

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1 Diversified Reporting Services, Inc.

2 RPTS EUELL

3 HIF143140

4

5 CHECK UP: EXAMINING FDA REGULATION

6 OF DRUGS, BIOLOGICS, AND DEVICES

7 WEDNESDAY, MAY 22, 2024

8 House of Representatives,

9 Subcommittee on Health,

10 Committee on Energy and Commerce,

11 Washington, D.C.

12

13 The subcommittee met, pursuant to call, at 10:33 a.m. in
14 Room 2322 of the Rayburn House Office Building, Hon. Brett
15 Guthrie [chairman of the subcommittee] presiding.

16

17 Present: Representatives Guthrie, Burgess, Latta,
18 Griffith, Bilirakis, Bucshon, Hudson, Carter, Dunn, Pence,
19 Crenshaw, Joyce, Balderson, Harshbarger, Miller-Meeks,
20 Rodgers (ex officio); Eshoo, Sarbanes, Cardenas, Ruiz,
21 Dingell, Kuster, Kelly, Craig, Schrier, Trahan, and Pallone

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

22 (ex officio).

23

24 Also present: Representatives Castor, DeGette, and
25 Schakowsky.

26

27 Staff Present: Jolie Brochin, Clerk, Health; Abigail
28 Carroll, FDA Detailee; Grace Graham, Chief Counsel; Sydney
29 Greene, Director of Operations; Emily King, Member Services
30 Director; Chris Krepich, Press Secretary; Karli Plucker,
31 Director of Operations (shared staff); Emma Schultheis, Staff
32 Assistant; Lydia Abma, Minority Policy Analyst; Jennifer
33 Black, Minority FDA Detailee; Jacquelyn Bolen, Minority
34 Health Counsel; Waverly Gordon, Minority Deputy Staff
35 Director and General Counsel; and Una Lee, Minority Chief
36 Health Counsel.

37

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

38 *Mr. Guthrie. The subcommittee will come to order, and
39 I will now recognize the chair. I will now recognize myself
40 for five minutes for an opening statement.

41 So today three important center directors for the U.S.
42 Food and Drug Administration are here with us to share
43 updates about the work they oversee with their respective
44 divisions.

45 And we really appreciate you being here.

46 With the agency now collecting the highest number of
47 user fees on record, it is critical we hear from the center
48 directors about the ongoing challenges the agency and
49 industry face in getting safe and effective products to
50 patients faster.

51 In addition to reauthorizing the user fee agreements,
52 Congress granted FDA a suite of additional authorities that
53 were signed into law in December of 2022. These include
54 updates to ensure clinical trials are reflective of the
55 broader patient population; greater transparency for sponsors
56 to collaborate with payers to decrease the time from a novel
57 product's approval to coverage; reforms to strengthen the
58 accelerated approval pathway and streamline processes for

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

59 manufacturers to update their software without unnecessary
60 regulatory hurdles.

61 I am proud of the bipartisan work this subcommittee has
62 accomplished throughout the last user fee reauthorization.
63 Since then, FDA has approved and cleared hundreds of new
64 products. Our work collectively enabled the review and
65 approval of 55 novel drugs in 2023, and the approval of
66 almost 1,000 generic drug applications. During that same
67 time there were 23 biologics device applications and 20
68 biologics license applications approved, and over 100 novel
69 devices cleared by the FDA.

70 Cell and gene therapy is of particular importance and
71 interest to me and others in Congress. We are on the
72 precipice of a renaissance in health care in which
73 personalized medicine can cure otherwise incurable diseases.
74 For example, among those medicines approved in 2023 were 2
75 cutting-edge, potentially curative gene therapies for sickle
76 cell disease. Just last summer CBER also approved a therapy
77 to address underlying cause of the disease in Duchenne
78 muscular dystrophy in boys aged four to five. Both examples
79 illustrate the incredible value American innovation plays in

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

80 our health care system, and the value the FDA brings to help
81 facilitate this remarkable work.

82 That being said, I have some concerns that I hope to
83 have addressed today that threaten to undermine the strides
84 we have made. Missteps by the Biden Administration have
85 already caused uncertainty among innovators in these small
86 biotechnology companies that could impede patients' ability
87 to access innovative products.

88 The repeated attacks on the accelerated approval pathway
89 from CMS, which is second-guessing FDA's equities to
90 academics and payers alike, insisting that these approvals
91 are unproven or lesser than traditional review pathways,
92 degrades public trust and an important tool the agency has to
93 help safely and effectively get cures to patients more
94 quickly.

95 This is also a pathway that Congress -- and bipartisan
96 Congress -- has repeatedly strengthened and supported. The
97 recently-released 5,000-page Laboratory Developed Test, or
98 LDT Rule, has been touted as a mechanism to drive more
99 innovation and protect patient safety. I fear this complete
100 overhaul of LDT regulation will have the opposite effect.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

101 Instead of driving up costs of care and delaying patient
102 access to lifesaving care, tests developed to treat patients
103 at the bedside to detect early stage cancer or detect
104 Alzheimer's sooner will be subject to onerous requirements
105 under the new regime proposed by CDRH.

106 The FDA must work with Congress on a long-term solution
107 that balances patient safety and facilitates future
108 innovation. Last year, Ranking Member Eshoo and I wrote Dr.
109 Marks about clinical holds. According to the Wall Street
110 Journal, there was an average of 664 clinical holds which
111 temporarily stopped clinical research between 2017 and 2021,
112 up from 557 average annual holds in prior years. In response
113 to our inquiry, we learned that 79 percent of the responses
114 to innovators' questions about their applications and the
115 holds associated with those application were written-only
116 responses.

117 To be clear, I understand the complex nature of these
118 applications, but providing written responses to complex
119 questions with no chance for a true dialogue isn't
120 acceptable. It is imperative for the agency to literally
121 come to the table and work through these issues with

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

122 innovators, or else patients will be left without answers and
123 without lifesaving care.

124 In closing, I want to thank the witnesses for being here
125 today. I know your work is not easy. I know that our job is
126 to -- your job is that we have safe and effective
127 medications, but we must know that patients are counting
128 sometimes months. If you are a parent with a child with
129 Duchenne muscular dystrophy, the race to keep them out of a
130 wheelchair before they get access to medicines is real. It
131 is important. An accelerated path is real and important, and
132 it has been bipartisan, and we want to work together. That
133 is our pledge, to work together to bring these innovative
134 technologies to market.

135

136

137

138 [The prepared statement of Mr. Guthrie follows:]

139

140 *****COMMITTEE INSERT*****

141

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

142 *Mr. Guthrie. And I will yield back and recognize the
143 ranking member for five minutes for her opening statement.

144 *Ms. Eshoo. Thank you, Mr. Chairman, and good morning,
145 colleagues.

146 Today we welcome leaders from the FDA to discuss the
147 work of the Center for Drug Evaluation and Research, the
148 Center for Biologics Evaluation and Research, and the Center
149 for Devices and Radiological Health. Dr. Cavazzoni, Marks,
150 and Shuren, it is wonderful to see you. It is good to see
151 you. I think this is the first time in 30-plus years that I
152 have seen the three leaders here together, so it is extra
153 special today.

154 The FDA oversees the safety of more than \$3.6 trillion
155 worth of products, including more than 6,500 medical devices,
156 1,600 FDA-approved animal drug products, and 20,000 FDA-
157 approved prescription drugs. The FDA also regulates 78
158 percent of our nation's food supply. Overall, FDA-regulated
159 products account for \$0.21 of every dollar spent by U.S.
160 consumers.

161 The FDA's mission to protect the public's health leaves
162 no room for error, yet the FDA has a Herculean task: oversee

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

163 a huge segment of products Americans rely on with almost the
164 same amount of money a single county in Maryland funds its
165 schools with. Just think about that for a moment. The FDA's
166 budget was \$6.7 billion in fiscal year 2023, with over half
167 of the funding provided by the Federal Government. The
168 remaining funding was provided by the industries the FDA
169 oversees in the form of user fees. Per capita, FDA's budget
170 amounts to \$10.78 per American.

171 Congress has not set the FDA up for success. Drug
172 shortages are a key example. Drug shortages have for decades
173 threatened adequate delivery of quality patient care and
174 severely limited Americans' access to lifesaving drugs. Drug
175 shortages are caused by long-term structural factors,
176 including our over-reliance on foreign sources for essential
177 medicines and Active Pharmaceutical Ingredients that are
178 known as APIs.

179 Last September our subcommittee held a legislative
180 hearing on drug shortages after months of horror stories
181 shared by physicians and patients about shortages of
182 lifesaving treatments for treating cancer. Included in the
183 hearing was my Drug Origin Transparency Act to provide the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

184 FDA with the information they have repeatedly said they need
185 to identify where drugs and APIs are made to prevent
186 shortages. Almost a year later, we have not advanced
187 legislation to address drug shortages.

188 The stories I hear from patients and physicians,
189 especially those treating children, have not stopped coming
190 in. In April 20, 2024 survey by the American Society of
191 Health-System Pharmacists found shortages of critical drugs
192 reached another record high this year, with more than 323
193 drugs in shortage.

194 Democratic members of this subcommittee have put forward
195 well-thought-out policies to require manufacturers to inform
196 the FDA if there is a sustained increase in demand for a drug
197 or ingredient, and allow the FDA to recall products from the
198 market to prevent harm to consumers. We can't keep doing
199 what isn't working and expect a different result. It is in
200 our nation's best interest to ensure the FDA can
201 comprehensively address drug shortages and other issues that
202 touch the lives of millions of Americans.

203 I hope our subcommittee takes on this critical issue in
204 earnest without delay. We can start by meeting President

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

205 Biden's request for \$7.2 billion in funding for the FDA in
206 fiscal year 2025, which is a \$495 million increase over the
207 previous year. Additional funding means faster reviews, and
208 approvals of drugs, and more frequent inspections of foreign
209 manufacturing facilities: two topics that our subcommittee
210 and industry agree are needed. So I look forward to hearing
211 from our distinguished witnesses today on how Congress can
212 best support the FDA's work.

213 [The prepared statement of Ms. Eshoo follows:]

214

215 *****COMMITTEE INSERT*****

216

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

217 *Ms. Eshoo. And with that I yield back, Mr. Chairman.

218 *Mr. Guthrie. Thank you. The gentlelady yields back,
219 and the chair recognizes Chair Rodgers for five minutes for
220 her opening statement.

221 *The Chair. Thank you, Chairman Guthrie.

222 Dr. Cavazzoni, Dr. Marks, Dr. Shuren, thank you for
223 joining us today.

224 The FDA plays a critical role in the health and well-
225 being of the American people. If it is successful in its
226 mission, it has the potential to save and extend people's
227 lives. If it fails in its mission, the cost could be
228 astronomical and devastating. The FDA is responsible for
229 regulating more than \$3.6 trillion worth of food, tobacco,
230 and medical products, about \$0.20 of every dollar spent in
231 the United States.

232 Americans must have confidence that the agency is doing
233 its job. They have to be able to trust that medical products
234 they are relying on are safe and effective, and it is
235 Congress's duty to ensure that the FDA is using the resources
236 and authorities it has been given to protect and advance
237 public health.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

238 I am proud that America has been a leader in developing
239 innovative treatments such as non-addictive medicines for
240 chronic pain, so-called N-of-1 drugs, where hospitals are
241 making drugs designed for one patient, and implantable upper
242 airway devices for pediatric patients with Down syndrome and
243 severe sleep apnea. All these things, which will make a
244 meaningful difference in people's lives, were recently
245 approved by the FDA or will be seeking review in the near
246 future.

247 There are also advances that could reduce the amount of
248 time it takes for new technology to reach patients in need.
249 New biomarkers have been developed from advances in genetic
250 sequencing, manufacturing techniques, and methods to generate
251 clinical data that, if used properly, could decrease cost and
252 time to demonstrate these new technologies meet FDA
253 standards.

254 This committee worked in a bipartisan manner to give FDA
255 new tools in the last user fee reauthorization, and we expect
256 the agency to use these tools to pave the way for
257 groundbreaking innovation. I firmly believe that the
258 accelerated approval pathway should be leveraged now more

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

259 than ever, as more and more diseases can be treated or even
260 cured because of a better understanding of their mechanisms
261 of action and genetic signatures.

262 FDA approval, unfortunately, is not the final hurdle for
263 patients, as significant problems with CMS and private
264 coverage still persist. But it is an important first step.
265 FDA cannot move backwards, and I am worried that we are
266 starting to see warning signs that that may be occurring.

267 For example, I am disappointed to see that, according to
268 the fiscal year 2023, PDUFA and MDUFA performance reports,
269 all three centers here before us today have failed to meet
270 critical performance, process, and hiring goals, despite all-
271 time highs in funding.

272 In addition, the agency has been failing to adequately
273 accommodate in-person meetings and to respond to outreach
274 related to major clinical and scientific development
275 decisions in a timely manner. This is especially concerning,
276 as the FDA has unilaterally decided it can regulate, by its
277 own estimate, 80,000 tests under the Laboratory Developed
278 Tests Final Rule.

279 FDA leadership often says that the right -- says the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

280 right things regarding speeding up innovation to patients
281 when the benefits outweigh the risks, such as not asking
282 nice-to-know questions if the statutory standard for approval
283 has been met, not moving the goal post after a company has
284 invested millions of dollars and years of time on a clinical
285 trial FDA once said was the best path forward.

286 The challenge is making sure the sentiments expressed by
287 the agency's leadership are reflected by the application
288 reviewers. Unfortunately, I am hearing the opposite from
289 stakeholders who are finding FDA review staff more
290 disconnected and difficult to work with than ever before.

291 Everyone on this dais wants the FDA to succeed because,
292 if the FDA succeeds, American innovation flourishes, leading
293 to better outcomes for patients. And I am hopeful that we
294 can have a productive conversation about what challenges the
295 agency is facing and why, and how Congress can help the FDA
296 streamline operations and provide clear, consistent,
297 scientific, and regulatory information to innovators and drug
298 manufacturers that are looking to improve the daily lives of
299 Americans.

300 [The prepared statement of The Chair follows:]

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

301

302 *****COMMITTEE INSERT*****

303

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

304 *The Chair. Thank you, and I yield back.

305 *Mr. Guthrie. The gentlelady yields back, and the chair
306 recognizes the ranking member of the full committee, Ranking
307 Member Pallone, for five minutes for an opening statement.

308 *Mr. Pallone. Thank you, Mr. Chairman.

309 We are here today for an update on the hard work that
310 the FDA does every day to ensure the safety and efficacy of
311 drug and medical devices. Every year FDA rigorously reviews
312 hundreds of applications for drugs and biological products at
313 the Center for Drug Evaluation Research and the Center for
314 Biologics Evaluation, Research, and Medical Devices at the
315 Center for Devices and Radiological Health. And today we
316 will hear from the centers' directors of each of these
317 branches of the agency.

318 And I would like to thank all of you for being here
319 today.

320 In recent years FDA's work has garnered more attention
321 from everyday Americans, especially during the pandemic. And
322 this attention has also brought increased scrutiny. And I
323 think it is important for the public to know that they can
324 trust the products available to them, and that the public

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

325 servants at FDA are working around the clock to protect their
326 health and well-being.

327 I also believe it is important to discuss areas in which
328 the agency can do more to protect public health. However, I
329 want to note that, as we ask FDA to take on additional
330 responsibilities, it is up to Congress to provide the agency
331 with the tools and resources it needs to fulfill those tasks.
332 And I have repeatedly said that Congress must come together
333 on a bipartisan basis to give FDA the additional tools and
334 resources it needs to provide patients and health care
335 providers with confidence that the medical products they rely
336 on are safe, effective, and available.

337 We have been asking our Republican colleagues for more
338 than a year to advance meaningful legislation that would
339 provide additional tools and authorities to address ongoing
340 drug shortages, prevent future drug shortages, and strengthen
341 the medical supply chain. However, Republicans have
342 repeatedly declined to join Democrats to pass legislation to
343 do so, including through the Pandemic and All-Hazards
344 Preparedness Act, which they have still failed to
345 reauthorize.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

346 And it is especially frustrating that Republicans have
347 been unwilling to put any new requirements on drug
348 manufacturers to help address the shortages that continue to
349 affect Americans. For example, we should know where our
350 drugs and their critical ingredients are being made so that
351 when a drug shortage or other supply interruption occurs, FDA
352 and manufacturers can react quickly and appropriately.

353 We should also ensure that FDA is notified when an
354 unexpected surge in demand for a drug occurs and is likely to
355 cause a shortage.

356 It is also unacceptable that the agency still does not
357 have the ability to recall unsafe, adulterated, or otherwise
358 dangerous products, and is instead forced to rely on the
359 goodwill and voluntary compliance of manufacturers.

360 Committee Democrats would also like to make progress on
361 strengthening the pipeline for pediatric drugs, and ensuring
362 that drug manufacturers are fulfilling their responsibilities
363 to conduct studies in pediatric populations, as I mentioned
364 at last week's markup. But unfortunately, Republicans, not
365 -- Republicans have not been willing to work with Democrats
366 to move forward on any of the meaningful proposals I

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

367 mentioned to address these important issues.

368 So we simply cannot expect more from an agency without
369 providing the necessary tools and resources. It is incumbent
370 upon Congress to provide FDA with more resources, more staff,
371 and the appropriate authorities in order to continue to
372 fulfill its mission. We can all agree FDA faces new and
373 unique challenges, but they can only do what we provide them
374 with the authority to do, and this task will only continue to
375 become more complex and more demanding in the years ahead.

376 So in closing, I hope that Congress can come together to
377 support FDA in fulfilling its mission and addressing these
378 challenges. Democrats stand ready to work across the aisle
379 to support the agency's tireless work to protect Americans
380 health and well-being, and I look forward to hearing from our
381 witnesses and thank them.

382 Well, I thank all of you.

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

384

385 *****COMMITTEE INSERT*****

386

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

387 *Mr. Pallone. I yield back, Mr. Chairman.

388 *Mr. Guthrie. Thank you. The gentleman yields back,
389 and now we will -- that concludes opening statements, and the
390 committee will move into testimony from our witnesses today,
391 and I will introduce all three of you and then call on you
392 one at a time.

393 So today we have Dr. Patrizia Cavazzoni, director,
394 Center for Drug Evaluation and Research; Dr. Peter Marks,
395 director, Center for Biologics Evaluation and Research; and
396 Dr. Jeff Shuren, director, Center for Devices and
397 Radiological Health.

398 So thank you all for being here. It is important, as I
399 said, that we all work together to move the innovation
400 forward, and we look forward to hearing from you.

401 So now we will begin with five minutes by Dr. Cavazzoni.

402

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

403 STATEMENT OF PATRIZIA CAVAZZONI, M.D., DIRECTOR, CENTER FOR
404 DRUG EVALUATION AND RESEARCH; PETER MARKS, M.D., PH.D.,
405 DIRECTOR, CENTER FOR BIOLOGICS EVALUATION AND RESEARCH; AND
406 JEFF SHUREN, M.D., J.D., DIRECTOR, CENTER FOR DEVICES AND
407 RADIOLOGICAL HEALTH

408

409 STATEMENT OF PATRIZIA CAVAZZONI

410

411 *Dr. Cavazzoni. Chair Guthrie, Ranking Member Eshoo,
412 and members of the subcommittee, thank you for the
413 opportunity to testify before you today.

414 As we are generally focusing on innovation, my testimony
415 will focus primarily on new drug development. CDER also
416 works on generic drugs, biosimilars, over-the-counter drugs,
417 and drug shortages, among many other activities.

418 In 2023 CDER approved 55 novel drugs. Of these, about
419 two-thirds were approved first in the United States and the
420 third were first in class.

421 We are also continuing to make progress in the approval
422 of therapies for rare diseases. Between 2013 and 2023 CDER
423 and CBER approved 277 orphan drugs and biologics. Last year

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

424 CDER approved 28 orphan-designated drugs, representing half
425 of the novel drug approvals.

426 But we can't rest on our laurels, and need to find ways
427 to accelerate the development and approval of therapies for
428 rare diseases because there is still a huge unmet need.

429 Coupled with regulatory flexibility, our regulatory
430 tools have allowed us to make major inroads, but challenges
431 remain when it comes to rare diseases with relatively smaller
432 patient populations. We are witnessing unprecedented
433 progress in the science that underpins the development of
434 therapies for rare diseases, and better science will lead to
435 better drugs, as we have seen in other areas.

436 To seize the moment we have been expanding CDER's
437 Accelerating Rare Disease Cures program, which we launched
438 two years ago. This program brings together expertise across
439 CDER and beyond, and engages with the rare disease community
440 on how to navigate drug development and the regulatory review
441 process. Our rare disease team works to promote consistency
442 in the review of rare disease programs and in what is
443 communicated to drug developers in the rare disease
444 community.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

445 CDER and CBER have partnered in many areas of rare
446 disease drug development. For instance, you will hear more
447 from Dr. Marks about the START pilot program. We received
448 numerous proposals and made our selections, and will be
449 notifying sponsors soon.

450 Beyond these programs I want to discuss other activities
451 we have underway to promote clinical trial innovation. Just
452 last month we launched the CDER Center for Clinical Trial
453 Innovation. This new program will serve as a hub that will
454 support the implementation of innovative approaches to
455 clinical trial design, as well as conduct, through enhanced
456 communication and collaboration, and by conducting
457 demonstration projects in areas that have historically posed
458 challenges.

459 Expanding the use of real-world evidence is a crucial
460 aspect of our push to innovate how drugs are developed.
461 There is a long history of using real-world evidence to
462 support regulatory decisions, primarily in the evaluation of
463 post-market safety. The next frontier is about spurring the
464 use of real-world evidence to evaluate the effectiveness of
465 drug therapies. This is particularly relevant to the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

466 development of drugs for rare diseases with relatively
467 smaller populations, where it may not be possible to identify
468 a sufficient number of patients to participate in clinical
469 trials. For example, last year we relied on real-world
470 evidence from a patient registry in conjunction with a small
471 clinical trial to approve the first treatment for
472 Friedreich's ataxia, a rare, inherited neurodegenerative
473 disease.

474 I am going to conclude with an emphasis on rare
475 diseases. As you will hear from Dr. Marks, we are at a
476 turning point in our understanding of the science that is
477 opening doors to treatment that would have been unthinkable
478 only a few years ago, such as gene therapies and drugs that
479 work on gene expression. But despite all the progress, there
480 are still too many rare diseases that lack treatment options,
481 and we need to do more to alleviate the suffering of rare
482 disease patients and their families. For this reason, CDER
483 and CBER are actively working to develop a shared vision and
484 a plan for areas that are critical to rare disease drug
485 development, such as communication with the rare disease
486 community, novel endpoints, biomarker development, and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

487 innovative trial designs, while maintaining our current
488 structure in order to take full advantage of clinical and
489 scientific expertise across both centers.

490 It is crucial that we have the best collaboration and
491 coordination across the medical product centers to fulfill
492 our goal to bring better treatments to rare disease patients
493 and their families.

494 Thank you for your time today, and I look forward to
495 answering your questions.

496 [The prepared statement of Dr. Cavazzoni follows:]

497

498 *****COMMITTEE INSERT*****

499

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

500 *Mr. Guthrie. Thank you. Thank you for your testimony,
501 and the chair will now recognize Dr. Marks for five minutes
502 for your opening statement.
503

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

504 STATEMENT OF PETER MARKS

505

506 *Dr. Marks. Chair Guthrie, Ranking Member Eshoo, and
507 the members of the Subcommittee on Health, thank you for the
508 opportunity to testify before you today.

509 The Center for Biologics Evaluation and Research focuses
510 on advancing the development of and regulating complex
511 biologic products including, among others, blood components,
512 vaccines, and cell tissue, and gene therapies. The past year
513 has brought progress in each of the areas we oversee. For
514 example, last year we issued updated blood donor guidance
515 that implemented an individual risk assessment strategy for
516 all blood donors, and we are currently in the process of
517 issuing draft guidance that will implement a similar
518 individual risk assessment for tissue donors.

519 Following a second recent outbreak of tuberculosis
520 involving multiple recipients who received bone grafts from a
521 common donor, we will issue guidance to ensure that
522 appropriate steps are taken to minimize the possibility of
523 this happening in the future.

524 And both to protect the public from unsafe or

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

525 ineffective products, while at the same time spurring
526 innovation, we plan to revisit our current regulatory
527 framework for human cells, tissues, and tissue products. We
528 realize that there are current regulatory frameworks that
529 could potentially benefit from a more nuanced regulatory
530 approach while still ensuring key questions of safety,
531 effectiveness, and product quality have been addressed.

532 In the area of vaccines we have passed here, we approved
533 two respiratory syncytial virus vaccines for use in older
534 individuals, and one of them was also approved for use in
535 pregnant women to prevent -- to prevent RSV in the newborn.

536 Staying on the topic of respiratory viruses, we remain
537 vigilant for further evolution of the virus that causes
538 COVID-19, and will be discussing appropriate vaccine
539 composition with our Vaccines Advisory Committee on June 5,
540 2024.

541 We have also made significant strides over the past year
542 in the field of gene therapy, with 6 products approved in
543 2023. As a hematologist who cared for many individuals
544 suffering from the myriad complications of sickle cell
545 disease, I greatly appreciate that these approvals included

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

546 two cell-based gene therapy products for this condition. Of
547 note, one of these products was the first for a one that used
548 the CRISPR technology, which may be transformative, and we
549 are working to implement both the letter and the spirit of
550 the platform technology provision of the 2023 omnibus, which
551 may expedite the pace of progress, particularly in the place
552 of gene therapy.

553 Gene therapy has raised many hopes, particularly for
554 rare diseases. However, several impediments hinder its
555 growth. These include manufacturing, clinical, and
556 regulatory challenges. Although we may not be able to
557 address all of these challenges through the work of the FDA,
558 we believe that we have a central role to play in our own
559 center and in working across centers at FDA.

560 At CBER we are collaborating with stakeholders to
561 address manufacturing challenges through internal and
562 external scientific collaboration.

563 Also, informed by the use of the -- excuse me, also
564 informed by the critical medical needs of numerous rare
565 disease patient populations, we are applying the use of
566 accelerated approval to gene therapies when appropriate and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

567 when there is strong scientific underpinning that indicates
568 that they will meet our standards for quality, safety, and
569 effectiveness.

570 Global regulatory convergence and collaboration should
571 also foster the development and availability of more products
572 for rare diseases, and we have initiated a pilot program
573 called CoGen T with regulatory colleagues in other countries
574 to help facilitate this.

575 We will also leverage what we have learned over the past
576 several years during the pandemic to try to improve the
577 situation for rare disease patients in this country. One
578 specific program to highlight is the STAR communications
579 pilot, which intends to provide at least three CBER products
580 and three CDER products with ongoing communication as needed,
581 in a manner similar to that which Operation Warp Speed did
582 for the COVID-19 vaccines. We are in the process of making
583 final selections and notifying participants, and the hope is
584 that we can significantly reduce development time to reduce
585 suffering and save lives.

586 Finally, we know that for rare diseases the only way we
587 will accomplish our goal most rapidly, expediting progress

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

588 for patients, is if we optimally communicate, coordinate, and
589 collaborate across the medical product centers. As Director
590 Cavazzoni noted earlier, CDER and CBER are actively working
591 to develop and implement a rare disease innovation agenda
592 that will be based on a shared vision and comprehensive
593 approach to aligning review efforts to the greatest extent
594 possible, identifying and enabling innovative approaches, and
595 streamlining communication internally and externally with all
596 interested parties to ensure that rare diseases receive the
597 concerted attention that they deserve. We very much owe this
598 to patients.

599 Thank you for the opportunity to testify today. I look
600 forward to answering your questions.

601

602

603

604 [The prepared statement of Dr. Marks follows:]

605

606 *****COMMITTEE INSERT*****

607

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

608 *Mr. Guthrie. Thank you for your testimony. And the
609 chair will now recognize Dr. Shuren for five minutes for your
610 opening statement.
611

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

612 STATEMENT OF JEFF SHUREN

613

614 *Dr. Shuren. Chair Guthrie, Ranking Member Eshoo,
615 members of the subcommittee, thank you for the opportunity to
616 testify today.

617 I became the director of CDRH almost 15 years ago, in
618 September 2009. At that time no innovative technology came
619 to the U.S. first or second or third. It went to Europe, it
620 went to other countries. At the end of that calendar year we
621 had only authorized 25 novel technologies. All of our
622 stakeholders were upset with the program. We made a
623 commitment to change that dynamic, set a new vision, changed
624 our programs and policies and practices, got help from
625 Congress. And so last year, excluding COVID devices, we
626 authorized 124 novel technologies, a fivefold increase, the
627 highest number in the almost 50-year history of our program
628 and at a time when we received more pre-market submissions
629 than almost a decade.

630 And today, over 50 percent, as much as two-thirds of the
631 innovators for the U.S. market, do bring their novel
632 technologies here first, or in parallel with other major

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

633 markets. We literally went from 0 to 60, and that is great,
634 except I look at it and say, well, we have got at least
635 another third, and we have got to make good on it, and we are
636 working on that.

637 One of the ways we got there, we launched our
638 Breakthrough Devices Program, which got codified into the
639 law. Today we designate over 100 medical devices as
640 breakthrough every single year. And the overwhelming
641 majority that come to us for pre-market review we authorize.

642 But most of those devices that get a designation never
643 get to patients. Sometimes they are not safe and effective,
644 and they shouldn't be out there. But many times it is for
645 other challenges, because there are lots of obstacles going
646 from concept to commercialization. It is appropriately
647 called the Valley of Death.

648 And so last year we launched a pilot as part of our
649 program to change that dynamic. We created a new position,
650 the Tap advisor. And rather than our traditional approach of
651 a company comes to us and we react to their questions, the
652 advisors engage proactively and strategically and in real
653 time, working with those innovators to identify their

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

654 challenges and to work on solutions. And that may be their
655 needs for FDA, but also incorporating the voice of patients,
656 the evidence they may need to push adoption by providers and
657 patients, or challenges with payers like coverage and
658 reimbursement. The feedback has been very positive. One
659 company noted that, by being in the program, they have
660 already saved over a year in development time. That is real
661 progress.

662 But we have other challenges. It doesn't matter if you
663 have great technology if people don't have access to it. And
664 today too many Americans don't have access to good care.
665 They are disenfranchized by the health care system. Eighty
666 million people live in primary care deserts, and that is in
667 part because our health care system was designed around brick
668 and mortar facilities. And to meet the needs of hospital
669 administrators, it wasn't designed around patients and their
670 needs. And at the same time we are seeing health care costs
671 go up.

672 So to try to address that we are looking at how do we
673 really change health care delivery. That means moving care
674 as much as possible from those brick-and-mortar facilities to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

675 people, to where they live, to -- into the home so they have
676 those opportunities, with a focus on under-represented
677 populations.

678 And so just a few weeks ago we launched our initiative,
679 Home as a Health Care Hub, where we have partnered with an
680 architectural firm with expertise in the area to create a
681 virtual reality model, a prototype to serve as an idea lab
682 for innovators so they can start to make what we really need:
683 integrated, medical-grade consumer technologies that meet the
684 needs of people. That allows the opportunity to drive down
685 costs, provide care to more, and the opportunity to better
686 participate in clinical trials.

687 We are focused on under-represented populations like
688 rural communities and starting with diabetes. We have
689 partnered with patient groups like the Juvenile Diabetes
690 Research Foundation, provider groups like the American
691 Diabetes Association, and MedTech innovators. The goal is
692 that prototype will be out later this year for widespread
693 use.

694 So that is just a few examples of the kind of
695 innovations that we are doing at CDRH because, at the end of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

696 the day, if we want industry to be innovative, if we want to
697 get innovations to people who need it, then government has to
698 be innovative, too. Thank you.

699 [The prepared statement of Dr. Shuren follows:]

700

701 *****COMMITTEE INSERT*****

702

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

703 *Mr. Guthrie. Thank you, thank you. That is excellent
704 testimony. We concluded our opening statements, and we will
705 move into questioning, and I will recognize myself five
706 minutes for that purpose.

707 So Dr. Marks, Ranking Member Eshoo and I wrote you a
708 letter, and I mentioned in my opening statement about the
709 written responses. And so Monday -- I guess it was Monday,
710 it might have been Tuesday -- I had the chance to visit where
711 they are doing the cell therapy for diabetes, and with Dr.
712 Felicia Paralia -- if I said that correctly -- but it was
713 just amazing to stand there and see little cells floating in
714 solution that implanted in a human body. It produces insulin
715 on demand, and it is just fascinating, and just all of that
716 that is happening here in the space.

717 I also saw another company that had an ALS drug that
718 they had very promising research. They had another study,
719 and so it wasn't as promising as they thought it was going to
720 be, so they are regrouping and trying to figure out what the
721 difference is in the two studies.

722 Having said that, I know that every bit of promising
723 technology does take effort to make sure it is safe, it is

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

724 effective, and it is going to be -- can really move this
725 country forward. Because you stand there talking to Dr. --
726 and this is a person that has changed the world, if her
727 technology is really -- and it has been implemented, and it
728 has been successful, and cured -- I don't know if "cured" is
729 the right word, but people were insulin independent who have
730 type 1 diabetes.

731 And so having said that, I know we all have to get to --
732 I know Operation Warp Speed was something that you guys did
733 fantastically on, and I remember saying there shouldn't be
734 another group of people in Washington with more esprit de
735 corps than FDA, after coming together on a common mission and
736 getting it accomplished. So these diseases, like diabetes
737 and others, seem to be the same.

738 And I am not saying this specific person had issue with
739 FDA, but just in general these innovative technologies and
740 only getting -- and the problem isn't that we don't want FDA
741 to rush beyond and not do stuff safe and effective, but it
742 seems like we would have a better effort than just written
743 responses to these kind of questions.

744 And so I guess my question -- I know that -- do you have

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

745 an update on what happened with the 79 percent, and what you
746 are doing to make that better?

747 *Dr. Marks. Yes, so thank you for that question.

748 So we are working to reduce the number of written
749 responses. They went up very significantly during the COVID-
750 19 pandemic, when we had a tremendous number of applications
751 and for various circumstances. They are not at a level where
752 I want to see them at, because I do agree, fully agree, with
753 multiple members who have already stated something like this,
754 that dialogue, live, is very important. So we are working to
755 reduce the number of written responses.

756 We are also working to reduce the number of clinical
757 holds, and that actually -- we have made, actually, visible
758 progress on that at our center from rates of 22 to 26 percent
759 in 2021 and 2022. We are down in 2023 to 13 percent. And so
760 far this year we are at about a 10 percent clinical hold
761 rate. So that has come down significantly, in part because
762 of active dialogue that we are having with sponsors during
763 their 30-day review period for their Investigational New Drug
764 application.

765 So I guess the sum of this is I agree with you, and we

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

766 will continue to try to enhance communication, reduce the
767 number of written responses, and reduce the number of
768 clinical holds so we can have innovation proceed as fast as
769 it can.

770 *Mr. Guthrie. I just want to emphasize it is not -- the
771 request isn't the shortcut. The request is to make sure that
772 any time that is inefficient is done away with so we can get
773 these to the marketplace quicker.

774 So Dr. Shuren, I know we had meetings when I first got
775 on the committee about what was going on in the medical
776 device -- in your area, and made commitments, and you just
777 talked about successes that you have made. So we appreciate
778 that. I know that we can all work together to move forward.
779 It incredible, what is going on, as you all know, and what
780 your scientists are involved in, making sure these come to
781 the forefront.

782 The other one is artificial intelligence. I know
783 Representative Obernolte is the leader of our special task
784 force, and Crenshaw -- Mr. Crenshaw and Dr. Miller-Meeks sent
785 a letter or wrote to you regarding comments you made about
786 artificial intelligence. So I just kind of wanted to maybe

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

787 have a chance for you to clarify.

788 You talked about a safe space design, and maybe use
789 third party to look at safe space design for AI. I do know
790 that we have had some concerns from people because there is
791 one that was mentioned, the Coalition for Health AI, and I
792 want to -- that had major players in the space on their
793 board. And so a lot of the smaller innovators are concerned
794 that the major players will be reviewing their AI.

795 So the question is, is it going to be a voluntary to
796 submit to this lab? And how do you make -- how do you ensure
797 that small players can be innovative in this space?

798 *Dr. Shuren. So this sort of concept is called an
799 assurance lab. You know, for innovators today, if you are
800 making artificial intelligence-enabled medical devices, one
801 of the challenges is you need access to large data sets to be
802 able to design, train, and validate those technologies. And
803 many of them don't.

804 So the idea of an assurance lab -- and we can't set that
805 up at the FDA, so we are partners. What that looks like is
806 to have more of a federated model of these data repositories
807 that -- where they have already been evaluated, so you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

808 understand their characteristics, fit for purpose --

809 *Mr. Guthrie. Thanks. I didn't leave you much time,
810 but is it going to be voluntary, or how are you going to
811 ensure that it is innovative --

812 *Dr. Shuren. It is voluntary. And actually, we are
813 working with the VA. They are interested in setting it up.
814 So we think we can learn from that set as a model, and put
815 that out there as best practices.

816 *Mr. Guthrie. Okay, thanks. I am sorry I asked you a
817 long question and left you a short time to answer, so I
818 apologize.

819 And I will yield back and recognize the ranking member
820 for five minutes for her questions.

821 *Ms. Eshoo. Thank you, Mr. Chairman.

822 Just before I came over to this hearing room I was down
823 the hall in the Gold Room with the director of the National
824 Science Foundation, and they had -- there are now 35 projects
825 that have been launched through the NAIRR and, you know, they
826 are all experimental, but there is a great deal that is
827 taking place across Federal agencies, NIH being one of them,
828 and I think that FDA could benefit from that partnership.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

829 And also, it is my legislation to actually approve a full
830 NAIRR, so democratizing all of this -- the effort relative to
831 AI.

832 I introduced the Innovation in Pediatric Drugs Act to
833 ensure that pediatricians and physicians have the clinical
834 data they need to safely prescribe new drugs and therapies
835 for children. Today drugs for rare diseases -- and the term,
836 "rare diseases," has been mentioned at least maybe 75 or 100
837 times already this morning -- they don't have to be studied
838 in children. And it leaves them with a rare -- it leaves
839 them behind, relative to the rare disease. More than half of
840 all new drugs approved by the FDA last year were for rare
841 diseases.

842 So I have a series of -- I am going to ask all of my
843 questions, and ask you to remember the questions so that you
844 can answer them, but I want to get them all in because I feel
845 so strongly about this area.

846 Would requiring post-market pediatric studies for rare
847 disease drugs increase the number of drugs for use in
848 children?

849 If a company is required to complete a pediatric study,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

850 when is the study required, before or after a drug is on the
851 market?

852 Under what circumstances does the FDA exempt companies
853 from required pediatric studies?

854 And how can we make pediatric studies less burdensome
855 for drug companies without sacrificing the need to understand
856 how drugs impact in children?

857 So I think that both of these questions -- all of my
858 questions go to Doctors Cavazzoni and Marks.

859 *Dr. Cavazzoni. We think that we --

860 *Ms. Eshoo. You need to turn your mike on.

861 *Mr. Guthrie. I don't think your microphone -- yes,
862 there you go.

863 *Ms. Eshoo. We are all dying to hear what you are going
864 to say.

865 [Laughter.]

866 *Dr. Cavazzoni. I am happy to get us started.

867 We think it is incredibly important that we study all
868 diseases in the pediatric population, including rare
869 diseases. And we think that the exemption to doing post-
870 market studies for rare diseases is a problem because rare

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

871 diseases overwhelmingly occur in children. We understand
872 that this is a cause for some trepidation by developers and
873 sponsors.

874 I want to assure you that, as always, we would take a
875 very sensible, pragmatic approach. We recognize the
876 challenges in continuing to develop and generate safety and
877 efficacy data, particularly for rare diseases, after they
878 have been approved. And we would, of course, work with
879 sponsors and developers to come up with practical and
880 realistic ways of continuing to do that.

881 It is also really important for rare diseases that we be
882 able to study the disease in children before approval. And,
883 you know, we are concerned about a decision a couple of years
884 ago that would -- a court decision a couple of years ago that
885 would curtail that. And you know, we are happy to work -- to
886 continue to work with Congress to make sure that we are
887 continuing to have as broad a population that studies for
888 rare diseases before the drugs are made available in the
889 market --

890 *Ms. Eshoo. Except we need to go to Dr. Marks, because
891 I want to get a quick question in with Dr. Shuren, as well.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

892 *Dr. Marks. Very, very quickly, I would say I
893 completely agree, and I think we can take a very thoughtful
894 approach, as necessary, when there are diseases which don't
895 affect children to developing policies for exemption when
896 appropriate.

897 *Ms. Eshoo. Okay. And Doctor Shuren, bravo on your 15
898 years. That is quite a journey, and there is much to be
899 proud of.

900 Your center clears AI-enabled medical devices. How does
901 the FDA ensure AI-enabled medical devices are being used
902 appropriately, for example, in pediatric populations so that,
903 you know, we are ensured that the children receive safe care?

904 *Dr. Shuren. So one of the key things is assuring that
905 the data that is being used to go ahead and design
906 training --

907 *Ms. Eshoo. Yes, well, it is good data in, good data
908 out.

909 *Dr. Shuren. That is exactly right --

910 *Ms. Eshoo. And if it is not, then it is -- can be
911 lethal or deadly. Well, thank you very much for your work.

912 I hope members will remember my opening comment about

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

913 the FDA's budget because, as we pressure them to continue to
914 innovate to do more, they need a budget that matches what we
915 are requiring or requesting them to do.

916 So thank you, Mr. Chairman, I yield back.

917 *Mr. Guthrie. Thank you. The gentlelady yields back
918 and the chair recognizes Chair Rodgers for five minutes for
919 questions.

920 *The Chair. Thank you, Mr. Chairman.

921 I was disappointed at our hearing in April when
922 Secretary Becerra stated that a number of drugs the FDA
923 approved were "safe and effective, but people took them and
924 nothing happened.'" This continues a dangerous trend of
925 rhetoric around accelerated approvals being anything less
926 than having the full FDA gold standard, which is untrue and
927 leads to unnecessary delays in patient access to much-needed
928 innovation.

929 Dr. Marks, could you please confirm that the biologics
930 granted accelerated approval have full FDA gold standard
931 approval?

932 *Dr. Marks. Chair Rodgers, yes, that is correct. When
933 we approve something through accelerated approval, it meets

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

934 our approval standard, which is substantial evidence of
935 effectiveness. And so we would expect it to have -- be safe,
936 and have an effect in people. Perhaps not every last person,
937 but it means that it has met our standard that, at least in
938 some people, it is effective.

939 *The Chair. Thank you.

940 Dr. Cavazzoni?

941 *Dr. Cavazzoni. Yes, I would echo this. Accelerated
942 approval is one of our two pathways. When we use accelerated
943 approval, we make a determination that there is substantial
944 evidence of effectiveness based on a surrogate endpoint or an
945 intermediate clinical endpoint. And, you know, we stand by
946 our standard.

947 *The Chair. Thank you.

948 The cost of getting a new drug or device is moving in
949 the wrong direction. In fiscal year 2024, PDUFA -- the PDUFA
950 user fee for each full application submitted with clinical
951 data is over \$4 million, which is a 25 percent increase over
952 2023 levels. The MDUFA fees for a standard PMA are up nearly
953 500,000, which is almost a 10 percent increase over fiscal
954 year 2023 levels, all while the FDA's performance around

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

955 meeting management response times and reaching a decision on
956 an application the first time it is submitted -- often called
957 the first cycle approvals -- continues to fall short of
958 expectations. All this leads to increased time and cost to
959 get medical products to market.

960 Staff needs to get back in person, and patients should
961 be allowed to testify in front of advisory committees in
962 person. So for each of you, how do you define hybrid work?

963 What percentage of your employees are fully in-person,
964 hybrid, or fully remote?

965 And for those that are hybrid, would you speak to
966 accountability measures that are in place to protect against
967 abuse and ensure productivity?

968 Has anyone had their ability to work in a hybrid manner
969 revoked due to this, the abusing of the privilege?

970 And I will start with Dr. Cavazzoni.

971 *Dr. Cavazzoni. I am happy to start. So at FDA -- has
972 taken an approach whereby staff are designated as either
973 eligible for remote work or telework, and the latter requires
974 a presence on campus. That designation is based on the type
975 of work that the staff do. So to give you an example, within

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

976 CDER over three-quarters of our staff are not remote. To
977 give you another example, within the Office of New Drug and
978 the Office of Generic Drugs, which are the hub of where we
979 review application, 90 percent of our staff are telework-
980 eligible, meaning that they are not remote.

981 We really believe in a model that allows -- that has
982 staff come in to be at White Oak or the office when they need
983 to be. And obviously, the review staff have a lot of
984 difficult things to discuss, and complex decisions to make,
985 and so on, and so they are, obviously, more present at White
986 Oak.

987 *The Chair. Okay.

988 *Dr. Cavazzoni. I also want to talk about the advisory
989 committees. We have recently announced that we are --

990 *The Chair. Okay, thank you.

991 *Dr. Cavazzoni. -- transitioning back to in-person
992 advisory committees.

993 *The Chair. Good. Good, good, good. I think I am
994 going to let the other -- I would like to have more -- maybe
995 an answer in writing on this, because I am going to run out
996 of time.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

997 [The answers submitted to The Chair's question follow:]

998

999 *****COMMITTEE INSERT*****

1000

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1001 *The Chair. I wanted to address another issue. A
1002 number of members on this committee are -- have expressed
1003 interest in getting necessary medical supply chains out of
1004 adversarial nations and into nearer and friendlier to the
1005 United States. And we often hear the FDA is not a partner,
1006 and can be an impediment, and I would like to change that.

1007 So Dr. Cavazzoni, if a generic drug company wanted to
1008 change API suppliers, would that require a fee, a pre-
1009 approval application, and what sort of timeline is required?

1010 *Dr. Cavazzoni. So we review changes that are proposed
1011 in where a drug is manufactured and how it is manufactured.
1012 It is part of our ability to make sure that the drugs remain
1013 -- are of good quality.

1014 We are also very concerned about the lack of redundancy,
1015 resilience, and lack of geographic diversity in the supply
1016 chain, and we are -- remain very interested in working with
1017 Congress to address those issues.

1018 *The Chair. Okay, thank you. I have run out of time.
1019 I do want to look at how you are prioritizing those types of
1020 applications, and if you need more direction from Congress on
1021 that front.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1022 *Dr. Cavazzoni. We would.

1023 *The Chair. With that, I yield back.

1024 *Mr. Guthrie. Thank you. The gentlelady yields back,
1025 the chair yields back, and the chair recognizes the ranking
1026 member of the full committee, Ranking Member Pallone, for
1027 five minutes for questions.

1028 *Mr. Pallone. Thank you, Mr. Chairman. My questions
1029 are all of Dr. Cavazzoni.

1030 And I am concerned that Congress has not taken action to
1031 combat drug shortage issues before they continue to worsen.
1032 Democrats have put forward common-sense proposals to
1033 strengthen FDA's authorities to address vulnerabilities in
1034 our supply chain. So let me ask you, Dr. Cavazzoni, one of
1035 the major problems that we saw last year and continue to see
1036 now is the shortage of drugs that seem to be related to
1037 increases in demand. Drug manufacturers are required to
1038 report to FDA when there is a discontinuance or interruption
1039 in the supply. However, when the shortage is driven by
1040 demand rather than supply, manufacturers are not required to
1041 report to FDA. So would the FDA be more effective if they
1042 were made aware of an unanticipated spike in demand?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1043 *Dr. Cavazzoni. Unquestionably. We are also quite
1044 worried about drug shortages and the state of the supply
1045 chain.

1046 Through valiant efforts, our drug shortage team have
1047 been able to prevent over 200 drug shortages last year with
1048 very limited resources and with a very small staff. We would
1049 welcome having additional authorities.

1050 What you raise, this particular authority that you
1051 raise, which is having manufacturers require -- be required
1052 to report to us an increase in demand would be incredibly
1053 helpful to us because we would be able to intervene before
1054 the shortage starts, and ideally prevent it, rather than
1055 getting into a mitigation mode.

1056 *Mr. Pallone. All right, thanks.

1057 Now, another proposal that I would like to see passed
1058 into law is a requirement that drug companies report when
1059 drugs and their critical ingredients -- where drugs and their
1060 critical ingredients are being made. And when a drug
1061 shortage or other supply interruption happens, FDA
1062 manufacturers can react appropriately if they have that
1063 information.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1064 So let me ask -- I think of the pediatric drug shortage
1065 of acetaminophen. I don't know how to pronounce
1066 acetaminophen. And you know, it seems to me we let American
1067 families down by not enabling the visibility for this. Would
1068 greater transparency into the supply chain for both
1069 prescription and OTC drugs have been useful in the pediatric
1070 shortages?

1071 And are there other examples where transparency would
1072 have helped?

1073 *Dr. Cavazzoni. Yes, there are -- we are also, you
1074 know, very, very interested in having more transparency on
1075 where drugs are made, and particularly how much of a drug is
1076 made in a specific facility, including API facilities.

1077 Why is that important? Because facilities that make or
1078 plants that make APIs will distribute their API across
1079 multiple plants that make the finished drug. And when we
1080 have either a shortage or uptick due to increase in demand or
1081 natural disaster or so on, it is very important for us to
1082 understand how much of that API has actually been distributed
1083 across all the different plants, rather than scrambling and
1084 not knowing how much is placed in each facility, and then

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1085 being able to intervene specifically with specific
1086 manufacturers. So that increased transparency is very
1087 important.

1088 It is also very important in our ability to have the
1089 best site selection model when we do inspections. And
1090 knowing how much of where and how much a drug is made, as
1091 well as the API and the finished product, is very important
1092 in guiding how much attention we pay to that facility in
1093 inspections, because we view inspections as a way to actually
1094 prevent further problems that can cause shortages.

1095 So we are very happy to continue, and very interested to
1096 continue to work with -- on these additional authorities.

1097 *Mr. Pallone. All right. Let me get to my last
1098 question. I have to shorten it a bit here. Mandatory
1099 recall. You know, I don't understand how mandatory recall is
1100 not, you know, one of your tools.

1101 There was an example in November with a critical -- with
1102 eye infections that were resulting from contamination that
1103 could have resulted in vision loss or blindness. So the
1104 question: Would mandatory recall have allowed FDA to act
1105 more quickly to protect consumers and remove these products

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1106 from shelves?

1107 *Dr. Cavazzoni. Mandatory recall is an authority that
1108 we don't have for drugs. We have it for lettuce, but not for
1109 drugs. And it would be incredibly important to protect the
1110 public.

1111 The example that you gave is a very egregious example
1112 where we had a bad actor who introduced contaminated eye
1113 drops into -- to come into the United States. Those eyedrops
1114 cause horrible, horrible problems for patients -- for
1115 instance, blindness, sepsis, having to have an eye removed.
1116 And in those situations we cannot require a manufacturer to
1117 recall the drug promptly. And in this particular situation,
1118 it actually took quite a bit of time while all of this harm
1119 was happening among the public.

1120 We had a similar example with hand sanitizer which was
1121 contaminated with methanol. We had deaths during the
1122 pandemic, and in those situations the same bad actors who had
1123 introduced contaminated hand sanitizer resisted voluntary
1124 recall of these drugs.

1125 So we think that having that authority is extremely
1126 important, if not essential, to protect the American public.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1127 *Mr. Pallone. Thank you. Thank you, Mr. Chairman.

1128 *Mr. Bucshon. [Presiding] The gentleman yields back. I
1129 recognize Dr. Burgess for five minutes.

1130 *Mr. Burgess. Thank you, Mr. Chairman. Let me start by
1131 just asking a question on the PDUFA.

1132 According to your recent report that you have -- that
1133 you put out in 2022, you met 6 out of 20 procedural meeting
1134 goals in PDUFA. A problem with that is it could result in
1135 sponsors delaying study starts or proceeding without the
1136 risks -- at the risk -- without FDA alignment. So what steps
1137 is the FDA taking to address this seeming shortcoming of only
1138 6 out of 20 performance metrics being achieved?

1139 *Dr. Marks. Thank you for that question.

1140 So we -- clearly, in 2022, we were still again coming
1141 off of some of the challenges from the pandemic. But to be
1142 honest, we have always had challenges making some of the --
1143 meeting goals that we need to have. I think we are just
1144 redoubling our efforts to make sure that we have sufficient
1145 staff to be able to get to these meetings in a timely manner,
1146 and it is really staffing and attention to this that is one
1147 of the key things for us.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1148 *Dr. Cavazzoni. I am happy to add to what Dr. Marks
1149 said.

1150 So first, we have gone back to granting in-person
1151 meetings for all meetings. Only about -- for CDER, only
1152 about 10 percent of the meetings are requested to be in-
1153 person by sponsors. So there is also, you know, we see that
1154 sponsors also like to have the flexibility of having maybe a
1155 video conference, or a call, or sort of a hybrid meeting.

1156 As with Dr. Marks, we take the granting of meeting very
1157 seriously. We think it is extremely important for our
1158 dialogue during development of drugs, and we are really
1159 doubling down on making sure that these meetings are granted
1160 within the timeframe that are expected, and they are -- they
1161 take place in the best possible mechanism or way that is
1162 required by the problem that needs to be discussed with the
1163 sponsor.

1164 *Mr. Burgess. Yes, I appreciate all of that. I mean,
1165 you just simply have to do better. Companies are paying for
1166 performance here, and they -- it is reasonable for them to
1167 expect a performance.

1168 And then we hear other discussions that the FDA wants to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1169 vastly expand its authority into licensing laboratory-
1170 developed tests. If you don't have the staff to do this, how
1171 are you going to have the staff to do that?

1172 Perhaps I will submit that for answer for writing.

1173

1174

1175

1176 [The question submitted for the record by Mr. Burgess
1177 follows:]

1178

1179 *****COMMITTEE INSERT*****

1180

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1181 *Mr. Burgess. But on the Priority Review Voucher, which
1182 came up earlier on the cell and gene therapies, particularly
1183 curative treatments for sickle cell, one of the priority
1184 review vouchers was denied. How is the FDA ensuring that
1185 there is a consistent, predictable application of the
1186 Priority Review Voucher program?

1187 *Dr. Marks. So I will get this right eventually on this
1188 microphone. So thank you.

1189 So we look carefully at the Priority Review requests.
1190 In some cases it is challenging because some of these
1191 products -- it becomes a legal matter in understanding
1192 whether it is a same product or a different product. But we
1193 clearly understand how important the Priority Review Voucher
1194 program is for those innovators in this area, and so we will
1195 do our best to make sure that, when we take an action, it is
1196 very well justified.

1197 *Mr. Burgess. Yes, we are beginning to see why the
1198 right-to-try legislation was one of the most popular bills
1199 passed in the last six years.

1200 Let me just ask all of you, since you are here. And if
1201 there is not time, we can do a response in writing. I have

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1202 tried to get information from the FDA. I presume you have
1203 done some sort of look-back into the pandemic years.
1204 Presumably, we are at an inter-pandemic period right now. No
1205 one knows when the next one will start, but we all want to
1206 believe that we are better prepared than we were last time.

1207 So have you done -- has the FDA done an introspective,
1208 after-action report on the COVID-19 pandemic? Have you
1209 looked at what went right and what went wrong, and what we
1210 might do to mitigate the next one?

1211 *Dr. Marks. So thanks for that question. We have been
1212 looking at this, and we do understand certain things that
1213 went very right: issuing guidance very rapidly so that
1214 manufacturers know what to expect when they need to put new
1215 products out there, having very highly-specialized teams
1216 gather together to review --

1217 *Mr. Burgess. I am going to run out of time. Let me
1218 just ask for all of you, could you respond to me? I will put
1219 submit that in writing.

1220 [The answers submitted to Mr. Burgess's question
1221 follow:]

1222

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1223 *****COMMITTEE INSERT*****

1224

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1225 *Mr. Burgess. We need to know. What is the state of
1226 the art today at the FDA for last time and for next time?

1227 Thank you, Mr. Chairman, I will yield back.

1228 *Mr. Bucshon. The gentleman yields back. I recognize
1229 Mr. Sarbanes, five minutes.

1230 *Mr. Sarbanes. Thanks very much, Mr. Chairman. Thank
1231 you all for being here.

1232 Over the years, as you know, this committee has been
1233 engaged in critically important efforts to lower drug prices.
1234 I know a lot of that particular work hasn't been in FDA's
1235 purview, but there is one area where we have worked with the
1236 agency in that regard, and that relates to generic
1237 competition, as you know.

1238 I think it is fair to say that it is well known that
1239 generic competition, as a general matter, works to reduce
1240 national drug spending, both when a generic drug initially
1241 comes to market and then, further, as more generic
1242 manufacturers enter the market. We have certainly seen that
1243 over time.

1244 Not only that, but generic competition also has a direct
1245 impact on American patients, expanding access and

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1246 subsequently improving health outcomes and equity. So very
1247 important.

1248 According to one HHS report, once a drug goes off patent
1249 such that generic competition can begin, prices decline by an
1250 average of 20 percent in drug markets with 3 generic
1251 competitors. In markets of 10 or more competitors, prices
1252 can decline by 70 percent in 2 years and by 80 percent in 3
1253 years after the first generic entry. And markets that have
1254 more competitors result in larger price declines, as you
1255 would expect to see.

1256 FDA plays an important role here, since the agency's
1257 generic approvals are truly a lifeline to many patients. Dr.
1258 Cavazzoni, can you briefly speak to how FDA facilitates
1259 generic drug entry?

1260 *Dr. Cavazzoni. We have -- within CDER we have very
1261 large generic programs. This is an area that is critical for
1262 us, of course. The entire generic drug program is pointed
1263 towards making drugs more accessible to patients by creating
1264 competition, and therefore lowering prices. This is a
1265 program that has a, you know, that has historically had a lot
1266 of high volume.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1267 We are increasingly focusing on what we see as coming up
1268 in the pipeline for generics, and all those are drugs that we
1269 call complex generics -- for instance, combination products
1270 where there is a drug and a device, or more complicated-to-
1271 make drugs -- because we know that that is coming up. And so
1272 we have to be ready to start to review these applications,
1273 and also increase our first cycle approval of these very
1274 complex generics. And we are making some inroads there.

1275 There are some things that could help us in being more
1276 efficient. For instance, one of the problems that we
1277 encounter that brand drug manufacturers use to stifle
1278 competition are, you know, constraints around what we can
1279 disclose to generic manufacturers when it comes to all of the
1280 ingredients in a drug. And so we have put forward some
1281 proposals to help to see -- to the effect that we could -- to
1282 remove some of those barriers.

1283 We are really pulling all of the stops, working also
1284 with the FTC, with the U.S. Patent and Trademark Office,
1285 because we understand how critical generic drugs are to the
1286 health care system and to access and affordability.

1287 *Mr. Sarbanes. This question may give you a chance to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1288 maybe expand a little bit more on your last observation, but
1289 with complexity, often, as you know, comes the opportunity
1290 for people to game the system, as well. And we often hear of
1291 gaming in the context of generic drug entry, as some product
1292 sponsors will do pretty much anything they can, as you know,
1293 to lengthen the time that their product enjoys exclusivity
1294 while others are being kept off the market. So I know that
1295 that is an arm wrestling exercise that you are going through
1296 on a daily basis.

1297 Could you address the -- what you see as the largest
1298 gaps in the issues that currently exist in FDA's authority
1299 when it comes to promoting competition?

1300 *Dr. Cavazzoni. Arm wrestling is a really good way to
1301 describe it.

1302 As I mentioned earlier, the -- one of the biggest gaps
1303 that we have is the inability to disclose all of the
1304 ingredients -- for instance, a buffer that is used to
1305 determine what the acidity or the pH of a drug is. And we
1306 are constrained by trade secret laws. And so it would really
1307 help us a lot to be able to convey all of the information to
1308 the generic manufacturers, rather than trying to have -- not

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1309 being able to say anything, or getting into some kind of
1310 guess game: "There is a problem, we can't tell you what it
1311 is," and so on. And that can take years out of a review.

1312 *Mr. Sarbanes. Yes.

1313 *Dr. Cavazzoni. And I have -- certainly, there have
1314 been some examples where a complex generic has been held up
1315 for years and, of course, the savings that would go with that
1316 because of these kinds of constraints.

1317 *Mr. Sarbanes. Well, this is the committee where we
1318 would look at what kind of authority would allow for more
1319 transparency, so thank you.

1320 I may have some additional questions around this that we
1321 will follow up with. Thanks very much.

1322 I yield back.

1323 *Mr. Bucshon. The gentleman yields back. I recognize
1324 Mr. Latta for five minutes.

1325 *Mr. Latta. Well thank you, Mr. Chairman, and thanks to
1326 our witnesses.

1327 As probably noted a little earlier, we have two
1328 subcommittees running right now, so we have members coming
1329 between both subcommittees.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1330 But Dr. Cavazzoni, if I could start my questions with
1331 you, Congress created the Priority Review Voucher, PRV,
1332 program to provide an important incentive for the development
1333 of drugs and biologics to prevent or treat tropical and
1334 pediatric diseases. While FDA is required to establish an
1335 updated list of rare diseases that qualify for the tropical
1336 disease program since July of 2020, my understanding is that
1337 there are at least 11 new rare diseases that are awaiting a
1338 decision by FDA.

1339 The Further Consolidated Appropriations Act, which was
1340 recently signed into law, included report language that
1341 directs FDA to maintain the necessary resources to evaluate
1342 PRV candidates in a timely manner. Does the FDA anticipate
1343 making a decision on these diseases or on -- if these
1344 diseases qualify for the PRV this year?

1345 *Dr. Cavazzoni. And as you heard from Dr. Marks, we are
1346 acutely aware and recognize the importance of a review by --
1347 Priority Review Vouchers for developers of drugs for rare
1348 diseases, and we grant them in accordance with the guideposts
1349 that we have established. We endeavor to be consistent in
1350 our decisions and to be able to justify our decisions based

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1351 on that data or our regulations.

1352 We know that there is, you know, some anxiety about the
1353 reauthorization of the rare disease -- the pediatric rare
1354 disease voucher program, and we stand ready to work with
1355 Congress to reauthorize it.

1356 *Mr. Latta. Thank you. Dr. Marks, FDA instituted its
1357 accelerated approval program to allow for earlier approval of
1358 drugs that treat serious conditions and fill an unmet medical
1359 need based on a surrogate endpoint. A surrogate endpoint can
1360 be things like a laboratory measurement or other measure that
1361 is thought to predict clinical benefit, but it is not itself
1362 a measure of clinical benefit. The use of surrogate endpoint
1363 can considerably shorten the time required prior to receiving
1364 FDA approval, but the sponsors are still required to conduct
1365 additional clinical trials to confirm the anticipated
1366 clinical benefit.

1367 Given that 95 percent of the 7,000 rare diseases have no
1368 approved treatment, and that it takes, on average, 15 years
1369 from pre-clinical work to FDA approval for a rare disease
1370 drug, I am hopeful that the FDA will continue its support of
1371 the accelerated approval pathway as an option for sponsors to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1372 pursue.

1373 I understand that many small, innovative biotechnology
1374 companies that offer commercialized products under the
1375 accelerated approval pathway face costly uncertainty around
1376 conducting post-approval confirmatory studies, even in these
1377 rare diseases -- or in these disease areas with well-
1378 established biomarkers or mechanisms or action. Could you
1379 please commit to offering more guidance to industry in this
1380 area where you have recently acknowledged that need?

1381 *Dr. Marks. Yes, thank you for that question. So I
1382 completely understand.

1383 We are increasingly relying on accelerated approval in
1384 this area of rare diseases where it is indicated, where we
1385 can approve high-quality, safe, and effective products. And
1386 we are committed to trying to find the most forthwith path to
1387 go from an accelerated approval to a traditional approval or
1388 full approval. And that is why sometimes we will go directly
1389 to a full approval when we can.

1390 But we are also grateful to Congress for the
1391 regenerative medicine advanced therapy provisions which allow
1392 us to use an expanded number of methods of getting from an

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1393 accelerated to a traditional approval. So we will leverage
1394 those, as well.

1395 *Mr. Latta. Okay. Well, thank you very much, Mr.
1396 Chairman. I am going to yield back the balance of my time.

1397 *Mr. Bucshon. The gentleman yields back. I recognize
1398 Mr. Cardenas for five minutes.

1399 *Mr. Cardenas. Thank you very much to Chairman Guthrie
1400 and also Ranking Member Eshoo for holding this hearing and
1401 for -- so that we can have a better understanding of the
1402 indispensable role the FDA plays in the safety and efficacy
1403 of drugs and biologics and devices.

1404 Our health system depends on successful collaboration
1405 between the public, researchers, Congress, and the FDA. As
1406 we have fought to recover from the COVID-19 pandemic, medical
1407 innovation has been critical to the public health of our
1408 nation. I am encouraged by the strides FDA has made to
1409 advance the development of groundbreaking technologies that
1410 will benefit the American people.

1411 We are seeing shortages across critical disease areas
1412 and populations, including patients with cancer and children
1413 with mental health conditions. These shortages are prolific.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1414 This is an alarming trend. Constituents in my district have
1415 expressed worry as their access to treatments for ADHD and
1416 diabetes faces supply shortages and access delays. We have a
1417 responsibility to use every tool available to rapidly recover
1418 and prevent these shortages, securing lifesaving access.

1419 In the spirit of understanding how to improve our
1420 collaboration with the FDA, Dr. Cavazzoni, can you elaborate
1421 on how effective communication with diverse stakeholders has
1422 been helpful to anticipating drug shortages?

1423 *Dr. Cavazzoni. Yes, this is -- hearing from the public
1424 and stakeholders is very important. To that effect, we have
1425 a -- I am pleased, actually, to highlight the fact that we
1426 have launched a new sort of website that allows -- that makes
1427 it easier to report shortages or concerns about shortages,
1428 not only for manufacturers but for also the public. And so
1429 it is a one-stop-shop around shortages.

1430 It is extremely important for us to understand where
1431 there is increasing demand or problems with production as
1432 early as possible. And so every patient, every parent, every
1433 member of the public is part of our sentinel system in
1434 watching out for shortages.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1435 *Mr. Cardenas. Thank you very much.

1436 As we continue to explore avenues to address these
1437 shortages and provide innovative and essential treatments, we
1438 should focus on strengthening our partnership with the FDA,
1439 not weakening it. A key component of strengthening this
1440 partnership is building trust among the increasingly diverse
1441 population of the United States.

1442 I am proud to represent a very diverse community that
1443 deserves to have peace of mind that the treatment their
1444 doctor has prescribed has been thoroughly evaluated. By
1445 enrolling participants who reflect the diverse
1446 characteristics of those who will be ultimately using medical
1447 products, we build trust among prescribers and patients. It
1448 is essential that clinical research reaches all demographic
1449 groups to successfully modernize treatments.

1450 As part of the recently-launched Center for Clinical
1451 Trial Innovation within CDER, one focus was around pragmatic
1452 trials as a way to lower the burden for patients to
1453 participate in clinical trials. This question is to all the
1454 witnesses: How are each of your centers working to sustain
1455 your commitment to diversity and inclusion while upholding

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1456 regulatory rigor?

1457 *Dr. Cavazzoni. Yes, I am happy to start. For CDER we
1458 are focusing on pragmatic trials, making trials easier to
1459 conduct. We have issued guidance on decentralized clinical
1460 trials, which are very important when it comes to inclusion
1461 on underserved populations.

1462 We are also firing on all cylinders in implementing the
1463 new authorities that Congress has given us to require
1464 diversity action plans as part of clinical trials. It should
1465 be a matter of days before we issue guidance, and this is
1466 clearly an area of great commitment.

1467 Dr. Marks?

1468 *Dr. Marks. Yes. So again, I think here I will just
1469 echo and say that, particularly in the area of vaccines, this
1470 need for diversity plans so that people feel confident that
1471 people like them have received the vaccine, and have received
1472 it safely is critical. And we will continue to help push
1473 that with manufacturers and through diversity plans.

1474 *Mr. Cardenas. Thank you.

1475 *Dr. Shuren. Just to piggyback, it is very much the
1476 same, but we are also looking at the technologies that can

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1477 make it easier for people to provide their data in the
1478 comfort of their home, because expecting people out in
1479 distant parts to go into clinical trial sites is unrealistic.

1480 *Mr. Cardenas. So when it comes to clinical trials, for
1481 example, diversity in those individuals who are participating
1482 actually makes a difference as to how effective that would be
1483 in different demographics. Isn't that the case?

1484 *Dr. Cavazzoni. I don't think --

1485 *Mr. Cardenas. Not in every case. But it could, in
1486 effect, have that --

1487 *Dr. Cavazzoni. We think that it is important that we
1488 understand the benefits and risks of a drug in the
1489 populations that are going to be taking the drug. And so our
1490 goal is to see clinical trials that reflect the makeup of the
1491 population that we have in the United States. And that is
1492 really the fundamental reason for having these diversity
1493 action plans.

1494 *Mr. Cardenas. Wonderful. Thank you very much.

1495 My time having expired, I yield back, Mr. Chairman.

1496 *Mr. Bucshon. The gentleman yields back. I recognize
1497 Mr. Griffith for five minutes.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1498 *Mr. Griffith. Thank you very much.

1499 Dr. Cavazzoni, I was glad to hear you mention just now
1500 the benefits and risks of a drug, and making sure we know all
1501 of those. I am glad the FDA has changed its position related
1502 to medicinal marijuana. I wish it had become -- it had been
1503 the case sooner. I went public in 1998. I think the science
1504 was there when Virginia passed its law in 1979 for medicinal
1505 marijuana. The problem was it required that you have a
1506 prescription, and because it was scheduled to schedule 1 --
1507 and I know that was you all and the DEA -- but because it was
1508 schedule 1, the research that needed to be done to use it for
1509 medicinal purposes wasn't there, and the doctors couldn't
1510 prescribe. I think we would have a more sane policy today
1511 towards using THC for medicinal purposes had we done that.

1512 I will leave it at that. I am not looking for a
1513 comment, but I am just -- leave it at that for now. We will
1514 exchange some questions later, and do some things there, but
1515 I have more to get to. I could go on for hours about
1516 different things.

1517 The next one I want to switch to is the ACT for ALS Act
1518 that was signed into law in 2021. It allowed for increased

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1519 research and understanding into rare, neurodegenerative, and
1520 terminal diseases. And that didn't just mean ALS. ALS was
1521 put into the title because that is one that everybody knows
1522 about. You don't have to get into a lot of explanation. But
1523 there are a lot of others that were to be -- you know, have
1524 this new increased research and understanding between the
1525 FDA, the NIH, and drug companies to try to move these
1526 treatments along.

1527 I have spoken at previous hearings about the need for
1528 more attention to developing treatments for Huntington's
1529 disease, because there currently is no treatment. And, you
1530 know, perhaps it is a -- it is vital to me because I am -- I
1531 may be the only one here, I suspect I am -- who has the
1532 knowledge of and are friends with two different families who
1533 are affected by Huntington's. And so it is a serious issue.

1534 So because of the ACT for ALS Act, FDA has released
1535 their action plan for these diseases, which included the
1536 first disease-specific science strategy focused on expediting
1537 development of therapies for ALS. And I support that, but
1538 that cannot be in lieu of exercising the same level of
1539 urgency for other diseases like Huntington's.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1540 Can you commit to ensuring that you all will take a
1541 similar all-hands-on-deck approach leveraging regulatory
1542 flexibility and working with sponsors in the Huntington's
1543 space?

1544 *Dr. Cavazzoni. So we are, of course -- share the
1545 problem with Huntington's disease. It is a terrible disease
1546 with no treatments. And we are working with sponsors and
1547 developers to bring therapies to patients.

1548 We have made a lot of progress with the ACT for ALS. We
1549 have established a public-private partnership. We have
1550 issued grants, and we have established a strategic plan. We
1551 would very much want to -- be interested in expanding to
1552 other neurodegenerative diseases.

1553 *Mr. Griffith. Yes.

1554 *Dr. Cavazzoni. We need more resources. To give you an
1555 idea, the FDA and CDER did not receive any funding to
1556 contribute to the public-private --

1557 *Mr. Griffith. But is that why Huntington's and other
1558 diseases are being slow-walked? Because I think the
1559 companies are ready to go. They just need some --

1560 *Dr. Cavazzoni. Yes, we need to have --

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1561 *Mr. Griffith. -- direction.

1562 *Dr. Cavazzoni. -- more resources to be able to --
1563 within the context of the public-private partnership --

1564 *Mr. Griffith. Yes, ma'am.

1565 *Dr. Cavazzoni. -- and within the context of the grant
1566 program that the ACT of [sic] ALS established, we -- our
1567 ability to expand is -- only depends on our -- the resources
1568 that we have available. So we are very interested --

1569 *Mr. Griffith. All right.

1570 *Dr. Cavazzoni. -- in working with developers and
1571 every --

1572 *Mr. Griffith. My time is running out. I will send you
1573 a QFR, a question for the record, so that you can give me
1574 more information on that.

1575 [The questions submitted for the record by Mr. Griffith
1576 follow:]

1577

1578 *****COMMITTEE INSERT*****

1579

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1580 *Mr. Griffith. I also want to let you know that I am
1581 concerned about foreign inspections, and we are sending a
1582 letter to Commissioner Califf in that regard. And the
1583 problem is we found a lot of violations in a lot of the
1584 countries which are producing the medicines for our folks
1585 here in the United States, and I am very concerned that we
1586 don't have enough inspectors.

1587 I have got some ideas on that, on ways that we might be
1588 able to solve some of that inspector problem by having folks
1589 who maybe don't have the high-level training, but at least
1590 can go in and see if there is feces on the wall, because in
1591 some cases that is what we see in some of the prior
1592 inspection reports that are happening at places where people
1593 think they are getting safe medicines, but the ingredients
1594 are being shipped in from other countries, particularly Asia,
1595 and coming here, and they are not quite ready for prime time.

1596 So my time is just about up, so I am going to have to
1597 use the questions for the record process on that, as well,
1598 and invite all of you to respond. Thank you.

1599 *Mr. Bucshon. The gentleman yields back, I recognize
1600 Dr. Ruiz for five minutes.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1601 *Mr. Ruiz. Thank you, Mr. Chairman.

1602 The work FDA does to review and approve drugs and
1603 medical devices is critical to ensuring patient safety and
1604 the efficacy of new innovations. However, since FDA issued a
1605 final rule on lab-developed tests in April, I have heard
1606 concerns that FDA regulation of LDTs could slow the approval
1607 process for all drugs and devices in addition to LDTs.

1608 While FDA will not collect user fees for LDTs for years,
1609 there is significant work that must begin now, including
1610 issuing guidance documents related to the rule. Dr. Shuren,
1611 how will FDA have the resources to implement the new rule,
1612 given the additional workload anticipated, with more tests
1613 needing pre-market review?

1614 *Dr. Shuren. So we do have the resources to begin
1615 implementation of that rule, and we are already moving
1616 forward.

1617 We are also looking at other opportunities for reducing
1618 costs both to test makers and to the FDA. So for example,
1619 where there is a number of things we are looking at for
1620 further streamlining pre-market review, one of the
1621 innovations is using a pre-determined change control plan,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1622 where the developer, instead of modifications that would come
1623 to the FDA for review, can provide their plan for how they
1624 would validate it. We bless the plan, they don't have to
1625 come back in the door. We think that is going to actually
1626 play --

1627 *Mr. Ruiz. So --

1628 *Dr. Shuren. -- a big role.

1629 *Mr. Ruiz. -- you say you have the resources, but can
1630 you assure us that this will not draw away resources from
1631 other important programs that FDA focuses on?

1632 *Dr. Shuren. Yes, we will continue to make good on the
1633 MDUFA --

1634 *Mr. Ruiz. Thank you.

1635 *Dr. Shuren. -- commitments. And additional resources
1636 we need down the line, the phaseout is aligned with our next
1637 round of user fees, and we would fold that into those.

1638 *Mr. Ruiz. Currently, we are seeing a record number of
1639 shortages across critical disease areas and populations,
1640 including patients with cancer and children with mental
1641 illness.

1642 Dr. Cavazzoni, how much transparency does FDA have on

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1643 the supply chain, and what is needed in terms of mandated
1644 reporting to the agency for FDA to be able to act in a timely
1645 manner to better anticipate and address impending shortages?

1646 *Dr. Cavazzoni. Yes. As I mentioned earlier, we would
1647 welcome having more authorities to -- that would allow us to
1648 have greater transparency on the supply chain, including how
1649 much is produced in specific facilities so that, when we have
1650 a shortage, we know where to go, we know where to -- who is
1651 making the drug, how much is being made, and then we can
1652 start talking to the manufacturers to see, you know, how they
1653 can -- may be able to supplement the shortage. So greater
1654 transparency on the supply chain is certainly an area, a tool
1655 that would really add to our limited toolbelt so far.

1656 *Mr. Ruiz. Thank you.

1657 In addition to safeguarding patient access to vital
1658 medications and medical devices they need to survive, we must
1659 also focus on ensuring the effectiveness and the safety of
1660 new innovations during the clinical trial process. As an
1661 emergency medicine physician, I am concerned about the
1662 potential effects that the lack of participation in clinical
1663 trials may have on the effectiveness of new medical

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1664 treatments and therapies for under-represented populations.

1665 While FDA has attempted to increase the diversity in
1666 clinical trials that are used by the FDA to support the
1667 approval of a drug, we have not seen a consistent increase in
1668 clinical trial diversity reflecting the diversity of the
1669 United States. Notably, FDA did not ask for any new
1670 authority in this area for its budget.

1671 So Dr. Cavazzoni, do you think the FDA has the resources
1672 and authorities it needs to achieve our collective goal of
1673 bringing in more participation of populations that
1674 traditionally lacked participation?

1675 *Dr. Cavazzoni. Yes. This has been an area of focus
1676 for us for many years. We have made some inroads in some
1677 therapeutic areas. We publish a yearly snapshot on clinical
1678 trials, and we are making some gains.

1679 We now have better authorities, thanks to Congress. In
1680 FDORA we acquired the authority to require diversity action
1681 plans, and that is going to be critical for us.

1682 *Mr. Ruiz. Thank you.

1683 *Dr. Cavazzoni. So we are working. We will see further
1684 improvement.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1685 *Mr. Ruiz. Thank you. I would like to work with you on
1686 that. It is important that we continue working towards
1687 modernizing our clinical trials, and that is why I introduced
1688 legislation with my colleague and fellow physician, Dr.
1689 Bucshon, to address this very issue. Our bipartisan Clinical
1690 Trial Modernization Act, H.R. 8412, would improve
1691 participation in clinical trials of under-represented
1692 populations by addressing economic barriers and other
1693 outreach efforts.

1694 This bill would help ensure clinical trial results are
1695 applicable to our nation's various populations and, in turn,
1696 lead to more effective treatments. As we look at ways to
1697 improve the safety and effectiveness of new medical
1698 innovations, I encourage this subcommittee to consider H.R.
1699 8412 in future hearings and markups.

1700 And so thank you, and I yield the remainder of my time.

1701 *Mr. Bucshon. The gentleman yields back. I recognize
1702 Mr. Bilirakis for five minutes.

1703 *Mr. Bilirakis. Thank you, Doctor. I appreciate it
1704 very much.

1705 Dr. Marks, as you know, I co-chair the bipartisan

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1706 Congressional Rare Disease Caucus here in the House. I have
1707 heard from many rare disease -- I am the co-chair, by the
1708 way, we have -- Ms. Matsui is the co-chair on the Democrat
1709 side.

1710 But I have heard from many rare disease companies and
1711 patient advocates who praise the creativity and flexibility
1712 of the Center for Biologics Evaluation and Research, the
1713 CBER, what it has shown under your leadership to get products
1714 safety to patients as quickly as possible. I really commend
1715 you for your vision and commitment to innovation, sir.

1716 With that in mind, other rare disease companies,
1717 particularly those with small molecule drugs for rare
1718 indications, have explained to us that they wish their
1719 products fell under Dr. Marks's jurisdiction, rather than
1720 under the Center for Drug Evaluation and Research. Frankly,
1721 I find it unacceptable that this arbitrary distinction
1722 carries such adverse downstream impacts, and our caucus has
1723 frequently written to the FDA to ask you to apply the
1724 regulatory flexibility authorities you have already been
1725 given by Congress.

1726 Dr. Cavazzoni, do you agree with Dr. Marks that you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1727 would rather take the chance that the CDER will give a
1728 product accelerated approval that could occasionally make an
1729 error on efficacy and later be withdrawn from the market,
1730 rather than leave rare disease patients without any options
1731 on -- no hope for their unmet need? If you could answer that
1732 question, sir -- I mean, ma'am, I would appreciate it very
1733 much.

1734 *Dr. Cavazzoni. Well, thank you.

1735 *Mr. Bilirakis. Thank you.

1736 *Dr. Cavazzoni. So accelerated approval is a very
1737 important tool for us when it comes to rare diseases beyond
1738 gene therapies, which I think you were referring to.

1739 So when it comes to the drugs that CDER regulates, we
1740 use accelerated approval when we can. Accelerated approval
1741 requires the presence of a surrogate endpoint that allows us
1742 -- that reasonably predicts a clinical benefit. And when we
1743 are able to identify such an endpoint, we use accelerated
1744 approval.

1745 To give you an idea, last year we approved 28 drugs for
1746 rare diseases at CDER, and a quarter of those were approved
1747 using accelerated approval, and that includes a rare disease

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1748 -- a rare bone disease, a rare kidney disease, and a very
1749 rare form of ALS. So we are -- certainly will continue to
1750 use accelerated approval when we can. When we can't, we will
1751 obviously --

1752 *Mr. Bilirakis. Okay, let me go ahead and follow up on
1753 that.

1754 *Dr. Cavazzoni. If I may --

1755 *Mr. Bilirakis. I apologize, because I have limited
1756 time here.

1757 How will you ensure that your center, and particularly
1758 your reviewers, are embracing the spirit and congressional
1759 intent of the regulatory flexibilities such as the
1760 accelerated approval pathway that we saw under Dr. Woodcock?

1761 Again, you can briefly respond to that, and then I want
1762 to get on to my next question.

1763 *Dr. Cavazzoni. So I am -- our reviewers are
1764 excruciatingly aware of the tremendous unmet medical need in
1765 rare diseases. And they know to exercise and they are
1766 encouraged to exercise regulatory flexibility as appropriate,
1767 based on the data that they have in front of them.

1768 *Mr. Bilirakis. Okay, thank you. Thank you very much.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1769 Dr. Marks, would you be willing to support a more formal
1770 process through an inter-center institute for rare disease to
1771 ensure coordination and consistency across the centers,
1772 across centers, review gaps and guidance for the smallest,
1773 ultra-rare populations, and optimize efficiencies in the
1774 review process?

1775 *Dr. Marks. Thanks very -- thanks so much for that
1776 question.

1777 *Mr. Bilirakis. Yes.

1778 *Dr. Marks. The answer, for all intents and purposes,
1779 is yes. And even though we don't know what it will be
1780 called, I think, with the full support of Commissioner
1781 Califf, Doctors Cavazzoni, Shuren, and I are absolutely
1782 committed to addressing the needs of those suffering from
1783 less common diseases.

1784 And we are actively in the process of developing an
1785 agenda -- with a capital A -- for rare diseases that will
1786 ensure that our centers are communicating and coordinating
1787 seamlessly across one another, and will put in place the
1788 cross-center collaboration that we need to, as well as,
1789 essentially, the single point of contact that we need to at

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1790 the agency for rare disease communities to engage with us.

1791 So I think, by doing those things, we will give the rare
1792 disease community what they need to get the attention that
1793 they deserve to get towards cures.

1794 *Mr. Bilirakis. Excellent. Thank you so very much.
1795 And I will yield back, Doctor.

1796 *Mr. Bucshon. The gentleman yields back. I recognize
1797 Mrs. Dingell, five minutes.

1798 *Mrs. Dingell. Thank you, Mr. Chair, and thanks for
1799 holding this important briefing and hearing. I would like to
1800 -- and thank you to all of our experts.

1801 I would like to begin by once again expressing my
1802 serious concerns regarding a recent outbreak of TB,
1803 tuberculosis, linked to the implementation of contaminated
1804 bone graft material. Last year the Centers for Disease
1805 Control and Prevention reported it is working to respond to
1806 tuberculosis cases appearing to be linked to bone graft
1807 material supplied by Aziyo Biologics.

1808 Last year a Michigan patient had recently undergone a
1809 surgical procedure, and then was treated for a severe, post-
1810 surgical TB infection in an intensive care unit at the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1811 University of Michigan Hospital. Sadly, the patient died. I
1812 have introduced two bipartisan bills with Representative
1813 Moolenaar on these issues, including the Shandra Eisinga
1814 Human Cell and Tissue Products Safety Act that was marked up
1815 in advance by this subcommittee last week.

1816 While this bill will help to prevent the spread of
1817 tuberculosis through transplanted human cell and tissue
1818 products, it is critical we continue to do more to mitigate
1819 these outbreaks. Dr. Marks, given your agency is central to
1820 regulating these products and processing what can go wrong,
1821 what examples of harm can result from human cells, tissues,
1822 and cellular and tissue-based products?

1823 *Dr. Marks. So, unfortunately, when these products are
1824 contaminated, we can see the full spectrum of illness, from
1825 slight sickness to death. And so that is why we take very
1826 seriously our authorities to inspect when necessary, and deal
1827 with these products to make sure that they are safe and free
1828 of transmissible infections.

1829 *Mrs. Dingell. And unfortunately, this was not the
1830 first time the company had done it. There were more deaths a
1831 couple of years earlier. How could civil money penalties --

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1832 since there had been a previous incident -- or CMPs, help
1833 address these issues?

1834 We hear from our Republican colleagues that CMPs would
1835 inhibit innovation. Is that the case?

1836 *Dr. Marks. Yes, I think, by and large, this entire
1837 field is -- most of the actors here are very upstanding, and
1838 they are looking to do the right thing by making sure that
1839 their products are safe for those who receive them. That is
1840 the general. And for the few that are scofflaws here, I
1841 think civil monetary penalties would make them think twice
1842 about using less scrupulous manufacturing processes or
1843 procurement processes that can lead to this.

1844 *Mrs. Dingell. Thank you. And since it was the second
1845 time, that is one of the reasons I ask.

1846 Let me move to sunscreens. As you know, skin cancers
1847 and other conditions linked to sun exposure can impact
1848 individuals with all skin types and all skin tones. There is
1849 some evidence to suggest that access to a variety of broad
1850 spectrum sunscreen options, including sunscreens with
1851 different active ingredients, leads to improved appropriate
1852 sunscreen use and related health incomes [sic].

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1853 Dr. Cavazzoni, how is FDA taking into account the
1854 importance of sunscreen choice for individuals with all skin
1855 tones, all skin types, as it makes its decisions about the
1856 safety and effectiveness of the new sunscreen active
1857 ingredients, including in developing its final administrative
1858 order on existing sunscreen?

1859 *Dr. Cavazzoni. Thank you for that question. We are
1860 very interested in seeing more sunscreen ingredients on the
1861 market. We are actually encouraged, too, by the pipeline
1862 that we see.

1863 Sunscreens in the U.S. are regulated as drugs. That is
1864 a very fundamental difference compared to Europe and other
1865 countries. Because they are regulated as drugs, there are
1866 certain investigations and studies that need to be done,
1867 including studies that look at what might happen if the
1868 sunscreen is absorbed into the skin, to make sure that the
1869 substance does not increase the risk of cancer or cause other
1870 problems.

1871 Having said so, we are very interested in working with
1872 manufacturers. One of the things that is going to help us is
1873 the monograph reform that Congress have given us, because it

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1874 will allow us to use orders, as opposed to lengthy
1875 rulemaking, whenever we want, if we need to make a change to
1876 a monograph, including sunscreens.

1877 *Mrs. Dingell. Thank you. I am running out of time,
1878 and I am probably going to have to ask both of you to give me
1879 more later, but this is on drug trials.

1880 I have a constituent named Ethan, who is a 20-year-old
1881 University of Michigan student who was recently diagnosed
1882 with brain cancer called diffuse midline glioma. As we all
1883 know, a life expectancy with the current standard of
1884 treatment is 9 to 12 months, and likely terminal.

1885 There is good news. A company, Chimerix, has a phase
1886 three study underway with promising medication: ONC201. We
1887 know that from phase one and two studies that patients saw
1888 some well-documented extensions of life, likely due to the
1889 medicine. However, I have been told that FDA encouraged the
1890 company to include a placebo control arm into their
1891 application, since that is the gold standard of drug studies.

1892 Dr. Cavazzoni and Dr. Marks, we are running out of time.
1893 Can you explain why that is needed here, even in a case like
1894 Ethan's?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1895 I will ask for the record for that, Mr. Chair.

1896 [The question submitted for the record by Mrs. Dingell

1897 follows:]

1898

1899 *****COMMITTEE INSERT*****

1900

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1901 *Mr. Bucshon. Great, thank you.

1902 *Mrs. Dingell. Thanks.

1903 *Mr. Bucshon. The gentlelady yields back. I recognize
1904 myself for five minutes.

1905 I want to thank the witnesses for being here today. I
1906 very much appreciate it.

1907 And thanks to Dr. Ruiz for bringing up 8412, the
1908 Clinical Trials Modernization Act. I hope the committee will
1909 take a hard look at that legislation.

1910 As you well know, my top FDA priority in recent years
1911 has been the VALID Act with Congresswoman DeGette. At its
1912 core, this legislation establishes a new approval pathway at
1913 FDA specific to diagnostic tests, one that will facilitate
1914 innovation through better support of continuous learning that
1915 can be applied to testing and clinical decision-making.

1916 However, as you also know, currently the -- when it
1917 evaluates diagnostic tools in this space, the FDA has to use
1918 the medical device framework under a recent rule.

1919 Unfortunately, we have seen this framework get in the way of
1920 timely access to new types of diagnostics, since frequently
1921 FDA approval of medical devices can be tedious and time-

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1922 consuming.

1923 There was bipartisan, serious concerns about the rule in
1924 this particular space at a recent hearing in this committee.
1925 Former FDA Commissioner Scott Gottlieb, in recent remarks to
1926 the Food and Drug Law Institute, recognized this need. He
1927 spoke about the VALID Act's potential to help approach
1928 dynamic clinical situations like those we might see when
1929 dealing with genetic treatments or quickly mutating viruses.

1930 He advocated for the VALID Act's modern concept of
1931 supporting real-time learning environments, in which -- and I
1932 will quote -- "FDA focuses on the overall quality and
1933 compliance of a medical device company, rather than just the
1934 individual products," and also, I quote, "by monitoring a
1935 company's quality management systems and its post-market
1936 activities." He also said the FDA can allow products to
1937 reach patients while accessing their safe application in
1938 real-world settings.

1939 Great potential exists for using technology, including
1940 AI, to address dynamic situations at the clinical level. But
1941 currently, FDA may not be able to keep up. Dr. Shuren, do
1942 you think that it would be beneficial -- and I asked you this

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1943 question before the -- way before the rule, a couple of years
1944 ago, you may not remember this -- do you think that it would
1945 be beneficial for Congress to pass legislation like the VALID
1946 Act or something similar so FDA could have a better mechanism
1947 of reviewing dynamic diagnostic tools?

1948 *Dr. Shuren. We are certainly happy to work with
1949 Congress, and understanding that VALID would put in place a
1950 more modern framework for in vitro diagnostics.

1951 But in the absence of it, I have got to tell you today,
1952 LDTs -- we continue to see problematic LDTs.

1953 *Mr. Bucshon. Yes.

1954 *Dr. Shuren. People are then not getting the right
1955 treatment. These even include with gene therapy, where we
1956 had a companion test that came in as an LDT. We reviewed the
1957 data, erroneous results being produced. The lab went back,
1958 did their root cause analysis, and found they had to redesign
1959 the test.

1960 We continue to see these problems in cancer patients
1961 who, quite frankly, have tests out there that are not
1962 performing well, so they are not getting the right treatment.
1963 And today, if you are a cancer patient, whether or not you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1964 get the right treatment depends more on the lab you go to
1965 than your tumor biology.

1966 *Mr. Bucshon. Yes.

1967 *Dr. Shuren. Not acceptable.

1968 Rare disease patients bounce all over the place before
1969 they get a diagnosis. Why do we continue to tolerate that?
1970 We have got to fix that in this country, and it drives more
1971 inequities.

1972 And we have disincentives for innovation by non-labs.
1973 We can fix it. The FDA is doing what we can with our current
1974 authorities because we have got to do the right thing, but we
1975 are happy to work with Congress on a modern framework.

1976 *Mr. Bucshon. Thank you, I appreciate that. As you
1977 know, health care is critical infrastructure -- this is for
1978 Dr. Shuren also -- subject to attacks by bad actors, and
1979 medical device vulnerabilities remain alarmingly high. We
1980 are talking about cybersecurity here.

1981 Congress included cybersecurity requirements for medical
1982 devices in the Consolidated Appropriations Act that passed at
1983 the end of 2022. Can you provide specific details on how
1984 CDRH is enforcing these requirements?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

1985 *Dr. Shuren. Well, we -- and first of all, thank you
1986 for the new legislation, the additional authorities, because
1987 we have moved forward to implement those. We have updated
1988 our policies, and we are now putting that into practice,
1989 while at the same time working with partners and industry and
1990 government and elsewhere to go ahead and deal with
1991 cybersecurity vulnerabilities.

1992 We monitor several at any given time. One place where
1993 there is a weakness now is laboratory-developed tests,
1994 because we don't see those. And in fact, we have put out
1995 communications where we found vulnerabilities in platforms
1996 being used by non-labs and labs. Only because it was used by
1997 non-labs we found out about it. We made the manufacturer
1998 tell the labs, otherwise they would never have known there
1999 was a problem out there. This is another thing we can
2000 address with better oversight on LDTs.

2001 *Mr. Bucshon. Thank you. I mean, so how do you hold
2002 people accountable? For example, enforce that patches are
2003 provided to biomedical departments of hospitals or their
2004 service suppliers.

2005 *Dr. Shuren. Well, it starts -- to begin with is you

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2006 have got to design your device in a way that allows it to be
2007 patchable, and that is what we work with companies on.

2008 *Mr. Bucshon. Okay.

2009 *Dr. Shuren. Then assuring that they have got the right
2010 measures in place. And then, as we learn about problems and
2011 patches, we help push that out.

2012 *Mr. Bucshon. Thank you. Thank you very much.

2013 I yield back and recognize Ms. Kuster, five minutes.

2014 *Ms. Kuster. Thank you very much, Mr. Chairman.

2015 The Food and Drug Administration is responsible for
2016 regulating a wide array of products, including food,
2017 prescription drugs, and medical devices. Under the 21st
2018 Century Cures Act, Congress exempted several categories of
2019 software from being considered an FDA-regulated device. FDA
2020 has issued guidance to address when clinical decision support
2021 software would be considered an FDA regulated device.

2022 Given how complex these programs are, I appreciate FDA's
2023 evolving approach to the issue, and would like to get further
2024 clarity. Dr. Shuren, there are scenarios where the software
2025 will only give one recommendation, such as prescribing
2026 naloxone to a patient at risk of opioid overdose. In this

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2027 scenario, would the FDA consider this software a device, and
2028 would it need pre-market approval?

2029 *Dr. Shuren. Actually, in that scenario, it may not be
2030 a device. And just having one recommendation doesn't mean
2031 that it is what we call a non-device clinical decision
2032 support. What really matters is are we talking about
2033 patient-matched information from, like, records or reports
2034 connected to reference information like clinical guidelines?

2035 So in your scenario, in fact, that may not be a device.

2036 *Ms. Kuster. And does the FDA have plans to provide
2037 clarity on these issues for hospitals that use software?

2038 *Dr. Shuren. We have provided some clarity, but if
2039 there is interest it is something we will take back. And we
2040 do want to make sure that the community is very clear on what
2041 they, you know, should be doing, or the things they don't
2042 have to do because they are not dealing with a medical
2043 device.

2044 *Ms. Kuster. And with patient safety being the number-
2045 one concern.

2046 *Dr. Shuren. Always.

2047 *Ms. Kuster. Always. Turning now to prescription

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2048 drugs, the FDA's important regulatory work includes ensuring
2049 that medications are safe and effective. I think we can all
2050 agree medication is only beneficial if patients can afford
2051 it, but some drug companies have taken advantage of the
2052 patent system to delay affordable generics from coming to
2053 market.

2054 To encourage competition and increase access to
2055 generics, I introduced the Medication Affordability and
2056 Patent Integrity Act with my colleague, Congresswoman
2057 Harshbarger. This bipartisan bill would enhance coordination
2058 between the FDA and the U.S. Patent and Trademark Office to
2059 ensure that generic drug approvals are not delayed due to
2060 patent gaming. I am hopeful this committee will include this
2061 practical, bipartisan solution in a future legislative
2062 markup.

2063 Dr. Cavazzoni, how could coordination between the FDA
2064 and the PTO increase access to generics and actually reduce
2065 patient costs at the pharmacy counter?

2066 *Dr. Cavazzoni. You know, the two agencies clearly have
2067 their distinct roles. Having said so, coordination is
2068 important, and collaboration is important. And to that

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2069 effect, we have a really exciting program that we have
2070 started where we work with the USPTO reviewers to show them
2071 where publicly-available data on drugs and biologics resides.

2072 There is a lot of public-available data, and we train
2073 them to actually search it and understand it. And that
2074 information is extremely important for reviewers to determine
2075 whether, really, some obvious incremental changes to drugs
2076 really should not be patented.

2077 *Ms. Kuster. So it seems like ensuring applicants are
2078 providing the agencies the information they need is important
2079 for successful coordination.

2080 *Dr. Cavazzoni. That is correct. And this cross-talk
2081 and training program that we have, and this cross-training
2082 has been very, very helpful. The reviewers in the USPTO need
2083 to have -- need to understand the drugs, and what we
2084 regulate, and -- in order to make decisions as to whether
2085 these incremental, and obvious, and minor changes should be -
2086 - are eligible or should be patented.

2087 In fact, those manufacturers take advantage of these
2088 minor changes. And if the reviewers are not sort of aware or
2089 understand drugs and biologics, it may slip through the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2090 cracks.

2091 *Ms. Kuster. Okay, great. Another product within FDA's
2092 regulatory authority is tobacco. Tobacco use remains the
2093 leading preventable cause of death in the United States, yet
2094 it has been nearly two decades since a new tobacco cessation
2095 product has been approved.

2096 Earlier this year I sent a letter to Secretary Becerra
2097 with my colleague, Dr. Bucshon, and a dozen other Members of
2098 Congress on the need to expand our smoking cessation toolkit.
2099 Dr. Cavazzoni, what steps is the FDA taking to encourage the
2100 development of new tobacco cessation therapeutics?

2101 *Dr. Cavazzoni. We are very interested and willing to
2102 work to develop with developers to make available more
2103 smoking cessation drugs.

2104 Recently, last year, we issued a new guidance. That
2105 guidance introduces some new approaches that streamline the
2106 development, including some new endpoints and so on. And so
2107 we are very much open for business, and very motivated to
2108 work with developers.

2109 *Ms. Kuster. Great. Thank you so much.

2110 I yield back.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2111 *Mr. Bucshon. The gentlelady yields back. I recognize
2112 Mr. Hudson, five minutes.

2113 *Mr. Hudson. Thank you very much, and thank you to the
2114 witnesses for being here today. Thank you for what you do
2115 every day, very important roles.

2116 My home state of North Carolina is a leader when it
2117 comes to innovation and manufacturing. So ensuring that
2118 those folks can thrive to produce lifesaving products is a
2119 priority for me. Too often I hear complaints about hitting
2120 walls with the FDA. Whether it is a delay in an answer,
2121 unnecessary or over burdensome demands, or an FDA oversight,
2122 it is happening too often.

2123 The Prescription Drug User Fee, or PDUFA, imposes
2124 deadlines for FDA to review drug applications, as you know, 6
2125 months for priority products and 10 months for all others.
2126 While most -- the most recent annual performance report shows
2127 the agency meeting many of its review goals, I am concerned
2128 that doesn't tell the whole story.

2129 There are numerous public reports of FDA actions that
2130 delay approvals well beyond these timelines, often due to
2131 bureaucratic limbo or last-minute internal decisions. For

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2132 example, FDA can issue a complete response letter --
2133 essentially, a rejection -- which stops the clock if the
2134 agency needs more time to review. FDA can also get an
2135 extension if the agency decides to hold an advisory committee
2136 meeting, which Commissioner Califf has noted are in serious
2137 need of reform to be useful.

2138 I am concerned there are North Carolina companies being
2139 caught up in just this sort of mess, at risk of having to lay
2140 off employees and ultimately delaying access to these
2141 products. Dr. Marks, Dr. Cavazzoni, how do you keep track of
2142 products that are beyond their PDUFA dates or near misses
2143 within your centers?

2144 And how can FDA, with existing resources, do better to
2145 -- at improving predictability and transparency in product
2146 review?

2147 *Dr. Marks. Thank you very much for the question. So
2148 we have a group that actually tracks these quite closely, and
2149 provides our leadership, me included, with reports on this.
2150 And I agree with you, we can sometimes do better here.

2151 I think we also -- I try to do, essentially, after-
2152 actions to understand why these events occurred so we can

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2153 help prevent them.

2154 I agree with you, bureaucratic reasons for this are
2155 unacceptable. There has to be a good scientific reason why
2156 we -- why we miss things, and that is our goal, to always
2157 have it be on that, and that is where we are headed, at least
2158 in our center. Thanks.

2159 *Dr. Cavazzoni. Yes. Similarly, we track our PDUFA
2160 goal dates very, very closely, and they are constantly
2161 scrutinized. We try to avoid missing all dates. And in
2162 fact, it is a very, very rare event.

2163 What we try to do, for instance, is in situations where
2164 the sponsor would like to submit additional data over the
2165 course, once the review of the application has started and it
2166 is already on the clock, we extend the goal date to allow
2167 them to submit the data, allow it to be reviewed, so that we
2168 don't actually have to potentially issue a complete response
2169 and turn down the application, when in fact maybe reviewing
2170 some additional data would make it -- would help it get
2171 across the line.

2172 So we do everything that we can to avoid situations
2173 where we have to turn down an application not having reviewed

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2174 all of the data, or certainly very rarely. And we think
2175 about it very carefully in those rare situations where we may
2176 have to miss a goal date.

2177 *Mr. Hudson. Thank you.

2178 Dr. Marks, Commissioner Califf has said that systemic
2179 efforts are underway to reform the advisory committee
2180 meetings, and recently reiterated his belief that it is not
2181 necessary to take a vote at most meetings.

2182 He also stated that, "The advisory committee meeting
2183 structure needs to be changed to allow fuller and more
2184 comprehensive discussion of the issues surrounding medical
2185 products under review," and that meetings "should focus less
2186 on outcomes."

2187 Would you agree that there should be improvements made
2188 to the FDA's advisory committee process and practices?

2189 And if so, what do you feel would be the most impactful
2190 improvements for patients?

2191 *Dr. Marks. So thank you for that question.

2192 I think it is nice to have the flexibility to both not
2193 take votes and to take votes when appropriate. I do think
2194 that our advisory committee process, while generally working

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2195 reasonably, could benefit from some freshening up, including
2196 the ability to have -- currently some of our conflict of
2197 interest issues sometimes actually get in the way of having
2198 the best possible experts speak to us at these advisory
2199 committees, and so we have to work through that.

2200 I think we also want to ensure that these advisory
2201 committees are comprised of diverse members of the community
2202 of experts that can help bring a full picture, and not a
2203 stilted one of the area of interest. So we are committed to
2204 a process to improving them.

2205 *Mr. Hudson. I appreciate that, and I am about to run
2206 out of time. I will submit a couple questions for -- in
2207 writing, if you wouldn't mind.

2208 [The questions submitted for the record by Mr. Hudson
2209 follow:]

2210

2211 *****COMMITTEE INSERT*****

2212

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2213 *Mr. Hudson. But Dr. Cavazzoni, my colleague's question
2214 about the smoking cessation products, that is a big concern,
2215 and I would love to get -- just hear kind of your update on
2216 where you think things are with the guidance you issued last
2217 year. So thank you very much.

2218 *Dr. Cavazzoni. We would be happy to follow up.

2219 *Mr. Hudson. Thank you.

2220 *Mr. Bucshon. The gentleman yields back. I recognize
2221 Ms. Kelly, five minutes.

2222 *Ms. Kelly. Thank you, Chair Guthrie and Ranking Member
2223 Eshoo, for holding today's hearing.

2224 In recent years members of our committee, me included,
2225 have pushed for FDA action to boost diversity in clinical
2226 trials, which is crucial for accurate drug assessment across
2227 demographics. Though the FDA has made significant -- has
2228 made progress, significant gaps remain in representing all
2229 communities. Around 90 percent of pregnant women use
2230 medications, yet most lack sufficient safety data. Given
2231 HHS's common rule allowing testing for pregnant and lactating
2232 women, more must be done to ensure safe medication use based
2233 on robust evidence.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2234 Dr. Cavazzoni, given the high maternal mortality rates
2235 among Blacks, Latinas, and indigenous mothers, can you share
2236 additional measures the agency is putting in place to ensure
2237 this population is included in this research?

2238 *Dr. Cavazzoni. Thank you. That is a very important
2239 question.

2240 We have issued guidance on this to really emphasize for
2241 drug developers and sponsors that it is very important to
2242 study pregnant women during -- before a drug is made
2243 available on the market.

2244 There are some very real constraints, particularly in
2245 the very litigious environment that we live in, and there may
2246 be some -- you know, some discussions about tort reform may
2247 need to take place when it comes to this particular space.

2248 And having said so, we think this is very important, and
2249 it is very important not only to study pregnant women before
2250 a drug is marketed, but also after it is marketed. And to
2251 that effect, you know, we require, for instance, pregnancy
2252 registries or post-market studies to continue to generate
2253 data on the safety and effectiveness of drugs, particularly
2254 the safety sort of in pregnant and lactating women.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2255 *Ms. Kelly. Okay, then. My district encompasses rural,
2256 suburban, and urban from the Chicagoland area, which --
2257 obesity rates range from a quarter to one-third among adults,
2258 exacerbated by food deserts limiting nutritious options.
2259 Commissioner Califf highlighted that obese patients are
2260 frequently excluded from trials due to comorbid conditions
2261 hindering safe and effective dosing data collection. FDA-
2262 approved medications may lack proper dosing or pose risks for
2263 obese patients, as post-marketing studies reveal. This
2264 highlights the need for inclusive trials and tailored dosing
2265 for this population's safety and efficacy.

2266 Dr. Cavazzoni, again, given obesity's prevalent and
2267 associated risks, what specific steps is the agency taking to
2268 ensure adequate representation in trials?

2269 And how does the FDA promptly update drug labels with
2270 the new dosing data?

2271 *Dr. Cavazzoni. Yes, there is several things that we
2272 are doing.

2273 First, it is a very important that we enroll in clinical
2274 trials a population that is representative of the population
2275 that will ultimately be taking the drug once it is marketed.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2276 And to that effect, we have a -- we are paying a lot of
2277 attention to clinical trial diversity issue guidance and so
2278 on.

2279 We also have issued extensive guidance for sponsors,
2280 indicating that we want -- we don't want the inclusion or
2281 exclusion criteria for trials to be so restrictive that it
2282 really impacts the generalizability of the data.

2283 And lastly, it is very important that we find a way to
2284 actually have recruitment for clinical trials in the
2285 communities that have historically been excluded from
2286 clinical trials. And so the work that we are doing around
2287 clinical trial modernization -- writing guidance, we wrote
2288 guidance on decentralized clinical trials.

2289 We are working on guidance for point-of-care clinical
2290 trials that would hopefully make it easier and encourage
2291 sponsors to start recruiting patients from clinical trials
2292 where they live every day, rather than having to trek to
2293 academic institution, which, of course, they will not do and,
2294 therefore, we will continue to exclude populations from
2295 clinical trials.

2296 So very critical for us, and we are really exploring all

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2297 avenues to achieve these goals.

2298 *Ms. Kelly. I have another question, but I will get it
2299 to you, because I am running out of time.

2300 [The question submitted for the record by Ms. Kelly
2301 follows:]

2302

2303 *****COMMITTEE INSERT*****

2304

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2305 *Ms. Kelly. So I will yield back.

2306 *Mr. Bucshon. The gentlelady yields back. I recognize
2307 Mr. Carter, five minutes.

2308 *Mr. Carter. Thank you, Mr. Chairman, and thank all of
2309 you for being here.

2310 Let me go ahead and preface this by saying that I am of
2311 the opinion -- I have served 10 years in the Georgia state
2312 legislature, 10 years in Congress, and the prescription drug
2313 portion of the IRA is the very worst legislation I have ever
2314 seen in my whole life. I just want to set the stage for
2315 this, okay?

2316 You know, we have continued to warn the other side of
2317 the aisle that this scheme is going to cause immense harm to
2318 patients by crushing drug innovation, and we have already
2319 seen it. We have already seen that there have been over 24
2320 drugs pulled from the market, including cancer drugs, as a
2321 result of the IRAs passage, the prescription drug portion of
2322 the IRA.

2323 I will tell you, the University of Chicago researchers
2324 found that the IRA will eliminate up to 342 cures and
2325 treatments over the next 20 years.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2326 As you may or may not know, I am a pharmacist by
2327 profession. I started practicing pharmacy in 1980 -- I was
2328 10 years old -- but anyway, I started practicing pharmacy in
2329 1980. I have seen nothing short of miracles as a result of
2330 research and development. That is why this upsets me so
2331 much.

2332 You know, regardless of whether you believe CBO, who has
2333 also said that it is going to decrease the number of new
2334 drugs coming to market, or whether you believe the University
2335 of Chicago, even if it is just one, which one is it going to
2336 be? Is it going to be the cure for Alzheimer's? Is it going
2337 to be the cure for diabetes? We shouldn't be trying to hurt
2338 research and development or deter research and development in
2339 any way at all. And this rule does that, and that is why I
2340 am so upset about it.

2341 Dr. Marks, your deputy centers -- director's viewpoint
2342 that the Inflation Reduction Act has impacted innovation for
2343 small molecules and biologics, CBER's deputy security
2344 director for strategy, policy, and legislation stated that
2345 the IRA has had an impact on innovation. Do you agree with
2346 that? Do you share that feeling?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2347 *Dr. Marks. You know, the way -- all I have to comment
2348 on this is that we have to foster -- and my goal is to foster
2349 -- I am not involved in the political end of it, but we have
2350 to foster innovation.

2351 *Mr. Carter. Okay, I understand that.

2352 *Dr. Marks. We have to -- anything that is counter to
2353 helping us innovate in this field of cell and genetic
2354 medicine is not a good thing.

2355 *Mr. Carter. Would you think -- do you think that this
2356 is? I am just asking your opinion.

2357 *Dr. Marks. You know what?

2358 *Mr. Carter. I know, I know.

2359 *Dr. Marks. I am going to stay out of the political.
2360 But I will say that we at our center will do everything we
2361 possibly can to help innovators move products forward,
2362 because having the most innovative products available to
2363 Americans is what our job is.

2364 *Mr. Carter. It is confusing to me, though. And, you
2365 know, I admire the President's Moonshot and Cancer Moonshot
2366 program. How is this going to impact that?

2367 *Dr. Marks. Yes, I can't -- I, unfortunately, can't

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2368 speak to that.

2369 *Dr. Cavazzoni. I am happy to chime in, as well.

2370 *Mr. Carter. Yes, and Dr. Cavazzoni, please.

2371 *Dr. Cavazzoni. Yes, I am happy to chime in. You know,
2372 we -- in our roles, we really cannot speak to the decisions
2373 that manufacturers will make, as --

2374 *Mr. Carter. Wait, wait. The manufacturers are making
2375 it as a result of the legislation that was passed.

2376 *Dr. Cavazzoni. We really -- you know, we are not in a
2377 position to --

2378 *Mr. Carter. But you ought to be. Come on. You are
2379 Americans, too, and you care. You care about innovation.

2380 *Dr. Cavazzoni. We care --

2381 *Mr. Carter. You care about research and development.

2382 *Dr. Cavazzoni. We care about doing --

2383 *Mr. Carter. Well, why aren't you telling the
2384 Administration, "This is not helping, this is deterring
2385 research and development"? You ought to be jumping up on
2386 the table, hollering it.

2387 *Dr. Cavazzoni. If I may.

2388 *Mr. Carter. Yes, ma'am.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2389 *Dr. Cavazzoni. And chime in, Dr. Marks.

2390 We care about doing everything that we can as regulators
2391 to make it easier and more efficient and more streamlined to
2392 develop drugs, and that is a contribution that we can make to
2393 innovation. And ultimately, that contribution may have an
2394 impact also on the cost --

2395 *Mr. Carter. Okay, all right. Let me ask you this,
2396 because I have got just a few minutes left. But does the
2397 agency agree that new smoking cessation therapies are needed
2398 to help patients be more successful in their attempts to
2399 quit?

2400 *Dr. Cavazzoni. Yes, we are --

2401 *Mr. Carter. Do you agree with that?

2402 *Dr. Cavazzoni. We are very interested in having more
2403 sponsors --

2404 *Mr. Carter. Why --

2405 *Dr. Cavazzoni. -- coming to us to develop new
2406 therapies --

2407 *Mr. Carter. Well, then why don't --

2408 *Dr. Cavazzoni. -- for smoking cessation.

2409 *Mr. Carter. Why do you think we are not seeing more?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2410 *Dr. Cavazzoni. I don't know. We are really doing
2411 everything that we can. We issued guidance --

2412 *Mr. Carter. So you are not trying to stifle it, you
2413 are trying to help it. You are trying to encourage it.

2414 *Dr. Cavazzoni. We are trying to encourage it, and we
2415 are trying to make it easier. In the guidance that we issued
2416 last year, we opened new ways and new approaches to
2417 developing treatments for smoking cessation. And we are
2418 really very much open for business, and want to work with
2419 developers to achieve that goal.

2420 *Mr. Carter. Okay, look, I just respectfully disagree.
2421 You are the experts. You ought to be telling them, "This is
2422 wrong, this is not helping.'`

2423 Mr. Chairman, I yield back.

2424 *Mr. Bucshon. The gentleman yields back. I recognize
2425 Dr. Schrier, five minutes.

2426 *Ms. Schrier. Thank you, Mr. Chairman, and thank you to
2427 all of our FDA witnesses for taking time out of your busy
2428 schedules to be here today.

2429 FDA, as we have heard, is entrusted with regulating
2430 medication, devices, food, vaccines, cosmetics, and many

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2431 other things that impact Americans every day. And I trust
2432 FDA to make these important decisions based on science and
2433 facts.

2434 I just want to point out that right now the Supreme
2435 Court is considering a case to roll back FDA's approval and
2436 prescribing requirements for mifepristone, a drug that has
2437 been approved for over 20 years for medication abortion. FDA
2438 is the gold standard of safety and efficacy, and we cannot
2439 allow politics to undermine science. Not only is this way
2440 out of line for mifepristone, which is also approved for
2441 other indications, but it creates a slippery slope of
2442 political undermining of other medications and of scientific
2443 research and FDA authority. I am making this point; it is
2444 not a question.

2445 I would like to turn to laboratory-developed tests, and
2446 I want to commend the FDA for taking action to move
2447 regulation of LDTs forward as, Dr. Shuren, you discussed. I
2448 do have some concerns, though, about the impact that will
2449 have on pediatric testing, some of which requires rapid
2450 authorization because of the importance of diagnosing many
2451 pediatric diseases early, given the risk of progression of

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2452 diseases in children.

2453 And for some pediatric LDTs, there may be only one or
2454 two centers worldwide that have the expertise to perform and
2455 oversee those tests, given the specialized nature of
2456 pediatric health care. And this is particularly important,
2457 given the disproportionate impact of these rare diseases.

2458 So it is not uncommon for one children's hospital to
2459 send samples to another children's hospital for rapid testing
2460 on their LDT, rather than have a family travel long distances
2461 and take that time. This is especially true for our local
2462 Seattle Children's, which has the unique challenge of being
2463 the primary children's hospital for the surrounding four-
2464 state region. So in order to reduce burden, for example, a
2465 hospital in Alaska might send to have the test done and avoid
2466 having to send a whole family to Seattle.

2467 Dr. Shuren, under the final rule, would these situations
2468 be considered an unmet need, even though the test is not
2469 developed or used in the same geographic location?

2470 And if not, how does the FDA plan to ensure that
2471 children with rare diseases will have access, and quick
2472 access, to these types of tests?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2473 *Dr. Shuren. So if I am hearing the scenario correctly,
2474 then this would be tests that are being developed, used in a
2475 laboratory, integrated in a health care system, and those
2476 would fall under our enforcement discretion policy for an
2477 unmet need, and they would not need to come in for pre-market
2478 review.

2479 *Ms. Schrier. And would that be subject to an appeal if
2480 it were not approved?

2481 *Dr. Shuren. If it was subject to -- again, here sounds
2482 like it is not, but if it was subject to pre-market review,
2483 then yes. If there was an adverse decision, it would be
2484 subject to appeal by us.

2485 *Ms. Schrier. Thank you very much. Thank you for
2486 considering this very specific children's indication.

2487 I want to turn to avian flu now. This is important in
2488 my district right now, because I have a large agricultural
2489 element. And while there are only two confirmed cases of the
2490 currently circulating avian flu in humans in the United
2491 States, I am very concerned about the estimated 100,000 farm
2492 workers who are at a particularly high risk for potential
2493 infection and, of course, then the potential for human-to-

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2494 human spread, as we have seen happen.

2495 I know FDA, CDC, and USDA are all working together to
2496 mitigate the impact of H5N1 on cows and the milk supply and
2497 on humans. And Dr. Marks, I was wondering if you could talk
2498 a little bit more about what your center is doing to develop
2499 an H5N1 vaccine for humans.

2500 *Dr. Marks. So thanks very much for that question.

2501 There actually are three licensed H5N1 vaccines not
2502 necessarily matching this current strain. We have plans to
2503 essentially have strain change supplements or, if necessary,
2504 use emergency use authorization, if we had to, to ensure that
2505 we could get countermeasures out as quickly as possible.

2506 And we have already taken steps to stay ahead of this.
2507 Hopefully, we are not going to have to deploy anything, but
2508 we actually have learned a thing or two. I think this was
2509 from a question earlier from the -- from -- both from the
2510 pandemic and from the Mpox outbreaks that we can just plug
2511 and play here, so that we are ready with our partners at CDC
2512 and at ASPR, so that we can move quickly.

2513 *Ms. Schrier. Thank you. I remember standing in a line
2514 with my newborn or six-month-old to get this the last time it

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2515 came up in humans.

2516 I will yield back.

2517 *Mr. Bucshon. The gentlelady yields back. I recognize
2518 Dr. Dunn for five minutes.

2519 *Mr. Dunn. Thank you very much, Mr. Chairman, and thank
2520 you to the witnesses from the FDA for appearing here today.

2521 Dr. Shuren, I have long been concerned about the FDA's
2522 desire to promulgate rigid regulations that seek to subject
2523 lab-developed tests to the same requirements as medical
2524 devices. I have appreciated the robust debate among the
2525 members of this committee regarding the appropriate
2526 guardrails as outlined in the VALID Act, which, as you well
2527 know, has gone through many iterations.

2528 The VALID Act was on the right track toward creating an
2529 appropriately limited and narrow scope for FDA oversight of
2530 lab developed tests. However, I think, much to the
2531 disappointment of the bipartisan members of this Congress and
2532 this committee, the agency proposed a sort of one-size-fits-
2533 all regulation that mirrors that of commercially-produced
2534 kits that consumers, not physicians, administer themselves
2535 just with instructions.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2536 The final rule was only slightly improved from the
2537 disastrous original proposal.

2538 I do appreciate the unmet need exemptions, which were
2539 just mentioned, and the grandfathering of certain tests. I
2540 remain concerned, however, about risk classification and the
2541 FDA's ability to efficiently assume the task of oversight
2542 that you propose here.

2543 So, first and foremost, Dr. Shuren, I want to -- I would
2544 like to know whether or not the FDA employs any -- any --
2545 practicing lab professionals. So these would be
2546 pathologists, physicians, et cetera, who are actively
2547 performing labs for the FDA.

2548 *Dr. Shuren. So we do have experts on staff who have
2549 worked in labs.

2550 *Mr. Dunn. Okay, but they are not working in a lab
2551 currently for the FDA.

2552 *Dr. Shuren. No, they are at the FDA.

2553 *Mr. Dunn. Okay, so there are -- there is a
2554 fundamental, I think, real-life disconnect when people who
2555 are sitting at desks reading reports about people who
2556 actually are doing science write the regulations for the

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2557 physicians and practitioners who are doing the science. Do
2558 you agree with that?

2559 *Dr. Shuren. No, we have, actually, the experts who
2560 have been overseeing tests for almost 50 years. There is no
2561 other place in the government that does --

2562 *Mr. Dunn. Yes, I mean, but it is not the same as
2563 actually working on the tests, you know, recently. And they
2564 change. You know, I am out of practice myself just a few
2565 years, and it has changed dramatically.

2566 Let me go on. Regulating lab-developed tests surely
2567 will require an expansion of expertise and personnel at the
2568 FDA. Do you have a plan in place to bring in the experts in
2569 that field for test development?

2570 *Dr. Shuren. We have experts already, and if we need
2571 additional experts this will be part of what folds into our
2572 subsequent user fee discussion.

2573 You know, I will say, too, New York State has been
2574 reviewing LDTs for 30 years. They have reviewed thousands of
2575 them. They are finding the same problems that we --

2576 *Mr. Dunn. I believe in the problems, but I just think
2577 this is a heavy hammer.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2578 And by the way, New York State, remember, got into some
2579 pretty deep trouble with their sequencing, as well, what they
2580 passed there.

2581 Under the VALID Act, labs would be able to coordinate
2582 with trusted, third-party accreditors -- would they be able
2583 to with -- such as the College of American Pathologists,
2584 which employs practicing pathologists to assist with
2585 compliance with these new regulations?

2586 *Dr. Shuren. And so, in the VALID, you could take
2587 advantage of third parties. But also, with our regulation,
2588 we have opened up the door so that you can work with third
2589 parties --

2590 *Mr. Dunn. I encourage it, I encourage it.

2591 So as we were tuning up the VALID Act, we sort of
2592 narrowed the scope quite a bit on that. Do you agree with
2593 that narrower, more narrow scope, or are you sort of back to
2594 the wider interpretation -- almost all the lab-developed
2595 tests that haven't been grandfathered?

2596 *Dr. Shuren. I will say, for the VALID Act, one key
2597 aspect is that it is not one piece, the VALID Act, it was all
2598 the pieces together. So for example, one of the approaches,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2599 a novel approach was on -- where you are really looking at
2600 the capabilities of the laboratory around technology, rather
2601 than each test. But that only worked because you would also
2602 have the post-market tools of reports and surveillance
2603 inspections --

2604 *Mr. Dunn. So let me get -- dive into that real quick
2605 in our last few seconds here. Is it your position that the
2606 FDA is somehow better positioned than existing third-party
2607 accreditors of CLIA labs to assist with compliance and
2608 performance of these labs?

2609 *Dr. Shuren. Yes, for assuring the test actually is
2610 safe and effective, yes. CLIA does not pertain to key
2611 aspects --

2612 *Mr. Dunn. No, but the performance of the test is -- I
2613 mean, they come in and check to see are you running your lab
2614 well, are you getting -- are you meeting the standards, you
2615 know.

2616 *Dr. Shuren. Well, CLIA oversees the lab operations,
2617 but not the test itself. And CMS has been very clear that
2618 these are different. They are complementary, but they are
2619 different in focus, purpose, and scope.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2620 *Mr. Dunn. Okay. Let me -- with a few seconds left, I
2621 am just going to say that I do have concerns about the
2622 classifications risk -- risk classification of existing tests
2623 and the future test. And you will be hearing more from our
2624 offices on that. I will have questions, as I have over the
2625 last few years.

2626 And with that, Mr. Chair, I yield back.

2627 *Mr. Bucshon. The gentleman yields back. I recognize
2628 Mrs. Trahan now.

2629 *Mrs. Trahan. Thank you to the chair.

2630 *Mr. Bucshon. Five minutes.

2631 *Mrs. Trahan. I am going to follow up on a point that
2632 -- a very important point that Congresswoman Schrier had
2633 made, because ensuring the safety and efficacy of the drugs
2634 approved in the United States is central to the protection of
2635 public health, and allows Americans to have faith that the
2636 prescription drugs and treatments they are prescribed by
2637 their doctors have been thoroughly reviewed and evaluated
2638 based on data, science, and clear evidence to assess the
2639 risks and the benefits.

2640 So Dr. Cavazzoni, can you discuss why FDA's gold

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2641 standard of safety and efficacy is so critical, and what
2642 impact could undermining the gold standard have on the safety
2643 and efficacy of our drug supply chain, moving forward?

2644 *Dr. Cavazzoni. Well, the standards that we have ensure
2645 that drugs are safe and effective by the time they are -- at
2646 the time they are made available to the public. And so those
2647 standards are important to maintain for public health and for
2648 -- to make sure that the public are not exposed to undue
2649 harms or to drugs that don't work.

2650 *Mrs. Trahan. Yes, it is a seal of approval that we
2651 rely on in our country. That is why, like Dr. Schrier, I
2652 have deep concerns about efforts by right-wing judges and
2653 politicians who have sought to substitute their own opinions
2654 for that of the FDA's expert decision-making. We have
2655 watched as Trump-appointed Federal judges have been more than
2656 willing to override the impartial, non-partisan, scientific
2657 decision-making of FDA with their own ideological and extreme
2658 views, putting patients and the FDA gold standard at risk.

2659 As we await the Supreme Court's decision in FDA versus
2660 Alliance for Hippocratic Medicine, I am appalled that 145
2661 congressional Republicans have doubled down on this by

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2662 joining an amicus brief in support of the plaintiffs in this
2663 case, and made clear that they are willing to undermine the
2664 FDA by calling into question the approval of mifepristone,
2665 which has been approved by the FDA for over 20 years.

2666 All right. I am going to switch gears now, but we have
2667 to get that out, and we have to make sure it is discussable
2668 in terms of the stakes.

2669 BRIUS Medical, based in Billerica, Massachusetts,
2670 produces essential ventilators for home use. They have a
2671 pending 510(k) application with the FDA for a new version of
2672 their ventilator that includes an auto EPAP feature. The AE
2673 feature is particularly important for patients with
2674 conditions such as COPD. During the COVID-19 emergency the
2675 FDA permitted the use of ventilators with the AE feature
2676 under the Emergency Use Authorization, even if they weren't
2677 fully approved. But now that the emergency has ended, the
2678 FDA has ceased making these exemptions -- exceptions, excuse
2679 me.

2680 The discontinuation of EUAs could lead to a shortage of
2681 these crucial ventilators, potentially harming patients who
2682 rely on them, and affecting companies like BRIUS Medical.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2683 Dr. Shuren, given the critical need for home care ventilators
2684 with the AE feature for vulnerable patients, how does the FDA
2685 plan to address potential shortages and ensure that devices
2686 like those from BRIUS Medical, which are still awaiting
2687 510(k) approval, excuse me, remain available to meet patient
2688 needs?

2689 *Dr. Shuren. So first of all, EOAs have not -- you
2690 know, are still in place for many of the products out there.
2691 We do have enforcement discretion policies that we have
2692 pulled back, and we don't apply those if there is sufficient
2693 supply of alternative product that is out in the marketplace.

2694 This particular company, we would be happy if they --
2695 you know, it is confidential information for them. If they
2696 supported it, we would be happy to talk in more detail. We
2697 did actually clear their product without that feature, and we
2698 can talk about the issues with that feature.

2699 *Mrs. Trahan. Well, that would be great. Thank you.

2700 I yield back.

2701 *Mr. Bucshon. The gentlelady yields back. I recognize
2702 Dr. Joyce, five minutes.

2703 *Mr. Joyce. Thank you, Chairman and Ranking Member, for

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2704 holding this hearing today, and for our witnesses for being
2705 here. I have three very focused questions.

2706 First, for Dr. Marks, I appreciate the FDA's focus on
2707 finding cures for patients with rare diseases. This is
2708 especially important because 95 percent of the more than
2709 7,000 known rare diseases have no FDA-approved treatments.
2710 As you are aware, Julie Tierney, who currently serves as
2711 CBER's deputy center director for strategy, policy, and
2712 legislation, stated that the IRA penalty for seeking multiple
2713 orphan drug approvals for the same product could discourage
2714 future drug development, most acutely in rare disease.

2715 Can you comment on the importance of developing
2716 medicines that treat multiple rare diseases to close that
2717 treatment gap?

2718 *Dr. Marks. Yes. Well, what I can say here is that,
2719 obviously, it is an impetus to developers, if they develop a
2720 first indication, to be able to have a second or third
2721 indication to be able to move into. And being limited to one
2722 indication could be a disincentive.

2723 *Mr. Joyce. I agree with you completely.

2724 Moving on, first of all, Dr. Shuren, to comment publicly

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2725 on our gratitude for you and the FDA for ensuring that
2726 patient safety remains paramount when highlighting the
2727 significant ramifications that the EPA's ethylene oxide rules
2728 could have on medical device sterilization. It is a safety
2729 issue.

2730 Going forward, do you feel as though you have an open
2731 line of communication with the EPA to ensure that medical
2732 device implications are understood from the onset when they
2733 are developing rules around PFAS or in other areas?

2734 *Dr. Shuren. I do think that we have appreciated we
2735 have been able to work with the EPA, and we were able to
2736 provide important information that they took into account in
2737 their ethylene oxide rule. We are going to continue to
2738 monitor, though, what is happening with the sterilization
2739 facilities to see what the outcome is in practice, to try to
2740 minimize --

2741 *Mr. Joyce. I thank you for that close attention. Dr.
2742 Shuren, I would also appreciate the opportunity to maintain
2743 an open dialogue going into the user fee negotiations.

2744 It is a bit unclear to me why industry stakeholders are
2745 not permitted to keep up to speed about how these

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2746 negotiations are going when they are expected to authorize
2747 the agreement, particularly when novel issues are being
2748 considered or when certain agreements are delayed like last
2749 cycle. Because of this, we, as the authorizing committee,
2750 rely on your meeting minutes, which in the past were posted
2751 to FDA's website long after actual meetings had taken place.

2752 Can you commit to a more timely publication of your
2753 meeting minutes this next go around, and would you be open to
2754 a more transparent negotiation process, including agency and
2755 industry updates to this committee as they unfold?

2756 *Dr. Shuren. We are committed to more timely meeting
2757 minutes, and I will say that that was actually a joint
2758 responsibility for us and industry on taking more time.

2759 We would be happy to have further discussions on how we
2760 can provide appropriate transparency in the process.

2761 *Mr. Joyce. Thank you. I think that transparency will
2762 only aid as these developments are so necessary to move
2763 forward.

2764 And my final question is, Dr. Cavazzoni, every hour at
2765 least two Americans die from skin cancer. And since this
2766 hearing has started, six Americans have died from skin

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2767 cancer. You are speaking to the only dermatologist in
2768 Congress. And no new sunscreen active ingredients have been
2769 approved in the United States since the 1990s.

2770 Since then, the rest of the world has moved ahead of us,
2771 one or two generations of sunscreen ahead of us. Today the
2772 United States has only six sunscreen active ingredients
2773 available, potentially less upon the finalization of the
2774 sunscreen final administrative order. In contrast, the EU
2775 has 34 sunscreen active ingredients approved. How can the
2776 FDA's regulatory framework be streamlined for ingredients
2777 currently on the global market?

2778 *Dr. Cavazzoni. So we are very interested in seeing
2779 more sunscreen ingredients available in the United States.
2780 And, you know, we are encouraged to see a greater interest
2781 from manufacturers.

2782 There is a fundamental difference in the regulation of
2783 sunscreens in the U.S. Sunscreens are regulated as drugs.
2784 In Europe they are regulated as cosmetics. So in the United
2785 States that means that we need to obtain data that are not
2786 required for --

2787 *Mr. Joyce. Do you find that 30 years without any new

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2788 active ingredients for sunscreens being formed or approved is
2789 incredibly unreasonable?

2790 *Dr. Cavazzoni. We would certainly like to see more
2791 ingredients out there. One of the things that --

2792 *Mr. Joyce. Would you commit to being able to work with
2793 industry to see that more ingredients are tested and approved
2794 by the FDA?

2795 *Dr. Cavazzoni. We are very interested to do so.

2796 One of the things that is going to help us is monograph
2797 reform that Congress have given us for -- prior to that, any
2798 changes that we made in the monograph, including sunscreens,
2799 would take issuing regulations and years and years of time to
2800 do so. So now that we can use orders, we expect that the --
2801 to -- we expect that it will be much easier for manufacturers
2802 to --

2803 *Mr. Joyce. I would love to see that --

2804 *Dr. Cavazzoni. -- propose new --

2805 *Mr. Joyce. -- it is much easier and much faster.

2806 Mr. Chairman, my time is expired, I yield back.

2807 *Mr. Bucshon. The gentleman yields back. I recognize
2808 Mr. Balderson, five minutes.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2809 *Mr. Balderson. Thank you, Mr. Chairman. Thank you all
2810 for being here today. My first question is for Dr. Shuren.

2811 Dr. Shuren, first of all, I would like to -- it is hard
2812 to -- I know, it is tough. I would like to thank you for
2813 taking the time to do the brief on the Digital Health Caucus
2814 last month that Representative Kelly and I are taking the
2815 lead on. So we appreciate your support with that.

2816 We know that CDRH has cleared hundreds of predictive
2817 artificial intelligence products through its existing
2818 authorities under the medical device amendments. However, I
2819 am concerned by the impending influx of more complex
2820 generative AI products that the Center's existing processes
2821 cannot accommodate. How can we facilitate the approval of
2822 innovative products that are not suited to traditional FDA
2823 review?

2824 *Dr. Shuren. We share your concern. As you noted, we
2825 have authorized now almost 900 AIML-enabled medical devices.
2826 But those particular functionalities are kind of the lower
2827 level diagnostic. We moved into generative AI.

2828 The current framework is not fit for purpose. It is
2829 really designed around hardware. We need a model that is

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2830 more focused on the post-market setting that is going to be
2831 able to sort of monitor what is happening. Because with AI,
2832 if we want to deal with issues around understanding what it
2833 does and address and minimize risk of bias, it has got to be
2834 much more of a post-market model.

2835 Secondly, the numbers of what is going to be produced
2836 are going to skyrocket. We are never going to have all the
2837 resources, and it is unrealistic to expect that. We need to
2838 have the ability to kind of have a third-party certification
2839 model in place, as well, but that would require help from
2840 Congress.

2841 *Mr. Balderson. Okay, thank you. As we examine and
2842 continue to embrace AI, though, the United States must remain
2843 the global leader in innovation. There are national security
2844 implications if the U.S. restricts AI development. At the
2845 same time, we should work with other countries to prevent
2846 duplicative requirements for companies marketing devices with
2847 AI here and abroad.

2848 What is FDA doing with respect to international
2849 harmonization on AI?

2850 *Dr. Shuren. Well, much of our work for harmonization

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2851 occurs in a group called the International Medical Device
2852 Regulators Forum. We are actually the chair of it this year.
2853 We typically, in the AI space and even digital health, when
2854 there are needs for changes, new policies we not only start
2855 here in the U.S., we take it to this group because all the
2856 countries are struggling with the same issues.

2857 So for example, we are working on policy on a life cycle
2858 management approach for AI. We just raised this at IMDRF,
2859 and that group of countries has agreed that we would create a
2860 globally harmonized policy to do so.

2861 *Mr. Balderson. All right, thank you very much. I
2862 appreciate your answers. My next question is for Director
2863 Cavazzoni. I hope I did the name somewhat close.

2864 PDUFA was started over 30 years ago to address
2865 unacceptable delays. These funds ensure that the agency has
2866 resources to keep pace with innovation of medicines that
2867 patients need. Under PDUFA, FDA commits to certain
2868 performance goals in exchange for conducting timely sponsor
2869 meetings to align data and study design expectations that
2870 would support future product approvals.

2871 In the most recent performance report, FDA only met 13

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2872 of the 22 PDUFA meeting goals. And overall, FDA only met 15
2873 of the 29 times in processing its goals. Without these,
2874 sponsors either delay studies or proceed at risk without FDA
2875 alignment, either of which may result in delayed access for
2876 patients. In the performance report FDA blamed these missed
2877 metrics on hiring challenges. The FDA has consistently
2878 missed the hiring goals outlined in the PDUFA agreement.

2879 What new approaches is FDA using to address these
2880 shortfalls, and why do you have confidence that you will see
2881 improvement in recruiting rates as a result?

2882 *Dr. Cavazzoni. So thank you for that question. We
2883 have -- we pay a lot of attention to our metrics, and we meet
2884 the overwhelming majority of our metrics. You are mentioning
2885 two areas that have historically been more challenging,
2886 meeting metrics and -- as well as hiring. We are making some
2887 inroads there. We are really doubling down on looking at,
2888 you know, the root causes of missing some of the meeting
2889 metrics.

2890 When it comes to hiring, we have a lot of things
2891 underway. Something that has really helped us very much is
2892 the title 21 or 21st Century Cures hiring authority that has

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2893 allowed us to hire staff in a more streamlined fashion, and
2894 also be more competitive with the private industry.

2895 So we are making gains. We are not where we want to be
2896 everywhere, but we are committed to continue to really double
2897 down in these areas. And we expect that we will make -- be
2898 making further gains.

2899 *Mr. Balderson. All right. My time is expired. Thank
2900 you all very much.

2901 Mr. Chairman, I yield back.

2902 *Mr. Guthrie. [Presiding] The gentleman yields back.
2903 The chair recognizes Ms. Harshbarger from Tennessee for five
2904 minutes for questions.

2905 *Mrs. Harshbarger. Thank you, Mr. Chairman, and thank
2906 you to the witnesses for being here today.

2907 I want to start by asking you a question, Dr. Marks. In
2908 February of this year Chair Rodgers, Democratic
2909 Representative Juan Vargas of California, and I had a very
2910 positive meeting with FDA Commissioner Califf, where we
2911 discussed our shared goal of reducing our reliance on China
2912 and protecting and fortifying our medical supply chains
2913 through a friendshoring or nearshoring strategy. And we

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2914 discussed how that could be achieved by establishing a
2915 technical assistance FDA bureau in the Abraham Accords
2916 regions to facilitate leveraging U.S. access to the robust
2917 and growing biomedical industry in the Abraham Accords
2918 region.

2919 This is a concept I put forward with Representative
2920 Vargas in our introducing the bipartisan U.S. Abraham Accords
2921 Cooperation and Security Act. Commissioner Califf said at
2922 our meeting he is happy to work with us on this bipartisan
2923 initiative, so long as we and Congress provide funding for
2924 it, and we are prepared to do that.

2925 My question to you, sir, is, what are some key metrics
2926 you think we should look for in making this a successful
2927 initiative?

2928 *Dr. Marks. Thanks very much for that question. I
2929 think, probably, if we are going to have a successful
2930 initiative, it is going to be one where we can measure the
2931 number of products that make it, essentially, forward from
2932 one jurisdiction to another, where we can share, essentially,
2933 a regulatory -- the equivalent of regulatory reliance, or
2934 cross-reference, and where we can also help alert each other

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2935 to problems that exist in the system and have a dialogue.

2936 Probably Dr. Cavazzoni can say more in this regard.

2937 *Dr. Cavazzoni. Yes, I would echo that, you know, this

2938 type of cross-work with other regulators is very important.

2939 We have a lot of activity in our international harmonization

2940 space.

2941 I will give you an example of a very exciting pilot that

2942 we have been running with other regulators to facilitate the

2943 and remove bureaucratic barriers from -- in situations where

2944 sponsors are asking for manufacturing changes after a drug is

2945 approved. That is a major barrier, for instance, for -- to

2946 expanding the capacity, and the manufacturing capacity, and

2947 also to prevent shortages. So we are really very committed

2948 to continue to work in unison with other regulators.

2949 *Mrs. Harshbarger. Great. That is what I wanted to

2950 hear. We want to get this done.

2951 My next question, Dr. Shuren, for more than a decade the

2952 FDA has devoted extensive resources in an aggressive campaign

2953 to ban the use of an FDA-cleared medical device that is being

2954 successfully used by medical doctors and other licensed

2955 health care professionals at 1 facility to treat

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2956 approximately 50 patients in the nation, patients who exhibit
2957 the most extreme self-injurious and aggressive behaviors, and
2958 their families consider this therapy a blessing, since no
2959 other treatments have worked. And the alternatives would be
2960 restraining those patients and medicating them to the hilt so
2961 that many of these psychotropic drugs -- to the point that
2962 they are catatonic and experience alarming weight gains.

2963 Following the FDA's previous regulatory effort in 2020
2964 to ban this specific intended use of an otherwise legal
2965 medical device, a Federal court struck down your regulation
2966 as violating the Food, Drug, and Cosmetic Act, which bars the
2967 FDA from regulating the practice of medicine. Then, through
2968 aggressive lobbying by the FDA to get around this court
2969 decision, 19 lines of legislative text to give FDA this
2970 authority were stealthily airdropped and buried into a 4,000-
2971 page omnibus appropriations bill hastily enacted in 2022 to
2972 avoid a government shutdown. No hearing or formal
2973 congressional debate was even held on this provision, which
2974 represents a seismic shift in FDA's authority. And now the
2975 FDA has again issued a proposed rule to ban this specific
2976 intended use of an otherwise legal medical device.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2977 So my question to you, sir, is, how is this not the FDA
2978 regulating the practice of medicine?

2979 And how is this not a dangerous precedent for the FDA to
2980 now seek banning other off-label prescribing?

2981 *Dr. Shuren. So this is a medical device. It is an
2982 electric shock --

2983 *Mrs. Harshbarger. Yes.

2984 *Dr. Shuren. -- device. They shock the patient.

2985 *Mrs. Harshbarger. It is a last resort.

2986 *Dr. Shuren. Yes, and we have looked at it. The data
2987 isn't there. We have gone forward with the regs. A lot of
2988 groups have weighed in.

2989 That said, we are -- currently have an open comment
2990 period. I encourage everyone who has a perspective on it,
2991 have the comments into the docket by the time --

2992 *Mrs. Harshbarger. To me, it is like a right to trial.
2993 Why would you ban that for patients who are successfully
2994 getting treated with a treatment that -- where nothing else
2995 has worked?

2996 *Dr. Shuren. Yes.

2997 *Mrs. Harshbarger. And, I mean, it is unconscionable.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

2998 But, you know, it is like I said. To me it is regulating the
2999 practice of medicine, which you shouldn't be in charge of.

3000 And I just want to make you aware that this committee
3001 and many of us in Congress are going to be watching this
3002 situation very closely, and not only because of the way that
3003 this major policy was inserted last minute into a humongous
3004 appropriations bill, which is the kind of back-room deceit
3005 that the American public hates, bottom line, and it is just
3006 the way Washington works, but also because the FDA, in this
3007 saga, apparently ignored real-world evidence. So we will be
3008 watching that one.

3009 Dr. Cavazzoni --

3010 *Mr. Guthrie. Sorry, your time --

3011 *Mrs. Harshbarger. Oh, well, I have got more questions.
3012 I will just submit them for the record. Thank you.

3013 [The questions submitted for the record by Mrs.
3014 Harshbarger follows:]

3015

3016 *****COMMITTEE INSERT*****

3017

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3018 *Mr. Guthrie. Thank you.

3019 *Dr. Cavazzoni. We would be happy to follow up with
3020 you.

3021 *Mr. Guthrie. Thank you, Mrs. Harshbarger. She yields
3022 back, the -- Dr. Miller-Meeks is recognized for five minutes
3023 for questions.

3024 [Pause.]

3025 *Mrs. Miller-Meeks. Thank you for not starting my time.
3026 Thank you, Mr. Chairman, and thank you to the witnesses for
3027 testifying before the subcommittee today. And I will
3028 probably follow up a little bit on what Dr. Harshbarger was
3029 talking about.

3030 Dr. Shuren, you may recall the letter that I sent you in
3031 December of last year with Chairman Guthrie and
3032 Representatives Crenshaw and Obernolte, highlighting our
3033 concerns with assurance labs for the development and post-
3034 market regulation of AI-enabled medical devices. As I
3035 outlined, I believe it is important for the FDA to facilitate
3036 the development and utilization of AI in our medical system
3037 in a way that is both safe and effective for patients.

3038 In your May 8 response to me you stated that your vision

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3039 for a voluntary AI assurance lab is to provide comprehensive
3040 and representative health care data for product development,
3041 training, testing, and analysis, and that such labs would be
3042 run by a third party, preferably a non-profit institution
3043 that would be responsible for the technical infrastructure
3044 design and implementation, as well as the management and
3045 controls of the Federation of Qualified Health Care Data
3046 Repositories.

3047 Do you intend to outsource third-party regulation and
3048 post-market review to the Coalition for Health AI, CHAI?

3049 *Dr. Shuren. Oh, no.

3050 *Mrs. Miller-Meeks. Okay. Because let me also note
3051 that Google and Microsoft are founding members of the CHAI.
3052 The board chair of the coalition is a representative from the
3053 Mayo Clinic, which recently reported it has over 200
3054 algorithms currently under development for deployment at
3055 Health AI, and has an active business model around AI
3056 validation.

3057 So can you understand how organizations like CHAI
3058 advocating for involvement in reviewing additional layers of
3059 safety at FDA and ONC does not pass the smell test, and shows

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3060 clear signs of attempt at regulatory capture?

3061 *Dr. Shuren. Yes, so CHAI is not a reviewer for us.
3062 They are a private coalition. We engage as a Federal liaison
3063 purely to provide the FDA's centered expertise in that. We
3064 participate in several coalitions with the idea of having
3065 representation from broad stakeholder groups.

3066 We have told CHAI, too, they need to expand their
3067 membership, as well, to have more representation in the med
3068 tech side.

3069 But we do this. If they produce anything in terms of
3070 deliverables that is useful, we may take it into
3071 consideration. But they don't work for us, we don't work for
3072 them.

3073 *Mrs. Miller-Meeks. And so, given your earlier
3074 testimony, do you support innovation, Dr. Shuren?

3075 *Dr. Shuren. Yes, we support innovation.

3076 *Mrs. Miller-Meeks. And I do, too, but that is also why
3077 I oppose your Center's LDT rule. A 528-page rule is, by
3078 definition, only accessible to large corporations who can
3079 hire lawyers and consultants here in the swamp. We want
3080 bottom-up innovation. We want the pathologists to invent a

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3081 new test when they are frustrated with existing options, as
3082 we saw what happened with the COVID-19 testing debacle early
3083 on in the pandemic.

3084 We want innovation to emerge organically, and
3085 governments sometimes should get out of the way, which is why
3086 I am concerned with the direction your Center is taking us,
3087 which leads to what Dr. Harshbarger started, and an article
3088 in the Wall Street Journal from January 12, 2023, "The FDA
3089 Wants to Interfere in the Practice of Medicine," and this
3090 goes back to this case and what was put in the 2022 omnibus
3091 bill, which gives the FDA the authority to ban some of these
3092 off-label uses of otherwise approved products.

3093 This unwarranted intrusion into the physician-patient
3094 relationship -- and let me say, I am a doctor, so I am very
3095 sensitive to the patient-physician relationship -- threatens
3096 to undermine medical innovation and patient care. This is a
3097 problem for many reasons.

3098 The statute gives the FDA the power without any public
3099 input to prevent patients' access to off-label therapies,
3100 even though their physicians and patients have found the
3101 treatments to be beneficial or even essential. And we

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3102 certainly saw this in the pandemic. We also saw that the
3103 FDA, which has touted -- and your department specifically --
3104 touted using real-world data and real-world evidence -- we,
3105 as members of the Doctors Caucus, pleaded with the FDA to
3106 look at real-world evidence, real-world data when it came to
3107 vaccines, the timing of COVID-19 vaccines, and the uses of
3108 vaccines in children.

3109 So it is of no surprise to us, then, that the FDA is
3110 refusing to use, as Mrs. Harshbarger said, real-world data,
3111 real-world evidence when it comes to a device, and you
3112 referred to the device in a derogatory fashion. So to me, it
3113 seems like the FDA and your department specifically doesn't
3114 want to use innovation when no other treatments work and the
3115 treatment, the risk profile for things that potentially could
3116 work is much worse and much greater.

3117 So I think we recognize that challenge, and I would like
3118 the FDA to come up with its promise and look at real-world
3119 evidence, real-world data, and what are benefits, what are
3120 risks, certainly, as you are doing. But when nothing else is
3121 available, I think that it becomes a bias on the part of the
3122 FDA.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3123 Thank you, I yield back.

3124 *Dr. Shuren. We do look at real-world evidence. In
3125 fact, today we are authorizing roughly over 50 medical
3126 devices a year that is leveraging real-world evidence in
3127 support of it.

3128 There is a --

3129 *Mrs. Miller-Meeks. Mr. Chair, I would like to enter
3130 these articles into the record, and thank you so much.

3131 *Mr. Guthrie. Okay. Without objection -- we have --
3132 end of the hearing record, so we will consider those at the
3133 end of the hearing record. So thank you for offering those.

3134 The gentlelady yields back. The chair recognizes Mr.
3135 Pence for five minutes for questions.

3136 *Mr. Pence. Thank you, Chairman Guthrie and Ranking
3137 Member Eshoo, for holding this. And thanks to all the
3138 witnesses for still being here. I hope you had lunch before
3139 you came.

3140 I am proud that innovators in the Hoosier State, such as
3141 Eli Lilly, are leading the charge to develop and manufacture
3142 critical drugs and therapeutics. The PDUFA was enacted in
3143 1992 to help innovate innovators such as Eli Lilly to receive

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3144 faster approvals for their breakthrough medicines. While the
3145 PDUFA program has helped reduce the overall drug review
3146 times, there is still work to be done, as we have discussed
3147 today.

3148 Recently, there has been concerning trends regarding the
3149 efficiency of the program. While the Administration's budget
3150 is calling for a bump in FDA funding to keep pace with
3151 innovation, there has been a recent decrease in FDA first
3152 cycle approval rates, with an increasing number of CRLs being
3153 sent to sponsors.

3154 Dr. Cavazzoni for rare diseases, small populations, and
3155 patient heterogeneity -- that is a word over my pay grade --
3156 in disease progression and severity can make it very
3157 difficult to interpret trial data. Please talk about how FDA
3158 is working with stakeholders to develop artificial
3159 intelligence machine learning tools, including digital twins
3160 and synthetic control arms, to advance our ability to
3161 accelerate rare disease drug development.

3162 *Dr. Cavazzoni. Thank you for that question. We have
3163 seen an exponential increase in the number of applications
3164 that contain artificial intelligence elements, and we expect

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3165 to see that even more.

3166 And one of the areas that we know is of great interest
3167 is this idea of in-silico comparisons in real-world data,
3168 data sets, and so on. So we are very interested in these
3169 applications.

3170 The three medical product centers recently issued a
3171 paper, a discussion paper on how we intend to work together
3172 to advance the use of -- to make sure that -- the advanced
3173 use of artificial intelligence in medical product
3174 development. And we are really interested in continuing to
3175 work with sponsors when they present some new ideas.

3176 *Mr. Pence. Yes. So just personally, this kind of
3177 interests me. So how are you going to validate the AI
3178 conclusion? Have you had conversations about that? Are you
3179 going to offset it against other AI validations?

3180 *Dr. Cavazzoni. These are discussions that we are
3181 having now. I am happy to turn over to Dr. Shuren, since the
3182 Center of Excellence is -- really, the nexus for center of
3183 excellence --

3184 *Mr. Pence. Okay.

3185 *Dr. Cavazzoni. -- at FDA is at --

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3186 *Mr. Pence. Sure.

3187 *Dr. Cavazzoni. -- CDRH. But we are getting ready to
3188 evaluate the models that underpin sort of the algorithms. We
3189 are having discussions on how we are going to --

3190 *Mr. Pence. So if I may --

3191 *Dr. Cavazzoni. -- access them, and so on.

3192 *Mr. Pence. So do you think you have the technical
3193 skills internally --

3194 *Dr. Cavazzoni. No --

3195 *Mr. Pence. -- to be able to evaluate their models?

3196 *Dr. Cavazzoni. We --

3197 *Mr. Pence. Because that is big data, isn't it?

3198 *Dr. Cavazzoni. Yes, we do have the technical skills
3199 in-house. And as I said, CDRH is really the hub, the center
3200 of excellence for the medical product centers.

3201 Where we need to do some work is when it comes to
3202 infrastructure. For instance, having a enough space where --
3203 to ingest all of these huge data sets, and the ability to
3204 review them without making it more cumbersome, too cumbersome
3205 for sponsors and for us. So there is some work to be done
3206 when it comes to the infrastructure side. When it comes to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3207 the expertise to actually understand the algorithms, we are
3208 in good shape.

3209 *Mr. Pence. So is that internal infrastructure data
3210 centers, or is that third-party --

3211 *Dr. Cavazzoni. It is a little bit of both.

3212 First it is internal infrastructure. It may entail
3213 third parties. To give you an idea, it is extremely costly
3214 to find -- to acquire the high-computing capabilities, the
3215 very fast computing capabilities to be able to review these
3216 algorithms and these AI models. And we are having
3217 discussions internally on how --

3218 *Mr. Pence. So if I may -- I am running out of --

3219 *Dr. Cavazzoni. Sure.

3220 *Mr. Pence. Fascinating. Thanks. Great answers. But
3221 in the interim, what do you do with the AI information if you
3222 don't have the capability to analyze the data?

3223 *Dr. Cavazzoni. Well, in the interim -- we are finding
3224 ways in the interim. But what we are also discussing is how
3225 are we going to upscale once more --

3226 *Mr. Pence. Are using it.

3227 *Dr. Cavazzoni. -- more and more and more applications

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3228 will contain the elements. So there is a component of the
3229 present and then getting ready for the future.

3230 *Mr. Pence. Okay. Thank you, Doctor.

3231 And I yield back.

3232 *Mr. Guthrie. The gentleman yields back, and the chair
3233 recognizes Mr. Crenshaw for five minutes for questions.

3234 *Mr. Crenshaw. Thank you, Mr. Chairman. Thank you all
3235 for being here.

3236 I do want to address something that was said earlier,
3237 you know, effectively accusing Republicans of being a bunch
3238 of right wing nut jobs just because we have some problems
3239 with the drug mifepristone. You know, mifepristone is a pill
3240 that kills babies. So I don't think it is crazy that we are
3241 against that, first of all. It is not a crazy position to
3242 take.

3243 And it should also be said that we are asking the FDA to
3244 follow their own risk evaluation processes for a post-
3245 approval process, especially when we see adverse health
3246 effects in women that take mifepristone, the pill that kills
3247 babies. That doesn't make us crazy.

3248 Let's go to some questions here. Again, I appreciate

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3249 you all being here. One thing I am extremely interested in
3250 is regenerative medicine, and I think the value that that can
3251 bring to the public. Top of mind is some of these treatments
3252 that, quite literally, use the patient's own body, you know,
3253 their own cells to cure disease. It is one of the great
3254 miracles of our time, using autologous cell therapies. But
3255 there is a lot of regulatory uncertainty surrounding that.

3256 Dr. Marks, you have talked about an intermediate pathway
3257 to approval for novel products that don't neatly fit into the
3258 biologic versus cell and tissue pathways. Will you commit to
3259 continuing to work with us and the industry on academic --
3260 and academic innovators to ensure regulatory modernization
3261 that works for everyone and gives us that certainty so that
3262 we can have that innovation?

3263 *Dr. Marks. Very much so. We absolutely commit to
3264 that.

3265 *Mr. Crenshaw. Okay.

3266 *Dr. Marks. I mean, it is an important area where I
3267 think we realize that there are products that are quite
3268 nuanced here, and that we want to facilitate the innovation,
3269 getting to patients without, essentially, at times, perhaps,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3270 what could be seen as undue regulatory burden.

3271 *Mr. Crenshaw. Great to hear. One of the things that
3272 has also come to my attention in meeting with, you know,
3273 really interesting innovators in all the health care spaces
3274 is the lack of communication with FDA. They often feel like
3275 it is sort of a black hole of communication. They don't know
3276 what they are doing wrong, they are just told to, oh, do it
3277 again, try it differently. Well, differently how? Oh, you
3278 will figure it out. I hear that kind of feedback sometimes.

3279 So can you discuss how FDA plans to enhance
3280 communication and support for sponsors during the review
3281 process, particularly for these smaller companies that don't
3282 have the legions of lawyers and people to help them with the
3283 process?

3284 *Dr. Marks. Thanks again. Thanks very much for this --
3285 for that question.

3286 So we recognize that many of the sponsors working in
3287 regenerative medicine, or even some of the small gene therapy
3288 companies, they do not have the experience dealing with FDA,
3289 and they need someone to be very able to listen to their
3290 concerns and respond. So we have a number of programs.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3291 We have a program that people can come in very early on
3292 with just a platform approach. It may be not a specific
3293 product, but a set of products that they are intending to
3294 develop, and they can have a very informal meeting with some
3295 of our -- my colleagues about manufacturing or clinical
3296 development.

3297 I know there is -- I will let Dr. Cavazzoni speak about
3298 a similar product, a similar program in CDER.

3299 We also have an early regulatory meeting called an
3300 interact meeting where, without having to submit the
3301 investigational new drug application, a sponsor can come in
3302 with just a couple-page write-up of what they are planning to
3303 develop, and we can have a dialogue, as well. And it is a
3304 no-fault dialogue. We don't hold the sponsor to taking our
3305 advice, but it allows them to get feedback.

3306 And we will continue to try to interact as much as we
3307 can in informal settings appropriately with those, trying to
3308 develop products in this area.

3309 *Mr. Crenshaw. Okay, Doctor, I appreciate it. I only
3310 have one minute left, though, so I want to shift real quick.

3311 I am very interested in the use of psychedelics for

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3312 treatment of PTSD. We were able to push through some
3313 legislation that will tell DoD to fund the clinical trials.
3314 FDA has leaned forward on this, I think almost a year ago
3315 proposed guidelines for frameworks for what those clinical
3316 trials would look like. Can you commit to ensuring that
3317 those will be finalized soon? I think by June is the date we
3318 are looking for.

3319 *Dr. Cavazzoni. You know, we have issues -- issued
3320 guidance on -- for developers on the type of trials and
3321 development plans that we expect if they are interested in
3322 studying psychedelics as drugs.

3323 And as with in all areas, we are very, very open and
3324 interested in working with developers. I cannot speak for
3325 programs that are currently under review, but, obviously,
3326 there is a lot of interest in this space, and we want to be
3327 there to guide developers and give them advice at the right
3328 time.

3329 *Mr. Crenshaw. The guidelines were -- we saw draft
3330 reviews, and the guidelines are finalized at this point,
3331 or --

3332 *Dr. Cavazzoni. Yes, we issued draft guidance. We want

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3333 to get a little bit more experience from the current programs
3334 before issuing final guidance, and we also want to make sure
3335 that we review all of the public input that is given, you
3336 know, that was provided to us --

3337 *Mr. Crenshaw. Do you have a --

3338 *Dr. Cavazzoni. -- on the issue of guidance. So --

3339 *Mr. Crenshaw. Do you have a timeline on that?

3340 *Dr. Cavazzoni. Yes.

3341 *Mr. Crenshaw. Do you have a timeline?

3342 *Dr. Cavazzoni. We want to be very thoughtful when we
3343 issue final guidance.

3344 *Mr. Crenshaw. Understood, but do you have a timeline
3345 on that?

3346 *Dr. Cavazzoni. I can't give you a timeline today, but
3347 I am -- we are happy to follow up.

3348 *Mr. Crenshaw. Okay, thank you.

3349 *Mr. Guthrie. Thank you. The gentleman's time has
3350 expired and yields back.

3351 We now have completed subcommittee members. We have a
3352 few members of the full committee that have asked to ask
3353 questions. And so we will alternate between the both sides

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3354 of the aisle, and we will start with Ms. DeGette of Colorado.

3355 You are recognized for five minutes for questions.

3356 *Ms. DeGette. Thank you so much, Mr. Chairman. I know
3357 that, in my absence for a little while, there was some
3358 conversation about the new FDA rules on laboratory-developed
3359 tests, or LDTs, and I want to probe that a little bit more
3360 with you if I can.

3361 And everybody here knows that the character of LDTs has
3362 really changed since FDA first instituted the enforcement
3363 discretion for LDTs nearly 50 years ago. In 1976 the model
3364 sort of was the simple, manual tests being performed in local
3365 labs. But now LDTs use complex software, developing
3366 technologies, and people are using them to inform extremely
3367 sensitive life implications, the decisions they are making.
3368 And so the change in character of LDTs necessitates a change
3369 in their oversight. And a balanced system that promotes
3370 public health and encourages innovation is critical.

3371 Now, so I know after the FDA issued its recent rule,
3372 there was a lot of concern, and many of my colleagues on this
3373 committee disagreed with the approach of regulating LDTs
3374 through the medical device regulations. And I, frankly,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3375 agree with that. I think that FDA did what it could in terms
3376 of trying to regulate LDTs, but I also think that Congress
3377 should create a better oversight framework not just for LDTs,
3378 but for in vitro clinical tests in general.

3379 And so the FDA rule has been finalized, and so I think
3380 that everybody who is thinking about this now has to realize
3381 it is not like the option is, do we regulate LDTs or don't we
3382 regulate LDTs, because we are regulating LDTs now. The
3383 question is, how do we want to accomplish that regulation?
3384 Do we want to do it through the medical device regulation, or
3385 do we want to create a modernized, tailored approach to in
3386 vitro clinical tests?

3387 So Dr. Shuren, I just want to ask you. Now, FDA
3388 published the rule in the Federal Register on May 6, just a
3389 couple of weeks ago. Is that right?

3390 *Dr. Shuren. Yes.

3391 *Ms. DeGette. Yes. So some people have said we could
3392 have a Congressional Review Act resolution here that would
3393 solve this problem. But since it has been published like
3394 this, there is not going to be a CRA this Congress, and it
3395 would be irresponsible to do one without a legislative

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3396 alternative.

3397 Based on the majority leader's calendar, the CRA
3398 lookback window for next Congress will only extend to rules
3399 that are published this week. So the only two options that
3400 we have are the implementation of the rule that was just
3401 published, or if we pass a legislative solution.

3402 A CRA, in my opinion, is a waste of time, especially
3403 because we have discussed in this very subcommittee the VALID
3404 Act, a vetted, balanced, and bipartisan, and rational
3405 framework for regulation of in vitro clinical tests in
3406 general. And so I am hoping that we can all work together on
3407 this.

3408 Now, some people said that oversight of LDTs should be
3409 taken through reforms to CLIA, which is a framework through
3410 which CMS oversees clinical laboratory operations. However,
3411 both FDA and CMS have said that idea is ill-advised. Dr.
3412 Shuren, can you explain why that idea doesn't work?

3413 *Dr. Shuren. Well, CLIA doesn't pertain to key aspects
3414 on test design and validation like clinical validity. It
3415 doesn't have reporting for problems or surveillance, or even
3416 tracking the LDTs that are out there.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3417 And so we have been on record -- I actually testified
3418 before this committee nine years ago with the deputy
3419 administrator from CMS, and we said the same thing back
3420 there. And as -- and more recently -- and CMS has said, if
3421 you expanded it, they don't have the expertise to go ahead
3422 and do it, it sits with the FDA. And putting in place a
3423 duplicative system would only create more bureaucracy and
3424 more inconsistency.

3425 *Ms. DeGette. Thank you. I want to turn to something
3426 else that FDA simply cannot do under its current authorities.
3427 And so I am wondering if you can briefly tell us about the
3428 concept of technology certification that we have in the VALID
3429 Act, and how it would relieve the burden from both test
3430 developers and FDA reviewers.

3431 *Dr. Shuren. No, we couldn't do it with our current
3432 authority.

3433 *Ms. DeGette. That is right.

3434 *Dr. Shuren. Right. And so that novel approach is more
3435 about focus on the sort of capabilities of the developer,
3436 regardless if it is non-lab or lab, but it works when you
3437 have married it to really strong post-market authorities,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3438 because you need that with reporting and surveillance
3439 inspections.

3440 So one of the things with the VALID Act, it is not one
3441 little piece, it is all the parts working holistically
3442 together.

3443 *Ms. DeGette. Great. Thank you very much.

3444 Thank you, Mr. Chairman.

3445 *Mr. Guthrie. Thank you. The gentlelady yields back.
3446 The chair recognizes the gentleman from Texas, Mr. Pfluger,
3447 for five minutes for questions.

3448 [Pause.]

3449 *Mr. Pfluger. Thank you, Mr. Chairman. I had problems
3450 turning the microphone on, and I appreciate you letting me
3451 waive on.

3452 And Dr. Cavazzoni, I will start with you. I want to
3453 talk about price setting, and want to talk about competition,
3454 and specifically the IRA. So, you know, when we look at
3455 understanding the IRA lets some biosimilar manufacturers have
3456 a chance to "compete" by allowing a pause before a brand
3457 biologic product's price is set, and especially if a
3458 biosimilar is likely to enter the market within two years,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3459 but just kind of -- you know, I have some questions in my
3460 head about the timelines and the criteria, and whether those
3461 are still insufficient.

3462 And so, given the uncertainty that I believe has been
3463 created by the IRA, how is the FDA planning to provide
3464 predictability for biosimilar manufacturers to ensure
3465 continued investment and development in this market?

3466 *Dr. Cavazzoni. Yes, yes. We are very committed to
3467 continuing to work with the biosimilar manufacturers. Our
3468 biosimilar program is a success. We have approved the
3469 fiftieth biosimilar a couple of weeks ago.

3470 There is two areas that I think we think would be
3471 particularly important. Number one, we really want to find
3472 ways to develop biosimilars with less clinical data using the
3473 analytical methods and the structure of the biosimilars. So
3474 we have a lot of work there. The second one is that we think
3475 that the statutory differentiation between a biosimilar and
3476 an interchangeable biosimilar is not needed. And we think
3477 that, by removing that, removing that statutory difference,
3478 we would really make some inroads in making biosimilar easier
3479 to access, allowing substitution at the time of prescription

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3480 and so on. And we would be very happy to work with Congress
3481 to address those barriers.

3482 *Mr. Pfluger. Do these measures include -- in the
3483 nature of streamlining, do they include updates from FDA to
3484 CMS on those biosimilar products that are currently in the
3485 process, in the pipeline?

3486 *Dr. Cavazzoni. Yes, we talk to CMS along these lines,
3487 we communicate when it is needed. Our focus in our program
3488 is really to make it easier, less expensive, and less
3489 cumbersome to develop biosimilars so that we have more out
3490 there, and more that are interchangeable and that can be
3491 substituted.

3492 *Mr. Pfluger. Would you say that the competition
3493 between these manufacturers has led to the savings, billions
3494 of dollars of savings? Is that a good thing?

3495 *Dr. Cavazzoni. There is data that support that, that
3496 the biosimilar program --

3497 *Mr. Pfluger. Do you believe that data?

3498 *Dr. Cavazzoni. The biosimilar -- we would be happy to
3499 follow up.

3500 *Mr. Pfluger. Do you believe that data?

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3501 *Dr. Cavazzoni. I do believe it, yes, absolutely.

3502 *Mr. Pfluger. I will move on to ethylene oxide and talk
3503 to you, Dr. Shuren, about this. I am very worried about the
3504 EPA's decisions on ethylene oxide, and I want to know kind of
3505 what the FDA is doing to work with EPA to ensure that we
3506 don't have shortages in the surgical products and, you know,
3507 biosimilar products or any in the value chain that are
3508 affected by this. Obviously, it is something that is used to
3509 sterilize a lot of different pharmaceutical, surgical,
3510 emergency room products.

3511 *Dr. Shuren. Look, we appreciate the important work
3512 that EPA does, and our role was to try to inform that to
3513 minimize disruptions for important medical devices. And so
3514 we did work with the EPA to provide important feedback on the
3515 impact of their proposed rule. They made changes. We are
3516 still working with the EPA, and we are monitoring those
3517 sterilization facilities to see what happens during
3518 implementation to, again, try to minimize the likelihood for
3519 device shortages.

3520 *Mr. Pfluger. Could I characterize it by saying that
3521 the FDA has concerns over EPA's rule regarding ethylene

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3522 oxide?

3523 *Dr. Shuren. I think it would be fair to say we
3524 appreciate the changes they made in their final rule, which
3525 were helpful, and --

3526 *Mr. Pfluger. More changes still need to be made?

3527 *Dr. Shuren. At this point our sense is that we may be
3528 in a good place, and we will monitor to see what the real
3529 impact is.

3530 *Mr. Pfluger. Patient safety, our supply chain, the
3531 overall health of our health care system kind of resides on
3532 you working with them to get to a better place.

3533 *Dr. Shuren. Yes. And I will put a plug in. We also
3534 need help from Congress on authorities to prevent device
3535 shortages. We heard a lot about drugs, but we need help on
3536 devices because they are happening every day, and we don't
3537 have all the tools we need to prevent that.

3538 *Mr. Pfluger. Lastly, for any of you -- Dr. Marks, you
3539 can take a shot at this or Dr. Cavazzoni -- is FDA approving
3540 things in a timely manner that allows safety, but also
3541 innovation to happen?

3542 *Dr. Marks. Yes, I would say that we are trying to move

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3543 things through as rapidly as we can, while maintaining what
3544 somebody already said here was our gold standard.

3545 *Mr. Pfluger. You are trying, and I get that. Can we
3546 do better?

3547 *Dr. Marks. Listen, we are always trying to do better,
3548 and I think that is something that continuous improvement
3549 will continue to try to do, and that is a commitment we have.

3550 *Mr. Pfluger. That is a lot of continues. I like that.
3551 I will yield back. Thank you.

3552 *Mr. Guthrie. Thank you. The gentleman yields back.
3553 The chair recognizes the gentlelady from Illinois for five
3554 minutes for questions.

3555 *Ms. Castor. That is you, Jan. You are up first.

3556 *Ms. Schakowsky. Okay, sorry.

3557 [Pause.]

3558 *Ms. Schakowsky. Okay, sorry, Madam Chair, Mr. Chair,
3559 whoever, all of you. Sorry.

3560 Okay. So Dr. Shuren -- is that right? Yes, okay.

3561 *Dr. Shuren. Yes.

3562 *Ms. Schakowsky. So I am concerned about the process
3563 that you have to make sure that people who rely on a safe

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3564 product, that it is left to the manufacturer to decide if --
3565 whether or not something should be -- if the manufacturer
3566 decides that there needs to be a recall of a product, rather
3567 than having you make that decision. And I am just very, very
3568 concerned.

3569 In May there was a problem with an insulin pump that
3570 actually affected about 200 people. But it wasn't until that
3571 happened that we were able to get your agency to take action.
3572 And so I wanted to ask you if there was some way that
3573 Congress could do something to make sure that you have more
3574 authority for recalls, and not have to be dependent on the
3575 manufacturer to decide it is time to act.

3576 *Dr. Shuren. No, I appreciate that, and we would be
3577 happy to have the discussion regarding our oversight with
3578 recalls.

3579 I will say one of the challenges that we do face is that
3580 we will decide -- you know, there are standards in place as
3581 to what would constitute for recall that companies have to
3582 follow. But we are dependent today on their identifying
3583 often times those problems, and then reporting it to us. And
3584 I think you have seen some fairly high-profile instances

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3585 where a company had recalls, and they did not tell us about
3586 it.

3587 *Ms. Schakowsky. Well, that has to be fixed.

3588 *Dr. Shuren. Yes.

3589 *Ms. Schakowsky. I mean, it absolutely seems to me that
3590 the government ought to be in charge of figuring out whether
3591 there has to be a connection or not, and a correction or not.

3592 The other issue that I wanted to talk to you about,
3593 which is very similar, about hospitals, that right now
3594 hospitals are -- there is -- a letter goes out that says that
3595 there is some need to do a correction, a change in the
3596 hospitals. But it can be months before that letter gets sent
3597 out.

3598 So I have a piece of legislation that would actually --
3599 the -- it is called the -- let me see, the Medicare Device
3600 Responsibility Act that would require that you would have to
3601 announce that there is this problem to the hospitals, and to
3602 make a change in what happens in the hospitals, and not have
3603 to wait for this letter to come that could take months, and
3604 that -- so we want to make sure that you will get that
3605 information out right away.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3606 *Dr. Shuren. Yes. No, I appreciate it, and that is
3607 something we would like to continue the conversation and work
3608 with you on.

3609 I think there are two challenges here. One is the
3610 company is not identifying there is a problem and getting
3611 that reported to us. The second is reporting out to the
3612 public on a problem. We will often times put out a
3613 communication. We held a public meeting. We had our patient
3614 engagement advisory committee. They would like to shorten
3615 the time from -- it is usually sometimes 30 days -- get that
3616 to 2 weeks. We are actually working on that and more
3617 standardized information, and we are looking to actually roll
3618 out a pilot later this year on that aspect. But we still
3619 have to deal with shortening that timeframe when a company
3620 may be coming aware of something and we find out about it and
3621 can deal with it.

3622 *Ms. Schakowsky. Well, so why does -- why are companies
3623 ahead of you to decide whether there is a problem, and
3624 whether or not there is some sort of a recall?

3625 *Dr. Shuren. Yes, because in some of those cases, they
3626 are the ones who become aware of it. Other times, though, we

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3627 are the ones who go in the door, we do an inspection, we find
3628 a problem, and we will tell them this is -- "You need to
3629 recall this product and take action," and then we will
3630 enforce that.

3631 *Ms. Schakowsky. Okay. I would like to work with you
3632 on this, and I do have legislation.

3633 And with that I yield back.

3634 *Mr. Guthrie. Thank you. The gentlelady yields back.
3635 The chair recognizes Ms. Castor for five minutes for
3636 questions.

3637 *Ms. Castor. Well, thank you, Mr. Chairman and Ranking
3638 Member Eshoo, for the opportunity to waive on today. And
3639 thank you to our witnesses for being here to discuss FDA and
3640 the important work going on at your centers.

3641 For many years I have focused on improving the health of
3642 pregnant and lactating women who have historically been
3643 excluded from research and clinical trials. Their exclusion
3644 has led to significant evidence gaps that negatively impact
3645 the health outcomes of mothers and infants. Of the more than
3646 3.5 million women in the U.S. who give birth each year, 89
3647 percent take at least one prescription medication during

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3648 pregnancy. Yet 70 percent of FDA-approved medications have
3649 no human pregnancy data, and 98 percent have insufficient
3650 data to determine the risk to an infant. And that lack of
3651 data creates challenges for families and providers, excludes
3652 pregnant and lactating women from research. It doesn't
3653 really make them safer, it just means that medical decisions
3654 will be made without sufficient information on safety and
3655 effectiveness.

3656 Last month the National Academies released a
3657 congressionally-requested report called, "Advancing Clinical
3658 Research with Pregnant and Lactating Populations: Overcoming
3659 Real and Perceived Liability Risks.'" In it the Academies
3660 recommends that FDA release guidance making clear that
3661 pregnant and lactating women should be included as early as
3662 possible in studies.

3663 Dr. Cavazzoni, HHS removed pregnant women as vulnerable
3664 populations in 2018. FDA put out a proposed rule in 2022 to
3665 finally harmonize with the rest of the department, but we
3666 have now been waiting almost two years for the final rule,
3667 and patients and providers and manufacturers are eager for
3668 clear guidance, and we should be encouraging researchers to

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3669 pursue this work and ultimately improve patient care.

3670 What are the next steps for the final rule? What can
3671 you tell us?

3672 *Dr. Cavazzoni. Well, this is something that is
3673 underway. We understand that there is a lot of interest in
3674 this, and there is a lot of interest in sort of in clarifying
3675 the -- when data should be collected in pregnant and
3676 lactating women.

3677 Our stance has been that it is important that we
3678 generate data before a drug is approved, and also after a
3679 drug is approved. You know, we very often ask for
3680 registries, pregnancy registries, and that the pregnant and -
3681 - pregnant women be included at the appropriate stages of
3682 development. Obviously, there are some very early stages of
3683 development where it would not be advisable to expose
3684 pregnant women to -- and do risk when we know nothing about a
3685 drug.

3686 So we are here to work with developers. I have to say
3687 that one of the major issues that we are not all, I am sure,
3688 are aware of is that in our very litigious society there may
3689 be a opportunity to talk about tort reform that may make it

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3690 easier for developers to assume the, you know, the potential
3691 risk of sort of litigation when vulnerable populations such
3692 as pregnant women are included in clinical trials.

3693 But certainly, from our standpoint, we have issued
3694 guidance that emphasizes the importance of collecting,
3695 generating data in pregnant and lactating women pre and post-
3696 market.

3697 *Ms. Castor. And you will continue to update that as
3698 expeditiously as possible?

3699 *Dr. Cavazzoni. We are continuing to work on this, yes.

3700 *Ms. Castor. Okay, okay, thank you.

3701 Dr. Shuren, I was pleased to hear you raise the medical
3702 device shortage there a couple of members ago, because the
3703 update to the Pandemic All-Hazards Preparedness Act really
3704 provides us with the opportunity to apply the lessons learned
3705 from COVID-19. Unfortunately, committee Republicans refused
3706 to include critical legislation, including my bill on medical
3707 devices. I know during the pandemic you had the authorities
3708 to require medical device manufacturers to submit information
3709 related to the shortages. And by the end of 2022 the agency
3710 had received over 455 potential and actual shortage signals,

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3711 and that was very helpful to you.

3712 So you would like this authority to be continued so that
3713 we can tackle medical device shortages, is that right?

3714 *Dr. Shuren. That is correct because we are dealing
3715 with device shortages all the time, but now we essentially
3716 went dark to some respects, not getting those notifications.
3717 And we have those authority for drugs, but we don't have it
3718 for devices. And so we are talking about --

3719 *Ms. Castor. Give us an example.

3720 *Dr. Shuren. Yes, so we are talking about catheters for
3721 pediatric hemodialysis and, you know, infant duodenoscopes.
3722 I mean, those are the kinds of things they matter.

3723 We talk about availability of tests for kids. Why don't
3724 we care about the availability to do hemodialysis for them,
3725 too? It really does make a difference. And that
3726 information, when we used it in the pandemic, helped us
3727 prevent a lot of shortages. Why we are not able to do it in
3728 peace time I don't understand because patients care what
3729 happens to them at any time in their life.

3730 *Ms. Castor. And there should be bipartisan agreement
3731 on this.

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3732 Thank you very much. I yield back.

3733 *Mr. Guthrie. Thank you. The gentlelady yields back,
3734 and that includes -- that concludes everyone present to ask
3735 questions.

3736 And I will ask unanimous consent to insert in the record
3737 the documents included on the staff hearing documents list.

3738 And without objection, that will --

3739 *Ms. Eshoo. No objection, Mr. Chairman.

3740

3741

3742

3743 [The information follows:]

3744

3745 *****COMMITTEE INSERT*****

3746

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3747 *Ms. Eshoo. But I would like to ask you to give me a
3748 minute, minute-and-a-half to say something.

3749 *Mr. Guthrie. Okay, good, because we do have another
3750 committee coming in the room, but yes, absolutely, I will.

3751 *Ms. Eshoo. Mr. Chairman, our colleague, Mr. Crenshaw,
3752 in my view, said some disturbing things about a drug. The
3753 FDA approved mifeprax more than 20 years ago. And it was
3754 based on a very thorough, comprehensive review of scientific
3755 evidence that determined it is safe and effective for its
3756 use. FDA has continued its periodic reviews of post-
3757 marketing data of mifeprax, and has not identified any new
3758 safety concerns.

3759 There is an alarming precedent in the court case that
3760 the Supreme Court is taking up. It is an alarming precedent
3761 that calls into question the authority of the FDA. This is
3762 all based on science. And for at least some of my Republican
3763 colleagues, entering into some of the most private, private
3764 decisions that a -- in a woman's life, the devastating choice
3765 to consider ending a pregnancy, I really take exception to
3766 this because, again, this drug is also used in the treatment
3767 of other conditions, including Rushing's syndrome, uterine

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3768 fibroids, abnormal uterine bleeding, gynecological cancers.
3769 It can also be used, in some cases, to treat depression and
3770 post-traumatic stress disorder.

3771 So when ideology really ends up trumping science, I
3772 think that is dangerous for our country. Should we be going
3773 down the rabbit hole of doing away with challenging
3774 vasectomies for men because they are prevented from producing
3775 children? I mean, what is happening to us here?

3776 So this case is really based on mock science, in my
3777 view, and I think that that is one of the most dangerous
3778 rabbit holes that we could ever go down. Here, we have had a
3779 hearing with the top people from the FDA, and the perfection
3780 of all of our systems and practices so that we produce the
3781 best and the safest for the American people.

3782 So I appreciate your giving me this time. It is deeply
3783 unsettling to have that layer of ideology, and it is like
3784 water and oil. They don't mix. We are talking about science
3785 here, and the science that has been proven to stand up to the
3786 scientific evidence and its effectiveness for decades. So
3787 thank you, Mr. Chairman.

3788 *Mr. Guthrie. We have got to clear the room, yes, and I

This is an unedited transcript. The statements within may be inaccurate, incomplete, or misattributed to the speaker.

3789 thought you were going to do concluding remarks.

3790 [Laughter.]

3791 *Mr. Guthrie. It is not fair for Mr. Crenshaw not to be
3792 able to respond outside of time, but we will find an
3793 opportunity for that to happen in the future.

3794 But I just want to remind members that they have 10
3795 business days to submit questions for the record, and I ask
3796 the witness to respond to the questions promptly.

3797 Members should submit their questions by the close of
3798 business on June the 6th.

3799 Without objection, the subcommittee is adjourned.

3800 [Whereupon, at 1:51 p.m., the subcommittee was
3801 adjourned.]