absolutely that would help. But we have to keep in mind here that in working  
730 with our allies, that many of them have supply chain vulnerabilities as well. They don't have the  
731 capacities to supply all of the U.S. market as well as the European market, for example.

732           Mr. Carter of Georgia. Right.

733           Mr. Cashman. So those are situations we have to look at each specific case.

734           Mr. Carter of Georgia. Okay.

735           I am out of time. Thank you very much for that, Mr. Cashman.



736 I now recognize the ranking member of the subcommittee, Representative DeGette, for 5  
737 minutes of questioning.

738 Ms. DeGette. Thank you so much, Mr. Chairman.

739 Well, I have got to say, we are all alarmed about this issue. I was alarmed to find out that my  
740 local hospitals didn't have IV fluids and other essential medications. And we can easily see how  
741 tenuous this makes our whole healthcare system.

742 So I want to start with you, Dr. Piervincenzi.

743 In the 2025 Annual Drug Shortages Report, the USP identified four factors that contribute to  
744 and drive medication shortage. Can you briefly restate what those risk factors are?

745 Dr. Piervincenzi. Thank you, Ms. DeGette. I appreciate that question.

746 So the report did a retrospective analysis of that broad --

747 Ms. DeGette. And what the four -- briefly -- what were those four areas?

748 Dr. Piervincenzi. Yeah. So first was price. And by first, I mean the thing that was most highly  
749 correlated to supply disruptions. In this case, of course, low price for generic drugs, too low of a  
750 price.

751 The second was quality. In this case, it was quality disruptions. Bad inspections, poor quality  
752 medicines that resulted in discontinuities.

753 Third was geographic colocation. So this has different factors, including geopolitical, but also,  
754 of course, weather, weather events. We are familiar with many examples.

755 And the -- excuse me -- on the fourth -- oh, and of course complexity. You were mentioning  
756 the IV bags. The higher the complexity, the more things that can go wrong. So, unsurprisingly, that  
757 becomes also highly correlated.

758 Ms. DeGette. Right.

759 Dr. Piervincenzi. Now, the last thing I will say is that the four factors aren't independent,  
760 meaning any one of those perhaps might be okay, but it is when they come together is when you  
761 have really serious risk.

762 Ms. DeGette. When they all work together.

763 So does USP call for deregulating domestic pharmaceutical manufacturing as a solution?

764 Dr. Piervincenzi. Deregulating?

765 Ms. DeGette. Deregulating as a solution. That is not in the four factors you talked about.

766 Dr. Piervincenzi. Oh. I am sorry. Yes.

767 So the U.S. FDA's inspections are critical. And we talked about a couple of the factors,  
768 including quality. The assurance of quality is one of those factors. So deregulating the quality would,  
769 I think, work against the --

770 Ms. DeGette. So that is not one of your recommendations.

771 And what about reducing inspections domestically? Would that help, if we reduce domestic  
772 inspections?

773 Dr. Piervincenzi. Would it help resilience?

774 Ms. DeGette. Yeah. Would it help solve these problems?

775 Dr. Piervincenzi. So the FDA's role -- and this is, we know, from working with our partners in  
776 industry -- that strong inspections result in higher resilience.

777 Ms. DeGette. Thank you.

778 Now, so the reason I am asking you these questions, the Trump executive order pretty much  
779 tells companies they can avoid inspections if they manufacture in the United States. But as you said,  
780 the FDA's involvement assures quality and safety, and thereby it averts drug shortages caused by  
781 subpar drugs.

782 I want to move quickly to you, Ms. O'Connell.

783 You are so right about replenishing the stockpile now instead of waiting, like we always do,  
784 until a crisis. And the chairman is nodding because he agrees with me.

785 So I want to ask you, HHS recently canceled \$766 million in contracts with Moderna to  
786 develop vaccines against influenza strains with pandemic potential, including the H5N1 avian flu.

787 Moderna utilizes mRNA technology that has important advantages over older methods of  
788 vaccine development. This technology was developed over three decades with \$337 million of  
789 Federal Government investment prepandemic. It saved millions of lives when Operation Warp Speed  
790 resulted in multiple safe and effective vaccines for COVID-19 in less than a year.

791 So I want to ask you, can you explain why the strengths of mRNA technology matter in a  
792 pandemic context?

793 Ms. O'Connell. Absolutely. At this point, the mRNA platform is the only vaccine that we can  
794 use to meet our 100-day mission. Our biosecurity strategy requires that we are able to, at the first  
795 identification of an outbreak, have a vaccine ready to go.

796 The mRNA platform, because it is very flexible and quick to manufacture, is the only platform  
797 at this point that will provide the country that protection within the first 3 months of an outbreak.

798 Ms. DeGette. What would happen if we had a massive bird flu outbreak or other strain of  
799 influenza if we didn't have the mRNA platform?

800 Ms. O'Connell. Well, at this point, we do have other vaccines -- egg-based, cell-based -- but  
801 they take 6 months to manufacture.

802 Ms. DeGette. Okay. And does Moderna have manufacturing capacity in the U.S.?

803 Ms. O'Connell. They do.

804 Ms. DeGette. Okay. And does cancelling this contract help offshore the medical supply  
805 chain?

806 Ms. O'Connell. No.

807 Ms. DeGette. The Moderna contract? No.

808 So I just want to say, is this platform, the mRNA platform, safe, and is it reviewed?

809 Ms. O'Connell. Absolutely. It has been studied, as you mentioned, over 30 years, and it was  
810 licensed by FDA and been through several clinical trials in the process.

811 Ms. DeGette. Under both --

812 Ms. O'Connell. Absolutely.

813 Ms. DeGette. -- under Republican and Democratic administrations?

814 Thank you. I yield back.

815 Mr. Carter of Georgia. The gentlelady yields.

816 The chair now recognizes the chairman of the full committee, Chairman Guthrie, for 5  
817 minutes of questioning.

818 The Chair. Thank you. Thank you, Mr. Chairman. Thank you for yielding the time.

819 And I just want to talk about advanced manufacturing technologies. Actually, I want to go  
820 back. I want to talk about H.R. 1 for a couple minutes.

821 So, Mr. Cashman, H.R. 1 has several tax credits involved. Can you speak to the benefit of the  
822 provisions of the USAntibiotics specifically, and if the Senate were to pass the bill with these  
823 incentives in tax, how quickly could USAntibiotics expand production to serve more of the American  
824 market?

825 Mr. Cashman. Thank you, Chairman Guthrie. Great question.

826 I can only speak to the impact of specific limited provisions of the legislation on companies  
827 like ours.

828 As stated, we serve only 5 percent of the U.S. amoxicillin market despite having capacity to  
829 scale to serve 100 percent. The immediate expensing of new product production equipment and  
830 facility improvements, as well as domestic R&D expensing provisions, could better position us to  
831 make capital investments. So, it would help us.

832 The Chair. Thank you.

833 And so, Mr. Murphy, would you explain how your member companies could use the  
834 provisions in H.R. 1 to move production back domestically?

835 Mr. Murphy. Yeah. Mr. Chairman, thank you for that question.

836 We have often talked about the need to have tax credits and the ability to have flexibility in  
837 the Tax Code to make the investments necessary in the United States.

838 I would say we have a significant amount of dormant capacity in the United States too that  
839 could be turned back on, which would require some capital investments to get things online. And  
840 our members have been very, you know, pleased to hear that there is more attention being paid to  
841 this sector of the market from a tax perspective that could help the industry.

842 The Chair. If you have open capacity, what is preventing the price, obviously -- what is  
843 preventing you from expanding your capacity.

844 Mr. Murphy. Yeah. So, I would say predominantly -- and Dr. Piervincenzi said this as  
845 well -- price in the generic market is the primary driver to make more investments. And we have a  
846 long history of working with this committee on solutions to that. But, ultimately, tax provisions help  
847 as well.

848 The Chair. But you have open domestic capacity.

849

Mr. Murphy. We do. We do.

850 RPTR SEFRANEK

851 EDTR ZAMORA

852 [11:01 a.m.]

853 The Chair. Because there is a -- I used to do supply chain, so it is not pharmaceutical but  
854 automotive, but -- so you have a couple of things. One, if you are going to try to bring it back, you  
855 got to build a new plant.

856 You are saying you can bring this back if the -- without big capital investments. You don't  
857 have capacity -- you have to do some, I get it, but you just need the right price signal to do it, which  
858 the Tax Code can help you get there.

859 Mr. Murphy. The Tax Code can help, and then the price signal that, you know, we could work  
860 on with PBM reform and other areas that this committee has worked on could certainly help.

861 But, yes, there is finish-fill capacity in the United States that could be turned on, and as  
862 Mr. Cashman said, would take, you know, far less than the 5 years that it would take to build a new  
863 facility.

864 The Chair. So, Mr. Cashman, you have the capacity as well or you would have to build new  
865 facilities to bring production back?

866 Mr. Cashman. Yes, we have significant capacity. We have over 390,000 square feet, and we  
867 are using a fraction of that at this point.

868 The Chair. So being a supply chain person, as I just said, if somebody says, hey, we are going  
869 to bring this back, it can be short term or long. You said you can do it pretty quickly if the right  
870 pricing or the right investment opportunity was there, right? Which the Tax Code gives you that.

871 Mr. Cashman. Yes, Chairman Guthrie, with the right pricing and the right economic  
872 incentives, we can bring this production capacity back online.

873           The Chair. In your testimony, is the current -- what we passed out of the House is sufficient  
874 for you to start making those decisions?

875           Mr. Cashman. Well, Chairman Guthrie, I am an expert on production. I live and breathe  
876 producing amoxicillin. I believe it is going to be helpful to us to allow us to deduct these investments  
877 more quickly, yes.

878           The Chair. Okay. Thank you. Yeah, then if you -- yeah, the investment -- and some of you just  
879 have capacity you have already invested, so that is a different animal. Okay. I understand.

880           So, Dr. Piervincenzi, I am looking at advanced manufacturing technologies. Could you provide  
881 some examples of how AMTs, or advanced manufacturing technologies, have been or could be  
882 utilized successfully to modernize and localize and stabilize your domestic production and, therefore,  
883 reduce our overseas dependence?

884           Dr. Piervincenzi. Thank you, Chairman Guthrie. And I think this is a question that maybe goes  
885 to the second half, the first half being dormant capacity. But at some point, that runs out.

886           The next step is, how do we build new capacity? And I think that is where the advanced  
887 manufacturing comes into play, to create a system that produces even better, higher quality  
888 medicines with a lower labor rate and a lower footprint, which gives it an advantage, especially in  
889 countries with higher income levels.

890           The second piece to that is that where the U.S. lags the furthest behind is in API and then  
891 even more so in the Key Starting Materials. And in those spaces, it is probably the only solution that  
892 would be able to domestically increase the production is through these advanced techniques. And  
893 they are advanced for pharmaceutical industry. They are not really advanced in the world. The  
894 automotive industry has been doing it for many decades now.



895           And the last thing I would say is, where is it happening? It is happening with innovator  
896 medicines that have higher margins and able to make the capital investments. Where it is not  
897 happening is for generic drugs where we see the shortages.

898           The Chair. Right. Thank you.

899           And my time has expired, and I yield back.

900           Mr. Carter of Georgia. The gentleman yields back.

901           The chair now recognizes the ranking member of the full committee, Representative Pallone,  
902 for 5 minutes of questioning.

903           Mr. Pallone. Thank you, Mr. Chairman.

904           It is difficult for me to have a discussion about the medical supply chain in the midst of the  
905 chaos and destruction that the Trump administration and the Republican big ugly bill is causing to our  
906 public health infrastructure.

907           I mean, the chairman talks about how, you know, the big ugly bill is going to help  
908 manufacturing more drugs, but the CBO says 16 million -- more than 16 million Americans aren't  
909 even going to have health insurance. How are they going to buy any? How are they going to, you  
910 know, get any drugs or get any healthcare if they have no health insurance? So I don't  
911 understand -- you know, these things are intertwined, and you can't talk about them separately.

912           I wanted to ask the Former Assistant Secretary O'Connell, you noted in your testimony that  
913 bolstering domestic manufacturing requires highly competent Federal employees who understand  
914 both economics and healthcare.

915           I had two questions. Why are highly skilled and trained Federal workers so critical to this  
916 mission, and impact -- what impact does it have when that expertise and experience are lost? And,  
917 second, do the Federal layoffs make us more vulnerable to shortages or supply chain challenges?

918 I have more questions, so briefly, if you will.

919 Ms. O'Connell. Absolutely. Just to say that that is a highly specialized skill that we had within  
920 HHS to be able to understand market dynamics, economics, push/pull incentives across the health  
921 supply chain, and to have staff that understood both and are able to work across both and pick the  
922 right investments has been really important and a unique skill set that we were pleased to have in  
923 ASPR and is necessary.

924 Mr. Pallone. Well, thank you, Ms. O'Connell.

925 I would also like to briefly touch on the Hospital Preparedness Program, which is operated by  
926 ASPR, and is one of the key preparedness programs typically reauthorized as part of the Pandemic  
927 and All-Hazards Preparedness Act. However, as I noted earlier, congressional Republicans walked  
928 away from an agreement to reauthorize PAHPA last year.

929 Hospitals, obviously, play a key role in securing the supplies, medicines, and equipment  
930 necessary to care for patients -- I guess that is pretty obvious -- and they are important actors in the  
931 supply chain. However, in just another example of how the Trump administration is decimating  
932 public health, the fiscal year 2026 budget proposed to eliminate funding for the Hospital  
933 Preparedness Program.

934 So, again, Ms. O'Connell, can you provide some examples for how HPP has been utilized in  
935 response to past public health emergencies and disasters, and what would be the impact of  
936 eliminating the Hospital Preparedness Program?

937 Ms. O'Connell. Well, HPP is the only source of Federal funding that hospitals and healthcare  
938 coalitions have to be prepared, and they have used that funding to run exercises and to be prepared  
939 for hurricanes, for cyber attacks.

940           We saw recently in October there was a case of Lassa fever that was imported to Iowa. The  
941 hospital, because it had its preparedness mechanisms in place, was able to contain the Lassa to the  
942 one patient, and it didn't spread throughout the hospital or into the community.

943           So having hospitals that can identify challenging pathogens is critically important and to know  
944 how to respond in those times. And this healthcare funding, the HPP funding, is the only source of  
945 Federal funds that allows them to do that.

946           Mr. Pallone. And, of course, I saw this vividly during the COVID epidemic, right. I mean, I  
947 literally -- I am sure most members of this committee on both sides of the aisle spent so much time  
948 trying to, you know, get our hospitals so that they had the equipment, they had the, you know,  
949 supplies that were necessary which were in such shortage during COVID.

950           And so, you know, this idea of having no Hospital Preparedness Program, to me, I can't  
951 imagine anything that is as destructive in the event of a natural disaster or another epidemic. I  
952 mean, to me, it makes absolutely no sense to have a level of preparedness. But, again, I go back to  
953 the same thing again. We are talking about the tax implications of this big ugly bill and how they are  
954 going to provide more domestic manufacturing, but at the same time we are firing people who are  
955 going to run the programs. We are saying that we don't need our hospitals to be prepared.

956           You know, what I don't understand -- and I know I keep saying it over and over again -- is  
957 these hearings -- not that there is anything wrong with the hearing, but you have to recognize that  
958 these things are all intertwined, right. You can't say we are going to increase supply chains and  
959 domestic manufacturing when you don't have the people available to actually do the work, you  
960 know, to make sure that we are prepared.

961           And I just -- I just -- I don't expect you to respond because I think you already have, but I  
962 just -- I have to say, Mr. Chairman, I just don't understand how there is so much silence on the

963 Republican side to all these concerns about people losing their health insurance and not  
964 being -- hospitals not being prepared. Cuts that come from the Medicaid, Medicare, ACA cuts that  
965 are going to occur with this big ugly bill.

966 I yield back the balance of my time, Mr. Chairman.

967 Mr. Carter of Georgia. The gentleman yields back.

968 The chair now recognizes the vice chair of the subcommittee, Dr. Dunn, for 5 minutes of  
969 questioning.

970 Mr. Dunn. Thank you very much, Mr. Chair, and thank you to our witnesses for being here  
971 today.

972 Over a 30-year career of medicine, I have become familiar with the complex healthcare supply  
973 chain that produces our essential drugs and products that Americans rely on. Reliable domestic  
974 supply chain not only serves to ensure the health of American people, it is a national security priority.

975 As a member of the House Select Committee on China, I am very aware of the extent to which  
976 Americans become reliant on foreign entities to supply our country's medical needs. The Chinese  
977 Communist Party has made an intentional and coordinated effort to become a force in the  
978 biomedical production world.

979 The United States has been a long-standing leader on research and development, and that did  
980 not happen by accident. It was driven by policy choices that reflect our values, that promote  
981 continued discovery. It is clear to me that those values also mean that the United States should be a  
982 leader in the production of those critical medicines. We must ensure that America remains at the  
983 forefront in biopharmaceutical manufacturing to protect our supply chain and bring American  
984 innovative cures to our patients in a safe and reliable manner, especially at a time when China is fast  
985 on our heels.

986           Mr. Cashman, it seems to me that domestic antibiotic manufacturing should be a  
987           fundamental priority for this committee. I also believe that the Federal Government can play a role  
988           in ensuring a domestic supply of other critical products. I find it troubling that under the former  
989           administration, the HHS made a \$40 million award to a foreign amoxicillin producer when there was  
990           a domestic manufacturer available.

991           In your experience, do Federal contractors appropriately take into account made in America  
992           when determining Federal awards?

993           Mr. Cashman. Thank you, Vice Chairman Dunn. That is an excellent question. Let me  
994           respond to that.

995           The focus is primarily on pricing by the Federal Government, but I think it is something that  
996           the Federal Government has to take a much broader view and look at security of supply, national  
997           security issues, and to ensure America has access to quality medicines made in the United States.

998           So I think it is something that needs to be reevaluated and perhaps put more emphasis on the  
999           sourcing of medications from manufacturers within this country.

1000           Mr. Dunn. By the way, I want to make a side comment here. I think the source is important,  
1001           the supply chain is important, the control of it, but also the quality is. And I don't think we do  
1002           enough independent -- and I mean independent third-party testing on all these products.

1003           I have seen reports on this -- DOD is doing a study on it -- that actually is pretty clever in  
1004           showing some very wide disparities in quality, both quantitatively and qualitatively, in generic drugs  
1005           that are produced by different manufacturers and are being sold legally -- legally in this country. So  
1006           that is just a side comment.

1007           I also want to make a final comment, if I may, to Ms. O'Connell. Having previously served as  
1008           the ASPR, the Assistant Secretary for Preparedness and Response, and the person in

1009 comment -- rather, in charge of the Strategic National Stockpile, I am troubled, but it was your team  
1010 in the Biden administration who chose not to support the last remaining end-to-end domestic  
1011 manufacturer of amoxicillin.

1012 It is a story that I heard too many times during the last 4 years in which it looks like we  
1013 mismanaged the Strategic National Stockpile, repeatedly misaligned our contract decisions. And,  
1014 honestly, I think the Office of ASPR repeatedly was slow in awarding Federal contracts to  
1015 delays -- you know, which leads to delays, unreliable supply chains for the manufacturers.

1016 And I believe our Federal agencies can play a critical role in ensuring that markets for the key  
1017 medical products remain viable. I also believe it is necessary for our safety and our national security.

1018 I see my time is up. Mr. Chairman, I yield back.

1019 Mr. Carter of Georgia. The gentleman yields.

1020 The chair now recognizes the gentleman from California, Dr. Ruiz, for 5 minutes of  
1021 questioning.

1022 Mr. Ruiz. Thank you, Mr. Chairman.

1023 As an emergency medicine physician, it has always been my top priority in Congress to  
1024 improve patient access to high quality and affordable healthcare. We have made great strides  
1025 towards this goal, but these efforts are mute if we cannot ensure a readily available supply of  
1026 medications patients desperately need.

1027 In the emergency room, I have witnessed firsthand the dire implications that shortages of key  
1028 medications have on the lives of my patients. For patients suffering from infections or trauma or  
1029 fighting against cancer, this can be a matter of life and death. In fact, I remember times where we  
1030 have a patient with respiratory distress after a trauma and we didn't have succinylcholine, a paralytic  
1031 that we use to intubate a patient. And when you are used to using succinylcholine and have to use

1032 another drug that has a higher side-effect profile and more contraindications, then you have to think  
1033 for a moment and take time to assess what you are doing. And in the emergency department, time is  
1034 of the essence, as you all know. So it definitely creates complications.

1035 And even if medications are not in short supply, affordability remains a significant barrier to  
1036 care, and safety is paramount. So that is why we need to act in order to strengthen the supply chain  
1037 for critical medications. This includes bolstering domestic production, but it is crucial that we do so  
1038 in a way that will not raise costs for patients and will not jeopardize the safety of these medications.  
1039 It is important to think about geographic diversity in manufacturing.

1040 Let's remember the alarming impact on the availability of IV fluids back in late 2024 due to  
1041 the critical damage the Baxter facility in North Carolina sustained during Hurricane Helene. Baxter  
1042 supplies roughly 60 percent of the IV fluids used in North America. When just one manufacturing  
1043 facility was damaged, supply was restricted, and hospitals across the country faced shortages. And I  
1044 remember speaking to desperate CEOs of the hospitals in my district very concerned about patient  
1045 quality care during that shortage.

1046 Ms. O'Connell, can you share some lessons learned from your experience as Assistant  
1047 Secretary for Preparedness and Response during the aftermath of Hurricane Helene, particularly with  
1048 respect to the importance of geographic diversity and manufacturing critical medical supplies?

1049 Ms. O'Connell. Absolutely. Thank you, Congressman.

1050 So, of course, we were not invested in Baxter. Baxter was a private company. But when we  
1051 were making investments in domestic manufacturing, we made sure that we had regional diversity in  
1052 the investments that we made, so we weren't putting the manufacturers of similar products in the  
1053 same regions that could potentially be impacted by either a hurricane down South, ice storm up

1054 North, wildfires out West. It was critical that we had our investments spread out across the country.

1055 That was one of the things that we tried to do.

1056 When it came to Baxter, we did a couple of things. We helped them import their IV solutions  
1057 that were manufactured in other parts of the world. We --

1058 Mr. Ruiz. So what can we do as legislatures to help --

1059 Ms. O'Connell. Right.

1060 Mr. Ruiz. -- with the geographic diversity?

1061 Ms. O'Connell. So I think it would be important to encourage the private industry, those that  
1062 we don't have levers with, but that act on their own to seek geographic diversity.

1063 I think Baxter would absolutely agree -- I know they are not here today -- that it would be  
1064 important moving forward that they don't have just one plant manufacturing 60 percent.

1065 Mr. Ruiz. Okay. So we have talked about the importance of geographic diversity and  
1066 safeguarding medical supply chains, but how do we do that on American soil while also ensuring the  
1067 safety and affordability of medications?

1068 So the answer is certainly not dismantling FDA and firing thousands of Federal workers that  
1069 support key roles and responsibilities in ensuring the safety and efficacy of medications Americans  
1070 rely on, like the Trump administration has done. The answer is not slashing protections and  
1071 inspections to ensure the safety. And tariffs will raise prices on the components of the supply chain,  
1072 vials and tubings, et cetera, which will raise prices.

1073 So the Trump administration is calling for looser regulations or weaker protections that are in  
1074 place to keep patients safe within that executive order. Inspections and safety standards are vital to  
1075 ensuring the safety of medicines we rely on.



1076 Mr. Murphy, do you believe that we should have fewer inspections of manufacturing  
1077 facilities, and how does that lead to better quality? And does the Association for Accessible  
1078 Medicines and your member companies want clear regulatory guidance from Federal regulators?

1079 Mr. Murphy. Thank you, Dr. Ruiz.

1080 We support a strong FDA with a strong inspections division. It provides certainty to the  
1081 marketplace that there is quality built into the overall inspection process. And so we support FDA  
1082 having more resources in the inspection space to do their work.

1083 Mr. Ruiz. And you do not support reducing the inspections?

1084 Mr. Murphy. Certainly, we -- certainly, we understand that there are different priorities  
1085 across the agency, but from an inspections standpoint, that is a very critical component of our work.

1086 Mr. Ruiz. Thank you. I yield back.

1087 Mr. Dunn. [Presiding.] The gentleman yields back.

1088 I now recognize the gentleman from Virginia, Mr. Griffith.

1089 Mr. Griffith. Thank you very much, Mr. Chair.

1090 Ms. O'Connell, a nitrile glove manufacturer in my district is aiming to create the first domestic  
1091 facility to create both the base nitrile glove ingredients and production of the final nitrile glove.

1092 Their initial application was just for glove production, but it is my understanding from them  
1093 that HHS and DOD encouraged them to expand their production capabilities to do both the final  
1094 production of gloves and base ingredients for the glove manufacturer, which they did. However, HHS  
1095 only provided a grant for a period of the expanded capabilities cost and has not provided additional  
1096 assistance to help with the completion of the dual project, which is necessary for them in order to  
1097 begin production.

1098 Does HHS not view it as their responsibility to see this project fully through?

1099 Ms. O'Connell. Thank you, Mr. Griffith.

1100 The investments in glove manufacturing were extraordinarily challenging. The grant that you  
1101 mentioned was made by the first Trump administration, and they did it in accordance with an  
1102 assisted acquisitions relationship they had with DOD.

1103 So DOD competed and then managed that contract. They set it up as a firm-fixed-price  
1104 contract, which means as there were cost overruns in the development of the manufacturing site, no  
1105 additional money could be added to that contract. DOD decided at the completion of the contract  
1106 that it was done and complete. And if we were going to add additional money, we would have to  
1107 recompetite in an entirely new contract. We -- and I think everybody is aware of this. I have come to  
1108 Congress many times to talk about the funding that was needed in order to make those additional  
1109 investments.

1110 At this point, the office that is managing our supply chain has \$10 million identified in the next  
1111 budget. That is not enough to be able to bring that glove manufacturing on board.

1112 Mr. Griffith. So you will work with me to figure out ways that we can get that plant finished?  
1113 Because we have got this beautiful facility that is not finished and, therefore, no jobs and no real  
1114 asset for the community. All right. Thank you.

1115 I truly believe that having a real buy American policy for government agencies on masks,  
1116 gowns, and other PPE will stimulate American manufacturing and decrease the likelihood of  
1117 shortages if we have another situation similar to COVID.

1118 Does any witness disagree with me on that? Raise your hand if you disagree. I will give you a  
1119 minute.

1120 All right. I didn't think you would, and I do appreciate that.

1121           Again, Ms. O'Connell, as we have heard today, the U.S. is incredibly too reliant for active  
1122           pharmaceutical ingredients from foreign countries, specifically China and India. This is a serious  
1123           national security threat.

1124           One solution is from a company in the Richmond area named Phlow, P-h-l-o-w, who is in  
1125           partnership with the Federal Government to bring the U.S. to a competitive advantage with foreign  
1126           countries to produce fully domestic essential medicines.

1127           What other incentives and policies can be implemented to not only support these efforts but  
1128           also encourage other companies to follow suit?

1129           Ms. O'Connell. Thank you, Congressman.

1130           So the Phlow contract is one that we spent a lot of time with and were very pleased with the  
1131           outcome of what they have been able to do. I think that is a perfect example of some of the ways we  
1132           need to work moving forward.

1133           Bringing the incentives there to Richmond was critical, and the proposal to have some sort of  
1134           stockpile of those active pharmaceutical ingredients, I think, is something that the U.S. Government  
1135           should pursue moving forward.

1136           Mr. Griffith. I appreciate that. I am going to switch gears a little bit on you. Has HHS  
1137           considered starting a pilot program where they would ship close to expiring PPE, et cetera, in the  
1138           Strategic National Stockpile to a rural hospital, so instead of throwing them away, we can actually get  
1139           some benefit out of it?

1140           Ms. O'Connell. Well, we looked at that, and I think that is absolutely right. We are trying to  
1141           encourage the SNS to think in innovative ways. Some of what we found was not everybody was  
1142           interested in just-about-to-be-expired PPE. They wanted new PPE. But we continue to push on that.

1143 Of course, I am not in a position to make those decisions now but would, you know,  
1144 encourage my former colleagues to consider it.

1145 Mr. Griffith. I appreciate that greatly.

1146 Mr. Cashman, it is great to see you again. While your operation is technically in Mrs.  
1147 Harshbarger's district, I would suspect that at least 40 percent of your employees are probably living  
1148 in my district since you are so close to the line that you could probably walk from your facility to my  
1149 district without any great difficulty.

1150 At the meeting that we had previously, you mentioned how HHS awarded a company a  
1151 contract that might not have been a fully domestic manufacturer. Can you explain that briefly,  
1152 because my time is about up?

1153 Mr. Cashman. Congressman Griffith, effectively, yes, you could walk from our plant to  
1154 Virginia.

1155 Yes -- regarding that contract, yes, the best of our knowledge, we understand that that  
1156 company imported API, active pharmaceutical ingredient, from China, and we don't know where it  
1157 was manufactured, but it was effectively the only company that was awarded a contract for the SNS.

1158 Mr. Griffith. And you don't do that. Is that correct? You don't import your API from China?

1159 Mr. Cashman. No, sir. We import our API from Europe. Thank you.

1160 Mr. Griffith. All right. I appreciate it. My time is up. I must yield back.

1161 Mr. Dunn. The gentleman's time has expired.

1162 And I now recognize the gentlelady from California, Ms. Kelly.

1163 Ms. Kelly. I am from Illinois, but thank you. I am Illinois. Thank you, Mr. Chair and Ranking  
1164 Member DeGette, for holding today's hearing.

1165           The stability of our healthcare supply chain is not only an economic issue but one deeply tied  
1166 to national security and public health. Health systems, providers, and patients alike have all felt the  
1167 strain caused by the waves of drug shortages.

1168           Over the past decade, we have witnessed chronic underinvestment in public health  
1169 infrastructure, notably during both of the Trump administrations. In 2019, the Strategic National  
1170 Stockpile faced budget constraints even as warnings mounted about supply vulnerabilities.

1171           Now, in his second term, under his bill is an attempt to reduce Food and Drug Administration  
1172 funding by \$200 million. The Trump administration and RFK are actively undermining our ability to  
1173 support supply chain resiliency by gutting the Federal workforce and dismantling key responsibilities  
1174 within the FDA. This uncertainty poses a significant risk to the FDA's ability to effectively oversee  
1175 critical functions and threatens the integrity of our healthcare supply chain.

1176           Ms. O'Connell, thank you for your work on equity and access to care during your time under  
1177 the Biden-Harris administration.

1178           Apart from the devastating impact to America's R&D and innovation, how will cuts to our  
1179 public health agencies impact our ability to strengthen our domestic supply chain and reduce our  
1180 dependence on China, who is actively supporting R&D and innovation?

1181           Ms. O'Connell. Well, as we have talked about today, Congresswoman, the innovation is going  
1182 to be critical to us being able to afford to reshore some of the production that has left our shores  
1183 over the last 50 years. And in order to invest in that innovation, we need to have the research and  
1184 development in place.

1185           Cuts to the administration -- you know, to what we are seeing in HHS are impactful in a lot of  
1186 ways in our preparedness and response efforts. You know, in order for us to have the tools we need  
1187 ready to go, we need to be able to invest both in the advanced research and development of those

1188 tools, as well as the stockpile and procurement of those tools. And with limited funds, we are unable  
1189 to do what we were able to do before.

1190 I continue to say "we." Of course, it is not we anymore; it is they. But just a reflection on  
1191 what the U.S. Government is going through right now.

1192 Ms. Kelly. Thank you so much.

1193 A recent Brookings report titled, The Wild East of semaglutide, raised concerns about the  
1194 safety of compounded GLP-1 products, particularly those sourced from overseas manufacturers that  
1195 have not been inspected by the FDA. Some of these products were found to contain unidentified  
1196 impurities with limited regulatory oversight in place.

1197 Given these findings, can you also speak to the risks those pose to patient safety and whether  
1198 stronger safeguards are needed in the supply chain? Ms. O'Connell.

1199 Ms. O'Connell. I am sorry. Can you please --

1200 Ms. Kelly. What I was asking about is, there was a question about the safety of compounded  
1201 GLP-1 products, particularly those sourced from overseas. How safe are those? Because there is  
1202 questions around FDA and their ability to inspect.

1203 Ms. O'Connell. Absolutely. So seeing these FDA cuts is -- you know, one of the impacts of  
1204 that is that we are not able to secure and make sure that our products are as safe as they should be.  
1205 And I think that is extraordinarily impactful for the country.

1206 Ms. Kelly. It is very scary. Thank you.

1207 According to the DOGE Terminated Contracts Dashboard, on April 25, DOGE canceled four  
1208 major contracts with U.S.-headquartered genomic sequencing companies who are responsible for  
1209 tracking coronavirus variants in the United States and from 25 other nations around the world.

1210 Ms. O'Connell, do you believe that cutting the laboratories that provide over 80 percent of  
1211 the CDC's critical data for public health response enhances our safety and preparedness? Excuse my  
1212 voice.

1213 Ms. O'Connell. Making those cuts does not enhance our safety and preparedness. We need  
1214 that surveillance to know what is coming next, and it is critical that we are able to do the genomic  
1215 sequencing in order to see what is coming.

1216 Ms. Kelly. Thank you very much. Thanks to the witnesses.

1217 And I yield back.

1218 Mr. Dunn. The gentlelady yields back.

1219 And I recognize the gentleman from the great State of Florida, Mr. Bilirakis.

1220 Mr. Bilirakis. Thank you very much. Appreciate that, Mr. Chairman. Thank you again for  
1221 holding this hearing on this very critical issue.

1222 The healthcare supply chain is incredibly complex, and we need to do more to protect our  
1223 supply chains from vulnerabilities. This is not only a health issue but a national security issue. Public  
1224 health and wellness should not depend on foreign adversaries, plain and simple.

1225 I am proud to be a founding member of the American-Made Medicines Caucus with my good  
1226 friend, Chairman Buddy Carter, and look forward to advancing key policies on this particular issue.

1227 I am also encouraged to hear that we are already making progress to invest in domestic  
1228 manufacturing. Last year, I had the privilege to visit Med-Nap, a company in my district that  
1229 specializes in saline and medical-grade wipes. This company has recently expanded and has  
1230 significant plans to expand further but struggles to compete with China, unfortunately.

1231 We must protect American leadership and innovation with regulatory and market certainty. I  
1232 look forward to learning from you today, the witnesses, and already have.

1233 But the first question is for Dr. Piervincenzi. Your organization has unique visibility into the  
1234 domestic pharmaceutical supply chain. Your testimony mentions, and I quote, a fundamental shift in  
1235 the market is needed to align supply and demand forces.

1236 Can you provide more detail on the types of incentives needed to make this shift, please?

1237 Dr. Piervincenzi. Thank you, Congressman. I appreciate that opportunity.

1238 Mr. Bilirakis. Of course.

1239 Dr. Piervincenzi. USP is working in a public-private partnership to address two sides of this:  
1240 the incentives that you describe on the one hand and then the capacity on the other.

1241 On the incentives side, the incentives really come back to the buyers. We need -- the buyers  
1242 need to be incentivized to make the investments in resilience, which means to purchase medicines  
1243 where they can rely on the quality, where they can have a higher expectation of consistency, and not  
1244 only purchase on price. However, those buyers today don't have the data that they need to make  
1245 that choice, and simply paying more for the same medicine achieves nothing except wasting patients'  
1246 money.

1247 And, therefore, what we also need -- the second part of this -- are a set of benchmarks that  
1248 can describe what does consistent quality look like. How do we consider things upstream? For  
1249 example, a manufacturer who buys their API from trusted sources in Europe or from two locations  
1250 rather than from an adversary. These become factors. And a variety of those factors can result in  
1251 something that would be rewarded through a better contract.

1252 So these are the two pieces that we are putting forward when we talk about our supply chain  
1253 resilience initiative -- benchmarking initiative. Sorry.



1254 Mr. Bilirakis. Thank you. Again, sir, would it be helpful for the Federal Government to  
1255 conduct a national security assessment on the location and volume of APIs and Key Starting Materials  
1256 in countries of concern that are used to make drugs for the U.S. market?

1257 Dr. Piervincenzi. Absolutely. Yes. And, fortunately, we are in a position to be able to do that  
1258 now. We wouldn't have been able to 5 years ago.

1259 USP has already completed mapping nearly all locations for APIs for 94 percent of U.S.  
1260 medicine. We are in the process and only need a few more months to complete the KSM analysis,  
1261 which is essentially where are the current Key Starting Materials coming from for those APIs.

1262 The typical medicine today, if you randomly pick something off a shelf in a pharmacy, would  
1263 probably be a solid oral dosage, a pill, made in India with an API or at least a Key Starting Material  
1264 coming from China.

1265 And so this mapping has to go upstream to that last step. And then -- then we are not done.  
1266 Then we have assessed risk. Next step, we begin the process of fixing the problem, which partly  
1267 could be figuring out different ways to make those APIs.

1268 And so perhaps the only Key Starting Material in the world for a certain antibiotic is from  
1269 China. Well, let's make it a different way. Chemistry will allow different pathways, and new  
1270 technologies for manufacturing allow us to use those new pathways.

1271 And then the final thing is that the benefit of chemistry is it doesn't change. So we only have  
1272 to do that work once, and then we have a permanent database that we can use for the entire  
1273 medicine supply to find alternative roots. And this is within our reach, in a couple of years, for  
1274 fractions of a billion, less than 100 million. It is right here, and it is available today.

1275 Mr. Bilirakis. Very good. Thank you.

1276 I yield back, Mr. Chairman.

1277 Mr. Dunn. The gentleman yields back.

1278 I now recognize the gentlelady from Washington State, Dr. Schrier.

1279 Ms. Schrier. Thank you, Mr. Chairman. Thank you to all of our witnesses. This has been such  
1280 an interesting discussion.

1281 Before I start, I just need to make a couple comments. I want to open today just about recent  
1282 news and to voice my deep frustration with HHS Secretary RFK, Jr., for unilaterally and just  
1283 unjustifiably firing all 17 members of the Advisory Committee on Immunization Practices. And,  
1284 Mr. Chairman, I would like to know if you will commit to having a hearing on this issue.

1285 Mr. Dunn. I will take that up with the chairman.

1286 Ms. Schrier. Thank you. In addition, on the same topic, as a pediatrician, I cannot help to  
1287 mention that these policies of RFK, Jr., to discourage vaccinations may well decrease or eliminate the  
1288 U.S. production of vaccinations, which I would consider just as, if not in some cases, more important  
1289 than having all medications developed and manufactured here in the United States. And I just  
1290 shudder to think about this in the context of a future pandemic, which will probably not take too long  
1291 to arrive on our shores.

1292 And then I also want to mention -- because we have been talking a lot about antibiotic  
1293 shortages in particular, and I wanted to tie vaccines to that. Because although there are some  
1294 diseases that just cannot be treated -- I mean, we are talking about measles and polio and  
1295 others -- they can't be treated with medications.

1296 Like, I personally have seen what the HIB, Haemophilus influenzae B, vaccine has done in  
1297 terms of preventing, not just ear infections, but meningitis and something called epiglottitis, where  
1298 the epiglottis swells so much that kids cannot breathe until they get intubated. That is virtually gone

1299 now. I have never seen a case of that. And that would have required the antibiotics we are talking  
1300 about today.

1301 I think about the pneumococcal vaccine and what that has done. Also for sepsis, meningitis,  
1302 pneumonia, ear infections, and how that has, not only decreased deaths, but has also decreased our  
1303 reliance on some of these medications.

1304 So I just had to close that loop and make it clear that vaccinations also need to be part of our  
1305 healthcare strategy and domestic manufacturing.

1306 Okay. On the topic that we are talking about today about having domestic manufacturing,  
1307 and also, you know, we don't want to depend on our adversaries. I would say nearshoring is another  
1308 important strategy when we are talking about this.

1309 And I love the concept of the buy American incentive. I think that will work well, especially  
1310 because Medicaid, Medicare, VA, TRICARE make up such a big part of our healthcare system that if  
1311 we only did that on the governmental level and dealt with PBM reform, I think that would go a long  
1312 way to achieving what we are all hoping for today.

1313 I also like that you talked about the other incentives, and I think Operation Warp Speed is  
1314 really a perfect example of how government incentivized manufa- -- research development,  
1315 manufacturing of vaccines that have saved millions of lives. I think that has been forgotten in this  
1316 country, but that that was incredible.

1317 I also will mention that ACIP also vetted those vaccines and is directly tied to saving millions of  
1318 lives.

1319 Ms. O'Connell, it is great to see you again. I was wondering if you could first just discuss how  
1320 Federal research over decades led to development of the COVID vaccines in less than a year, record  
1321 time?

1322 Ms. O'Connell. Well, that is exactly right. And one of the things I think people forget is that  
1323 when the Trump administration first started Operation Warp Speed, they invested in several -- an  
1324 entire suite of candidates of various platforms, and each of those platforms came through some early  
1325 research work that NIH did and some advanced research and development that BARDA did.

1326 So the government was critical in helping to see the success of each of those platforms come  
1327 through. It turned out that the mRNA platform was the one that moved us quickly. You know, you  
1328 mentioned the one that was done within 11 months. That was -- we were able to -- the Trump  
1329 administration at that time was able to push that research through and develop that vaccine, and it  
1330 did provide significant protection for millions of Americans.

1331 Ms. Schrier. Thank you. And just to double-click on that, NIH research over 10 years led to  
1332 that, and China is currently seeking access to that technology.

1333 Okay. Last, government strategy in terms of having manufacturing facilities. I found it so  
1334 interesting that there is all these retired manufacturing facilities out there that aren't being used that  
1335 could be rehabilitated that could speed this path. And I just wanted to just drill down a little.

1336 Is it possible for, like, a given manufacturing facility to kind of shift lines to produce different  
1337 kinds of medications, and has there been a strategy developed about which facility could  
1338 manufacture what car facility produced ventilators?

1339 Go ahead and answer. Anyone.

1340 Dr. Piervincenzi. Sorry about that, Dr. Schrier.

1341 So to some degree, within a type of medicine. So physically, rather than how it treats. So  
1342 solid oral dosage form, a sterile injectable, saline; these will be quite different. However, switching  
1343 from one type of -- within a similar bucket becomes much more feasible and faster.

1344 Ms. Schrier. That is great. I have to yield back, but I like that reassuring answer. Thank you.

1345 I yield back.

1346 Mr. Dunn. The gentlelady yields back.

1347 I now recognize the gentleman from Pennsylvania, Dr. Joyce.

1348 Mr. Joyce. Thank you, Mr. Chairman. And thank you to our panel for appearing here today  
1349 on such an incredibly important topic.

1350 With President Trump's executive orders aimed at increasing domestic manufacturing and  
1351 more resilient supply chains, we have seen a multitude of new investment announcements in the  
1352 U.S., specifically in the pharmaceutical space. It is for this reason that I am glad this subcommittee is  
1353 reviewing the issue today.

1354 Access to generic drugs is critical to American patients, as generic medications make up 90  
1355 percent of the prescriptions filled in the U.S. And they are essential to keeping costs down across the  
1356 healthcare system.

1357 During the 118th Congress, this committee put forward a number of ideas to strengthen the  
1358 supply chain and address drug shortages. One core provision in that legislation was to finally fix the  
1359 Medicaid generic drug inflation penalty. The incorrect application of an inflation penalty to the  
1360 generic drug market has resulted in drug discontinuations, shortages, and further instability in the  
1361 generic drug supply chain. This financial penalty can drive low-margin essential medicines into  
1362 negative territory, forcing manufacturers to leave markets, which ultimately leaves the patient  
1363 without the medicines that they need.

1364 Mr. Murphy, you mentioned this penalty in your testimony. Can you elaborate on how it  
1365 creates uncertainty for generic manufacturers and why reform is necessary in this specific area?

1366 Mr. Murphy. Well, Dr. Joyce, thank you for the question.

1367           And as, you know, we have said across our testimony, the generic marketplace has a number  
1368 of critical factors facing it that are negative. I would think from a -- at a broader level, though, when  
1369 we talk about domestic manufacturing, one of the things we really want to talk more about is how  
1370 we can move the markets to more appropriately treat generic medicines in the reimbursement  
1371 system.

1372           So we talk about PBM reform, we talk about domestic manufacturing incentives, because it is  
1373 really -- it is a critical component of the U.S. market that we don't do enough for. And so we would  
1374 love to follow up with your office and talk more about concrete steps we can take, but I think we look  
1375 at the overall picture of this hearing to say there are lots of structural problems in the market that we  
1376 need to address, and we hope to work with Congress collaboratively on a suite of reforms that we  
1377 can get to to ultimately make this market a more predominant force in the U.S. manufacturing base.

1378           Mr. Joyce. And I would welcome that, to open that dialogue, so we can make those concrete  
1379 steps forward.

1380           So as we talk about strengthening our pharmaceutical supply chain, I urge my colleagues to  
1381 also consider reforms that address the market challenges in the generic drug supply chain. We need  
1382 policies that reflect the realities of the market and support, not to stifle, access to affordable  
1383 medications. It is also important to acknowledge existing barriers that exist to reshoring  
1384 manufacturing in this space.

1385           Mr. Murphy, can you walk me through the average timeline and process to establish and  
1386 construct a facility in the U.S., starting from the initial decision to invest, permitting, inspection, to  
1387 fully opening and operating? How long does that generally take?

1388           Mr. Murphy. So based on our conversations with our manufacturing members, once you  
1389 have raised the capital, which is in and of itself a barrier in the generic market, you are looking at

1390 close to 5 to 7 years if you are going to build a new facility. And there are State laws that actually  
1391 come into play too that we really think we should talk about.

1392 Mr. Joyce. And do you have any estimate on the costs that are associated with these  
1393 processes, as well as the corresponding delays which occur because so many inputs have to be taken  
1394 into consideration?

1395 Mr. Murphy. Yes. So what we understand, in new facilities, right, a new API facility, you are  
1396 talking a couple hundred million dollars. And that is, you know, at a small scale. If we wanted to  
1397 start really scaling up, you know, it is a significant investment for our manufacturers.

1398 Mr. Joyce. That is a significant cost, and that is a long time. I must imagine that these  
1399 burdens play a role in making decisions about where companies should invest, especially when facing  
1400 those daunting costs.

1401 With my remaining time, Mr. Murphy, what are the top three regulatory burdens that we in  
1402 Congress could change to improve this process?

1403 Mr. Murphy. Yeah. Thank you for that question, Dr. Joyce.

1404 So, one, I think we need to streamline the regulatory review process both on the  
1405 environmental, the water quality, as well as the FDA inspections process. It doesn't mean limiting  
1406 the safety and effectiveness of FDA, but figuring out ways for more complex generic development to  
1407 be streamlined and prioritized at the agency.

1408 I think PBM reform, to try and take the stranglehold over pricing that is occurring in this  
1409 country back and put it back in the driver's seat for generic manufacturers is another.

1410 And then I think also prioritizing generic access once they become available on the market.  
1411 Too often products remain in a predominant position to provide access to patients over top of  
1412 generic approvals.

1413 And we could fix all three of those with this committee's help.

1414 Mr. Joyce. I look forward to beginning this process and to work with you. This committee is  
1415 dedicated to making sure our patients have access to affordable, efficient medications. I thank the  
1416 entire panel for presenting here today.

1417 Mr. Chairman, I yield back.

1418 Mr. Dunn. The gentleman yields back.

1419 I now recognize the gentlelady from Michigan, Mrs. Dingell.

1420 Mrs. Dingell. Thank you, Mr. Chair. Thank you for holding this important hearing.

1421 We have really realized -- the COVID-19 pandemic really showed the world how our supply  
1422 chains were disrupted significantly and how we must focus on bringing production home. It is a  
1423 public health safety issue and it is a national security issue, which too many people do not realize.

1424 Congress needs to ensure that we are prepared for what is to come, increase our ability to  
1425 onshore healthcare manufacturing, as we have very clear bipartisan agreement on, and respond  
1426 effectively to disruptions.

1427 It is critical to ensure healthcare providers have access to the medical supplies and the  
1428 prescription drugs that their patients rely on. And I think too many people do not understand how  
1429 drug shortages in this country are leaving thousands of patients in distress. No one should have to  
1430 panic and fight to find the medications their doctors know are necessary for their treatment.

1431 We must work, as everybody is talking about, to onshore pharmaceutical supply chains,  
1432 incentivize the production of generics, find ways to ensure we understand why shortages are  
1433 happening, getting earlier alerts, helping with broad distribution and many other issues.

1434 I am going to -- so I actually have more questions from some of your answers, but I will go to  
1435 my first one that I do want to say because one of our concerns -- my concern is the ability to achieve



1436 these solutions is extremely difficult, if not impossible, as a result of the drastic reductions in force of  
1437 \$400 million in budget cuts at the FDA proposed by the Trump administration. Without a strong FDA  
1438 workforce, we can't ensure we are safely and effectively doing the critical work needed to maintain  
1439 the safety of our drug supply chain.

1440 So, Mr. Murphy, the Trump administration has made these drastic reductions in the FDA  
1441 workforce. How have large-scale staff reductions affected the ability of the FDA to maintain this  
1442 prescription drug supply chain, and what long-term effects can we anticipate on our drug supply and  
1443 resulting costs for American patients?

1444 Mr. Murphy. Thank you for that question, Mrs. Dingell.

1445 We have seen delays already this year in the release of what are called product-specific  
1446 guidances, which are the critical components that generic manufacturers need to develop the  
1447 products to get them approved by FDA. And so that was, I think, the first backlog we saw at a very  
1448 material level. I will say, just last week, the FDA did start releasing those product-specific guidances  
1449 again, and so we are hopeful that we will continue to see that backlog eaten away at.

1450 But, you know, I will say as a representative of the generic industry, every month's delay of a  
1451 generic drug getting to market is a month that patients are paying more for branded drugs than they  
1452 should be for generic drugs.

1453 Ms. Dingell. I do have a question. And I am probably going to have to do a lot more questions  
1454 for the record. I am mainly concerned about the drug shortages that patients are currently facing,  
1455 and some just don't make sense to me.

1456 An example, an asthma drug that many pulmonologists now want to use has gone to generic,  
1457 but the generic is taking months. And you have got -- the supply chain is so complicated. But  
1458 pulmonologists are talking to me about how their patients can't get the generic, and the generic is

1459 more -- I wish I could remember the name of it. And it doesn't make sense. And yet it is a real  
1460 problem. And that is just one. There are about 20 other drugs I could name off the top of my head.

1461 Can you speak to how these cuts to our supply chain infrastructure will specifically impact the  
1462 ability to address existing and prevent future drug shortages?

1463 Mr. Murphy. Yes. So certainly, FDA's inspection capacity is critical to ensuring that products  
1464 can get to market. And, you know, we hope to see, as staff are added back to FDA -- which we  
1465 understand is occurring -- that those inspections will pick up.

1466 But I don't want to discount the fact that, in the drug shortages space, just for purposes of  
1467 clarity, that, you know, price in the generic market is a huge driver of drug shortages, and that is  
1468 something we would love to work with the committee to address.

1469 Ms. Dingell. We would love to get some specific recommendations on that.

1470 You know, Mr. Chairman, I am down to 29 seconds. So I guess what I am going to do -- I have  
1471 a lot of questions for the record, and we will -- and this is my partner in PBM reform, so we both  
1472 totally agree in a bipartisan way.

1473 Mr. Carter of Georgia. [Presiding.] Absolutely.

1474 Mrs. Dingell. I will yield back.

1475 Mr. Carter of Georgia. Thank you. The gentlelady yields.

1476 The chair now recognizes the gentleman from Ohio, Representative Balderson, for 5 minutes  
1477 of questioning.

1478 Mr. Balderson. Thank you, Mr. Chairman.

1479 Thank you all for being here today. I am looking forward to hearing some responses for my  
1480 questions, and I appreciate the innovation of quality care that is available to all Americans.

1481 I am proud to represent Ohio. Mr. Bolin talked about Ohio, a State that continues to support  
1482 innovation, investment, and domestic development, clearly impacting the patient community.

1483 Recently, I had the privilege of attending a groundbreaking in my district for Amgen's new  
1484 advanced manufacturing facility in New Albany, Ohio. And with Central Ohio being home to  
1485 McKesson's largest and most advanced pharmaceutical distribution center as well, I can proudly say  
1486 that the world's leaders in medicine are investing right here at home.

1487 The policies we work on should continue to support companies we choose to do business  
1488 here in the United States, allowing for innovations to be accessible to all Americans.

1489 Mr. Bolin, my first question is for you, and thank you for being here. And I apologize for  
1490 running back and forth between meetings.

1491 I have led bipartisan letters to the FDA twice, raising question about the industry's ability to  
1492 comply with the drug chain supply security act and warning of possible drug shortages and supply  
1493 chain disruptions if the FDA fails to act ahead of the enforcement deadline of the DSCSA. I know  
1494 progress has been made since the implementation process began, and as of 2024, the FDA  
1495 announced a set of phased exemption periods that will expire on different dates this year.

1496 Given your background, I am curious to hear from you about the importance of this process,  
1497 as well as the importance of ensuring the supply chain remains uninterrupted as the exemption  
1498 periods come to an end.

1499 Mr. Bolin. Sure. Thank you, Congressman.

1500 So as you mentioned, last year, FDA has implemented this more of a phased implementation  
1501 process for full implementation of drug traceability throughout the supply chain. The manufacturer  
1502 exemption actually just expired less than a month ago, and so manufacturers now have to fully  
1503 comply with the law.

1504           The next expiration period comes up for both distributors and for pharmacies later this  
1505 summer. And FDA has been holding a number of townhall meetings and listening sessions from each  
1506 of the sectors to try to understand where each of the sectors stand moving toward implementation.

1507           The manufacturing community, I think, by and large is and was ready. Major distributors are  
1508 well on their way. And there are going to be some questions about where the pharmacy community  
1509 is when it comes to compliance. Many of the larger chain pharmacies have already, you know, come  
1510 into compliance, by and large. The smaller independent community pharmacies are likely going to be  
1511 leaning on their small dispensary exemption that they have, which gives them until next year.

1512           Of course, the concern with that is that the longer it is for the supply chain to come into full  
1513 compliance, the more susceptible it is for illicit products making their way into the legitimate supply  
1514 chain, as we have seen with the GLP-1 medications in Arkansas and in Mississippi. And we have seen  
1515 more recently HIV -- counterfeit HIV medications making their way into pharmacies in New York.

1516           So the longer the implementation takes, the more concern there certainly is.

1517           Mr. Balderson. Okay. Thank you. Appreciate that.

1518           Dr. Piervincenzi -- I hope I said that correctly, sir. I mean no disrespect -- thank you for being  
1519 here today also.

1520           We know that a recent analysis showed that around half of the active pharmaceutical  
1521 ingredients, APIs, for prescription medications in the U.S. come from India and the EU, with around  
1522 12 percent being manufactured domestically here in the U.S.

1523           From your perspective and with your great experience, how do you believe we can increase  
1524 this share in a sustainable way?

1525           Dr. Piervincenzi. Thank you, Congressman Balderson, for that question.

1526           It is two layers to it. I think the first layer is to increase production of API will require new  
1527 facilities and substantial new investments and time. There are shorter term ways to bridge the gap  
1528 and to create a more secure supply chain, including through friendshoring and other purchasing  
1529 opportunities.

1530           And, finally, also considering the potentially even higher vulnerability to the starting materials  
1531 upstream of the API, which may be even more highly concentrated in adversary countries and  
1532 coming to us through India and Europe.

1533           So we talked earlier about the good news being there is new return opportunity and some  
1534 untapped potential for some production. But for API production, unfortunately, we are going to have  
1535 to do this from -- mostly from scratch. And that is why USP is talking about creating easier access to  
1536 the advanced manufacturing technologies, especially for generic companies, who today are  
1537 struggling to be able to make any capital investments like that in the U.S.

1538           Mr. Balderson. Okay. Thank you very much.

1539           Mr. Bolin, you got -- I had another question. We are out of time.

1540           Mr. Chairman, I yield back.

1541           Mr. Carter of Georgia. The gentleman yields.

1542           The chair now recognizes the gentleman from Texas, Representative Veasey, for 5 minutes of  
1543 questioning.

1544           Mr. Veasey. Mr. Chairman, thank you very much.

1545           And I am glad that we are here having this conversation today about this supply chain of drug  
1546 supplies. I think it is very important, and I too am worried about the U.S. losing ground to this area. I  
1547 don't want to cede anything, whether it is solar, pharmaceutical drugs, whatever, to the Chinese. I  
1548 think that is bad.

1549           And one of the things that worries me and we will fall even further behind in the race is the  
1550 fact that the Trump administration has laid off more than 3,500 FDA employees, and many of them  
1551 performed very essential functions, like drug inspections, generic drug reviews, oversight roles  
1552 funded directly through user fees.

1553           And at the same time, the administration is imposing these sweeping tariffs on these  
1554 pharmaceutical ingredients and manufacturing equipment, and we don't even make that  
1555 manufacturing equipment, for the most part, here in America. A lot of this manufacturing  
1556 equipment, if you have visited any of these facilities, they come from places like Germany. And it  
1557 is -- all of these things are going to mean that the American consumer could end up paying more for  
1558 these tariff taxes.

1559           And so I wanted to ask Ms. O'Connell, we have seen firsthand how fragile this pharmaceutical  
1560 supply chain can be. How do the current administration's actions, including unleashing these tariff  
1561 taxes, serve to further undermine our pharmaceutical supply chain, and what are some specific  
1562 effective ways the Federal Government can strengthen supply chain resiliency?

1563           Ms. O'Connell. Thank you, Congressman.

1564           I think one of the challenges with, you know, a policy initiative like the tariffs we have seen is  
1565 it should be accompanied by investments in domestic manufacturing. Just putting tariffs on various  
1566 products increases the price and likely decreases access for the American people to those products.

1567           What is important is that any tariff actions -- and, you know, they are a really good tool to be  
1568 able to use thoughtfully. Any tariff action should be accompanied by investments to make sure that  
1569 there is adequate domestic manufacturing so the American people continue to have access to the  
1570 products that they need.

1571           Mr. Veasey. Yeah. No, absolutely.

1572 Mr. Murphy, you noted in your testimony that there is a structural challenge that generic  
1573 manufactures face, including a lack of significant U.S. Government financial incentives to encourage  
1574 domestic production of generic drugs.

1575 Can you expand on how this strategic stockpiling, either at the national or State level, can  
1576 help encourage manufacturers to invest in U.S.-based production even when there are high costs and  
1577 market uncertainties that are involved?

1578 Mr. Murphy. Yeah. Mr. Veasey, thank you for your question. Thanks for your support on the  
1579 stockpiling act that you are working on.

1580 One of the things we talk with our manufacturers about is what are creative ways to sustain  
1581 supply commitments across the U.S. as we work on market challenges, like PBM reform and  
1582 reimbursement. And one of those areas we talked about is, can the government provide a more  
1583 stable supply market at a fixed price for a period of time that gives some certainty to producers who  
1584 may be looking to invest in the United States and could get preference in that regard while we work  
1585 across the market to sustain, you know, the overall generic supply chain in a more holistic way.

1586 So, you know, we view that as a critical interim gap that both secures the supply chain for  
1587 American patients by having some supply at the ready given pandemic or other challenges, but also  
1588 helps bridge the market and gives some certainty to manufacturers who are producing either, you  
1589 know, in the U.S. or friendshore countries while we work on other structural reforms to the  
1590 marketplace.

1591 Mr. Veasey. Yeah. No, absolutely. And I really appreciate you mentioning the bill that I have,  
1592 the State Strategic Stockpile Act, which will provide States with financial assistance to establish,  
1593 expand, or maintain their own strategic stockpiles. I think that that would really help in raising some  
1594 of the concerns that you have. So I really appreciate that.

1595           Mr. Chairman, with that, I yield back the remainder of my time.



1596 RPTR KRAMER

1597 EDTR CRYSTAL

1598 [12:01 P.M.]

1599 Mr. Carter of Georgia. The gentleman yields back.

1600 The chair now recognizes the youngest pharmacist in Congress, Representative Harshbarger,  
1601 from Tennessee.

1602 Mrs. Harshbarger. Yeah. Thanks for that, Mr. Chairman. I appreciate that. Thank you.

1603 And thank you to the witnesses for being here today.

1604 And I am especially pleased to see you, Mr. Cashman.

1605 He is president of USAntibiotics, and his facility is a magnificent facility in my district of east  
1606 Tennessee. And if you don't know the story of how USAntibiotics was resurrected, you need to read  
1607 it, talk to me or talk to Mr. Cashman, because it is a remarkable story. It is a critical infrastructure  
1608 facility.

1609 So thank you for being here.

1610 But before I get to questions, I do want to -- I think I need to talk about -- I am a compounding  
1611 pharmacist. So I want to talk about strengthening the safety and security and quality of our  
1612 healthcare product supply chains.

1613 Talking about compounding, there is an indispensable role for pharmacy compounding. And  
1614 for 25 years, I came to the Hill to beat that drum about my profession and the overburdensome  
1615 regulations to where we couldn't get patients the medications they needed.

1616 And compounding starts with a problem. For whatever reason, there are a lot of people that  
1617 can't take mass-produced medications, and these compounding medications will provide a solution.

1618           And not all compounders are the same. Let me make that perfectly clear. But there have  
1619           been recent reports -- wrong reports, basically -- that have referred to compounded drugs as  
1620           counterfeit or knockoffs or copycats.

1621           And let me assure you, they are produced legally, they are regulated, and they serve as a  
1622           critical lifeline for millions of patients. And many times have we stepped in when there are drug  
1623           shortages and we have to provide that to patients to save their lives.

1624           So you are going to have bad actors, and you are going to have those compounders that are  
1625           lifesavers.

1626           So, Mr. Chairman, for the record, I would like to submit an article that corrects the record and  
1627           discusses how misrepresenting compounded medications hurts patients, undermines trust, and are a  
1628           vital part of modern healthcare.

1629           Mr. Carter of Georgia. Without objection.

1630           [The information follows:]

1631

1632           \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

1633 Mrs. Harshbarger. Thank you, sir.

1634 Now I will get to the questions, the good stuff.

1635 Mr. Cashman, you said that the U.S. Government needs to prioritize made-in-America  
1636 medication acquisitions over and beyond price comparisons. Do you think this approach will lead to  
1637 higher drug prices for American patients and taxpayers?

1638 Mr. Cashman. Thank you, Congresswoman Harshbarger. And good to see you as well.

1639 It is a valid concern. But I think it is something we really need to look at more broadly.

1640 When shortages occur, as they did in 2022 and 2023, physicians are forced to use less  
1641 effective alternatives -- you know that very well as a pharmacist -- leading to longer hospital stays,  
1642 the potential for antimicrobial resistance in the case of antibiotics, treatment failures, and eventually  
1643 higher overall healthcare costs.

1644 The economic disruption from supply chain failures far exceeds any premium for domestic  
1645 production. More importantly, we are not asking for subsidies or price guarantees. We are asking  
1646 for purchasing policies that factor in more than just price, things like supply chain security, national  
1647 security, public health, and welfare, alongside costs.

1648 A slightly higher upfront price is a small insurance premium against catastrophic costs of  
1649 shortages or supply disruptions.

1650 Mrs. Harshbarger. Yeah. To me, it is a national security issue. When you know that it is really  
1651 closer to 90 percent of your APIs come from an adversarial nation and 70 percent of India's APIs  
1652 come from China, there is a problem, and there has been. And that is why I am here.

1653 So you mentioned that USAntibiotics serves about 5 percent of the market despite having  
1654 capacity to serve 100 percent of the market. You got 390,000 square feet. I have been there. And it

1655 is not just your amoxicillin you could do. You could venture into cephalosporins or other drug  
1656 therapies within that plant.

1657 So what prevents you from scaling up, sir?

1658 Mr. Cashman. Our plant can produce any beta-lactam antibiotic, Congresswoman. And what  
1659 prevents us from scaling up is really long-term agreements with both commercial and government  
1660 buyers.

1661 That would really help our business. It would allow us to make appropriate business decisions  
1662 and make investments and scale up when it is appropriate.

1663 Mrs. Harshbarger. Yeah. Because we are hearing from physicians and healthcare providers  
1664 all over the country about antibiotic resistance and things of that nature, and you want to make sure  
1665 that those antibiotics you are receiving, in a finished product even, is exactly what it says it is. And  
1666 when you have healthcare facilities testing their finished product, that shows you that not everything  
1667 that says it is, is really what it says it is.

1668 You mentioned the government spent 40 million on foreign-origin amoxicillin while buying  
1669 less than \$1 million from USAntibiotics. Isn't the government supposed to take the lowest bids?

1670 We need those origins of what they are buying. Aren't they supposed to take the lowest bid?  
1671 You are only getting a million dollars worth of a \$40 million business, and you are a domestic  
1672 manufacturer.

1673 Mr. Cashman. So, Congresswoman, let me understand your question. Please, can you  
1674 rephrase the question so I better understand?

1675 Mrs. Harshbarger. Well, you are a domestic supplier. The government spent 40 million on  
1676 foreign-origin amoxicillin. And they only -- you only -- I guess, you have less than a million dollars

1677 spent on your market of amoxicillin. Is it because of the price? Or why would you be excluded from  
1678 that contract?

1679 Mr. Cashman. Thank you, Congresswoman. Now I understand.

1680 Mrs. Harshbarger. Okay.

1681 Mr. Cashman. The contract for the SNS was focused on small businesses. We are not  
1682 considered a small business because of our ownership structure. So we weren't allowed to compete  
1683 for that contract, that specific contract.

1684 Mrs. Harshbarger. Okay. Got you.

1685 Mr. Cashman. Yes, price is part of the government's decision, but we would ask that they  
1686 take a broader view and look at other factors as well.

1687 Mrs. Harshbarger. Yeah.

1688 Mr. Carter of Georgia. The gentlelady's time has expired.

1689 Mrs. Harshbarger. Thank you. I yield back.

1690 Mr. Carter of Georgia. The gentlelady yields back.

1691 The chair now recognizes the gentlelady from Texas, Representative Fletcher, for 5 minutes of  
1692 questioning.

1693 Mrs. Fletcher. Well, thank you, Mr. Chairman.

1694 And thank you to all of our witnesses today for your testimony. I have appreciated it. And I  
1695 think that your prepared testimony and answers to the questions today have been really helpful on  
1696 this important topic.

1697 This has long been an area of bipartisan agreement, and I do hope we can move forward on  
1698 some of the thoughtful recommendations and ideas that we have heard, not only today but over the  
1699 last several years, about this issue.

1700 But once again, I caution everyone on this committee and everyone participating that these  
1701 are not normal times. And we can't pretend that they are. To the extent that holding this hearing  
1702 suggests that they are, we have to acknowledge that they are not.

1703 Like my colleagues who have spoken before me, I can think of more than a dozen topics that  
1704 this subcommittee should be holding a hearing on about unprecedented and tremendously damaging  
1705 recent actions in the Trump administration, like the announcement that the Secretary of Health and  
1706 Human Services just fired all of the members of the Advisory Committee on Immunization Policies; or  
1707 the staff reductions and delayed and cancelled research at the National Institutes of Health; or  
1708 pauses in funding for grants at institutions that do critical medical research, undoing decades and  
1709 decades of work that this country has invested in to lead the world in medical research and in  
1710 scientific research more broadly.

1711 These are just not normal times. And these are huge issues in my district where so many  
1712 people work at the Texas Medical Center, the largest medical complex in the world, doing the  
1713 groundbreaking research that we are talking about in this country, including development for new  
1714 vaccines for diseases threatening people here at home and around the world.

1715 So I appreciate the importance of making our healthcare supply chains more resilient, but we  
1716 cannot have this conversation without acknowledging that the Trump administration is today taking  
1717 steps to gut our Federal agencies that are directly responsible for making these supply chains  
1718 function properly and result in safe and effective medical products for Americans.

1719 It was only 2 months ago that HHS fired 10,000 workers across the agency, including 3,500 at  
1720 the FDA. The mass layoffs were done so haphazardly, as many of us in the room know, that the FDA  
1721 had to hire some of those people back because they were critical to food and drug safety and work at  
1722 the agency.

1723 Another example. Firing all 13 of the Division of Policy Development staffers in the Office of  
1724 Generic Drug Policy at FDA. This team drafts, reviews, approves the policy guidance that we are  
1725 talking about, gives instructions on how generic versions of branded medicines can be developed and  
1726 brought to the market, the kinds of things we are talking about today. The administration is gutting  
1727 these agencies that do absolutely critical work.

1728 And so I am glad that the administration realized its mistake and that some of these FDA  
1729 employees have been rehired. But it is another example of a "shoot first and ask questions later"  
1730 approach that is a huge threat to our healthcare supply chain.

1731 So for months, guidance documents outlining the approval of pathways for generic drugs  
1732 were put on pause. Mr. Murphy, I know that your agency -- or your organization -- put out a press  
1733 release expressing concern about this in early April, about the staffing cuts at FDA.

1734 Can you share with us how has the confusion from the firing and rehiring of this team and the  
1735 subsequent delays in issuing new guidance impacted generic drug development and approvals?

1736 Mr. Murphy. Yeah. Thank you, Mrs. Fletcher, for the question.

1737 As you noted, obviously, we view FDA as a very critical component of the drug supply chain  
1738 both in ensuring safety and making sure patients understand what they are getting. It is effective.

1739 We did see a number of delays this year that thwarted the ability of manufacturers to request  
1740 product-specific guidance. It does appear that that is starting to come back online. And I think we  
1741 were very heartened to hear that the agency is starting to look at the Office of Generic Drugs to  
1742 rehire individuals because it is a component of the agency that I think could benefit from more  
1743 capacity versus less capacity.

1744 And so we were glad to see Commissioner Makary announce they were going to bring those  
1745 folks back to the Office of Generic Drug Policy. But we now have a backlog that we have to work

1746 through. And from a generic drug standpoint, that inhibits the ability to bring more affordable  
1747 medicines to patients sooner.

1748 So we hope and we look forward to working with the agency to try and address that backlog.

1749 Mrs. Fletcher. Well, thank you, Mr. Murphy.

1750 And I just want to reiterate, it doesn't have to be this way. It doesn't have to work this way.

1751 This is an approach the administration has chosen and there are other things the administration has  
1752 chosen to do.

1753 I am going to submit a question for the record to you, Mr. Bolin, because another thing that  
1754 this administration has chosen to do is impose tariffs on all kinds of imports. We talked about it a  
1755 little bit earlier. But I want to ask you and will submit for the record a question about how those  
1756 tariffs are impacting pharmacies.

1757 I am hearing and seeing reports particularly that tariffs on pharmaceuticals might impact  
1758 pharmacies, and I know that that is a concern certainly for our chairman and for all of us for access to  
1759 drugs for our constituents.

1760 So I thank you all very much for your work and for your time today.

1761 And I thank you, Mr. Chairman, for letting me go over just a minute. And I will yield back.

1762 Mr. Carter of Georgia. The gentlelady yields back.

1763 The chair now recognizes the gentlelady from Iowa, Dr. Miller-Meeks, for 5 minutes of  
1764 questioning.

1765 Mrs. Miller-Meeks. Thank you, Mr. Chair. I will try to stay on time.

1766 Let me just say that nothing could be more important than this hearing today. I recall last  
1767 term that the now-minority party held up the reauthorization of PAHPA because we didn't address  
1768 drug shortages with more regulation on the FDA, which is certainly not the answer.



1769           This is a pressing issue that impacts all Americans regardless of demographic and geographic  
1770 location, which is our healthcare supply chain. It includes pharmaceuticals, medical device  
1771 components, bandages, and other lifesaving products which everyone in this room has either used,  
1772 currently uses, or will use at some point.

1773           And I applaud recent efforts by the Trump administration to boost American supply chain  
1774 production, such as the recent announcement of the opening of a facility in North Carolina to  
1775 produce carbon black well ahead of schedule.

1776           Examining our supply chain is essential not just to ensure patients have the resources they  
1777 need but also to ensure we are not too reliant on other countries like China for supplies.

1778           As has already been addressed, only 19 percent of active pharmaceutical ingredients, for  
1779 example, are produced in the United States, 13 percent from China, and 21 percent from India.

1780           The reliance on other countries for generic drugs, which comprise the majority of  
1781 prescriptions filled in the United States, is even higher, presenting additional and concerning  
1782 challenges.

1783           Having robust U.S.-based manufacturing is also essential to combating drug shortages, which  
1784 a number of our health systems in my district are currently facing.

1785           In addition to boosting manufacturing capabilities, there need to be appropriate incentives to  
1786 support innovation, which is why I am concerned about the damage that government price controls  
1787 from the Democrats' Inflation Reduction Act has done to U.S. biopharmaceutical research and  
1788 development, especially in areas like orphan drugs and small molecule medicines, and I have even  
1789 heard this from pharmaceutical manufacturers abroad.

1790           And, Mr. Murphy, thank you for mentioning PBM reform. My first PBM reform bill was in  
1791 2019 as an Iowa State senator. It has been a long time coming for PBM reform.

1792                Since 2021, small molecule development has decreased by 70 percent, which led to fewer  
1793 cures coming to the market, meaning less new drugs being manufactured and fewer options for  
1794 patients who depend on innovation. It is why I also support fixing the pill penalty, which will support  
1795 domestic manufacturing of new and advanced drugs.

1796                Mr. Piervincenzi, do you agree that creating new government price controls could worsen the  
1797 harm being done by the IRA in terms of discouraging more R&D, and if so, by how much?

1798                Dr. Piervincenzi. Thank you, Congresswoman, for the question.

1799                The important distinction, I think, in the supply chain resiliency is that between the branded  
1800 medicines and the generics. And we are getting a really much better understanding now. It has been  
1801 known, I think, to some degree.

1802                On the branded side, what we have is a much higher production of medicines in the U.S. We  
1803 also have more onshoring going on right now, as we have discussed during this hearing. And this is  
1804 quite encouraging, and I think this is even more opportunity.

1805                Unfortunately, on the generic side, just the economics and the incentives are just not there.  
1806 And it is solvable. And, in fact, because the prices are so low, the cost of solving it is actually  
1807 reasonable. But we don't have any mechanisms to make sure that when people maybe pay more or  
1808 have a better contract that they are rewarded with something more resilient and they are not just  
1809 paying for the same thing with more money.

1810                Mrs. Miller-Meeks. And this question is for you again, or for Mr. Murphy.

1811                There has been a lot of talk already about active pharmaceutical ingredients, or APIs, key  
1812 starting materials, or KSMs, finished dosage forms, and the like.

1813 I want to make sure we are all on the same page. But instead of going through what the  
1814 ingredients are, let me just say, understanding that there is more to learn based on what we  
1815 currently know, where are most KSMs extracted and/or produced? Either of you.

1816 Dr. Piervincenzi. Yeah. I am happy to take that, Mr. Murphy.

1817 So we are very close to being able to actually answer that question. The worry has been, as  
1818 we have gone upstream, we have discussed quite a bit about APIs because we kind of knew that, and  
1819 that gave us, I think, some concern. But we had a lot more concern in discussions with industry in  
1820 India, in particular, when we said: Where are you getting your KSMs from for your API production?  
1821 And the answer was: Mostly "from China.

1822 This was a concern even in India where there are policies -- government policies to incentivize  
1823 production of KSMs in office parks in India. And this is one piece of the solution. But USP believes we  
1824 should be looking at that in the U.S. as well to create our own resilience, especially for KSMs.

1825 Mrs. Miller-Meeks. And quickly, where do finished doses come from, both injectables and  
1826 solid oral doses?

1827 Dr. Piervincenzi. Yeah. So injectable doses we produce much more as a percentage in the  
1828 U.S., over 50 percent are U.S.

1829 Mrs. Miller-Meeks. Okay. And then, as a whole, what country or countries are we most  
1830 reliant on, and which products are particularly vulnerable?

1831 Dr. Piervincenzi. Yeah. The simplest answer to that is that most medicines for the U.S. come  
1832 from India.

1833 Mrs. Miller-Meeks. Thank you. I yield back.

1834 Mr. Carter of Georgia. The gentlelady yields back.

1835           The chair now recognizes the gentlelady from New York, Representative Ocasio-Cortez, for 5  
1836 minutes of questioning.

1837           Ms. Ocasio-Cortez. Thank you so much, Mr. Chair.

1838           And thank you to all of our witnesses for offering your testimony here today.

1839           I would love to spend some of this time honing in on the issue of drug shortages. Drug  
1840 shortages, of course, are more than just an inconvenience for a lot of people, but they can have  
1841 deadly consequences for people in urgent medical situations.

1842           And one of the most common drugs in the United States right now facing a shortage is the  
1843 liquid form of Albuterol, which is used by hospitals to treat asthma.

1844           Albuterol has been in short supply since 2022, and this is an issue that hits particularly close  
1845 to home in my community. In the South Bronx in particular, we face one of the highest childhood  
1846 asthma rates in the United States.

1847           And when these kids and their parents show up at a hospital and they are unable to breathe,  
1848 they may not be able to access the medicine that they need if there is a shortage.

1849           Ms. O'Connell, can you help the general public understand why is it that in such a common  
1850 condition such as asthma, and with such a broadly available drug like Albuterol, how can we get to a  
1851 place -- and how do we get to a place -- where there is a shortage of it in the United States?

1852           Ms. O'Connell. Thank you so much, Congresswoman.

1853           Albuterol wasn't one of the issues that we dealt with directly in ASPR, but observationally, I  
1854 think it is a perfect example, as you have laid out, of the fragility of the generics market.

1855           Albuterol is a generic drug, had two manufacturers in the United States. One of them  
1856 declared bankruptcy and left the market. That left a shortage. And there have been very few

1857 incentives, as has been discussed already at the table, to encourage generic manufacturing of  
1858 Albuterol in the country.

1859 Ms. Ocasio-Cortez. Thank you.

1860 And I think to kind of disentangle this a little bit more, there is a lot of talk about incentives.

1861 But at the end of the day, the United States healthcare system is a for-profit system. And largely, an  
1862 incentive is about if making it is profitable.

1863 And in the for-profit system, manufacturers need to know that their drugs will be profitable.  
1864 If it is not profitable, the incentive doesn't exist, it becomes difficult to manufacture.

1865 But if manufacturers can't afford to operate, they will leave the market altogether, as you  
1866 noted, or move their operations abroad.

1867 Meanwhile, drug shortages are costing hospitals at least \$360 million annually in labor costs  
1868 alone for making up for some of these shortages.

1869 And so what all of these pieces put together are pointing to is a market failure. And,  
1870 ironically, this market failure is emerging because the drug is affordable, because the price is very  
1871 low.

1872 My understanding is that the Federal Government has effectively acted in the past to address  
1873 drug shortages. And in particular, both Republican and Democratic administrations have used the  
1874 Defense Production Act to address past drug shortages. There has been some discussion today about  
1875 almost, like, a strategic reserve of sorts but for medicine.

1876 Ms. O'Connell, what is the Defense Production Act, and has the Federal Government used it in  
1877 the past -- how has the Federal Government used it in the past to address drug shortages?

1878 Ms. O'Connell. Absolutely. Thank you so much for the question.

1879           So the Defense Production Act is an authority that allows the government in times to secure  
1880 the defense of the Nation or in times of emergency to priority rate contracts to ensure that the  
1881 supplies that are in the supply chain go to whatever is needed to secure the country.

1882           So in a case of shortages, it would go to the manufacturing of the particular item that is in  
1883 shortage, to be able to provide that item to the American people.

1884           We used it multiple times, dozens of times throughout the COVID response, both the Trump  
1885 and Biden administrations. And then outside of the COVID response, we also used it for the infant  
1886 formula shortage. And we used it most recently for the Baxter IV shortage.

1887           Ms. Ocasio-Cortez. Thank you. Yes. And those are all excellent points because we are  
1888 hearing talk today of moving manufacturing to the United States, and it is not to give short shrift to  
1889 that point, but some of those examples that you named -- well, Albuterol is manufactured in the  
1890 United States. IV fluid, manufactured in the United States. Even a couple of years ago, baby formula  
1891 also produced in the United States. All three of those things are produced in the United States. All  
1892 three have had chronic shortages.

1893           Ms. O'Connell, could the Federal Government play a role in manufacturing some of these  
1894 drugs where we are seeing persistent market failures? I am interested in some of your thoughts to  
1895 that point.

1896           Ms. O'Connell. Well, this is a question that we always come back to. Should the government  
1897 be responsible for the manufacture of, say, vaccines? That was a question we asked ourselves during  
1898 COVID.

1899           And what it comes down to is a commitment from the government to fund both the capacity  
1900 for the government to do the manufacturing as well as the capability for the government to do that  
1901 manufacturing.

1902           And over the course of our analysis in looking into this, and over many generations of others  
1903 in similar situations needing to answer that question, what is needed most is a sustained  
1904 commitment in funding. And that has not been something that has been demonstrated from  
1905 previous Congresses.

1906           And so we always went to the public-private partnership, which is a perfect thing that BARDA  
1907 does, which is invest in the capacity that the private companies have, reserve that capacity for the  
1908 United States. But the United States doesn't own the actual physical structure and do the  
1909 manufacturing itself.

1910           Ms. Ocasio-Cortez. Thank you.

1911           Mr. Carter of Georgia. The gentlelady yields back.

1912           The chair now recognizes the gentleman from Michigan, Representative James, for 5 minutes  
1913 of questioning.

1914           Mr. James. Thank you, Mr. Chairman.

1915           COVID was a clear wake-up call that our Nation, for far too long has been reliant on unstable  
1916 and adversarial supply chains for our critical medicine and healthcare supplies. When we are relying  
1917 on China for lifesaving supplies to defend against a Chinese-made virus, something is horribly wrong.

1918           Only 12 percent of active pharmaceutical ingredients, APIs, for prescription medicines in  
1919 America are manufactured domestically. Half our APIs come from India and the European Union.  
1920 While China only contributes around 8 percent of APIs, they are a dominant supplier of the key  
1921 starting materials utilized to produce APIs. They are also the exclusive manufacturer of APIs in  
1922 essential medicines controlling much of the antibiotic API production.

1923           While we have been asleep at the wheel, the CCP has engaged in a concentrated and strategic  
1924 effort to become the global leader in biomedicine development and production. I am gravely

concerned over the growing role of the Chinese industry in our medicinal supply chains. Even India, which has made significant investments in carving out a major role in the medical supply chain, is dependent on China, an estimated 70 percent of their APIs.

The warning lights are flashing red, and it is time for Congress to take action. The health of our citizens is a national security imperative, and too many lives are at stake. We must take action, and we must do it now.

So I appreciate you all being here today. And we are trying to look at things different. It is a bipartisan issue to address our medical supply chain. But I believe that Michigan and the Great Lakes region is in a specific and very special position to be able to contribute in new and innovative ways.

Given the push for reshoring and diversifying supply chains, should Congress direct HHS, DOT, and Commerce to study the feasibility of routing APIs and KSMs through U.S. ports in the Great Lakes to reduce reliance on congested coastal ports? Any of you have an opinion?

Yes, sir.

Dr. Piervincenzi. Thank you, Congressman.

It is true we haven't discussed this piece of the supply chain in particular. And in the USP's Medicine Supply Map, most of the U.S.' imported medicines come through the East Coast. And it is something to be considered because that is a vulnerability itself through weather conditions and others.

And so it is something that, if it is of interest, we could utilize the data to try to get you some more information about that.

Mr. James. I would like to follow up with you on that, to at least have a feasibility study. Coming in through St. Lawrence and through the Great Lakes, the ports in Ohio and in Michigan and in Illinois could provide us a very good opportunity to diversify our risk levels in, say, New York, New



1948 Jersey, with that port, or maybe even further south in Jacksonville or Atlanta -- I am sorry -- or  
1949 Savannah and Charleston and the like.

1950 Mr. Cashman, as the head of the only U.S.-based manufacturer of certain critical antibiotics,  
1951 you understand logistical hurdles in sourcing both active ingredients and distributing finished drugs.

1952 This is the time to start considering regional shipping infrastructure, again, like Port of Detroit.  
1953 Is there any targeted investment in port distribution infrastructure that can help firms like  
1954 USAntibiotics scale domestic manufacturing and create a new route to distribute drugs and  
1955 ingredients to drug short areas?

1956 Mr. Cashman. Thank you, Congressman.

1957 I am not an expert on that subject. We route all our ingredients coming from Europe through  
1958 an East Coast port as well. It is something to take a look at. And, again, I am not an expert on that  
1959 particular topic, so I will pass.

1960 Mr. James. But additional routes might help with resilience and potentially lower cost?

1961 Mr. Cashman. Yes, it would help. Definitely.

1962 Mr. James. Perfect.

1963 Dr. Piervincenzi, USP has done a lot of work mapping supply chain vulnerabilities and drug  
1964 shortage risks. Has your analysis explored the concentration of pharmaceutical transportation  
1965 channels? And do you see value in restructuring transport sourcing routes? For example, APIs or  
1966 KSMs, as we mentioned.

1967 Could USP's Medicine Supply Map incorporate port of entry and regional manufacturing hub  
1968 data to help us understand how we could mitigate shortages and work through the Midwest?

1969 Dr. Piervincenzi. Thank you, Congressman.

1970               We actually do incorporate, for most products, the port of entry. But your question opens up  
1971 something that we would be very interested to explore, which is that is only one step in that process.

1972               How else, what are the other links between that the map does not currently contain? But it is  
1973 an answerable question. So I would be interested to follow up on that.

1974               Mr. James. Thank you for your feedback and advice. I look forward to following up with you.

1975               Mr. Chairman, that is all I have. I yield.

1976               Mr. Carter of Georgia. The gentleman yields back.

1977               The chair now recognizes the gentleman from Massachusetts, Mr. Auchincloss, for 5 minutes  
1978 of questioning.

1979               Mr. Auchincloss. Thank you, Mr. Chairman. I am going to change my name to Mr. Jones for  
1980 you.

1981               I appreciate the expert testimony this afternoon.

1982               Mr. Murphy, I want to engage with you, please. And first just by stating there is so much  
1983 debate in Congress, rightfully so, on expanding access to prescription drugs. And one of the best  
1984 answers is staring us right in the face, which is genericization of drugs. It is the most effective way to  
1985 ensure that people have affordable access to medications.

1986               And if I am correct, actually, Americans -- unlike with brand prices -- Americans actually pay  
1987 less for generic drugs than people overseas.

1988               So it is a real success story. There is debate in this committee, of course, about maybe the  
1989 right amount of time before drugs go generic. But they should go generic without undue delay. And  
1990 we want to see a successful generics and biosimilars sector.

1991               I appreciated the commentary you provided at the front end of this about maybe an industrial  
1992 policy surrounding generics manufacturing.

1993 I will be candid. I am not sure I agreed with the middle parts of your recommendations,  
1994 which sound more like subsidies and tax breaks. But the first and last thing you said I really liked, and  
1995 I want to dig into those a little bit.

1996 The first was basically demand signal for enhanced production of generic drugs, particularly  
1997 sterile injectables.

1998 Can you talk about proposals that have been made around having DSH hospitals aggregate as  
1999 group purchasing organizations and providing a premium for those sterile injectables for a  
2000 sustainable supply chain? What is your view on those?

2001 Mr. Murphy. Yeah, Mr. Auchincloss. Thank you for the question.

2002 I think the current state of the market demands any creative solution that will help provide  
2003 certainty to manufacturers that there is going to be a market at a sustainable price for them to invest  
2004 in the kind of domestic manufacturing we would like to see.

2005 Mr. Auchincloss. Is that sort of DSH premium approach something that you would be  
2006 amenable to?

2007 Mr. Murphy. So I would have to talk with our manufacturer. I would love to follow up with  
2008 your office. I haven't explored that in depth, though.

2009 Mr. Auchincloss. Great. It would build on some examples that we have already seen with  
2010 hospitals grouping together in group purchasing organizations for a sustainable supply chain.

2011 The last thing you talked about was PBMs and, basically, the role of these intermediaries,  
2012 these drug-pricing middlemen in distorting healthy incentives. And I want to dig into that,  
2013 particularly on biosimilars, because the biosimilar market has been working better but not working  
2014 well enough.

2015 I believe 86 percent of brand biologics that are eligible for biosimilar competition still don't  
2016 have a biosimilar under development. And there are a lot of reasons for that. But that is a big  
2017 opportunity cost. That is probably about \$100 billion of spending that could have been genericized.

2018 Talk a little bit about how PBMs are playing the rebate game to try to keep biosimilars out of  
2019 the market.

2020 Mr. Murphy. Yeah. This is an issue we have studied extensively because we are missing a lot  
2021 of opportunity. And we are ceding ground to Europe, candidly.

2022 The PBM environment has favored those manufacturers that can afford to pay very large  
2023 rebates or have a large product portfolio that is rebatable that can prevent generic access. In one of  
2024 the most famous examples of a product right now that has multiple biosimilar competitors, the brand  
2025 manufacturer retains over 80 percent market share multiple years after. And it is infecting  
2026 investment in the future.

2027 Mr. Auchincloss. Right. Providing the safe harbor to the anti-kickback provision does not  
2028 seem like it was great policy from the 1990s. Maybe we should rethink that.

2029 Mr. Murphy. We would love to work with the committee on a number of areas to get that  
2030 out of the way.

2031 Mr. Auchincloss. Now, the PBMs are also starting to do their own biosimilar manufacturing.  
2032 Give us, like, 30 seconds on that and whether that is a good idea.

2033 Mr. Murphy. So it is challenging because in the one hand, we want to promote biosimilar  
2034 adoption, but we also want to promote the investment that is necessary to bring new biosimilars to  
2035 market. And if standalone generic and biosimilar manufacturers don't see a signal that investing in  
2036 that next generation of biosimilars is going to be worthwhile from a portfolio standpoint, they will  
2037 stop investing in that.

2038                   And so if we see follow-on products that don't help the market but, in fact, favor particular  
2039 individual companies, it is going to be a challenge to the overall market.

2040                   Mr. Auchincloss. I am not sure I fully tracked on that. Are you saying that the PBMs running  
2041 their own biosimilar manufacturing is a net negative for biosimilar competition?

2042                   Mr. Murphy. I think it is a challenge for those folks who are trying to innovate new  
2043 biosimilars.

2044                   Mr. Auchincloss. Got it.

2045                   Quickly, in our last 30 seconds, FDA's role, given the staffing cuts in biosimilar  
2046 interchangeability studies?

2047                   Mr. Murphy. Yeah. So we are pretty much in agreement with FDA that we need to optimize  
2048 that process and take costs out of the system. And we look forward to working with Congress to try  
2049 and codify that over the years.

2050                   Mr. Auchincloss. Do you have confidence, given the radical reorganization and cuts at the  
2051 FDA, that they have the personnel and expertise to do that?

2052                   Mr. Murphy. I think they could always use more support.

2053                   Mr. Auchincloss. I yield back.

2054                   Mr. Carter of Georgia. The gentleman yields back.

2055                   The chair now recognizes the gentleman from Oregon, Mr. Bentz, for 5 minutes of  
2056 questioning.

2057                   Mr. Bentz. Thank you, Mr. Chair.

2058                   And thank all of you for being here.

2059                   Mr. Cashman, I am interested in balance. And, I guess, the question is, is there a restriction  
2060 that we can impose on China if they choose to impose a restriction on us?

2061           And this is a broad general question because, as I listen to this, I am trying to figure out  
2062 whether the issue is fear of someone withholding stuff or price.

2063           But go ahead and just tell me, are we currently in balance or out of balance?

2064           Mr. Cashman. Congressman Bentz, that is a very interesting question. I think we have to  
2065 think as a Nation how much dependence do we want on a foreign nation like China?

2066           Right now, in the case of amoxicillin, 80 percent of the starting material used to make the  
2067 API -- it is called 6-APA -- comes from China. We are very, very dependent. And therefore, I think,  
2068 things are very much out of balance. We are so dependent upon China in the case of amoxicillin.

2069           Mr. Bentz. I think you indicated earlier that the challenge for you is what in expanding your  
2070 footprint in that space from 5 percent to something higher? Is it price? You said something about  
2071 contracts, and I wasn't quite clear on what the restriction was when it came to contracts.

2072           Mr. Cashman. One of the challenges we face is contracts, yes. Contracts give us consistency.  
2073 It gives us stability. It allows us to make investments in personnel and in equipment.

2074           So those long-term contracts -- and we have had some success on the commercial side with  
2075 that, but we haven't had success yet on the governmental side.

2076           Mr. Bentz. And why not?

2077           Mr. Cashman. I can't explain that, sir.

2078           Mr. Bentz. Does it have something to do with the bid process preventing long-term  
2079 contracts? Is it on the government side of the equation or is it on your side of the equation?

2080           Mr. Cashman. I think it is on the government side of the equation. The government's focus is  
2081 very much on price. There are some structural issues. For example, in cases they are looking for  
2082 purchasing from small business entities and things like that. Through our organizational structure,  
2083 we are not a small business.

2084           Mr. Bentz. Let me hop ahead. The issue -- the tradeoff seems to be price versus everything  
2085 else. So if China is going to be subsidizing everything that they do in China, then is our market system  
2086 such that we cannot compete because everything is all about price? Is that what you are really  
2087 saying?

2088           The only way we can ever get even is if we decide we want to pay a higher price because we  
2089 can certainly get it for less from China, but we lose the security situation. That is what you are trying  
2090 to call out, isn't it?

2091           Mr. Cashman. Well, price is an important aspect and that I think it affects all of us. And, yes,  
2092 China and India have different ways of looking at the economic market than we do. They made  
2093 decisions to have much lower prices. And in some cases, we are dealing with competition that is  
2094 below our cost of production.

2095           Mr. Bentz. Right. Well, it seems to me we face this situation in any space that China chooses  
2096 to focus upon, which is a lot of them. Steel is a good one to talk about for a moment. They can  
2097 produce steel, what, 30 percent more than everybody actually needs.

2098           So what I am trying to get at here, the common theme seems to be if we want to be secure,  
2099 we are going to have to pay more. Is that a correct statement?

2100           Mr. Cashman. Congressman, I think in general that is the case. We will have to pay more.

2101           Mr. Bentz. Okay. Let me flip over to Mr. Piervincenzi.

2102           What prevents China right now from withholding stuff that we actually need? Is it world  
2103 opinion? We see it happening now in the context of negotiations with China. They are withholding  
2104 rare earth minerals, and we have chips and perhaps certain types of stuff we use in fracking. So  
2105 there is kind of a little bit of a balance there, not much.

2106           But what prevents us from right now being in real trouble in this space?

2107 Dr. Piervincenzi. I am not sure anything prevents it at the moment.

2108 I would say that the key starting materials that we talk about here in medicine are probably  
2109 the most equivalent to your rare earth metals. And most of those are probably going to India for  
2110 production, but these routes and channels are well understood if you are the owner of those key  
2111 starting material plants.

2112 I would say that here in the U.S., we actually don't know where these key starting materials  
2113 are yet. And that is why we are working on that data source.

2114 We hope to be done with that in the next few months, and we will finally have the answer as  
2115 to where we are vulnerable, and then we can start to try to correct it one drug at a time. I don't  
2116 think there is a shortcut to it.

2117 Mr. Bentz. To what do you attribute our current -- I don't want to say "lack of preparedness,"  
2118 but it appears that we are. Are we not prepared?

2119 Dr. Piervincenzi. The key starting material topic is really chemicals. And the chemicals  
2120 industry has mostly left the U.S. decades ago. And while there are also API dependencies, and that is  
2121 not without some challenge, it is even more of an issue upstream, just as Mr. Cashman has  
2122 described.

2123 Mr. Bentz. Thank you so much. Yield back.

2124 Mr. Carter of Georgia. The gentleman yields back.

2125 The chair now recognizes the gentleman from Ohio, Mr. Landsman, for 5 minutes of  
2126 questioning.

2127 Mr. Landsman. Thank you, Mr. Chair and to the ranking member, for today's hearing.

2128 The importance of strengthening domestic manufacturing in the healthcare supply chain is  
2129 hugely important to all of us, certainly in southwest Ohio.



2130           We have -- and I want to just share -- a company called Emerge Manufacturing in southwest  
2131 Ohio. It is led by a woman named Cynthia Booth. She was this incredible entrepreneur and was  
2132 going to retire and then realized that we had this issue during COVID and that we should be doing  
2133 more of the PPE manufacturing here in the United States and, in her mind, in a community where  
2134 folks don't really have access to these good-paying jobs.

2135           So she sort of emerged out of what was retirement to build Emerge Manufacturing, and it is  
2136 now up and running. They are producing PPE, all kinds of other things for the healthcare space.

2137           And it is in a neighborhood called Bond Hill, historically Black neighborhood, predominantly  
2138 Black neighborhood where she grew up, and now they are manufacturing all of this. And the  
2139 majority of people who work there are from Bond Hill, which is just an incredible story, and I wanted  
2140 to share.

2141           And if you are ever interested in coming and spending time in Cincinnati and seeing Emerge  
2142 Manufacturing, we would love to have you; anyone from the committee too.

2143           She and others rely on the FDA to get their PPE approved. And that is why the FDA's job, as it  
2144 relates to the domestic supply chain, is so important.

2145           In April of 2025, the GAO released a report to Congress about drug shortages entitled "HHS  
2146 Should Implement a Mechanism to Coordinate Its Activities." Makes perfect sense. In the report,  
2147 the GAO stated that the FDA, Congress, and academic experts have reported that collaboration  
2148 across Federal agencies is important to address drug shortages and enhance supply chain resiliency  
2149 because each agency has a unique role in the supply chain.

2150           HHS then creates a Supply Chain Resilience and Shortages Coordinator -- not a great name  
2151 but a great cause, makes all the sense in the world -- somebody who is going to lead the coordination

2152 across the agencies. They do this in 2023, November 2023, a position within the Office of the  
2153 Assistant Secretary for Planning and Evaluation.

2154 It was funded through 2027. Last month, however, the Trump administration eliminated the  
2155 role. HHS no longer has the mechanism to coordinate drug shortage activities across the  
2156 Department.

2157 Ms. O'Connell, question. As Assistant Secretary for Preparedness and Response, how was the  
2158 office working with other agencies within HHS, including the FDA, to strengthen the domestic supply  
2159 chain?

2160 Ms. O'Connell. Thank you, Congressman.

2161 I think that is a great example of the need to coordinate within the Department that we  
2162 always were dealing with.

2163 But the role of the supply chain coordinator was extraordinarily important during my tenure  
2164 there. You have lots of independent agencies within HHS, each having their own agenda, each having  
2165 their own constituencies that they are working towards. We needed someone sitting on top of all of  
2166 that, tying the threads together, to ensure that we were moving forward in the way that we needed  
2167 to, in a unified way, on behalf of the Department and on behalf of the White House.

2168 Mr. Landsman. Can anyone on the panel give a reason for why they would just eliminate the  
2169 position?

2170 Okay. None.

2171 It doesn't seem like it was a smart idea.

2172 But the position is now gone. HHS also has identified something like 10,000 employees to be  
2173 fired.

2174 Is the Department equipped to coordinate a response in the case of a supply chain issue, as  
2175 we had one several years ago?

2176 Ms. O'Connell. So it is hard for me to know, since I am on the outside now, what it feels like  
2177 on the inside. But what I can say is that the role of the coordinator was important.

2178 And the coordinator didn't just coordinate within the Department. They coordinated across  
2179 departments. And there are lots of other pieces of the supply chain, departments and agencies  
2180 throughout the government, that have roles to play. We have talked about tariffs and other  
2181 incentives.

2182 So having somebody sitting on top of all of that was really important. And we need  
2183 somebody, I think, who can do that again.

2184 Mr. Landsman. I agree. And this maybe is something that this committee could take up. It  
2185 seems like a simple enough thing to do to say: Hey, why don't we put the coordinator back on the  
2186 job? Because we all agree that increasing the domestic supply and domestic manufacturing is really  
2187 important.

2188 That is my time. Thank you very much. I yield back.

2189 Mr. Carter of Georgia. The gentleman yields back.

2190 The chair now recognizes the gentleman from Texas, Mr. Crenshaw, for 5 minutes of  
2191 questioning.

2192 Mr. Crenshaw. Thank you, Mr. Chairman. Thank you for holding this hearing.

2193 Thank you to our witnesses.

2194 I think too often we don't treat domestic drug manufacturing like the national security issue it  
2195 is. But it is one, especially when we are depending on foreign nations, often adversarial ones, for

2196 critical medicines or their ingredients. We are handing them leverage. That is not good. It is a  
2197 dangerous game to play.

2198 And it leaves us vulnerable when we are in crisis, whether it is a pandemic, a supply chain  
2199 disruption, geopolitical tensions, whatever it is.

2200 And in my district, I am proud to say our citizens are not waiting around. They are acting. San  
2201 Jacinto College, Lone Star College leading the way, training the next generation of biomanufacturing  
2202 and biomedical engineering professionals. These students will fill those gaps in the workforce, help  
2203 build the domestic capability that we really should have prioritized a long time ago.

2204 We are seeing investments too. Bionova is a company that recently put \$100 million into a  
2205 new plasma DNA manufacturing facility in my district in The Woodlands.

2206 And it isn't a coincidence. It is a signal. I think companies are choosing Texas because they  
2207 see the promise of a strong, skilled workforce and a business environment that supports innovation  
2208 and growth.

2209 But we have got a long way to go. Nearly 80 percent of biopharma companies, many of them  
2210 small and emerging biotech firms, still have to rely on contract manufacturing or contract  
2211 manufacturers in China. That should set off a lot of alarm bells.

2212 If we are serious about building biomanufacturing capacity here, then we have got to take a  
2213 hard look at the regulatory and policy roadblocks that are standing in the way. We have to fix what is  
2214 making the U.S. less competitive. And we should do it now before we are caught flat-footed again in  
2215 the next crisis.

2216 Mr. Murphy, we have seen Congress move pretty quickly, actually, to streamline permitting  
2217 specifically for semiconductors under the CHIPS Act, carving them out from the National  
2218 Environmental Policy Act, NEPA.

2219           Given the strategic importance of -- and I bring that up because that was a recent bill, and it  
2220           was something that Democrats and Republicans came together on. NEPA reform but just for this one  
2221           thing that we can agree on because we need more chips. Okay? Seems like a -- that is interesting.  
2222           That is a pathway to agreement.

2223           Given the strategic importance of pharmaceutical manufacturing, do you think similar  
2224           carve-outs for pharmaceutical facilities are warranted? Would removing these regulatory hurdles,  
2225           while also protecting the environment through pared-back, I think more efficient review processes,  
2226           would that help accelerate domestic buildouts?

2227           Mr. Murphy. Yeah. Mr. Crenshaw, thanks for the question.

2228           We certainly agree that permitting is one thing that can delay significant investments and  
2229           really stand in the way of getting our domestic manufacturing base back online, particularly in the  
2230           generic pharmaceutical space where cost is such a significant driver.

2231           And so I think we saw in the President's executive order that talked about permitting reform  
2232           in the medicine space is something that we could work collaboratively with Congress to try and  
2233           ensure that we both protect our environment but also not let the abnormally long permitting  
2234           processes stand in the way of getting that domestic investment online.

2235           Mr. Crenshaw. Yeah. I appreciate that. And, again, we have done it before in a bipartisan  
2236           way, and I hope we can do it again in this Congress. Even if we can't get full NEPA reform, at least we  
2237           could do it for certain industries.

2238           Dr. Piervincenzi -- did I get that? Okay.

2239           Dr. Piervincenzi. Thank you.

2240 Mr. Crenshaw. USP has worked on digital quality infrastructure advancing manufacturing  
2241 mapping. What capabilities exist right now today for really understanding and fully mapping the U.S.  
2242 pharmaceutical supply chain using that technology?

2243 Dr. Piervincenzi. So we are a lot closer than 2019 when we started. Many of the things  
2244 that -- the supply chain is complex, we don't know what it is. We can answer most of those questions  
2245 already today. And in just a few months, we will be able to talk about that even on down to the level  
2246 of key starting materials, which means we are getting very close to having the information of what is  
2247 where, and we start to have to do the next thing, which is what we do about it.

2248 And that is not a dead-end because there are additional analyses we can do that open up  
2249 those opportunities for domestic manufacturing. So how else can we make those medicines? How  
2250 else can we produce an API through different key starting materials that maybe are available either  
2251 near shore or domestically?

2252 And they are one at a time. There are solutions. But they are solvable. They are solvable one  
2253 time. And then we can think about the incentives and the other things we have talked about here  
2254 today to reduce the barriers to those investments that are very hard for generic companies today to  
2255 make those commitments. We see it, the lack of investment in advanced manufacturing. It is almost  
2256 at zero within the generic industry today.

2257 Mr. Crenshaw. I want to get one more question in for Mr. Murphy.

2258 Regarding the FDA's current good manufacturing practice enforcement, what tools, if any,  
2259 exist within FDA's own compliance and inspection regime to tip the scales towards domestic  
2260 production?

2261 Mr. Murphy. Yeah. I mean, certainly, FDA could signal their willingness to speed up  
2262 inspections for newly brought online generic manufacturing facilities in the United States.

2263 I think understanding that that inspection paradigm is on the horizon and set up stably would  
2264 give folks the understanding that that investment has a timeframe at the end of it which requires  
2265 FDA inspection is more certain.

2266 Mr. Crenshaw. Okay. I appreciate that.

2267 And yield back.

2268 Mr. Carter of Georgia. The gentleman yields back.

2269 The chair now recognizes the gentleman from Louisiana, my first cousin, Representative  
2270 Carter, for 5 minutes of questioning.

2271 Mr. Carter of Louisiana. Thank you, my dear cousin. Thank you, Chairman and Ranking  
2272 Member, for holding this hearing.

2273 Thank you all for being here.

2274 As the only member of the committee from Louisiana, I know how important a resilient  
2275 supply chain and resources, like the Strategic National Stockpile, are for States like mine, especially  
2276 during natural disasters and public health emergencies.

2277 In fact, I am proud to share that Louisiana has been and continues to be a leader in this space.  
2278 In 2020, during the COVID-19 pandemic, Ochsner Health and SafeSource Direct, a U.S.-based PPE  
2279 manufacturer, formed a partnership to step up and address the Nation's shortages of gloves, masks,  
2280 and other critical PPE needed to protect our healthcare workers on the front lines.

2281 Efforts like this and the Federal investments allow to expand domestic manufacturing and  
2282 bolster the supply chain to ensure we are all well prepared for when the next -- not if -- but when the  
2283 next natural disaster or public health emergency hits.

2284 I look forward to hearing from our witnesses today and discussing how Congress can  
2285 strengthen our medical supply chain and expand domestic manufacturing.

2286 Ms. O'Connell, we know that the -- from this committee, Louisiana -- and what I have  
2287 mentioned to you earlier, Louisiana is paving the way for domestic manufacturing in the healthcare  
2288 space through Ochsner and SafeSource Direct. They are also currently in the process of standing up a  
2289 rubber facility to fill the U.S. gap in domestic raw materials, such as rubber, which is needed to create  
2290 gloves and PPE.

2291 From your perspective, as someone who previously served at HHS, how can the Federal  
2292 Government work to ensure there is a domestic market to support the sale of domestic raw materials  
2293 and end products?

2294 Ms. O'Connell. Congressman, thank you so much for that question. And I think the  
2295 SafeSource example is one that we have been trying to -- or that the Federal Government should  
2296 think about replicating in other places.

2297 What is important about what SafeSource was able to do, they were able to solve one of the  
2298 problems that we continued to run into in other situations, which was making sure that there was a  
2299 market for the PPE that was manufactured even after the emergency.

2300 And because a hospital system like Ochsner committed to purchasing SafeSource's PPE, we  
2301 were able to keep SafeSource in business, and Ochsner had the high-quality, domestically  
2302 manufactured PPE that it needed.

2303 Finding similar hospital partners across the country with other investments we have made  
2304 should be a priority of the current --

2305 Mr. Carter of Louisiana. Proud to have Louisiana leading the way there.

2306 The Strategic National Stockpile is important to States like Louisiana. To what extent does the  
2307 stockpile support and utilize domestically manufactured products, such as gloves and PPE?



2308 Ms. O'Connell. Whenever possible, we tried to restock with domestically manufactured  
2309 goods. It is important, and as I said in my opening testimony, that we have 90 days of this emergency  
2310 supply to be able to get us through those first early days of anything that comes next.

2311 Mr. Carter of Louisiana. Thank you.

2312 Ms. O'Connell. Yes.

2313 Mr. Carter of Louisiana. Mr. Murphy, thank you for being here with us here today and talking  
2314 about the challenges with domestically manufactured generic drugs.

2315 As you know, FDA reviewers are tasked with conducting inspections, and new manufacturing  
2316 facilities and manufacturers are required to comply with good manufacturing practices.

2317 How would RIFs at FDA impact the agency's mission to carry out this work and exacerbate the  
2318 challenges you shared?

2319 Mr. Murphy. Yeah. Mr. Carter, thank you for the question.

2320 And early on, when the initial RIFs were announced, we saw that it was a lot of support staff  
2321 in the Inspections Division, which raised a lot of concern in the industry, because it is one thing to  
2322 have qualified inspectors, and a sufficient amount of them, but you also need that support staff to  
2323 help FDA conduct all of the inspections and the logistics associated with that.

2324 We have been tracking very closely whether or not there have been deficits in inspections.  
2325 But I would point out the fact that, from a foreign inspection standpoint, FDA is still not getting back  
2326 to the levels they had pre-COVID of being able to conduct foreign inspections. And the industry,  
2327 actually, would like to see more capacity in that space.

2328 Mr. Carter of Louisiana. So what happens, how does this continue to slide down the slope if  
2329 we don't do something differently?

2330 Mr. Murphy. Yeah. So I think right now it is affecting the ability to get more product in the  
2331 market at a lower price. I think we are seeing FDA trying to triage that. But, ultimately, we need to  
2332 see FDA funded at a level that allows it to have a fully functioning inspection force.

2333 Mr. Carter of Louisiana. Either of you can answer this.

2334 And how have the on again/off again tariffs impacted manufacturing? We will start with you,  
2335 Mr. Cashman, and then we will go down, if we can. I have got about 13 seconds, so can  
2336 you -- whoever wants to answer, answer quickly. You can, if you are ready, Mr. Murphy.

2337 Mr. Murphy. I will just say it creates uncertainty and it requires companies to make --

2338 Mr. Carter of Louisiana. And uncertainty kills business, doesn't it? It hurts our economy. The  
2339 uncertainty of not knowing if we are able to do business or not is one of the leading factors of why  
2340 businesspeople complain, they don't have the certainty of being able to conduct business.

2341 My time is over. I yield, Mr. Chairman.

2342 Mrs. Cammack. [Presiding.] The gentleman yields.

2343 The gentleman from New Jersey, Mr. Kean, is recognized for 5 minutes.

2344 Mr. Kean. Thank you, Madam Chairwoman.

2345 I want to thank our witnesses for being here today. I am very interested in learning about our  
2346 medical supply chains, especially in the biotechnology space.

2347 New Jersey has a thriving biotech industry for both brand name and generic drugs. I have  
2348 been pleased to see several companies make investments in the Garden State. These include  
2349 Ferring, Roche Diagnostics, Amneal, Novartis, and BeOne Medicines, amongst others.

2350 I am also a member of both the Energy and Commerce Committee as well as the House  
2351 Foreign Affairs Committee. In that committee, we are working on legislation to be to reauthorize the  
2352 State Department.

2353 I look forward to learning if I can use that work to build resilience and transparency in our  
2354 medical supply chains.

2355 Mr. Bolin, the med spa case that you cited in your testimony involved active pharmaceutical  
2356 ingredients sourced from an unregulated international online supplier.

2357 What challenges does NABP face in tracking and preventing the importation of counterfeit or  
2358 substandard APIs or GLP-1 drugs?

2359 And what can Congress and the U.S. Government do to strengthen international partnerships,  
2360 such as with custom agencies or to better address this issue?

2361 RPTR SEFRANEK

2362 EDTR ZAMORA

2363 [12:56 p.m.]

2364 Mr. Bolin. Sure. Thank you for the question, Congressman.

2365 So on the issue of med spas, I will say first there are legitimate operators that do things the  
2366 right way and compound correctly, but our members are seeing that most of the scary and egregious  
2367 things that are happening are happening in these largely unregulated facilities.

2368 So you have instances where you have unlicensed practitioners that are never inspected, are  
2369 setting things up in their homes or, you know, scarily, in their bathtubs. And, frankly, a lot of the  
2370 boards of pharmacy actually lack the jurisdiction to go in and inspect these facilities, so they will at  
2371 times have to work with the board of nursing or work with the medical board or refer to the attorney  
2372 general's office.

2373 So from a congressional perspective, any sort of visibility Congress can continue to shine on  
2374 this issue will help, because there are, we believe, thousands of these locations that will never see a  
2375 regulator come in the door. And so when you think about them obtaining this API from unregistered  
2376 forces, like, that is really, really scary when you think that people are injecting these things into their  
2377 body.

2378 Mr. Kean. Thank you.

2379 Mr. Cashman, my district has a number of pharmaceutical manufacturers, both brand name  
2380 and generics space. Can you speak to the challenges you have faced operating domestically? And,  
2381 additionally, what can Congress do to ensure that the companies that are choosing to do  
2382 manufacturing domestically can continue to do so?

2383 Mr. Cashman. Thank you, Congressman. Great question.

2384 I think, you know, I talked about the issue of prices before. And I just want to emphasize that  
2385 the difference in prices between us and many other foreign -- foreign generic suppliers is not very  
2386 big. It is somewhere between 10 and 20 percent in many cases. And in a few cases in government  
2387 contracts where we have checked that, we can actually offer better prices than the government paid  
2388 through the government contracting suppliers.

2389 So we could do better on some of the prices, but we do -- we have and we have lost business  
2390 for 10 cents a bottle on the commercial side. So that is very challenging.

2391 But I think one of the things that would definitely help everyone, I think, in the generic  
2392 industry have more stability and have the ability to have long-term contracts, which will allow us to  
2393 plan and -- plan our capital and expansion and scale up businesses in an efficient way.

2394 Mr. Kean. Thank you.

2395 Dr. Piervincenzi and Mr. Murphy, the FDA recently announced its plans to expand the use of  
2396 unannounced inspections at foreign manufacturing facilities. Can you explain how this policy change  
2397 will impact efforts to increase supply chain resilience and even domestic manufacturing?

2398 Mr. Murphy. So thank you for that question, Mr. Kean. Actually, I think there are net  
2399 positives in the ability to ensure that FDA has the flexibility to get in the facilities overseas and  
2400 provide the public with assurances of the safety of the medicine supply chain. So, you know, I think  
2401 we look forward to working with the agency to try and expand inspection capacity both domestically  
2402 and overseas to help ensure that we have a stable flow of medicines that come in to patients.

2403 Mr. Kean. Thank you. Doctor?

2404 Dr. Piervincenzi. Thank you for that question. Very much like FDA, USP has set up facilities  
2405 with teams in India and in China for specifically that purpose, which is a risk-based approach to all  
2406 assurance of quality medicines. You have to show up where you think the risks are and you have got

2407 to have enough resources. Otherwise, you are just inspecting in your backyard, and that is not only  
2408 not effective, but it is actually not fair to domestic manufacturers.

2409 Mr. Kean. Thank you to all the panel of witnesses.

2410 I yield back.

2411 Mrs. Cammack. Thank you. The gentleman yields.

2412 The chair now recognizes herself for 5 minutes. I know that is strange.

2413 So by now it has been made clear, as we come to the conclusion of the hearing, that  
2414 depending on adversarial nations like China for lifesaving medicines, it is dangerous. So I am not  
2415 going to repeat what has already been said here today. Instead, I want to talk about some solutions.

2416 So we have American manufacturers ready to produce the antibiotics, the generics, the APIs  
2417 that our system depends on, but they are getting crushed by subsidized competition from China and  
2418 India, while navigating a U.S. system that buries them in red tape and rewards the lowest bidder no  
2419 matter where it is made. This is a problem.

2420 So if we are serious about fixing this, we need to reward resilience. That means long-term  
2421 Federal purchasing contracts for essential medicines. It means fast-tracking approvals for domestic  
2422 facilities, and it means treating pharmaceutical manufacturing like the national security issue that it  
2423 is.

2424 And we also need to think bigger. Reshoring can't just mean the final pill or vial. It has to  
2425 include the full chain, starting from key intermediaries and chemical inputs. If we are still importing  
2426 the ingredients from China, we are still vulnerable.

2427 It should be about incentivizing domestic production of these early stage materials to truly  
2428 rebuild them from the ground up. And that means working closely with trusted allies as well,

2429 especially in Western Europe, to diversify our sourcing and to build in redundancy. So with one  
2430 facility going offline, it doesn't mean that we are putting other people at risk.

2431 The bottom line is that we cannot defend American lives with a drug supply chain that  
2432 depends on the goodwill of Beijing or New Delhi.

2433 So I want to thank you all for being here as witnesses before this committee and for speaking  
2434 on what is working, what is not, so that we can finally get this straight.

2435 Mr. Bolin, you have been highlighting the early successes of the Pulse platform. Now, as we  
2436 work to bring pharmaceutical manufacturing back to the United States and rebuild resilience into the  
2437 supply chain, I am very concerned about the counterfeit and substandard drugs slipping through the  
2438 cracks, particularly from overseas sources.

2439 Since Pulse has launched, what are the most alarming trends that you have seen, whether in  
2440 product type, origin, or distribution patterns, and what does that tell you about where the biggest  
2441 vulnerabilities lie?

2442 Mr. Bolin. Thank you, Madam Chair. I think the most disturbing thing that we have seen is  
2443 the fact that the very first scans that we conducted utilizing the tool found illegitimate and  
2444 counterfeit products. And that is just in a handful of States that are using the tool so far.

2445 The reality is that where there is money to be made, bad actors are going to find ways to  
2446 insert things into the supply chain. So it is going to require vigilance on the part of the State boards  
2447 of pharmacy, as well as the pharmacies themselves, to really think about where they are purchasing  
2448 their medications.

2449 I think one of the other challenges is when you have -- you know, we have talked today a lot  
2450 about what happens as products are being manufactured. We still have issues within the supply

2451 chain from the point a product enters the supply chain to the point it is dispensed. There is not a lot  
2452 of visibility and transparency in the supply chain.

2453 And so I would encourage Congress to think about ways that you can start to unlock some of  
2454 the capabilities that do exist. The fact that this law -- and you can track a product down to the  
2455 saleable unit, that unlocks the ability to really trace medications and address issues like drug  
2456 shortages, keeping illicit medications out of the supply chain.

2457 So I think let's leverage the investments that has already been made. That would be what I  
2458 would recommend for Congress.

2459 Mrs. Cammack. And you mentioned the States that have adopted it. What are the States  
2460 that are currently utilizing the platform?

2461 Mr. Bolin. So we have over 30 States that are currently utilizing the platform.

2462 Mrs. Cammack. I am not going to make you name them all.

2463 Mr. Bolin. Thank you for that. But we are finding good and early success with that, so we are  
2464 going to continue to help support our members so that they -- and provide additional tools to help  
2465 them detect counterfeit medication.

2466 Mrs. Cammack. Okay. In the interest of time -- I have got about a minute left. So you talked  
2467 about the -- needing transparency in the supply chain, and you said Congress needs to do more in  
2468 that space.

2469 So as we are effectively working to reshore the production and reinforce the supply chain,  
2470 how can we ensure that some of the regulatory tools, like Pulse, don't detect -- that just don't detect  
2471 threats but actually help eliminate them as well?

2472 Mr. Bolin. And so when you speak about that supply chain visibility, it is really getting  
2473 members of the supply chain to be more transparent and communicate with each other. There is so



2474 much information that is moving from the point of manufacture to distribution to dispensing, but no  
2475 one shares that. It is only when they have to share it.

2476 And so I think the supply chain being incentivized to actually do something, like the national  
2477 control tower that existed back during COVID, that was some of the most widespread visibility that  
2478 the supply chains had after the point of manufacture, and I think that is another opportunity to  
2479 consider.

2480 Mrs. Cammack. I would have more for you that I would like to follow up on, but I have run  
2481 out of time. So my time has expired.

2482 I yield to the gentleman from California, Mr. Obernolte. You are recognized for 5 minutes.

2483 Mr. Obernolte. Thank you very much. I want to thank our witnesses. This has been a really  
2484 valuable hearing for me.

2485 I represent, obviously, a district in California. But because of all the biopharmaceutical  
2486 research and innovation that occurs in California, particularly at our public institutions, it is obviously  
2487 of critical interest that we make sure that our supply chains are resilient.

2488 If I could start with Mr. Cashman, I was really interested in your testimony about how to make  
2489 our supply chains more resilient. And I thought it was poignant, you know, the story that you told  
2490 about when we allow our supply chains to be opaque and complex, how when we have an  
2491 unforeseen shortage, those supply chains can't respond. And you offered, I thought, some really  
2492 meaningful suggestions for improving that situation.

2493 But one of the things I was curious about, it seems like -- as a free market guy myself, it would  
2494 seem like market reactions would catalyze some of the solution to that problem. For example, one  
2495 of the things you suggested was long-term supply contracts. But if you are someone that has  
2496 consistent demand for a drug like amoxicillin and you have experienced a situation where supply is

2497 constrained and, therefore, the market reacts by raising prices up to astronomical levels, you would  
2498 think that would incentivize you, just from a financial perspective, to diversify your supply chains.

2499 Why is that not the case?

2500 Mr. Cashman. Congressman, it is exactly that. We have had commercial -- people in the  
2501 commercial market, customers of ours, approach us for long-term contracts because of the instability  
2502 of supply during 2022 and 2023. Those are, I think, very knowledgeable and innovative people who  
2503 want to avoid problems for a critical drug like amoxicillin.

2504 Unfortunately, much of the market is still very much focused on price. And as I said earlier,  
2505 10 cents a bottle for a product that sells for \$3.40, sometimes people walk away from us as a U.S.  
2506 supplier for a foreign supplier.

2507 Mr. Obernolte. It would just seem to me that there is a commercial incentive to not do that  
2508 when you are aware that locking yourself into a foreign supply might mean a lack of availability, and  
2509 paying just a couple cents more now for a long-term contract would ensure that that doesn't happen,  
2510 just from a dollars and cents standpoint would seem like people would be incentivized. But thank  
2511 you for the response.

2512 Dr. Piervincenzi, one of the things that I thought was really interesting about your testimony is  
2513 the criticality of manufacturing innovation here in the United States and, obviously, that is something  
2514 that would make our domestic manufacturers more competitive, it would simplify our supply chains,  
2515 it would incentivize domestic production.

2516 But, I mean, just to play devil's advocate for a moment, even if we came up with innovation  
2517 here, in short order, isn't that going to be duplicated elsewhere in the country? It doesn't seem to  
2518 me like -- although it is a desirable thing, it doesn't seem to me like that is a long-term solution to the  
2519 problem.

2520 Dr. Piervincenzi. So 100 percent, we should assume so. I think that is safe to say for just  
2521 about any innovation anywhere ever. However, the advantage of advanced manufacturing in the  
2522 U.S., it is a bigger advantage in the U.S. domestically, meaning it offers you lower environmental  
2523 footprint, it works with lower labor costs. These are bigger advantages here than they will be in a  
2524 lower-cost environment.

2525 And so while it is just as useful a technology, the benefit compared to the older technology is  
2526 higher in the U.S.

2527 Mr. Oberholte. Interesting. So it gets right at some of the things that make U.S.  
2528 manufacturers uncompetitive. That is interesting.

2529 Dr. Piervincenzi. It is true. And if I might just add one thing. The challenges at the facilities  
2530 that we currently have, they are 20-, 25-year life spans. The cost of a new facility, including for  
2531 advanced manufacturing, doesn't seem extremely high when you look at an innovator drug and the  
2532 potential for revenue. But for generic companies, it is out of reach at the moment.

2533 And so USP, we are working with some other partners to try to reduce that barrier at least  
2534 somewhat, but it is going to take something more. It is going to take some incentives to get over that  
2535 hurdle --

2536 Mr. Oberholte. Sure. I think Mr. Cashman was talking about hundreds of millions of dollars.

2537 Mr. Murphy, if I could end with you. In your testimony, you said that one of the things that is  
2538 constraining domestic -- our domestic ability to create supply, to manufacture supply is labor  
2539 shortage. What can we do about that?

2540 Mr. Murphy. Yeah. That is the most long-term problem that we have, right. Because we  
2541 have to start imbuing more STEM education and more embodiment of trade-type education into our  
2542 system.

2543 I mean, I don't like always talking about that because it is the one that is the most difficult to  
2544 address. We had a long discussion in this country earlier last year about H-1B visas because we  
2545 realized so much high-skilled manufacturing was necessary, and we didn't have the supply. But I  
2546 think we need a mobilization of how we educate and how we prioritize the education that is in the  
2547 United States to show what the job of the future will look like.

2548 Mr. Obernolte. Right. I completely agree. And it is not just pharmaceutical manufacturing  
2549 that is suffering with this problem. It is lots of different fields that we want to keep America at the  
2550 forefront of.

2551 I want to thank everyone for their testimony. I have really enjoyed the hearing.

2552 I yield back.

2553 Mrs. Cammack. The gentleman yields.

2554 The chair will yield to the ranking member for a few brief comments.

2555 Ms. DeGette. Thank you. It looks like we are about to end. I really want to thank you,  
2556 Madam Chair, and also the actual chair of the subcommittee, Mr. Carter.

2557 Listening to this panel, it is really clear that these are issues, they have always been bipartisan  
2558 issues, they are American issues, and I think we can all work together to solve them. We need to  
2559 recognize the situation we are being faced with right now and then work on that.

2560 I just do want to expand on the record a minute. The gentlelady from Iowa talked about a  
2561 North Carolina facility that is being built right now, and that is for pipette tips. That was funded with  
2562 \$79.9 million from the American Rescue Plan. And so we all think that there is a role for government  
2563 in this, and we should really work together to figure out how we can make it happen.

2564 And I yield back.

2565 Mrs. Cammack. The ranking member yields.

2566           At this time, I ask unanimous consent to enter into the record documents included on the  
2567 staff hearing document list.

2568           Without objection, so ordered.

2569           [The information follows:]

2570

2571           \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

2572 Mrs. Cammack. And I would like to thank again all our witnesses for being here today.

2573 Members may have additional written questions for you all.

2574 I will remind members that they have 10 business days to submit questions for the record,  
2575 which really means staff. And I ask the witnesses to respond to the questions promptly. Members  
2576 should submit their questions by the close of business Wednesday, June 25.

2577 So without objection, the subcommittee is adjourned.

2578 [The information follows:]

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2580 \*\*\*\*\* COMMITTEE INSERT \*\*\*\*\*

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2582 [Whereupon, at 1:13 p.m., the subcommittee was adjourned.]

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