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6 FDA USER FEE REAUTHORIZATION:

7 ENSURING SAFE AND EFFECTIVE MEDICAL DEVICES

8 WEDNESDAY, MARCH 30, 2022

9 House of Representatives,

10 Subcommittee on Health,

11 Committee on Energy and Commerce,

12 Washington, D.C.

13

14

15 The subcommittee met, pursuant to call, at 9:01 a.m. in
16 the John D. Dingell Room, 2123 of the Rayburn House Office
17 Building, Hon. Anna Eshoo [chairwoman of the subcommittee],
18 presiding.

19 Present: Representatives Eshoo, Matsui, Castor,
20 Sarbanes, Welch, Schrader, Cardenas, Ruiz, Dingell, Kuster,
21 Kelly, Barragan, Craig, Schrier, Trahan, Fletcher, Pallone
22 (ex officio); Guthrie, Upton, Burgess, Griffith, Bilirakis,
23 Long, Bucshon, Hudson, Carter, Dunn, Curtis, Crenshaw, Joyce,
24 and Rodgers (ex officio).

25

26 Staff Present: Vincent Amatrudo, FDA Detailee;
27 Jacquelyn Bolen, Health Counsel; Waverly Gordon, Deputy Staff

28 Director and General Counsel; Tiffany Guarascio, Staff
29 Director; Stephen Holland, Senior Health Counsel; Zach Kahan,
30 Deputy Director Outreach and Member Service; Mackenzie Kuhl,
31 Press Assistant; Una Lee, Chief Health Counsel; Aisling
32 McDonough, Policy Coordinator; Meghan Mullon, Policy Analyst;
33 Kaitlyn Peel, Digital Director; Caroline Rinker, Press
34 Assistant; Chloe Rodriguez, Clerk; Kylea Rogers, Staff
35 Assistant; Andrew Souvall, Director of Communications,
36 Outreach, and Member Services; Charlton Wilson, Fellow;
37 Caroline Wood, Staff Assistant; Hilary Carruthers, Minority
38 Fellow; Alec Aramanda, Minority Professional Staff Member,
39 Health; Grace Graham, Minority Chief Counsel, Health; Nate
40 Hodson, Minority Staff Director; Peter Kielty, Minority
41 General Counsel; Emily King, Minority Member Services
42 Director; Clare Paoletta, Minority Policy Analyst, Health;
43 Kristin Seum, Minority Counsel, Health; Kristen Shatynski,
44 Minority Professional Staff Member, Health; and Olivia
45 Shields, Minority Communications Director.

46

47 *Ms. Eshoo. The subcommittee on Health will now come to
48 order.

49 Due to COVID-19, today's hearing is being held remotely,
50 as well as in person.

51 For members and witnesses taking part remotely,
52 microphones will be set on mute to eliminate background
53 noise. Members and witnesses, you will need to unmute your
54 microphone when you wish to speak. Since we will have some
55 witnesses that appear virtually from our next panel, I ask my
56 colleagues in the hearing room to mute themselves whenever
57 they are not speaking, so we can clearly hear the witnesses'
58 response.

59 Since members are participating from different locations
60 at today's hearing, recognition of members for questions will
61 be in the order of subcommittee seniority.

62 Documents for the record should be sent to Meghan Mullon
63 at the email address we have provided to your staff, and all
64 -- excuse me, all documents will be entered into the record
65 at the conclusion of the hearing.

66 The Chair now recognizes herself for five minutes for an
67 opening statement.

68 Every day, Americans rely on safe and effective medical
69 devices. From the joy of an ultrasound during pregnancy to
70 the distress of a cancer diagnosis via an MRI, medical
71 devices treat, diagnosis (sic), and monitor the health of

72 patients.

73 When I was working on the original legislation that
74 created the Medical Device User Fee Agreement process in
75 2002, we could not have imagined the innovative devices that
76 are on the market today. And without the user fees
77 supplementing the FDA for the past 20 years, many of these
78 innovations would be stuck in a backlog, instead of helping
79 patients.

80 A few months ago I visited a hospital in my district, El
81 Camino Hospital, which is using radiation technology with AI
82 to individually target tumors. This is just one example of
83 the hundreds of devices that the FDA has approved or
84 authorized since MDUFA was last authorized in 2017.

85 With this impressive innovation comes an increasingly
86 complex FDA review process. Over the past 20 years, the user
87 fee agreements have evolved to make sure that the FDA has the
88 resources necessary so that its reviews are timely,
89 transparent, and predictable. MDUFA V is the latest
90 evolution. The recently-announced draft agreement will
91 provide FDA \$1.78 billion over 5 years in user fees. This is
92 about 10 times the amount provided in the original 2002 user
93 fee agreement. But it -- when you compare it with
94 pharmaceutical drugs, they are very different.

95 With this funding, the FDA's Center for Devices and
96 Radiological Health will be able to hire 387 new, full-time

97 employees, and also meet rising payroll costs. The user fees
98 will also fund successful FDA policies, such as the use of
99 Real-World Evidence, the harmonization of international
100 medical device regulatory activities, and patient engagement
101 to inform the evaluation of products.

102 While MDUFA V is a significant increase in user fees
103 from medical device makers, it is important to keep in mind
104 that user fees cannot and should not relieve Congress from
105 its responsibility to fund the FDA in a robust way. That is
106 why I was pleased to see President Biden's budget included a
107 \$95 million increase for FDA's medical product safety work.

108 Today we will hear from representatives from the FDA,
109 private industry, and public health about the negotiated
110 Medical Device User Fee Agreement. As the proud mother of
111 MDUFA, I look forward to shepherding the agreement through
112 reauthorization before the program expires on September 30th.

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

114

115 *****COMMITTEE INSERT*****

116

117 *Ms. Eshoo. The chair is now pleased to recognize the
118 distinguished ranking member of our subcommittee, Mr.
119 Guthrie, for his five minutes for an opening statement.

120 *Mr. Guthrie. Thank you, Madam Chair. Thank you for
121 holding this important hearing.

122 And today we are building off the work we have done over
123 the past several weeks to find additional opportunities to
124 foster American biopharmaceutical innovation. The focus of
125 today's hearing is to discuss the recently-announced Medical
126 Device User Fee Agreements, MDUFA. This will be critical to
127 continuing to enhance our medical device ecosystem here in
128 the United States.

129 Like the prescription drug industry, innovators working
130 to develop new and innovative medical technologies experience
131 significant delays in getting their products reviewed by the
132 Food and Drug Administration experts. That is why Congress,
133 regulators, and industry all came together to develop a
134 solution in the Medical -- or MDUFA, Modernization Act of
135 2002, that would streamline the review process and help get
136 these devices to patients more quickly. This agreement has
137 been authorized by Congress every five years.

138 The original MDUFA gave the FDA the necessary tools to
139 hire more clinical experts to review device applications. It
140 also offered industry the same assurance of being able to
141 hold the FDA to higher performance standards. The successes

142 of this partnership are clear at the FDA's Center for Devices
143 and Radiological Health. CDRH has granted novel technologies
144 four times -- as many approvals marketing authorization as
145 clearances over the past decade, largely resulting from
146 policies made possible by past MDUFA authorizations.

147 The agreement before us today represents an ambitious
148 agenda set by industry and CDRH experts. The goal is to
149 ensure FDA is doing everything it can to protect patient
150 safety, while also supporting the development of medical
151 device technologies. Highlights include authorizing the FDA
152 to collect 1.78 billion from industry, and potentially up to
153 1.9 billion over the next 5 years to bolster CDRH's
154 workforce, and to help get products reviewed and approved as
155 quickly and as safely as possible.

156 Of note is the creation of the new Total Life Cycle
157 Advisory Program, which CDRH states will help promote the
158 long-term sustainability of the Breakthrough Devices Program.
159 I was proud to support the creation of the Breakthrough
160 Devices Program that was created as part of the bipartisan
161 21st Century Cures Act. In 2021 CDRH granted breakthrough
162 designation to 213 devices, and there have been over 600
163 designations made since the program's inception. This
164 includes a device that harnesses machine learning to help
165 health care providers diagnose autism spectrum disorder.

166 However, I am still frustrated by the Biden

167 Administration's actions to undermine the bipartisan-
168 supported Trump-era medical coverage of innovation
169 technologies rule that would have helped to get breakthrough
170 devices to seniors once the breakthrough device is approved
171 by the FDA. This directly conflicts with the earnest efforts
172 made by Congress, CDRH, and the medical device industry to
173 encourage investments in these emerging technologies.

174 I encourage CMS to work to reverse this decision, and
175 work with the industry as well as their FDA partners to
176 address outstanding concerns.

177 To that end, I am also continuing to push for the
178 codification of the 2018 FDA guidance that permits
179 pre-approval information exchanges between product sponsors
180 and payers. These information exchanges help get products
181 covered more quickly once they are approved by the FDA. My
182 bill, the Pre-Approval Information Exchange Act, would do
183 just this, and help public and private payers to make
184 coverage determinations earlier based off real-time health
185 care, economic information exchanged between entities.

186 Additionally, offering needed clarity around the FDA's
187 2016 guidance on emerging signals is another important
188 priority of mine in the device policy space, and I am working
189 on a solution to offer needed regulatory certainty on this
190 issue. Outlining a process that affords companies the chance
191 to work with regulators on addressing reported adverse health

192 events associated with their devices will not only protect
193 patients, but will also create regulatory predictability that
194 will protect against gaps in care for patients who rely on
195 these devices.

196 I look forward to working with my colleagues over the
197 next several months to re-authorize this important user fee
198 agreement that will promote even greater innovation for
199 decades to come.

200 Thank you, and I appreciate Dr. Shuren for being here,
201 and I look forward to having questions, and I will yield
202 back.

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

204

205 *****COMMITTEE INSERT*****

206

207 *Ms. Eshoo. The gentleman yields back.

208 Colleagues, we are going to break at 9:45 so that
209 members can attend Dear Don's funeral, and then we will
210 resume at 1:00 with the second panel today.

211 So we want to hear from Dr. Shuren and get as many
212 questions in as possible. But before we go to that, we will
213 go to the chairman of the full committee, Mr. Pallone, for
214 his opening statement.

215 *The Chairman. Thank you, Chairwoman Eshoo. Today we
216 are continuing our work to re-authorize the FDA user fees,
217 which provide critical resources for the agency's medical
218 product review programs. All of the other user fees expire
219 on September 30th of this year. Or -- I said all of them do.
220 And Congress must pass these re-authorizations well ahead of
221 that deadline to ensure FDA can continue to operate without
222 interruption.

223 At today's hearing we will review the Medical Device
224 User Fee Program, also known as MDUFA. And throughout the
225 COVID-19 pandemic, the FDA's Center for Devices and
226 Radiological Health, or CDRH, has been at the forefront of
227 regulating and adapting guidance to help develop and
228 authorize diagnostic tests. It has also managed the supply
229 chain for critical items like gloves, masks, respirators,
230 swabs, and ventilators.

231 And the staff at CDRH have been working day and night to

232 stay ahead of the virus, and they deserve our recognition and
233 appreciation. Their work over the last two years has
234 underscored the importance of ensuring that FDA resources are
235 in place to make sure we have a safe and effective medical
236 device supply chain.

237 The draft agreement that we are discussing today between
238 FDA and industry will substantially increase funds for CDRH,
239 which will lead to a significant increase in staff capacity
240 at the agency, as the chairwoman mentioned.

241 The performance goals included in the draft agreement
242 will also allow for innovation through the creation of the
243 Total Product Life Cycle Advisory Program pilot, or the TAP
244 Pilot. And this pilot program will allow for earlier
245 interaction between FDA and developers, and will facilitate
246 regular engagement throughout the medical device review
247 cycle. And this will hopefully lead to a sustainable program
248 that builds safety and efficacy discussions into the front
249 end of development to speed innovation in a responsible way.

250 Now, the draft also lays out new transparency measures
251 that will ensure funds are being spent efficiently and going
252 to the programs authorized by the agreement in the
253 legislation we passed. And when I mention transparency, I
254 want to also note the importance of the process we are
255 undertaking here in the committee today, and the process
256 Congress has laid out for FDA and industry to reach the

257 agreement we are now reviewing.

258 By statute, as part of the MDUFA reauthorization, FDA is
259 mandated to consult with regulated industry, patient, and
260 consumer representatives and health care professionals,
261 receive public comment, and submit recommendations to
262 Congress no later than January 15th of this year. This
263 deadline is not a mere suggestion. It is actually the law.
264 And the process is important, because it allows for FDA,
265 industry, and members of the public to examine what has
266 worked well and where review programs can be improved through
267 the reauthorization process. It also provides Congress with
268 sufficient time to thoroughly review these recommendations,
269 and re-authorize the program ahead of the funding deadline.

270 Now, you know FDA just released this draft commitment
271 letter to the committee last Tuesday, which is more than two
272 months after the January 15th deadline. FDA has not received
273 public comment on the draft, and this is troubling,
274 considering there are serious questions about numerous
275 issues, including how the agency and industry contemplated
276 the extensions of programs due to the sunset in their
277 agreement. And there is still a lot to review and more work
278 to be done, and we must act quickly. So failure to re-
279 authorize the program on time would be catastrophic for
280 patients relying on safe and effective medical devices.

281 I am just trying to say -- I am not trying to beat you

282 up, Dr. Shuren, but, I mean, the bottom line is, you know, we
283 get this two months later -- we are going to meet our
284 deadline because we don't want to have the pink slips. But I
285 remember a few years ago, when the pink slips went out, and
286 everybody was saying, "Well, Congress, you know, why didn't
287 you do this quicker?" Well, in this case, it is your fault.
288 I mean, I don't know how else to put it.

289 So we are not going to miss the deadline, though. And I
290 appreciate FDA and industry being here today to help us
291 understand their proposal. And I also think it is important
292 for us to discuss how we can improve the process so this does
293 not happen again in the future.

294 And we will also review two other common-sense
295 proposals: one bill from Representative Schrier would create
296 a new advisory panel at FDA to bring an independent public
297 health focus to regulatory decisions, evolving diagnostic
298 tests, the importance of which are still being seen during
299 the COVID-19 pandemic; and we have another bill from Dr.
300 Burgess that would incorporate cybersecurity into medical
301 device applications, which is also critical as medical
302 devices become more interconnected and technologically
303 advanced.

304 So look forward to the discussion today. And I yield
305 back, Madam Chair.

306

307 [The prepared statement of The Chairman follows:]

308

309 *****COMMITTEE INSERT*****

310

311 *Ms. Eshoo. The gentleman yields back.

312 The chair is pleased to recognize the ranking member of
313 our committee, Representative Cathy McMorris Rodgers, for
314 your five minutes for an opening statement.

315 *Mrs. Rodgers. Thank you, Madam Chair. Today this
316 subcommittee will hold its third hearing to consider the
317 reauthorization of the FDA user fee programs.

318 Congress has acted to authorize the Medical Device User
319 Fee Amendments, or MDUFA, four times before, and we remain
320 committed to reviewing this authority on time and through
321 regular order.

322 I would like to thank our witnesses for testifying
323 today, and would also like to welcome back Dr. Shuren. Dr.
324 Shuren came before this subcommittee when we last re-
325 authorized these programs in 2017.

326 Before we discuss the proposed amendments and the two
327 bills for today's hearing, I would like to join in expressing
328 my disappointment with the failure of FDA and the regulated
329 industry to deliver their proposed agreement to Congress by
330 the January 15th statutory deadline. MDUFA negotiations have
331 been going on for over a year, and we have had just one week
332 to review the proposed amendment language and commitment
333 letter before this hearing. This delay hinders Congress's
334 oversight responsibilities. Re-authorizing these programs on
335 time is a goal shared by all of us on this committee, and

336 failure to do so will result in delayed patient access to
337 needed medical technologies.

338 Further, I have raised serious concerns about the lack
339 of transparency throughout this process. In November I wrote
340 to then-acting Commissioner Woodcock about the delay in
341 posting minutes, meeting minutes from FDA industry
342 negotiations. To ensure transparency and progress,
343 documentation of meeting outcomes and action items are
344 supposed to be made part of the official record, and made
345 publicly available. While this posting minutes publicly
346 takes no more than two to three weeks, during MDUFA V
347 negotiations we saw delays of more than six months. Even
348 today, there are no meeting minutes posted for any meetings
349 that took place after June 30th, 2021.

350 I know that my colleagues and I are looking forward to
351 getting answers today on what took so long for the proposed
352 agreement to be delivered to our committee, and how we
353 improve this process going forward.

354 Now, regarding the proposed MDUFA V agreement, as well
355 as two pieces of legislation introduced by Representatives
356 Burgess and Schrier, Dr. Burgess's bill ensures the
357 cybersecurity of devices is approved or cleared by FDA. Dr.
358 Schrier's advances on the real world impact of medical device
359 diagnostics (sic).

360 We want to make sure FDA has the resources to keep up

361 with cutting-edge medical technology, such as artificial
362 intelligence, robotic prosthetics, and facilitate innovation
363 and production of the more routine devices we rely on:
364 syringes, gloves, gowns. We need to make sure these
365 resources are used wisely and improve people's quality of
366 life.

367 The promise of American innovation will allow medical
368 technology to help keep patients healthier, enable treatment
369 at or close to home, and improve timely diagnostic --
370 diagnosis and treatment. This reauthorization requires FDA
371 to leverage digital health technologies and Real-World
372 Evidence in the review and clearance or approval of medical
373 devices where appropriate.

374 The proposed enhancements also direct significant
375 investment in hiring and retaining world-class scientific and
376 technical staff. There is no question that the COVID-19
377 pandemic severely disrupted business for the FDA to review
378 applications and make timely decisions. The Center for
379 Devices and Radiological Health has especially had a daunting
380 task. FDA has fallen behind on the accountability part of
381 the deal, missing three review goals during fiscal year 2020
382 and six during fiscal year 2021. I hope that FDA will
383 improve going forward, and that the hiring commitments and
384 performance goals agreed to under MDUFA V will get us back on
385 track.

386 I am also encouraged that the commitment letter contains
387 enhancements to improve performance, accountability, and
388 financial transparency. FDA is committed to publishing an
389 annual five-year financial plan which will include hiring
390 targets and a full accounting of where user fee funds are
391 being spent.

392 MDUFA V also continues enhancing its Patient Science and
393 Enhancement Program, which -- excuse me, which will
394 prioritize including the voice of patients in the review
395 process.

396 The goal of these improvements will improve
397 pre-submission communications with innovators, make sure
398 patients are heard, and improve overall efficiency,
399 integrity, and effectiveness of medical device reviews.

400 Re-authorizing MDUFA before September's deadline will
401 allow agency operations to continue, and will also enhance
402 patients benefit for medical innovation and advancements.
403 This is the goal that I know is shared by all of our
404 colleagues.

405 I look forward to today's discussion. I yield back.

406 [The prepared statement of Mrs. Rodgers follows:]

407

408 *****COMMITTEE INSERT*****

409

410 *Ms. Eshoo. The gentlewoman yields back.

411 Pursuant to committee rules, all members' glorious
412 written opening statements will be made part of the record.

413 I now would like to -- well, he really doesn't need to
414 be introduced, but I am going to introduce him anyway. Our
415 witness for our first panel, we all know Dr. Jeff Shuren. He
416 is the able director of the Center for Devices and
417 Radiological Health at the FDA.

418 Welcome back to the hearing room, Doctor Shuren. It is
419 really wonderful to see you again in person back to the
420 subcommittee. We are very happy to have you with us today,
421 and we look forward to your testimony.

422 You are familiar with the lights, so I don't have to
423 walk you through that. But a warm welcome. You have five
424 minutes for your testimony.

425

426 STATEMENT OF JEFF SHUREN, M.D., DIRECTOR, CENTER FOR DEVICES
427 AND RADIOLOGICAL HEALTH, FOOD AND DRUG ADMINISTRATION

428

429 *Dr. Shuren. It is nice to be back. Chair Eshoo,
430 Ranking Member Guthrie, and members of the subcommittee,
431 thank you for the opportunity to testify today about the
432 fifth reauthorization of MDUFA.

433 The investments made in previous MDUFA re-authorizations
434 have paid off dividends, with an increasing number of
435 innovators bringing their devices to the U.S. first, and a
436 more robust pipeline of innovative new devices, which
437 ultimately has led to more timely patient access.

438 I want you to know that I personally regret that we
439 missed the statutory deadline to deliver our recommendations
440 to Congress. I and the entire agency take this obligation
441 very seriously. I am pleased to report, however, that the
442 long deliberations have ultimately produced a strong,
443 thoughtful agreement on recommendations to Congress that, if
444 enacted, will continue to advance medical device innovation,
445 while maintaining the FDA's standards to protect patients.

446 CDRH continued to meet and exceed most performance goals
447 through the first half of MDUFA IV. However, we missed some
448 goals later on. During this time we saw a rise in our
449 workload for which we were not fully funded. For example, so
450 far, during MDUFA IV, FDA received over 3,000 more pre-

451 submissions than we were resourced to review, including more
452 than 1,000 in fiscal year 2020 alone. And since fiscal year
453 2018, FDA has granted more than 600 breakthrough device
454 designations, more than 200 in the last fiscal year alone.
455 Medical devices have and continue to be increasingly more
456 complex, and the review of their pre-market submissions more
457 resource intensive, while the number of submissions we
458 receive annually has increased, as well. And we expect these
459 trends to continue.

460 Then COVID hit. It pushed us into a continuous all-
461 hands-on-deck operations in order to facilitate the
462 development and availability of pandemic-related medical
463 devices. We have received approximately 8,000 emergency use
464 authorization and pre-EUA requests, and we are still
465 receiving about 130 of these submissions a month. We have
466 granted emergency use of full marketing authorization to over
467 2,200 medical devices for COVID-19, including 15 times more
468 EUAs than all other previous public health emergencies
469 combined. This has truly been a perfect storm, and my center
470 has been battling against it for two years.

471 Moreover, our efforts to grant emergency use
472 authorizations are not covered within the scope of MDUFA, so
473 they don't count towards our performance.

474 On the other hand, the magnitude of the emergency
475 response inevitably led to a backlog, and delayed review

476 times, and we fell short on some of our MDUFA goals. I and
477 my center take these commitments seriously. We know this has
478 had a great impact on companies across the country. This is
479 why we have been transparent, communicating about impacts
480 publicly and regularly, and we have worked hard to address
481 delays for COVID and non-COVID devices through hiring more
482 staff and contractors, reallocation of staff, and changes in
483 policy, procedure, and practice, with many of my staff
484 burning the midnight oil and burning out in the process.

485 We greatly appreciate the support from Congress,
486 particularly in the form of supplemental funding, and we have
487 now turned the corner. CDRH has reduced the backlog of
488 non-COVID device submissions by 44 percent, and we are
489 targeting to have most of the center back to normal
490 operations later this year.

491 Despite these challenges, during MDUFA IV we authorized
492 record numbers of novel devices, over 100 a year during the
493 pandemic. The MDUFA V proposal takes important steps to
494 address resource gaps that began to show before COVID-19, and
495 to support improved performance.

496 It also features a new accountability mechanism for add-
497 on payments under which FDA would receive additional user
498 fees if it meets specified goals. These additional funds
499 come with even more ambitious goals for the later years of
500 MDUFA V.

501 The agreement includes a new voluntary pilot to provide
502 earlier, more frequent, and more strategic engagement with
503 sponsors of breakthrough devices, and those included in the
504 Safer Technologies Program, incorporating lessons learned
505 from the pandemic, where we saw how engaging with sponsors
506 through the pre-EUA process to problem-solve and answer their
507 questions in real or near real-time was critical for
508 facilitating important technologies coming to market quickly
509 and safely.

510 The MDUFA V proposal would also support advancement of
511 the patient perspective in regulatory decisions, continuation
512 -- expansion of the use of national and international
513 consensus standards, leveraging of Real-World Evidence for
514 regulatory decision-making, and enhanced coordination with
515 international regulators to advance global harmonization,
516 among other priorities.

517 We appreciate Congress's patience and support. Thank
518 you again for the opportunity to testify today. I am happy
519 to answer your questions.

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

521

522 *****COMMITTEE INSERT*****

523

524 *Ms. Eshoo. Thank you, Dr. Shuren. We will now move to
525 member questions, and the chair recognizes herself for five
526 minutes to do just that.

527 Dr. Shuren, in your testimony you said you have received
528 approximately -- did you say 80,000 or 8,000?

529 *Dr. Shuren. Eight thousand.

530 *Ms. Eshoo. Eight thousand EUA requests during the
531 pandemic. This has, obviously, strained your center's
532 capacity, especially since EUAs do not generate user fees.

533 Are you still receiving a heavy volume of EUA requests
534 in 2022, so far?

535 *Dr. Shuren. Yes, for EUAs, pre-EUAs, it is still about
536 130 a month.

537 *Ms. Eshoo. A hundred and thirty a month. What is your
538 long-term plan to balance COVID-19, EUA requests, with your
539 center's -- I guess what I would call your regular workload?

540 And how does MDUFA V help address the center's capacity
541 gaps? Because they are -- it is really jaw dropping, these
542 numbers.

543 *Dr. Shuren. Yes, the numbers are phenomenal, and
544 really, a credit to my team for all the hard work. And I
545 appreciate the support of Congress in doing so.

546 So some of the steps we have taken is to sort of narrow
547 the focus on where we put our resources. We are in such a
548 different place today as a country than we were at the

549 beginning of the pandemic. And I think, over the coming
550 months, really, the goal is to start to turn off the spigot
551 on EUAs, that, you know, there is enough product out there,
552 and it is now turn and use more of our resources on the
553 non-COVID products that are there.

554 *Ms. Eshoo. In January you issued final guidance to
555 engage patients in the design and the conduct of medical
556 device clinical studies. Since publishing the guidance, have
557 you seen medical device clinical studies include more diverse
558 patients?

559 It is an area, on a bipartisan basis here, at our
560 subcommittee, a commitment to really reform clinical trials
561 so that they are diverse, because they are not today. Tell
562 us how you are doing with that.

563 *Dr. Shuren. Well, too early to tell with the new
564 guidance.

565 That said, I want you to know that one of our strategic
566 priorities for the center for 2022 to 2025 is advancing
567 health equity. At the top of that is increasing the
568 representation of diverse populations in clinical trials for
569 devices.

570 At the same time, we want to do this responsibly. So
571 one of the actions we will take is putting out a framework
572 about when that is absolutely critical, and what
573 circumstances, what devices, and where that will be helpful

574 to have.

575 *Ms. Eshoo. You don't have any legally binding
576 standards, though, do you?

577 *Dr. Shuren. We don't.

578 *Ms. Eshoo. You don't.

579 *Dr. Shuren. We do need the evidence to support the use
580 in intended populations. And quite frankly, if we are going
581 to provide high-quality health care, then no patient should
582 be left behind.

583 *Ms. Eshoo. In 2021, June of 2021, FDA issued draft
584 guidance that included what FDA sees as the distinction
585 between servicing and re-manufacturing medical devices. Has
586 that draft guidance helped clarify the apparent confusion
587 between servicing and re-manufacturing, at least amongst the
588 entities that perform these activities?

589 And does the term "re-manufacturing" need further
590 clarification in statute, which is, obviously, where we come
591 in?

592 *Dr. Shuren. Well, at this point, because it is draft
593 guidance, it is still -- we are getting feedback. It is not
594 finalized as official policy.

595 That said, there is value for providing greater clarity,
596 and maybe even doing so through statute with further
597 expansion than through guidance.

598 When we saw reports come in that there are allegations

599 about problems with servicing, most of those turned out to be
600 re-manufacturing. And so clarity about what constitutes and
601 doesn't constitute re-manufacturing is critically important.

602 *Ms. Eshoo. Okay. The chair now recognizes the ranking
603 member of our subcommittee for his five minutes of questions.

604 Mr. Guthrie?

605 *Mr. Guthrie. Thank you, and thank you, Dr. Shuren, for
606 being here.

607 I will tell you, watching over what happened over the
608 last couple of years, I know it has to be absolutely
609 exhausting for you, but it also has to be exhilarating. I
610 mean, you are -- the FDA, in the whole Operation Warp Speed
611 effort, I think, rose to the occasion. We have things we
612 have to look at and questions we need to ask as we move
613 forward, but absolutely, ensuring that we had products out --
614 I know you are on the device side, but just the vaccines,
615 having the products and the testing that you -- out as
616 quickly as it did, I mean, it just -- any time you have a
617 mission that brings you together like that, exhausting as it
618 is, has to be fulfilling, as well. And helping American
619 people get through the pandemic that we are still getting
620 over, hopefully, or getting -- figuring out how to live with
621 it, moving forward.

622 But -- so just a couple of questions on the agreement as
623 you were looking -- I know a big part of it is the hiring

624 goals, and some more money for hiring goals moving forward.
625 And so my question is, how does CDRH plan to meet your hiring
626 goals set forth in the agreement?

627 *Dr. Shuren. Well, MDUFA V also provides us with
628 additional funding to take advantage of the Cures Authority
629 for hiring that was in 21st Century Cures, and I really thank
630 Congressman Upton for his leadership in moving that bill
631 forward.

632 So that, and I think the greater flexibility that we are
633 now offering, in terms of work circumstances with telework
634 and remote work, is going to help us recruit. And we have
635 seen better recruiting in the past few years than we saw
636 previously.

637 But I will put on the table something, if Congress is
638 interested to help us, is the ability to have direct hire
639 authority, regardless of whether or not someone is on under
640 21st Century Cures. So if we find the right person, let's
641 bring him in as quickly as possible. And that will help us
642 be successful on implementation of, I think, MDUFA, but all
643 of the UFAs.

644 *Mr. Guthrie. Yes, thank you. I think that is the --
645 throughout our -- and we have to figure out how to have
646 hiring that is correct and right. I know we put a lot of
647 these in place, little things that, in the way past, were
648 political.

649 But I can tell you, from my VA, local VA clinics, this
650 was -- when hospitals are lining up for nurses graduating
651 from nursing school, and we have to go through the process we
652 have to go through, then it makes it difficult to get people
653 to -- I am sure you are competing with the same kind of
654 groups. We need to look at that, or the proper committee
655 needs to look at that, as well.

656 So I mentioned earlier about the signaling, merging
657 signal. Could you explain how CDRH's emerging signals
658 process works?

659 And will you commit to working with me and other members
660 of the Committee on ways to address concerns about the
661 manufacturer input during this process?

662 *Dr. Shuren. So we have not only policy that has been
663 issued, we have an entire program that is focused on what we
664 call signal management.

665 So if we get an indication there may be a problem with a
666 device -- it could be through an adverse event report, a
667 study that is published out in the literature -- we will then
668 go ahead and do an assessment on that. We have a whole
669 process for how we do that review, and then make decisions
670 around, if this requires more data, is this sort of a real
671 signal or not. And then if so, what is the appropriate
672 action to take?

673 Part of that includes, in certain circumstances, putting

674 information out on what we call an emerging signal, because
675 this is really important to get this information out to the
676 public. As a part of that process, we generally engage with
677 the manufacturers in that signal evaluation process. And
678 then, if we are going out with the communication, we give
679 advance notice to the manufacturers, and we tell them about
680 the general content of the communication, unless there is --
681 it is not feasible. There are so many manufacturers -- like
682 we did with warnings about using masks with metal if you are
683 having an MRI scan.

684 But those communications do need to be FDA
685 communications. They need to be -- we need to be
686 independent. If we are back sharing it, and then we are
687 going to end up in negotiations with companies, and we need
688 to avoid delaying tactics, where companies that try to, if
689 you will, preempt us, and put their own spin on the science,
690 that will undermine public health. It is absolutely critical
691 we have our independence to get important information out to
692 doctors and patients so they can take appropriate steps.

693 *Mr. Guthrie. Thank you. I appreciate that. That is
694 something -- absolutely.

695 Also, could you explain the differences between pre-
696 submission program and the Total Life Cycle Advisory Program,
697 and how you ensure the TAP program doesn't divert resources
698 from other important programs? You have about 30 seconds for

699 that.

700 *Dr. Shuren. Yes, so pre-submission is very popular,
701 very important. And over half of them are requested by small
702 companies, start-ups. Here, important questions that really
703 take more time to answer or provide to us. And then we
704 review if it is appropriate. Then, you know, within 70 days
705 we are going to provide -- or at least 5 days before meeting
706 -- written feedback. It is this stage gate approach.

707 If you really want to engage in problem solving, what
708 TAP does, it says, rather than the stage -- questions takes
709 time, more questions come back. We work with that developer
710 of innovative technology in a fluid manner, trying to answer
711 questions as close to real or near real-time as possible, and
712 have the capacity to engage in strategizing with the company
713 on how to get to yes. Obviously, the data has got to support
714 that it is safe and effective.

715 But this is to address the challenges with that valley
716 of death. We really go from concept to market, go beyond
717 what we have in the MDUFA today, which is just focused on
718 pre-market review. If we can solve the challenges before you
719 send us a submission, we are not talking about saving days,
720 we are talking about saving months and years --

721 *Ms. Eshoo. Years.

722 *Dr. Shuren. -- and getting to yes more efficiently.
723 TAP can be a game changer, and this is what we learned from

724 COVID that really works. It is part of the secret sauce that
725 got those 2,200 devices out onto the marketplace so quickly.

726 *Mr. Guthrie. Thank you. I appreciate your work.

727 I yield back --

728 *Ms. Eshoo. The gentleman yields back. The chair now
729 recognizes the chairman of the full committee, Mr. Pallone,
730 for his five minutes of questions.

731 *The Chairman. Thank you, Chairwoman Eshoo.

732 Dr. Shuren, you know -- you could tell from my opening
733 statement that I don't want to be -- you to send out pink
734 slips again. And, you know, my concern, obviously, is, you
735 know, people start looking for other jobs, and the process of
736 approving medical devices gets delayed. So can you describe
737 what would happen to your center at FDA and to the medical
738 device supply chain if we enter August or September and
739 Congress has not acted? What would this mean for patients,
740 if you will?

741 *Dr. Shuren. And again, my apologies for our being
742 late. I know it puts Congress in a very tough bind. But if
743 it is not authorized in time, then we have to move forward to
744 issue those pink slips, and we start letting people go, and
745 we wind down the program.

746 The program is absolutely essential for assuring that we
747 get safe and effective technology to patients. If we are
748 under-resourced, it is going to take more time. There will

749 be delays. We will start losing the edge we have got now in
750 medical device innovation here in the U.S. with more
751 important technologies coming here first. We will lose all
752 of that, and we will not be well positioned to also protect
753 patients from unsafe products.

754 *The Chairman. Thank you. And, you know, I don't want
755 to keep dwelling on the delay here, but, you know, maybe what
756 we should talk about is how we can improve this process going
757 forward.

758 So you, obviously, were one of the participants in these
759 negotiations with industry. Can you help us understand what
760 caused the delay this time, and provide any ideas on how to
761 improve the process when it is time to re-authorize again,
762 you know, five years from now?

763 *Dr. Shuren. I have been involved in MDUFA re-
764 authorizations since 2005. So, you know, we got a late
765 start, too. And this was us and industry both said, "We are
766 getting hammered with COVID. We need more time."

767 One thing Congress could do is maybe, rather than just
768 have the date about when you have to come to Congress, have
769 the date when we have to sit down and get this started. You
770 know, so we have got enough lead time, you know, to get it
771 done. And maybe then, you know, think about -- we could be a
772 bit more accountable publicly if we are going to be late.

773 And I appreciate, too, our delay on the meeting minutes.

774 That puts you in a tough bind, as well, to make well-informed
775 decisions.

776 *The Chairman. All right, thanks. I wanted to note
777 that, as I think has already been discussed by you and the
778 chairwoman, that the proposed MDUFA V significantly increases
779 funding above what was laid out on MDUFA IV. So could you
780 explain why this increase in resources is necessary, how it
781 will help with product reviews, and how FDA determined what
782 resources were needed this time to ensure the agency is
783 funded over the next five years?

784 *Dr. Shuren. Well, one of the challenges was, you know,
785 as I mentioned in my opening statement, is under-resourced in
786 MDUFA IV. Look, we make our best estimates on what the costs
787 are going to be, but there is no way to really adjust that as
788 we move along. And some things are just, you know, out of
789 control.

790 But at the same time -- so what MDUFA V is going to do,
791 deal with those gaps, but give us the ability to further
792 improve our performance, which is important. It is going to
793 create that pilot. We are going to test drive TAP, and that,
794 to me, is a major game changer. But I think we are doing it
795 responsibly. Do a pilot. Learn from it. See if it is worth
796 keeping, and go from there. And then greater investments to
797 do more work on bringing the voice of patients into the
798 picture, we will continue to have funding for Real-World

799 Evidence, and then better leverage that moving forward,
800 better use of national and international consensus standards,
801 and drive towards greater international harmonization.

802 This is really -- I view it as, like, the next frontier,
803 where we need to go for a program.

804 *The Chairman. All right. Thank you.

805 And I know we are running out of time, Madam Chair, so I
806 will yield back.

807 *Ms. Eshoo. The gentleman yields back. The chair
808 recognizes the ranking member of the full committee for her
809 five minutes of questions.

810 *Mrs. Rodgers. Thank you, Madam Chair.

811 In December, FDA published two draft guidance documents
812 to provide the agency's policy for device manufacturers
813 planning to transition products granted emergency use
814 authorization during the pandemic to regular marketing
815 submissions. These guidance state that products currently
816 marketed under an EUA would need to submit a pre-market
817 application and change their product labeling within 180 days
818 of the end of the public health emergency.

819 Manufacturers have expressed that this is not sufficient
820 time to submit applications, particularly for those that are
821 still gathering clinical data. Others raised concerns about
822 the burden that updating the label twice is going to raise,
823 once during the application review, and then again during the

824 approval decision. This is going to be a burden on
825 manufacturers.

826 I wanted to ask, is FDA taking these concerns into
827 account, so as not to make supply chain challenges worse and
828 hurt patient access to devices that will continue to be
829 needed, even once the public health emergency has ended?

830 And then, can FDA even process an influx of applications
831 within 180 days, and meet MDUFA goals?

832 *Dr. Shuren. So we are taking all the feedback we are
833 receiving into account.

834 And I will mention, you know, during the pandemic we
835 issued 28 guidances, but most of those guidances were
836 immediately in effect because, as a public health emergency,
837 we wanted to move quickly. We made the decision that, for
838 transition, it was absolutely critical we get public input
839 before we finalize. We made an exception in this case,
840 because we wanted to hear from manufacturers and others, and
841 we do want to get this right.

842 I will say I also encourage manufacturers, don't wait
843 for us to tell you at some point in the future you need to
844 come in with a pre-market submission. You are out there in
845 the marketplace. If you want to stay on the marketplace in
846 the long term, get your data, come in the door, and we will
847 -- of course, if you submit a data for an EUA, we are going
848 to be leveraging that in our final decision-making, too.

849 Also, if you come in the door, remember the product is
850 on the market. So it doesn't matter if it takes a little bit
851 longer to review a pre-market submission. We are more
852 focused right now getting new product on the market. The
853 transition devices will be second, but we are not going to
854 disenfranchise anyone. No product would come off if
855 something is in the door.

856 *Mrs. Rodgers. Okay, okay. Thank you.

857 As I mentioned in my opening statement, I have expressed
858 concerns about the lack of transparency throughout the cycle
859 of MDUFA and the negotiations. The requirement for FDA to
860 publish meeting minutes is a -- is in place so that
861 policymakers and the public can monitor the status of the
862 user fee negotiations in near real-time, not months later,
863 and stay informed about the key issues. They aren't
864 optional, and we expect them to be published quickly.

865 FDA has not published meeting minutes since June. How
866 many negotiation meetings have been held since June 30th,
867 2021?

868 *Dr. Shuren. I will get back to you with the number.
869 But I have to say a lot. So --

870 *Mrs. Rodgers. Can you estimate how many?

871 *Dr. Shuren. I am going to say over a dozen.

872 *Mrs. Rodgers. Okay. Would you speak to why the
873 meeting minutes were not published on time?

874 *Dr. Shuren. First of all, I will again apologize for
875 that, because we should.

876 I have to tell you, negotiations on MDUFA, it is more
877 like an international treaty: lots of parties, lots of
878 perspectives. And the same happens with the meeting minutes.
879 There is a lot of back and forth on them. I don't mean that
880 by way of an excuse, but everyone wants to be comfortable
881 with what is in there. Folks were so focused on let's get
882 the deal wrapped up. And as you know, we went late, and we
883 were all pushing, and we wanted to get accord. We felt it
884 was important to get consensus, and that meant more
885 discussions to do it. So we put the priority with our
886 limited, you know, bandwidth on getting the deal done in the
887 meeting minutes. But again, my apologies because that does
888 put you all at a disadvantage.

889 *Mrs. Rodgers. Okay. Well, we are missing a lot of
890 information because of that. And we -- and Congress has made
891 multiple requests. Can you speak to how many times FDA and
892 industry met in December and January leading up to the
893 January 15th statutory deadline?

894 *Dr. Shuren. Somewhere in January -- there were offline
895 discussions, not a lot of in-person meetings while other
896 information was being gathered and other issues were being
897 dealt with. I don't have the exact number, but I will -- I
898 can get back to you with all of those details.

899 *Mrs. Rodgers. Thank you. I just want to conclude by
900 expressing concerns about a proposal in the President's
901 budget that would significantly expand the scope of mandatory
902 device supply chain reporting requirements that were just put
903 in place for the first time during the pandemic.

904 With less than two years since FDA was first given this
905 authority, I am unaware of any study or review that has been
906 conducted to understand the benefits and the burdens of this
907 data collection. I am open to understanding how FDA can
908 better utilize its current flexibility authorities to
909 efficiently review changes to components or sourcing. But
910 imposing sweeping government mandates and more paperwork
911 requirements on businesses is only going to disincentivize
912 innovation and reduce competition.

913 I yield back.

914 *Ms. Eshoo. The gentlewoman yields back.

915 *Dr. Shuren. Could I respond to that? Because I -- if
916 it is possible?

917 *Ms. Eshoo. Sure.

918 *Dr. Shuren. Just to say I appreciate that.

919 First off, the authority, that broader authority, as you
920 say, already applies for drugs. We are asking for parity on
921 that. We have used -- and I want to say thank you for the
922 authorities in the Cares Act, because we used that during the
923 pandemic. Those notifications helped us prevent or mitigate

924 shortages with test supplies, and ventilators, surgical
925 masks, respirators, dialysis systems, defibrillators, even
926 needles and syringes being used for vaccines.

927 The problem is shortages occur outside of a public
928 health emergency. In fact, for a public health emergency --
929 in COVID it started before the public health emergency was
930 declared. So we were behind the eight ball because of that.
931 And that hurts our frontline workers. It hurts patients.
932 And even during the pandemic, we had a shortage of resin
933 because of a winter storm. The only reason we got notified
934 is because it happened in a pandemic, which helped us prevent
935 large-scale shortages of tests. If this was not in the
936 setting of a public health emergency, no obligation to tell
937 us, and patients will get hurt.

938 We know -- we have dealt with shortages for years, but
939 we have not -- we need this authority. We were flying blind
940 without it. When the pandemic hit, without that authority,
941 and before public health emergency, we had to reach out to
942 about 1,000 manufacturing facilities over 12 countries, cold
943 calling them. And we got maybe responses in about a third,
944 and often incomplete responses. And that put people's lives
945 at risk.

946 This is something simple to fix. We don't want to be
947 over-burdensome, but at least parity with the drug program.

948 *Mrs. Rodgers. Well, this merits a longer discussion.

949 Medical devices are different than drugs, and I think we need
950 to consider that.

951 Thank you. I yield back.

952 *Ms. Eshoo. Before the reforms, the approval by -- the
953 approvals by FDA were based on the yardstick by which
954 pharmaceutical drugs were measured. So, you know, we really
955 have made progress.

956 Colleagues, we are now going to recess for Congressman
957 Don Young's memorial, and we are going to resume at 1:00 this
958 afternoon when members, of course, will continue to question
959 Dr. Shuren, and to host our second panel. So, Dr. Shuren,
960 you have time for breakfast and lunch. How's that? And we
961 will see you back at 1:00.

962 *Dr. Shuren. All right, thank you.

963 *Ms. Eshoo. We will be in recess until then. Thank
964 you, everyone.

965 [Recess.]

966 *Ms. Eshoo. The Health Subcommittee will come back to
967 order.

968 Thank you again for your patience, Dr. Shuren. And I
969 believe -- who is next? The chair recognizes the former
970 chairman of the full committee, a great member of this
971 subcommittee, the gentleman from Michigan, Mr. Upton.

972 *Mr. Upton. Well, thank you again, Madam Chair, for
973 holding this hearing. And we all regret the loss of our good

974 friend and colleague, Don Young, which is why we broke for
975 his private service, with many of us there attending.

976 Dr. Shuren, I really appreciate your leadership,
977 particularly over the last couple of years. You were -- for
978 those that don't know, you were a major help as we got 21st
979 Century Cures done. Not only did you travel around the
980 country, but you helped us in a number of roundtables to make
981 sure that we did it right. And the proof is in the pudding.
982 And we are very pleased with a good number of the results
983 since President Obama signed that bill into law.

984 I guess I have got, really, two questions. I hope I can
985 get through both of them while we are here. I have heard
986 from a number of the medical device manufacturers and, as you
987 might know -- I am sure you are aware -- they are very
988 concerned about the potential on these new regulations that
989 may be coming out as it relates to the surveillance once they
990 are done. They are very afraid that, in return for the
991 faster approvals -- and they did this with the EUA -- that it
992 would shorten the time to get some of those out. But they
993 are concerned that the hammer may be out there for a long
994 time, perhaps afterwards. And I just want to get maybe a
995 couple of quick comments from you, and maybe just have the
996 opportunity down the road.

997 I don't have language, or -- but I just wonder if you
998 could work with us as we relate it to those potential

999 changes. I know that there would always be a comment period,
1000 et cetera, but I just wonder if you might be able to look at
1001 some constructive ideas that would alleviate some of the
1002 fears that the device industry might have as it relates to
1003 these. I don't even know if there are proposed regs yet. I
1004 don't know if it is -- if they are actually out or not. But
1005 if you could just sort of walk us through that process, that
1006 would be helpful to

1007 *Dr. Shuren. And just to clarify on surveillance, is
1008 this in terms of the -- you had mentioned with EUAs, is this
1009 on the transition to EUAs?

1010 *Mr. Upton. Yes, the mandatory reporting -- the
1011 manufacturers are experiencing increased demand or having
1012 issues with components that are life-supporting, life-
1013 sustaining, or intended for emergency medical care during
1014 surgery. These would be targeted towards the devices in
1015 terms of the reporting of issues that they might have after
1016 they were approved.

1017 *Dr. Shuren. Yes. So that pertains to, you know,
1018 proposed legislation that is really in Congress's court that
1019 goes back to supply chain shortages.

1020 *Mr. Upton. Right.

1021 *Dr. Shuren. And in shortages, we are always talking
1022 about is there permanent discontinuance of the device, or is
1023 there a meaningful disruption in the supply, and we are just

1024 clarifying. One of those circumstances is where the demand
1025 really goes up, and the manufacturer cannot make, you know,
1026 sufficient -- and there is going to be a real shortage with
1027 meaningful, meaningful impact.

1028 We saw that in COVID. You remember, with personal
1029 protective equipment, the needs for health care workers
1030 skyrocketed, and we had massive shortages of those products.
1031 And it made a big difference. In fact, the question came up,
1032 you know, devices are different than drugs.

1033 I would kind of put to you, ask our health care workers
1034 how important it was to them that they have, like, N95
1035 respirators.

1036 *Mr. Upton. Great.

1037 *Dr. Shuren. Our doctors and nurses. And they didn't
1038 have it in the beginning of this pandemic. And some of those
1039 issues, in fact, started before even a public health
1040 emergency. So here is a case where one of the causes is
1041 demand goes up way above supply. And it is another example
1042 of issues that start before a public health emergency and
1043 why, too, we don't want to limit it to just those
1044 circumstances.

1045 *Mr. Upton. But are there some regulations, then, that
1046 are pending as it relates to the reporting of issues or not?

1047 *Dr. Shuren. I think this is in reference to what we
1048 put out for our -- in legislation. But we always are

1049 continuing to provide greater clarity on reporting that is in
1050 the CARES Act. But here we have talked about making sure
1051 that, if we are doing something in supply chain, let's be
1052 clear on the circumstances that are important, that are
1053 leading to it.

1054 *Mr. Upton. Great. So I may come back with maybe a
1055 letter, and try to --

1056 *Dr. Shuren. We are happy to have -- talk about this,
1057 because we want to get to the right place. This is a major
1058 problem for the United States --

1059 *Mr. Upton. Okay, so --

1060 *Dr. Shuren. -- and for health care.

1061 *Mr. Upton. The last question I want to ask quickly is
1062 that a common refrain that we are hearing from patient groups
1063 is that CMS is taking a long time to make payment decisions
1064 on new drugs once they make it through the approval process
1065 at FDA. While I know that FDA is part of the payment process
1066 decision, are there ways that FDA and CMS can better
1067 communicate so that, once a drug or device is approved, it
1068 can make it through the payment process more quickly?

1069 *Dr. Shuren. To date, you know, we have a very good
1070 working relationship with CMS, and there are a number of
1071 opportunities. For example, we have our parallel review
1072 program, the chance for a manufacturer to ask to meet with
1073 CMS and us in advance to kind of get our expectations for

1074 what it takes for FDA approval and for CMS, you know,
1075 coverage determination.

1076 We are also working through the Medical Device
1077 Innovation Consortium, and CMS is a part of that. And there
1078 is already a workstream regarding to reimbursement and
1079 things, too, to facilitate. And we stand ready to work with
1080 our CMS colleagues on whatever is helpful to them to sort of
1081 streamline that pathway from FDA approval to Medicare
1082 coverage.

1083 We know in the U.S. one of the big drivers, either to
1084 help or to harm innovation, is to have, you know, predictable
1085 pathways for reimbursement. Certainly, that is a broad
1086 challenge here in the U.S. and, again, something we are very
1087 happy to --

1088 *Mr. Upton. We are looking to try and help with the
1089 Cures 2.0 as part of that.

1090 With that, Madam Chair, I yield back my time.

1091 *Dr. Shuren. Thank you --

1092 *Ms. Eshoo. The gentleman yields back. That is a -- it
1093 is a huge issue. And I am glad that you are attempting to
1094 align and have cooperation between the agencies. I don't
1095 know what it is producing, but it is a constant complaint,
1096 and it is a legitimate complaint. So thank you for what you
1097 are doing, and anything that you can -- you think that we can
1098 get into the legislation which would advance this case, I

1099 know that you will work with us.

1100 The chair now has the pleasure of recognizing the
1101 gentleman from Maryland, Mr. Sarbanes, for five minutes of
1102 questions.

1103 *Mr. Sarbanes. Thanks very much, Madam Chair.

1104 Dr. Shuren, thank you for being here today. I
1105 appreciate your testimony. Obviously, it is very important
1106 as we are considering the MDUFA performance goals letter, and
1107 Re-authorizing the Medical Device User Fee Agreement.

1108 While we have you here, I was interested in your
1109 perspective on the importance of increasing clinical trial
1110 diversity, and ensuring that trials for medical devices
1111 better reflect the patient population that might utilize the
1112 device in the future. We sometimes don't think about that in
1113 this context as much as we do in other contexts.

1114 Can you talk about the importance of enrolling trial
1115 participants that reflect the intended patient population of
1116 a device?

1117 *Dr. Shuren. Now, we consider this a critically
1118 important area. If you want to know if the device works, it
1119 is intended for a particular population, you have got to go
1120 ahead and, you know, assess it in that population. We have
1121 put this as one of our strategic priorities over the next
1122 years as part of our advancing health equity.

1123 It is also reflected in the MDUFA V agreement, where

1124 there are commitments around increasing, for example,
1125 participation of patients, you know, across broad populations
1126 in device trials. And that includes leveraging technology as
1127 a way to get more patients enrolled in clinical studies. If
1128 they don't have to come out of, for example, their home
1129 setting, it will make it easier for data collection, and that
1130 will make it easier across populations who otherwise have
1131 been feeling more disenfranchised from the ability to
1132 participate in clinical studies.

1133 *Mr. Sarbanes. Has FDA had the opportunity to kind of
1134 pilot that in any significant way, and see what the benefits
1135 of the technology are? Could you describe some of that in a
1136 little more detail?

1137 *Dr. Shuren. There is already work underway, and we
1138 have tried to facilitate the use of such technology in the
1139 setting of COVID, because we knew that it would be more
1140 challenging for people who otherwise would be enrolled in a
1141 clinical study to get to a clinical trial site, and so have
1142 really -- have put out guidance on this.

1143 And there is more that we, as an agency, will be doing
1144 in this space to, again, facilitate these sort of remote
1145 clinical trials. And a linchpin for it is technology.

1146 *Mr. Sarbanes. It is another example -- we have been
1147 seeing this across, it seems, every arena, that the pandemic
1148 [inaudible] us to new opportunities that we can then seize

1149 upon and deploy in a more permanent way going forward.

1150 Talk to me a little bit about the relative
1151 responsibility with respect to inclusive and representative
1152 trials between the FDA, on the one hand, and industry on the
1153 other.

1154 *Dr. Shuren. Well, industry will come to us -- for
1155 clinical trials that pose a significant risk. We get a
1156 submission to be able to review in advance, and also
1157 companies come to us through the pre-submission process to
1158 seek our advice.

1159 One of the things that we think could be helpful here is
1160 to provide clarity on a framework for those circumstances for
1161 technology where it is important that a diverse population is
1162 included in the clinical trial. That could help facilitate
1163 manufacturers assuring that, if you will, their clinical
1164 trial is fit for purpose, for the intended use for the
1165 technology that they wish to get authorized.

1166 *Mr. Sarbanes. Are there things that you think we can
1167 be doing in Congress to incentivize and encourage greater
1168 diversity when it comes to the clinical trial side of things?

1169 *Dr. Shuren. I think this is something I really would
1170 like to take back to the agency. This certainly goes beyond
1171 medical devices, and I want to make sure that we are speaking
1172 with one agency voice, since this affects lots of different
1173 products.

1174 *Mr. Sarbanes. Well, I appreciate it. I want to thank
1175 you for your testimony. Obviously, as you can tell, I am
1176 interested in how we increase the use of digital health
1177 technology to spur greater trial participation. You have
1178 alluded to that being one of the goals in MDUFA V, and I
1179 certainly appreciate that.

1180 So we will [inaudible] it. And if you generate some
1181 interesting data in -- as you begin to pilot this, and invite
1182 industry to bring a perspective to it as well, [inaudible]
1183 with us, because it may inform our ability to do some things
1184 here on the policy side.

1185 Thanks very much, Madam Chair.

1186 *Ms. Eshoo. The gentleman yields back. The chair is
1187 pleased to recognize the gentleman from Virginia, Mr.
1188 Griffith, for your five minutes of questions.

1189 *Mr. Griffith. Thank you very much, Madam Chair.

1190 Doctor, at the beginning of the COVID-19 pandemic the
1191 CDC tests for COVID were not accurate. What role did the FDA
1192 play in the approval of these faulty tests?

1193 *Dr. Shuren. Well, the test itself, the design of the
1194 test, was fine. And so we authorized that test. But, you
1195 know, from our review there was an issue around the
1196 manufacturer. We believe that there may have been
1197 contamination that occurred in later batches of the test that
1198 was produced.

1199 *Mr. Griffith. And will you provide this committee with
1200 the FDA's after-action analysis and report on the various
1201 causes, whether it was manufacture or otherwise, of this
1202 significant failure?

1203 *Dr. Shuren. I am happy to provide you what information
1204 we can. We did not have an official report of -- coming from
1205 the agency. But I did have the director of our in vitro
1206 diagnostics office we had sent over to the CDC to facilitate
1207 looking into this matter. He has many years' history of
1208 developing tests, both in the laboratory and at commercial
1209 manufacturers. And --

1210 *Mr. Griffith. If you could share that with us, I would
1211 appreciate it.

1212 *Dr. Shuren. I would be happy to.

1213 *Mr. Griffith. Switching gears a little bit, how many
1214 emergency use authorizations were granted in the last two
1215 years vis a vis the two years prior to that?

1216 I don't expect you to have that answer here today, but
1217 could you provide that to the committee, as well?

1218 *Dr. Shuren. Yes. I think, if you are talking about
1219 all medical devices, I think we are somewhere over 870 EUAs
1220 granted.

1221 *Mr. Griffith. During the last two years?

1222 *Dr. Shuren. In the last two years.

1223 *Mr. Griffith. Okay. If we could just get that --

1224 *Dr. Shuren. We will double --

1225 *Mr. Griffith. -- comparison of pre-COVID and post-

1226 COVID, what the use of that was. All right.

1227 [The information follows:]

1228

1229 *****COMMITTEE INSERT*****

1230

1231 *Mr. Griffith. Digital health is an important component
1232 of MDUFA, and in the MDUFA commitment letter I am glad the
1233 agency will put such a strong focus on this important area.
1234 But I wonder whether device, drug, and biologic centers will
1235 operate in silos which could hurt digital health innovation
1236 because of inconsistent regulations.

1237 What specific actions will the agency take to ensure
1238 that this does not occur?

1239 *Dr. Shuren. One of the steps we took is to create a
1240 digital health center of excellence out of the Center for
1241 Devices, which serves as also a resource and a convener for
1242 the rest of the agency. And we have already an intra-agency
1243 group that serves to advise the center and to facilitate
1244 coordination between the different parts of the agency on
1245 cross-cutting matters relevant on some of these aspects for
1246 digital health.

1247 *Mr. Griffith. All right, I appreciate that.

1248 It has also -- a little bit different, but in the same
1249 area, it has come to my attention that a significant
1250 challenge associated with incorporating digital technologies
1251 in health care is distinguishing between a medical device
1252 which requires FDA approval and a consumer product which
1253 falls under the FTC's jurisdiction.

1254 Do you agree that there should be more cooperation
1255 between these two agencies, as we determine how best to

1256 regulate devices that can be helpful in our health care?

1257 *Dr. Shuren. Well, we do have a good working
1258 relationship with them, and there have been a number of cases
1259 with just medical -- with products more generally, where
1260 there has been an issue on, you know, which side of the line
1261 it sort of falls. And we have coordinated with them, such as
1262 on cribs, risk of strangulation on cribs. And we will
1263 continue to do so, because that is an important relationship.

1264 I do think the committee was very helpful in 21st
1265 Century Cures, for example, on clarifying certain
1266 circumstances where the software is not a medical device, and
1267 so falls on the other line. And that clarity then helps, you
1268 know, for these jurisdictional issues.

1269 *Mr. Griffith. All right, I appreciate that.

1270 The MDUFA commitment letter also describes several
1271 activities the FDA plans to undertake to support better
1272 harmonization among medical technology regulators across the
1273 globe. What international harmonization efforts are
1274 currently underway?

1275 *Dr. Shuren. Right now this is all through the
1276 International Medical Device Regulators Forum. And there is
1277 a particular focus right now on harmonization pertaining to
1278 artificial intelligence -- biggest focus on machine learning.

1279 *Mr. Griffith. And how do you see this work evolving in
1280 the future, specifically referencing artificial intelligence

1281 and the support of that in decision-making and in clinical
1282 work?

1283 *Dr. Shuren. It has become increasingly more important
1284 in the work that we do. We have already authorized, you
1285 know, over 300 devices with AI ML capabilities -- just 50, I
1286 think, you know, in the last year.

1287 So we have a whole action plan that goes through a
1288 number of steps we are taking to sort of facilitate the
1289 development of AI technologies, and to ensure they are safe
1290 and effective.

1291 *Mr. Griffith. And one of the things we have to work on
1292 as we work on AI is to make sure that we are using that, and
1293 helping to bring down health care costs, because there are a
1294 lot of things, if it is not something serious, that we could
1295 actually use AI, as opposed to actually using one of our
1296 health care providers, who -- on site. So if you combine AI
1297 and telemedicine, we could do an awful lot to bring down
1298 costs and bring service to people who may not otherwise have
1299 access to the medical care that they deserve.

1300 *Dr. Shuren. No, we agree. I will say one of the
1301 challenges we face is that, you know, the device frameworks,
1302 you know, that are in place, they are about 45 years old. So
1303 they were really designed for, literally, my grandmother's
1304 technology. You know, it is hardware-based, and we are
1305 talking about software. And it is just not lined up, you

1306 know, with the innovation cycles that you see.

1307 And I would personally say I wish I had the flexibility
1308 that we have in COVID on tailoring the pathway to the
1309 technology in the least burdensome way, and have that ability
1310 to do it in peacetime. Not change the U.S. standard of
1311 market, but have the flexibility to offer it voluntarily, you
1312 know, and then you pick the traditional route, pick the new
1313 route. And, you know, if we don't do that in this software
1314 area, like with artificial intelligence, we are going to kill
1315 important technology that will make a big difference to
1316 patients. That I do worry about.

1317 *Mr. Griffith. Let us know what we can do on that.
1318 I yield back, Madam Chair.

1319 *Ms. Eshoo. The gentleman yields back. The chair
1320 recognizes the gentlewoman from Michigan, Mrs. Dingell, for
1321 your five minutes of questions.

1322 *Mrs. Dingell. Thank you, Chairwoman Eshoo and Ranking
1323 Member Guthrie, for having this really important hearing
1324 today.

1325 Since 2002, user fees have supplemented funds
1326 appropriated to FDA to support timely review of medical
1327 device pre-market applications, facility registrations, and
1328 other activities. These funds enable FDA to hire more staff
1329 that have the necessary subject matter expertise to review
1330 the complex data that, as a result, applications may be

1331 reviewed in a shorter period, shorter amount of time, while
1332 FDA standards for safety and effectiveness -- and that
1333 matters -- are still met.

1334 For the first time, MDUFA V, FDA, and the industry have
1335 agreed to an increase in fees for the last 3 years of the new
1336 cycle if the goals are met in the first 3 years, beginning in
1337 2023. If FDA meets the initial goals and fees increase, the
1338 corresponding review goals for FDA in fiscal year 2025
1339 through 2027 will also escalate.

1340 Additionally, if FDA doesn't meet its hiring goals,
1341 registration fees would be reduced. This should create
1342 additional incentives for FDA's Center for Devices to review
1343 pre-market submissions by the agreed-upon goal dates. But
1344 Dr. Shuren, I do have some questions.

1345 Since user fees were first considered decades ago, there
1346 have always been questions about whether payments by
1347 regulated industry to the regulating agency create a
1348 potential conflict of interest. How does the CDRH assure
1349 that the fees and the goals agreed upon in the MDUFA only
1350 impact review times, and not review outcomes?

1351 *Dr. Shuren. Well, we do assure, you know, that is
1352 baked into the agreement. We are making no commitments
1353 regarding policy decisions. We make no commitments on
1354 decisions regarding individual products. This is basically
1355 the fee for service.

1356 The other is -- you mentioned the add-on payments. And
1357 they will only kick in for more money. At least we are not
1358 talking about cutting funds if we have a net performance.

1359 But the other thing that is sort of assured is that,
1360 with additional funds that may lead to faster review times,
1361 it doesn't undermine the quality of the decisions that we
1362 make because this is a bit of a queuing issue. And so, if we
1363 have more people, we are able to do things, we have more
1364 people to spread it out, we can reduce the overall time on a
1365 review.

1366 The other added advantage is that it allows us to bring
1367 on board more experts, and we have a deeper bench on
1368 expertise like around digital health -- assures that we make,
1369 you know, well-informed decisions.

1370 *Mrs. Dingell. So do the new performance incentives
1371 present any risk that speed may sometimes have a negative
1372 impact on the quality of the pre-market review?

1373 For example, is it more difficult to identify and
1374 explain submission deficiencies for a greater number of
1375 submissions in a shorter period of time?

1376 *Dr. Shuren. Well, I do think, if we are identifying
1377 deficiencies, then -- and we do have enough time to identify
1378 them if we have the added people for doing the work. Like I
1379 said, it is a bit of a -- it is a queuing issue. And the
1380 reason why there is a certain timeframe isn't because you

1381 take a file and you spend 100 percent of your time reviewing
1382 it. Our reviewers have a stack of files sitting there, and
1383 they are looking at one, they are moving to the other, and
1384 that is why it takes a certain amount of time.

1385 Some of this, if you have more people, they have fewer
1386 files on their desk, they can spend more time on the file,
1387 and it takes less time. That is not taking away from their
1388 ability to identify deficiencies and communicate those.

1389 *Mrs. Dingell. Thank you, because I worry about it.

1390 Also, can you discuss how the new performance
1391 improvement adjustment can come about, and is there evidence
1392 supporting this incentive structure?

1393 *Dr. Shuren. Well, this was discussed as an
1394 accountability measure for the FDA. In fact, there are a
1395 number of things baked into MDUFA V to increase the level of
1396 accountability on the agency, the add-on payments being one
1397 of them. This is the first time we are doing it in any of
1398 the user fee agreements. And I do think, you know, we will
1399 get experience from this.

1400 But we felt that this would be a reasonable thing to try
1401 in MDUFA. And we worked with industry to design it in a way
1402 that we think can support our being successful.

1403 *Mrs. Dingell. Thank you. Thanks for your response. I
1404 look forward to discussing these issues further, as well as
1405 ways to improve post-market surveillance, as my colleagues

1406 have mentioned, in the weeks and months ahead.

1407 I yield back, Madam Chair.

1408 *Ms. Eshoo. The gentlewoman yields back. It is a
1409 pleasure to recognize the gentleman from Florida, Mr.
1410 Bilirakis, for five minutes.

1411 *Mr. Bilirakis. Thank you, Madam Speaker, I appreciate
1412 it very much.

1413 Dr. Shuren, your testimony mentions the popularity of
1414 Breakthrough Devices Program with significant growth in pre-
1415 submissions for breakthrough-related devices. Can you tell
1416 me about how this MDUFA agreement expands upon the successes
1417 of that program, and how the new product Life Cycle pilot
1418 will help innovators earlier in the development?

1419 *Dr. Shuren. So the funding that we are going to get
1420 from industry is going to allow us to hold more
1421 pre-submission meetings within the specified timeframes. And
1422 that is an advantage to anybody who takes advantage of that
1423 program. And it is very popular, and that is why we have
1424 seen, you know, the number of requests continue to go up,
1425 because manufacturers find it very helpful to have those
1426 meetings.

1427 TAP moves away from that sort of stage gate approach and
1428 longer time for meetings, trying to make this a much more
1429 fluid interaction with the innovators of very important
1430 technologies like breakthrough devices, to try to -- and also

1431 give us the capacity to not just give feedback, but --

1432 *Mr. Bilirakis. [Inaudible] asking questions --

1433 [Pause.]

1434 *Dr. Shuren. To also problem-solve with the developers.

1435 So the goal here is let's deal with not just the issues

1436 around pre-market review, shorten that timeframe, but focus

1437 on what is even more impactful, what leads up to the pre-

1438 market submission. And if we can work with developers in

1439 more real time there and problem-solve, we shorten that time

1440 from, really, concept to pre-market submission. And if all

1441 things look good in a pre-market submission, we are actually

1442 in a position to maybe even review it more quickly because

1443 there aren't issues, we have dealt with them beforehand.

1444 *Mr. Bilirakis. Thank you, Doctor. I appreciate it.

1445 Another question for you. I want to ask you about the use of

1446 both unique device identification, UDI, numbers and the

1447 national drug codes on certain over-the-counter medical

1448 devices for reimbursement purposes.

1449 This impacts, like, again, the items like the test

1450 strips, needles, and syringes, which are critically important

1451 to be -- again, to help patients manage chronic conditions,

1452 so very important.

1453 For years, FDA has exercised enforcement discretion to

1454 allow both numbers on the label -- both numbers on the label.

1455 Since the UDI number cannot currently be used for

1456 reimbursement purposes, I think it is time to find a
1457 permanent solution. I believe you probably agree with me.
1458 For example, FDA could allow both numbers to remain on the
1459 label permanently, or until such time that the reimbursement
1460 systems support using the UDI number.

1461 Will you work with the committee to find a permanent
1462 solution?

1463 If not, are you planning to at least retain enforcement
1464 discretion to reduce uncertainty in the industry, and keep
1465 patient access to these OTC devices?

1466 So if you could answer that for me, I would appreciate
1467 it, Doctor.

1468 *Dr. Shuren. We have had outreach regarding UDI and the
1469 NDC code. Of course, there has been some talk about changes
1470 in the NDC code, and the implications there. And so we are
1471 looking at, you know, opportunities to assure we do not
1472 disrupt the marketplace, as you have raised, you know, one of
1473 them being continued enforcement discretion.

1474 That said, we would be very happy to have conversations
1475 on, you know, what is the -- what really is the right
1476 solution at the end of the day.

1477 *Mr. Bilirakis. Please, please. Let's follow up on
1478 that. Thank you, Doctor.

1479 Thank you, Madam Chair. I will yield.

1480 *Ms. Eshoo. Good to see you, Gus, real close to the

1481 camera. Nice glasses.

1482 [Laughter.]

1483 *Ms. Eshoo. The chair now recognizes the gentlewoman
1484 from California, Ms. Matsui, for your five minutes of
1485 questions.

1486 *Ms. Matsui. Thank you very much, Madam Chair, and
1487 thank you, Dr. Shuren, and, ultimately, the industrial
1488 witnesses, for being here today, as well.

1489 When the COVID-19 pandemic began, FDA was able to
1490 utilize and fine-tune the emergency use authorization process
1491 to authorize over 100 different diagnostic tests by the
1492 summer of 2020. I commend the agency for their work in this
1493 area. However, I understand these tests with different
1494 technologies or platforms have been validated in a variety of
1495 ways and varying levels of accuracy.

1496 Of course, hindsight is 2020, but it seems that in the
1497 future there may be a more effective and efficient way to
1498 develop and utilize accurate diagnostic tests against a
1499 highly infectious virus. To that end, along with MDUFA, the
1500 MDUFA agreement, today we are discussing the Diagnostic
1501 Device Advisory Committee Act, legislation that will
1502 establish a panel of experts on diagnostic devices at FDA.

1503 Dr. Shuren, what lessons has FDA learned from COVID-19,
1504 in terms of development, validation, and use of diagnostic
1505 testing as part of the coordinated public health response to

1506 a pandemic? Dr. Shuren?

1507 *Dr. Shuren. Well, thank you for the question. Let me
1508 mention maybe three things, because, quite frankly, to date
1509 we have issued about -- a little over, I think, 450
1510 authorizations for tests and self-collection kits. And we
1511 should never be in that position again.

1512 If you want to solve it, pre-position manufacturers of
1513 tests in advance of the public health emergency. Have
1514 contracts with them, so that when they are asked, they are
1515 set to do it. And you do it with manufacturers who make
1516 these kind of technologies, and they can make a lot of it
1517 very quickly. That is what South Korea did. They even had
1518 two companies who started to make tests before they even got
1519 asked.

1520 Second, de-risk the enterprise. You know, we did this
1521 for vaccines. We pumped all this money in to take the risk
1522 off of production. You knew you weren't going to get
1523 reimbursed. That didn't happen, you know, with diagnostics.
1524 And so you had manufacturers who are, "I don't know if there
1525 is a marketplace," and they were skittish about going into
1526 it. We had to convince some of them to even make tests. So
1527 what you do is you have guaranteed minimum purchasing
1528 agreements if you get authorized, and guaranteed
1529 reimbursement. South Korea did that, as well.

1530 Third, I would say, we found that, rather than having

1531 the companies validate their tests or do all of it, have it
1532 done independent of them. You know, because, in the
1533 beginning, conserve your resources for the material you need
1534 to validate. And you can assure it is done right and it is
1535 done quickly. We wound up doing that for antibody tests, and
1536 now for over-the-counter antigen tests. South Korea had that
1537 set up with their CDC. And so, if there is funding to go do
1538 that, the country could be able to make these decisions also
1539 a lot faster.

1540 *Ms. Matsui. Could I ask you --

1541 *Dr. Shuren. So a few developers, large numbers
1542 [inaudible] decisions.

1543 *Ms. Matsui. Well, could I ask you, could the agency
1544 utilize a panel of experts on diagnostic devices to assist in
1545 future public health crises?

1546 *Dr. Shuren. Well, expert -- outside expert, you know,
1547 input is, you know, always helpful, and we look for those
1548 opportunities to bring them involved. And so this is
1549 something we would be very happy to have conversations about
1550 regarding the proposal, and work with all of you.

1551 *Ms. Matsui. Okay. The CARES Act of 2020 sought to
1552 prevent shortages by requiring device manufacturers to notify
1553 FDA about any discontinuances and interruptions in the
1554 production of devices critical to public health emergency.

1555 Dr. Shuren, has this notification from device

1556 manufacturer has been useful to the FDA during the COVID-19
1557 emergency?

1558 *Dr. Shuren. It has been exceptionally helpful. And
1559 again, thank you to Congress for those authorities.

1560 We have been able to prevent or minimize a variety of
1561 different shortages from -- you mentioned test supplies -- a
1562 number of personal protective equipment, defibrillators,
1563 dialysis systems, really, across the board. And again, those
1564 situations can arise both just before the public health
1565 emergency is declared, as we found with COVID, and from other
1566 causes. And if we are not well positioned to deal with that,
1567 we are going to have important shortages that aren't
1568 resolved.

1569 A quick example, outside of a public health emergency,
1570 we had facilities using ethylene oxide to sterilize medical
1571 devices. In fact, a little over 50 percent of devices that
1572 require sterilization use ETO. When those facilities were
1573 closed, we had no window as to whether shortages were going
1574 to be caused. A few companies told us, many did not. We had
1575 to manually go back in our systems, try to identify which
1576 products were being sterilized there, and see if there was
1577 going to be a shortage. In fact, we got complaints, once a
1578 shortage happened, from the users because we never heard from
1579 a company. And this is all because there was no requirement
1580 for a notification. It puts -- it really puts people at

1581 risk.

1582 And what does it matter, the cause on the shortage?
1583 Because, at the end of the day, patients don't care the cause
1584 of the shortage. They just care they didn't get the medical
1585 device they needed that may be saving their life. And the
1586 doctors, nurses, other health care workers care that they
1587 could not provide the necessary treatment to patients. And
1588 as a doctor, I find that --

1589 *Ms. Matsui. Absolutely, Dr. Shuren.

1590 *Dr. Shuren. -- you know, difficult to swallow.

1591 *Ms. Matsui. I have run out of time. I really can't --
1592 so I yield back. Thank you.

1593 *Ms. Eshoo. The gentlewoman yields back. It is a
1594 pleasure to recognize the gentleman from Utah, Mr. Curtis,
1595 for your five minutes of questions.

1596 *Mr. Curtis. Thank you, Madam Chair. It is great to be
1597 here with you, Mr. Ranking Member. It is a great --

1598 *Ms. Eshoo. Great to be with you. Thank you.

1599 *Mr. Curtis. Dr. Shuren, clearly, many of my colleagues
1600 are familiar with you. This is my first hearing with you,
1601 and it is a delight to be here.

1602 I am really excited to talk about this portion, because
1603 Utah really excels. As a matter of fact, we have the
1604 fastest-growing life sciences community in the nation,
1605 BioHive, and I love to brag about these companies. The first

1606 artificial kidney came from Utah, and perhaps many in this
1607 room remember the Jarvik heart that came from Utah. Merit
1608 Medical is a Utah born and bred company. It was founded on
1609 the design of a polycarbonate coronary control syringe
1610 designed to replace dangerous glass syringes. Merit Medical
1611 was once a small company, and really the heart blood of my
1612 district are these small and medium-sized companies.

1613 But I also feel like -- that sometimes we are the
1614 hardest on these small and medium-sized companies. And I
1615 think my first question to you, Doctor, is it appears that
1616 they are disadvantaged, compared to some of these larger
1617 corporations who can weather longer time approvals, and they
1618 tend to have far less capital and lack the established
1619 relationships that the bigger companies have.

1620 What can be done to level this playing field, and help
1621 these startup companies who are so critical later on, right,
1622 as they grow and become more important? Any ideas on
1623 leveling this playing field?

1624 *Dr. Shuren. Well, I have to tell you, and so much
1625 innovation comes from these, you know, small companies. And
1626 they do not have the resources also for the help of what they
1627 need to do to figure out -- to actually get to the
1628 marketplace.

1629 That is one of the reasons we had proposed this TAP
1630 pilot, is to help. And the big focus is because most of

1631 these innovative technologies coming through with the
1632 breakthrough device designation are these small companies,
1633 and let's be there to help them. If you will address the
1634 questions that they are finding challenges with, and they
1635 don't have the outside -- you know, the big companies have so
1636 many experts, maybe it is less helpful to them. But the
1637 small companies, in particular, need that.

1638 And in fact, the person who heads this up, I hired a
1639 year ago, is my deputy center director for science. He was a
1640 venture capitalist for three decades. He started a bunch of
1641 small companies. He gets it. And he came to the FDA
1642 specifically to do just what you are asking for. How do we
1643 help, you know, these companies deal with these issues and
1644 get through that valley of death, if you will, and safe and
1645 effective to the marketplace.

1646 *Mr. Curtis. Yes, and I just really need to emphasize
1647 how much more difficult the process is the smaller you are.
1648 So thank you for addressing that.

1649 We have been discussing for months the importance of FDA
1650 keeping pace with industry and the role of these agreements
1651 and the FDA working effectively and efficiently. It has been
1652 brought up a number of times today, these negotiations are
1653 running two months behind PDUFA, GDUFA, and BSUFA, which were
1654 submitted to Congress in January. It is troubling to me that
1655 this agreement was delivered to Congress well past the

1656 statutory deadline, impacting our ability to ensure that they
1657 are authorized on time.

1658 We have also discussed at length the many instances we
1659 are finding that COVID-19 created problems and concerns that
1660 we are seeing and experiencing in our health care system.
1661 Over many of these are things that were there before the
1662 pandemic. COVID-19 highlighted these existing problems,
1663 making them things we cannot and should not ignore. I don't
1664 think that we should be using COVID-19 as an excuse, a shield
1665 to hide behind, instead of addressing root causes. It was a
1666 factor, and we recognized the initial delay it created. Yet
1667 you spoke earlier about concern over pink slips going out,
1668 and I share those same concerns.

1669 It is my understanding that MDUFA initially -- meeting
1670 was delayed by COVID from March 2020 until October 2020, but
1671 PDUFA and GDUFA and the initial public meetings in July of
1672 2020. Why did it take MDUFA -- why didn't it move forward as
1673 promptly as the others?

1674 *Dr. Shuren. Well, COVID hit the medical device
1675 industry, and it hit us very, very hard. And so we mutually
1676 felt we needed more time to get started.

1677 And then there were a lot of issues, you know,
1678 ultimately to work through. And there is -- the medical
1679 device industry is very heterogeneous, and it has very
1680 diverse opinions, and that can take time to work through.

1681 Regardless, we should have had that to you on time. And
1682 that is our fault, ours collectively, and we take
1683 responsibility for that.

1684 *Mr. Curtis. You have been very good in taking
1685 responsibility. But I want to point out that BsUFA had an
1686 initial meeting in November after MDUFA, and they still made
1687 their deadline on time.

1688 Dr. Shuren, there are many Utah medical device industry
1689 stakeholders that have vocalized concerns to me over
1690 communication breakdowns between them and FDA. What measures
1691 can the FDA put in place to ensure this communication is
1692 better?

1693 Often when I hear from the complaints, it is
1694 communication more than anything. What can my office do in
1695 working with you in facilitating this? We hesitate, right,
1696 to step in to the middle of this when we hear from them, but
1697 we would just love your advice on, like, how we help these
1698 companies in a way that helps you and is not
1699 counterproductive.

1700 *Dr. Shuren. Well, if they feel that they are not
1701 getting, you know, the interactions are supposed to, they are
1702 not getting the answers they are supposed to, they are
1703 identifying issues with our program, talk to us. And quite
1704 frankly, you can send them directly to me.

1705 *Mr. Curtis. And Doctor -- I didn't realize we are out

1706 of time, Madam Chair -- I would love to continue that
1707 dialogue with you to figure out how to better coordinate with
1708 them.

1709 And I yield my time.

1710 *Ms. Eshoo. You know, there is something that hasn't
1711 been mentioned in this relative to timing, and meeting
1712 deadlines, and all of that. And it is one aspect. It is
1713 understandable, but I think it should be stated, that there
1714 was a -- you know, some real schisms between the very large
1715 advocacy or -- you know, for large medical device companies
1716 and the small companies. And they did not see eye to eye.
1717 It is not a surprise, because each one has its own -- you
1718 know, its own self interest. But that took time, as well.

1719 So everything is not -- doesn't rest with the agency.
1720 They have to negotiate with people. And if they are not
1721 coming to an agreement within the industry itself, that slows
1722 things down, as well. So I think it is fair just to put it
1723 out there. We are all thrilled. I was thrilled when I found
1724 out that they, you know, came to an agreement so that
1725 everything could move along, but that was a part of this.

1726 And as you pointed out, the smaller companies have --
1727 they may be small, but they want their voices heard. So
1728 bravo to them.

1729 Okay, it is a pleasure to recognize the gentlewoman from
1730 Illinois, Ms. Kelly, for your five minutes of questions.

1731 *Ms. Kelly. Thank you, Madam Chair and Ranking Member
1732 Guthrie, for holding this hearing on the FDA user fee
1733 authorizations for medical devices.

1734 According to the newly-released MDUFA performance goals
1735 and procedures, the FDA is committed to hiring 200 new
1736 employees in the coming 5 years. The FDA Diversity and
1737 Inclusion Workforce Strategic Plan of 2018 through 2021
1738 outlines FDA's commitment to, and I quote, "cultivate and
1739 promote a diverse, inclusive culture'" in their workplace to
1740 reflect the diverse backgrounds of those served by the
1741 agency's work.

1742 Doctor, what metrics will FDA use to ensure that there
1743 is adequate representation of racially and ethnically diverse
1744 employees across all levels of positions in these FDA new
1745 hires?

1746 *Dr. Shuren. So we collect that information already as
1747 to what the representation looks like.

1748 But I will tell you, we have already just issued for our
1749 center our diversity, equity, inclusion, and belonging
1750 roadmap on steps we are taking that includes hiring,
1751 addressing that, and it is part of the strategic priorities.
1752 I mentioned one: advancing health equity. The second is on,
1753 you know, a modern, diverse workforce that, if we are going
1754 to represent a diverse country, we need to reflect that
1755 diversity in our center. And that is a commitment from us,

1756 and there are already workstreams.

1757 And so that includes our outreach for hiring in the
1758 first place in different places, so that, again, we can bring
1759 that sort of talent, diverse talent, into the center.

1760 *Ms. Kelly. Thank you so much, and great to hear.

1761 You discussed the importance of patient voices in the
1762 development of medical devices. How can patient preference
1763 information, PPI, and patient-reported outcomes, PROs, and
1764 patient-generated health data be leveraged to ensure clinical
1765 care is culturally relevant for racially and ethnically
1766 diverse individuals?

1767 *Dr. Shuren. Well, for example, for patient-generated,
1768 you know, health information, here is a great opportunity
1769 where using technology -- you know, technology is much easier
1770 to push out into settings where people are living their life.
1771 And so those who may have a hard time getting to a clinical
1772 trial site or, you know what, they have some discomfort of
1773 doing that, any number of reasons, if instead they can
1774 provide that information in the comfort of their home, at
1775 work can make it easier for individuals who don't have that
1776 same access. So we think that is a very important route.

1777 You deal with patient preference information -- I will
1778 just mention if you have intended populations, you want to
1779 make sure that is represented too in the patients in whom you
1780 conduct that study. Because we see the preferences of

1781 patients are not uniform at all. They kind of stratify on a
1782 variety of factors.

1783 *Ms. Kelly. Okay. The MDUFA agreement outlines the use
1784 of patient input to inform clinical study design to increase
1785 recruitment and retention of a diverse clinical sample. From
1786 a clinical and device efficacy perspective, why is it
1787 important for clinical trials to have racially and ethnically
1788 diverse participants?

1789 *Dr. Shuren. Well, it is important that, if you are
1790 going to use a device in an intended population, that you
1791 know it is going to work in that population. And we have
1792 seen, you know, plenty of instances where there may be a
1793 difference in how that technology works. That may be due to
1794 a variety -- it may be race, it may be gender, or any number
1795 of things. And so you want to make sure you have looked at
1796 it in those appropriate circumstances so you know it works in
1797 the intended population.

1798 The other is, even if your intended population is small,
1799 we have got to be thinking about, if that technology could
1800 add value in other populations, we should be looking at that
1801 so that we don't have devices simply made for certain
1802 segments of the U.S. population. We ultimately have high-
1803 quality health care for all.

1804 *Ms. Kelly. Thank you. And that is why I have been
1805 working with my colleagues on the DEPICT Act and the NIH

1806 Clinical Trial Diversity Act that would ensure diversity in
1807 clinical trials.

1808 Thank you so much for your patience, and thank you for
1809 being here.

1810 I yield back.

1811 *Ms. Eshoo. The gentlewoman yields back. The chair is
1812 pleased to recognize one of the wonderful doctors we have on
1813 our subcommittee, Dr. Bucshon from Indiana, for your five
1814 minutes of questions.

1815 *Mr. Bucshon. Thanks, Dr. Shuren. I would like to talk
1816 to you today about a topic that isn't included in today's
1817 hearing, but that I thought maybe ought to be, and that is
1818 diagnostic testing reform, and specifically the VALID Act,
1819 which I have been working on, which -- you have also been
1820 working on this issue, I know, for many years.

1821 I was driven to start working on diagnostic testing
1822 reform based on my experience as a doctor before coming to
1823 Congress. Health care providers and patients routinely use
1824 and increasingly rely on diagnostic tests to make difficult
1825 decisions about the best course of care and treatment.
1826 Unfortunately, we continue to see examples of some tests that
1827 don't meet the level of analytical and clinical accuracy that
1828 are needed to make reliable medical decisions, causing some
1829 patients to go through with life-changing procedures that may
1830 not have been necessary.

1831 This is why I believe Congress must provide certainty,
1832 and that is why we are trying to accomplish what we are
1833 trying to accomplish through the bipartisan and bicameral
1834 VALID Act, which I have been working on with my friend,
1835 Representative Diana DeGette, in the House for about five
1836 years. We are working to provide certainty for patients that
1837 the results of their tests are clinically accurate, and
1838 provide certainty for doctors that the tests they are
1839 administering and making health care decisions based on are
1840 accurate.

1841 And lastly, we want to provide certainty for test
1842 developers and labs that the regulatory framework won't
1843 suddenly change, and that they will have a clear
1844 understanding of what is expected from them within the risk-
1845 based framework.

1846 I would also like to note that the sponsors have been
1847 mindful throughout this process to make sure we are balancing
1848 patient safety while promoting innovation. For example,
1849 VALID provides certain flexibilities to help facilitate
1850 development and support innovation for diagnostic tests for
1851 rare patient populations, all while keeping in place high
1852 standards for patient safety. This is instrumental as we
1853 continue to move towards the future of --

1854 [Audio malfunction.]

1855 *Mr. Bucshon. -- will enable physicians to provide more

1856 individualized patient care to discover a cure and treat
1857 diseases that were previously unknown and untreatable, which
1858 is why I am somewhat concerned that the committee is
1859 seemingly ignoring the issue and the legislation all
1860 together. I have repeatedly called for hearings on VALID so,
1861 as a committee, we can better understand the issue and the
1862 legislation needed to promote innovation and provide clinical
1863 and analytical certainty.

1864 Therefore, I would ask the chair of the -- Eshoo and
1865 Chairman Pallone to work with me in the coming weeks, and
1866 with Congresswoman DeGette, to have a hearing on VALID, the
1867 VALID Act, so that Congress can help better serve patients,
1868 as I truly believe the time for Congress to clarify the rules
1869 of the road for diagnostic testing is now.

1870 So, Dr. Shuren, it is my understanding that the FDA
1871 currently does not have a process tailored specifically to
1872 diagnostic test review. And rather, the FDA uses the
1873 existing medical device process for diagnostic testing
1874 review, even though the two are quite uniquely different. Is
1875 that true? Is that accurate?

1876 *Dr. Shuren. Well, the pathway we have for in vitro
1877 diagnostics is different for other devices. I mean, the law
1878 is very clear that IVDs, regardless of who makes them, are
1879 called medical devices, but how we regulate them is
1880 different, and we really tailor that to that kind of

1881 technology.

1882 *Mr. Bucshon. Okay. Does this -- so you wouldn't say
1883 this process limits your ability to validate that all
1884 diagnostic tests out there today are analytically and
1885 clinically accurate?

1886 *Dr. Shuren. Well, the answer is no. We have had this
1887 policy of enforcement discretion for -- since the start of
1888 the program for tests made by laboratories. And at the time
1889 that made sense. They are low risk --

1890 *Mr. Bucshon. Right.

1891 *Dr. Shuren. -- locally, but they are far more complex,
1892 riskier. And we have seen, over the years, you know,
1893 problematic tests from laboratories to market.

1894 At the same time, though, those LDTs play a critically
1895 important role in health care. And, as you note,
1896 increasingly, they and tests made by commercial manufacturers
1897 are important for making clinical decisions. And we have to
1898 assure, ultimately, that they work. Those assurances are in
1899 place if it is made by a commercial manufacturer, then not in
1900 place if they are made by a laboratory.

1901 And so having a legislative framework that clarifies an
1902 overarching approach to assure that all developers, whether
1903 they are commercial manufacturers or laboratories, are
1904 working with FDA and all of us acting consistently under a
1905 modern framework -- you know, I mentioned the frameworks are

1906 years old. It is time for an upgrade. This is a time,
1907 really, to do it. And that could have a big impact on public
1908 health, but done in a way that is protecting patients, but
1909 driving -- you know, supporting that innovation.

1910 And I, you know, thank you and Representative DeGette on
1911 your leadership on trying to push this forward. We do think
1912 the time is right. We have publicly stated for years we
1913 would -- we were holding off on administrative action because
1914 we thought a legislative solution was really the best way to
1915 go.

1916 *Mr. Bucshon. Thank you for that response. I couldn't
1917 agree more.

1918 I yield back.

1919 *Ms. Eshoo. The gentleman yields back. The chair
1920 recognizes the gentleman from Vermont, Mr. Welch, for your
1921 five minutes of questions.

1922 *Voice. Oh, sorry, let's go to Cardenas.

1923 *Ms. Eshoo. Oh, I am sorry. Who is it?

1924 *Voice. Mr. Cardenas.

1925 *Ms. Eshoo. Oh, okay. The gentleman from California,
1926 Mr. Cardenas, is recognized for your five minutes of
1927 questions.

1928 *Mr. Cardenas. Thank you very much. I appreciate this
1929 opportunity for us to discuss this important issue, Madam
1930 Chairwoman, and also Ranking Member Guthrie.

1931 I appreciate you, Dr. Shuren, for joining us to discuss
1932 what we should be doing, and continue to do for the American
1933 people. Dr. Shuren, once again, thank you. And obviously,
1934 it is critical that the devices we bring to market are safe,
1935 effective, and work for everyone.

1936 It is one of my top priorities to ensure that our
1937 approval process at the Federal level includes diverse
1938 perspectives, and that medical therapies and devices are
1939 tested in trials that include demographics that mirror the
1940 nation as broad as we are as a nation. How will FDA
1941 incorporate the perspectives of patients and stakeholders
1942 from diverse backgrounds?

1943 *Dr. Shuren. One of the commitments I will highlight
1944 under MDUFA V is to expand exactly that: patient
1945 perspectives in the design, conduct of clinical trials, as
1946 well as to facilitate participation.

1947 So one of those approaches is really using technology as
1948 a way for patients to participate in clinical studies without
1949 having to keep going to clinical trial sites could facilitate
1950 more patients participating, particularly those who have less
1951 access to the health care system.

1952 *Mr. Cardenas. Well, less access to the health care
1953 system, sometimes that comes from a lack of access to
1954 transportation, a lack of access to technology, et cetera.
1955 So what you are saying is, by removing some of those daily

1956 barriers, we are hopefully going to be looking at more
1957 diverse input, which means a better output.

1958 *Dr. Shuren. That is correct.

1959 I mean, another step is, in designing studies and
1960 looking for patients, work directly with those centers that
1961 are in the communities where you are trying to recruit. It
1962 is very important to have that kind of partnership.

1963 Also, it can drive a greater participation from diverse
1964 populations. You have got to go to where people are --

1965 *Mr. Cardenas. Okay.

1966 *Dr. Shuren. -- and meet them --

1967 *Mr. Cardenas. Thank you, and I think that --

1968 *Dr. Shuren. -- as opposed to asking them to meet ours.

1969 *Mr. Cardenas. And I think what you just described not
1970 only is diversity in more ways than one, it is also rural, as
1971 well. So thank you.

1972 I also recognize that it is critical to ensure that we
1973 are expediting the time it takes to approve devices without
1974 sacrificing a review that will determine safety and efficacy.
1975 What steps will FDA take to ensure patients will not be
1976 harmed by devices that have been approved using more
1977 expedited processes?

1978 And how do you, you know, work with and -- with these
1979 concerns?

1980 *Dr. Shuren. So any of the times we reach an accord

1981 with industry, we are never doing it where we believe it
1982 would ever sacrifice the quality of our decisions, and then
1983 put at risk our authorizing an otherwise unsafe device
1984 because of it.

1985 And we believe the extra resources -- will it allow us
1986 to meet the commitments that we have laid out in the
1987 commitment letter in a responsible way? We have more people.
1988 It means that we have more folks with fewer files on their
1989 desk. They can move through it more quickly. But it does
1990 not compromise the quality of that review. If anything, by
1991 expanding our expertise in the center, we may have more
1992 experts to help out, particularly things like in digital
1993 health, bringing -- and that is one of our commitments.
1994 Bringing on more expertise into the center can be helpful so
1995 we have better-informed decisions, but we can do it in a more
1996 timely manner.

1997 *Mr. Cardenas. With higher user fee collection, how may
1998 that affect diversity in clinical trials?

1999 And you just mentioned having more experts. I am sure
2000 with more and better funding, we can actually have higher and
2001 have better and more experts to do the job. So how does the
2002 funding and allocation affect that?

2003 *Dr. Shuren. The funding also expands our patient
2004 engagement program, the people who are working directly with
2005 patient groups and working with communities. And part of

2006 that mandate under MDUFA V is we will be using some of those
2007 additional resources to facilitate a greater participation by
2008 diverse populations in clinical studies.

2009 *Mr. Cardenas. Okay, thank you. I appreciate you
2010 sharing your insights and thoughts. And once again, thank
2011 you for the work that you do.

2012 It is imperative that we ensure timely access to
2013 innovative devices, while still confirming that they are
2014 going to work as intended, without undue risk to the users.

2015 And once again, if the information coming in is more
2016 diverse, then we stand a greater chance that efficacy will
2017 work in all communities --

2018 *Voice. That is fine.

2019 *Mr. Cardenas. -- not just some.

2020 And with that, my time looks to be expiring. I yield
2021 back. Thank you, Madam Chairwoman.

2022 *Ms. Eshoo. I thank the gentleman, and he yields back.
2023 It is a pleasure to recognize the gentleman from
2024 Pennsylvania, another one of our doctors on the committee,
2025 distinguished physicians, Dr. Joyce.

2026 *Mr. Joyce. Thank you, Madam Chair Eshoo, for yielding,
2027 and for convening this hearing.

2028 The approval of new, cutting-edge medical devices and
2029 safely getting innovation into the hands of patients and
2030 physicians is critical to improving health outcomes in the

2031 United States.

2032 To that end, Dr. Shuren, how can the FDA and CMS work
2033 together better and earlier to ensure that beneficiaries of
2034 Medicare do not face additional barriers to coverage once
2035 that -- the FDA approves or clears an innovative and
2036 lifesaving medical device?

2037 *Dr. Shuren. Currently, both FDA and CMS are members of
2038 the Medical Device Innovation Consortium. And about a year
2039 ago a workstream was started that is focused on health
2040 economics and value that really is on the reimbursement side
2041 of the house, and what steps might be able to responsibly
2042 streamline that pathway, like including the voice of patients
2043 in decision-making.

2044 We also were engaged in discussions with them on MCIT,
2045 and certainly stand ready to facilitate discussions too on
2046 whatever is helpful to them on establishing predictable
2047 pathways for reimbursement. I mean, we are not insurers. We
2048 can't stand in their place, but we all -- have always been
2049 there to facilitate as best we can.

2050 *Mr. Joyce. Would it be helpful for CMS to communicate
2051 with the FDA at early stages of development the important
2052 issues that might be addressed in clinical trials to help
2053 facilitate timely Medicare coverage upon market entry?

2054 *Dr. Shuren. We do think the voice from CMS early on
2055 can be very helpful. We offer that in the parallel review

2056 pathway, which is voluntary, you know, for companies who may
2057 qualify.

2058 I will say a challenge for CMS -- so I am going to tin
2059 cup for my sister agency -- they don't have enough people.
2060 You know, if we really want to do something there, like for
2061 coverage, national coverage determinations, they need more
2062 people. And I, by the way, used to work over there many
2063 moons ago, so I know exactly what it is like. And they can -
2064 - they could use some help.

2065 *Mr. Joyce. Thank you, Dr. Shuren. I would like to
2066 touch on an area that Chair Eshoo mentioned before the recess
2067 regarding the distinction between servicing and re-
2068 manufacturing of medical devices.

2069 Just to be clear, is it your opinion that it will be
2070 helpful for Congress to further clarify what constitutes re-
2071 manufacturing in statute?

2072 *Dr. Shuren. We do think that that can be helpful.
2073 Again, the devil is in the details as to what it always looks
2074 like. But we know that, even though we have got guidance
2075 that is going through, there is a lot more comfort sometimes
2076 -- it is guidance, that there is more comfort if certain
2077 things are baked into the statute.

2078 So again, we think this could be helpful, again,
2079 depending upon what that provision looks like, and we would
2080 be -- if there is interest, we would be happy to work with

2081 the committee on it.

2082 *Mr. Joyce. Thank you. And I would like to conclude by
2083 thanking my colleague, Representative Peters, for working
2084 with me on the introduction of Clarifying Re-manufacturing to
2085 Protect Patient Safety Act, which I believe would provide the
2086 necessary clarity on what constitutes a significant change to
2087 a medical device, as well as what constitutes re-
2088 manufacturing.

2089 Thank you. I see my time has expired. Again, thank
2090 you, Madam Chair Eshoo, for convening such an important
2091 hearing.

2092 *Ms. Eshoo. The gentleman yields back. Thank you for
2093 your kind comments. The chair is pleased to recognize the
2094 gentlewoman from California, Ms. Barragan, for five minutes.

2095 *Ms. Barragan. Thank you, Madam Chair.

2096 Dr. Shuren, several non-profit consumer advocate groups
2097 and public health organizations have raised concerns over the
2098 lack of transparency regarding the FDA's non-public
2099 negotiations for the Medical Device User Fee Amendments
2100 program. How involved were patients and consumer advocate
2101 groups during the negotiations?

2102 *Dr. Shuren. We had held, I think it was, monthly
2103 stakeholder meetings to provide updates and to seek comments
2104 on the MDUFA V negotiations.

2105 *Ms. Barragan. So my understanding is that there are --

2106 no public stakeholder calls were held this year, and only one
2107 public stakeholder call was held in 2021. Do you know if
2108 that is accurate?

2109 *Dr. Shuren. No, I don't believe that that is accurate.
2110 We can get you the details.

2111 *Ms. Barragan. Great, I appreciate that. Thank you.

2112 Dr. Shuren, according to a January 2022 report by the
2113 GAO, the FDA lacks an agency-wide strategic workforce plan,
2114 and has no process in place to measure agency performance.
2115 The report emphasized that creating a centralized workforce
2116 strategy is vital for the FDA. Does the FDA plan to adopt an
2117 agency-wide strategic workforce plan?

2118 *Dr. Shuren. I would like to take that back, since it
2119 is the agency speaking. But I have to tell you that those
2120 recommendations were taken seriously, account -- and there
2121 have been a lot of efforts to facilitate our ability to hire
2122 and bring on board the people that we need in the agency to
2123 get our mission accomplished.

2124 *Ms. Barragan. Great. Well, you know, for the first
2125 time in MDUFA's history, the FDA will publish the five-year
2126 financial plan with hiring targets for the MDUFA program. So
2127 I would like to know how the FDA is going to build and retain
2128 a diverse FDA workforce that accurately reflects, you know,
2129 our country when trying to meet these new hiring performance
2130 goals. Is that something you can comment on today?

2131 *Dr. Shuren. Yes. So we are -- already issued a
2132 roadmap on diversity, equity, inclusion, and belonging, where
2133 this is one of our actions. It is part of our strategic
2134 priorities on a modern, diverse workforce.

2135 Moving forward, such activities include recruiting from
2136 targeted areas so that we are more reflective of the
2137 diversity in the country. I mean, there is a lot of
2138 diversity in CDRH to begin with, but there is a better job
2139 that we can be doing that that is reflected across all layers
2140 in the organization.

2141 *Ms. Barragan. Well, thank you. This is of great
2142 importance to me. The -- you know, the Hispanic Caucus, and
2143 making sure that we have diversity and inclusion, and the
2144 perspectives of those. So I just wanted to thank you for
2145 that, and I look forward to following up with you, and seeing
2146 anything more you have on this.

2147 With that, Madam Chairman, I yield back.

2148 *Ms. Eshoo. The gentlewoman yields back. The chair is
2149 pleased to recognize the gentleman from Georgia, Mr. Carter,
2150 for your five minutes of questions.

2151 *Mr. Carter. Thank you, Madam Chair, and thank you, Dr.
2152 Shuren, for being here. I appreciate it.

2153 Dr. Shuren, way back in 2017, I -- since that time I
2154 have really appreciated your engagement on legislation that
2155 that myself and others on this committee have authored to

2156 establish over-the-counter hearing aids. I am a pharmacist
2157 by profession, and I see firsthand, and have seen throughout
2158 my professional career, the need for this. And I want to
2159 tell you that I appreciate your engagement in this.

2160 The agency proposed a rule on October 19th, as I
2161 understand it, of last year that got a lot of things right.
2162 And I want to thank you for that, as well. Any idea when --
2163 or any indication that you can give us when the FDA might
2164 finalize this proposed rule?

2165 *Dr. Shuren. Well, sir -- and first of all, thank you
2166 for that provision. We couldn't agree more. This is --
2167 these technologies are very, very important for public
2168 health.

2169 We are supposed to, you know, issue that 180 days from
2170 the end of the comment period. So that turns out to be about
2171 July 15th. And our goal is to do that. We know this is
2172 important to the Administration.

2173 I can't -- you know, some of it is out of our control,
2174 but that is our goal, to try to meet that statutory deadline.

2175 *Mr. Carter. And you said it would be, what, June?

2176 *Dr. Shuren. July 15th.

2177 *Mr. Carter. July 15th? Okay.

2178 *Dr. Shuren. Yes.

2179 *Mr. Carter. We will look forward to that. I hope it
2180 will be before then. I will tell you there -- again, my --

2181 and my experience has led me to believe and to offer to you
2182 that this is needed. I mean, you know, we got reading
2183 glasses. I mean, we ought to have over-the-counter hearing
2184 aids. I get it if there is a need for more severe cases.
2185 But for most people -- like myself, who are getting on up
2186 there a little bit -- you know, you do need a little bit of
2187 help, and there is no reason why we shouldn't be able to do
2188 this. So I look forward to that, and thank you again for
2189 your work on that.

2190 *Dr. Shuren. We agree. I will mention we received
2191 about 1,000 comments. So there is just -- we want to make
2192 sure we get it right.

2193 *Mr. Carter. You received 1,000?

2194 *Dr. Shuren. Yes, about 1,000 comments.

2195 *Mr. Carter. Pro, con, or can you indicate?

2196 *Dr. Shuren. Mostly pro. Some had suggestions. You
2197 know, there are some differences of opinion, let's say,
2198 around where you set the output limits.

2199 *Mr. Carter. Right.

2200 *Dr. Shuren. For example.

2201 *Mr. Carter. And I get that. And you are right, we
2202 want to get it right. We want -- you know, we don't want to
2203 do -- I mean, you know, the Hippocratic Oath, do no harm. So
2204 we don't want to do that. But at the same time, you know, we
2205 can help people, and we need to be doing that.

2206 Let me ask you about the FACTS Act, if you are familiar
2207 with that, the FDA Advancing Collection of Transformative
2208 Science Act. That is legislation that Dr. Burgess on this
2209 committee and I have cosponsored. And it was considered at a
2210 hearing two weeks ago that we were in, and it has important
2211 ramifications about the medical device community, and Real-
2212 World Evidence, and a Clinical Laboratory Improvement
2213 Amendments, CLIA, waiver for EUA authorization, and for EUA-
2214 authorized diagnostic tests. And of course, again, this is
2215 very important. And I hope that the committee will continue
2216 to move this bill forward. It is a very important piece of
2217 legislation.

2218 Will you commit to working and continuing to work, as
2219 you have, with this committee to improve and advance both the
2220 Real-World Evidence and Clinical Laboratory Improvement
2221 Amendments waiver provisions of this legislation?

2222 *Dr. Shuren. We are happy to continue to, you know,
2223 talk with folks through that. We are looking -- I should
2224 tell you, in those transitions from an emergency use
2225 authorization to full marketing authorization, we are taking
2226 advantage of what has already, you know, been provided.

2227 We will not -- like for a CLIA waiver, we are not
2228 planning to ask folks to go ahead and do usability studies.
2229 You know, there is no need. They have been out there. The
2230 biggest focus is really going to be on having enough data

2231 just to make sure that they work --

2232 *Mr. Carter. Right.

2233 *Dr. Shuren. -- because we have relied on so little
2234 data to put them out on the marketplace.

2235 *Mr. Carter. Right. Good, good. Well, again, thank
2236 you. These are important issues. And thank you and the
2237 agency for your attention to these.

2238 And, Madam Chair, I will yield back.

2239 *Ms. Eshoo. The gentleman yields back. The chair is
2240 pleased to recognize Dr. Schrier from Washington State for
2241 your five minutes of questions.

2242 *Ms. Schrier. Thank you, Madam Chair. And thank you,
2243 Dr. Shuren, for coming today to discuss the medical device
2244 user fee agreements. Thank you for all you have done to help
2245 the American people get through the worst of the pandemic.
2246 And it is very nice to see you and talk with you again.

2247 I would love to focus on what the FDA and industry can
2248 do together to get the right product to the right market at
2249 the right time and, frankly, even in the right quantity and
2250 the right price for a clearly defined purpose. And I have
2251 something clear in mind.

2252 You and I have been in touch on and off for about a year
2253 and a half regarding the rolling out of rapid home COVID
2254 tests. And as you know, for most of that time I was feeling
2255 pretty frustrated, because the process just seemed so slow,

2256 and seemed unnecessarily difficult to get these tests
2257 approved and into people's hands, even though the technology
2258 is pretty simple.

2259 And I was hearing from universities and researchers and
2260 companies that had submitted applications but were still
2261 waiting for FDA emergency use authorization. And it seemed
2262 like at every stage there were barriers, but barriers that,
2263 with the right panel of public health experts and industry
2264 advisers all in a room together, could have really improved
2265 communication, and maybe been resolved quickly.

2266 I am delighted that now we have 17 home antigen tests
2267 and a couple of molecular tests on the market for -- with
2268 emergency use authorization, although the price point is
2269 still too high for most people to use that for screening.
2270 But that means I was even happier when the Administration
2271 started sending free tests to every home in the country
2272 during the Omicron peak.

2273 But still, reflecting on a year and a half, I felt like
2274 we were still lagging behind. And having an advisory panel
2275 to bring all of these specialists, public health, industry,
2276 consumers, and the FDA all together, could have defined that
2277 goal, set some standards that everybody agreed upon, figured
2278 out how you were going to test them, and even sped up that
2279 approval process.

2280 My bill, the Diagnostic Device Advisory Committee Act to

2281 create such a panel will do just that, and it will convene a
2282 group of experts meeting with FDA to discuss the real-world
2283 impact of diagnostics. And if passed, this will engage the
2284 diagnostics experts, consumers, public health, and you to
2285 talk about the risks, uses, needs, and the applications of
2286 these devices. And I think it will bring a lot of
2287 transparency and, hopefully, expediency.

2288 So, Dr. Shuren, with the lens of lessons learned, I was
2289 just wondering if you could talk a bit about how such a panel
2290 might help future discussions, and how it might expedite
2291 getting things to market more quickly.

2292 *Dr. Shuren. Well, certainly, input from the outside
2293 experts can be very informative. Certainly, things in
2294 advance, when we deal in a public health emergency, things
2295 moving quickly, just a -- sometimes a little bit more
2296 challenging. But this is something we would certainly
2297 welcome the opportunity to talk with you about, and work with
2298 you on.

2299 I will say in the case -- I don't want to throw the baby
2300 out with the bathwater, you know -- for over-the counter
2301 antigen tests, which we put as a priority, actually, in the
2302 spring of 2020, and were one of the first countries to
2303 authorize, where we saw that you had lots of tests is where
2304 you invest in the marketplace.

2305 It is not about having a lot of different tests. It is

2306 about having a lot of tests made through high manufacturing
2307 capacity. And you have a country like the UK. When they put
2308 that money in through large government contracts that were
2309 going to then support large manufacturing volume, and they
2310 only did it with a handful of, you know, companies, and
2311 subsidizing so that your tests are low cost or free, massive
2312 increase in what was available. And many more developers
2313 came to their marketplace.

2314 And I agree with what the Administration did. When they
2315 got money, you know, they invested in the marketplace. And
2316 we saw the same thing happen, a rapid increase, you know, of
2317 -- well, increase in production now over an order of
2318 magnitude. And that really makes a difference. And if that
2319 is not there, the numbers drop, you know, because the
2320 companies -- if there isn't that demand or guaranteed with
2321 contracts, they are going to cut production. We saw it
2322 happen in the U.S. There were more tests available in late
2323 spring than in late summer, because demand dropped, nothing
2324 propped up the marketplace. You know, a company closed a
2325 manufacturing facility.

2326 *Ms. Schrier. And Dr. Shuren --

2327 *Dr. Shuren. So that is a key piece that we need to
2328 have there.

2329 *Ms. Schrier. I could not agree more.

2330 *Dr. Shuren. And a last thing is independent review.

2331 When we were able -- funding to support NIH with us to do the
2332 ITAP program, now we are able to make sure, without changing
2333 any standards, they were able to do the evaluations very
2334 quickly, just a few weeks, evaluate, and we authorize where
2335 the data was there. Our performance standards are really the
2336 same as we have seen, you know, that 80 percent sensitivity,
2337 as with other countries.

2338 But the technology isn't as simple, though, actually
2339 getting those antibodies right on the strip. We have seen
2340 problems. In fact, the UK had the same experience. Most of
2341 the tests that came to them they never authorized, because of
2342 problems either with the test on validation -- we have had
2343 the exact same experience with the U.S. In fact, many of the
2344 folks we have seen are the same folks that made all those bad
2345 antibody tests, with the same technology that came onto the
2346 U.S. market.

2347 So I 100 percent want to work with you. I also want to
2348 make sure, also, that we deal with some of these other
2349 issues, to assure that we, in the future, have the tests we
2350 need.

2351 *Ms. Schrier. Thank you very much --

2352 *Ms. Eshoo. The gentlewoman's time has expired.

2353 *Ms. Schrier. I yield back.

2354 *Ms. Eshoo. The chair now recognizes the gentleman from
2355 Texas, Mr. Crenshaw, for your five minutes of questions.

2356 *Mr. Crenshaw. Thank you, Madam Chair. And thank you,
2357 Dr. Shuren, for being here with us today.

2358 I certainly share my colleagues' concerns about how
2359 MDUFA V came together, and I hope you will work with us for a
2360 better process in the future.

2361 We are excited to have you here to talk about the next
2362 frontier of medical devices. and how our phones and devices
2363 can deliver digital health. You know, we carry these things
2364 around, and they have tremendous possibility to improve
2365 patient health and well-being.

2366 One that stands out to me in particular is the app
2367 connected to the continuous glucose monitor, which allows
2368 parents to track on their phones the glucose levels of their
2369 children with diabetes. A constituent of mine talks about
2370 this innovation as an absolute game changer. She used to
2371 wake up multiple times a night to check her son's glucose
2372 levels. Now, just as an app that notifies her when he drops
2373 to dangerous levels.

2374 The FDA uses the framework of safe and effective to
2375 evaluate medical devices. I am always going to be a little
2376 skeptical of that mandate to regulate effectiveness, and
2377 whether the FDA is best suited for that. That is a
2378 conversation for another time. But giving us the framework
2379 we currently have, do you think FDA is suited to properly
2380 regulate things like artificial intelligence?

2381 *Dr. Shuren. So, first off, we are the place for doing
2382 it. And, you know, we have authorized now over 300 devices
2383 with artificial intelligence, particularly machine learning
2384 -- I think just 50 in the past year.

2385 But I do think that we need a regulatory flexibility
2386 that we don't currently have to better tailor the pathways to
2387 that kind of technology.

2388 *Mr. Crenshaw. Okay.

2389 *Dr. Shuren. The pathways in the law now are many years
2390 old. But I do think -- and I am happy to continue the
2391 conversation -- effectiveness matters. You know, as a
2392 physician, too, we want to know that benefits outweigh the
2393 risks. And that is really, at the end of the day, what we
2394 are saying: benefits outweigh the risk. We have got to know
2395 it helps patients and that, again, you know, the risks --

2396 *Mr. Crenshaw. And the reason I ask about the
2397 artificial intelligence question is because three or four
2398 years ago FDA had a paper that said they might need different
2399 authority to regulate digital health. You are saying right
2400 now there might need to be some changes. And maybe -- and we
2401 don't have -- we have 2 minutes and 47 seconds, I don't think
2402 we are going to get through it right now. But if you would
2403 please follow up with us on what those changes need to be,
2404 that would be exceptionally helpful for this committee.

2405 The other question I want to ask you in our time left

2406 is, you know, one of the problems we often see with medical
2407 devices and other treatments is FDA approves something, then
2408 CMS has to evaluate it again, seemingly with the exact same
2409 set of tests and standards, just to determine if they will
2410 pay for it.

2411 How do you think -- and maybe you weren't expecting a
2412 question like this -- but how do you think these agencies can
2413 work together to get patients what they need, once it has
2414 been approved by FDA?

2415 *Dr. Shuren. Well, we do have different standards. You
2416 know, they are reasonable and necessary, you know, safety and
2417 effectiveness. And what they have, not different than other
2418 insurers.

2419 But we believe it is very important that that pathway
2420 from an FDA marketing authorization to CMS -- or, by the way,
2421 any insurer's decision to coverage-reimburse, we have got to
2422 streamline that. Because, quite frankly, patients don't have
2423 real access to technology, particularly if it is expensive,
2424 if it is not covered and paid for, right, because people just
2425 can't afford some of these things out of their pocket, and
2426 they just won't get it.

2427 And the U.S. is complicated. The reimbursement
2428 structure is much more complicated than some other countries.
2429 And providing predictability, however we do it -- I am not a
2430 payer, so, you know, I can't tell you, and it is not for me

2431 to say what is the best thing from a CMS perspective. But I
2432 do think, as a nation, solving that problem to have more
2433 predictable reimbursement is absolutely essential for us to
2434 drive better technology for patients. And if we don't do it,
2435 we are at risk of losing our edge on innovation to other
2436 countries.

2437 And I will tell you who is knocking at our door, is
2438 China.

2439 *Mr. Crenshaw. Yes, and I couldn't agree with you more.
2440 I agree with the sentiment. I suppose we could delve into
2441 this a little deeper at a later time on whether CMS is
2442 duplicating the processes that occur at FDA already. I think
2443 that is what we are concerned about. You know, looking at
2444 cost effectiveness seems to be like something a payer would
2445 do. But do they really need to do extra safety tests when
2446 FDA has already done it? That would be our issue. And they
2447 are not here right now. So, you know, it is -- I am just
2448 curious what your thoughts were.

2449 And with that, I yield back.

2450 *Ms. Eshoo. The gentleman yields back. The issue was
2451 raised earlier in our hearing today, and I think that,
2452 working with FDA, with Dr. Shuren -- and Cures 2.0, I think,
2453 presents an opportunity for changes that we can work together
2454 on. But this is a concern on both sides of the aisle, very
2455 legitimate.

2456 All right, all committee member -- staffers, members of
2457 the subcommittee, I will stay to finish out the questions if
2458 we only have three more. Congress members Kuster, Dunn, and
2459 Trahan. Do we have anyone else? Can you ping us?
2460 Otherwise, I am going to stop, and go and vote, and come
2461 back, and Dr. Shuren is going to have to wait again.

2462 So why don't we go to the gentlewoman from New
2463 Hampshire? And I hope the offices respond.

2464 *Ms. Kuster. Thank you very much, Madam Chair --

2465 *Ms. Eshoo. The gentlewoman from New Hampshire is
2466 recognized.

2467 *Ms. Kuster. Thank you, Madam Chair.

2468 Thank you, Dr. Shuren, for being with us today. I want
2469 to jump right in, and ask you about the proposed pilot
2470 program at FDA known as the Total Product Life Cycle Advisory
2471 Program, also known as TAP.

2472 This program is intended to foster earlier interaction
2473 between the FDA and industry to identify risks earlier in the
2474 development with input from outside stakeholders. While the
2475 pilot will begin in 2023 with only 15 products, importantly
2476 it will increase to 325 products by the end of the MDUFA in
2477 2027. I am interested in learning about how this program
2478 will achieve its intended goals of improving patient
2479 outcomes, streamlining regulatory engagement, and increasing
2480 efficiency in the pre-market review process.

2481 Dr. Shuren, can you elaborate on how TAP will achieve
2482 these goals?

2483 *Dr. Shuren. One of the lessons learned from COVID is
2484 that, to facilitate technology coming to the marketplace, and
2485 safe and effective technology, developers sometimes are
2486 hitting, you know, roadblocks. Particularly if you are
2487 dealing with innovative technology, you may be dealing with
2488 new science.

2489 And when we had the ability, as we did in COVID, to
2490 engage with those developers in near or real time to answer
2491 their questions, to work with them hand-in-glove to problem-
2492 solve, we could expedite product coming to market, because we
2493 solve problems more quickly. They were more efficient. You
2494 can be more efficient in how you spend your money -- you, as
2495 the developer -- and you can reduce that time, ultimately, on
2496 the development evaluation cycle and then, ultimately, for
2497 FDA authorization.

2498 So TAP is just taking from those lessons learned, and
2499 now piloting that, if you will, in peacetime. And by doing
2500 this, the reason you will see the growth also in products is
2501 that we are sort of rolling this out. We will start with one
2502 of our offices, you know, learn from that, be iterative, be
2503 like an innovator, do this like a skunkworks, and then we
2504 will start rolling it out to other offices, and then include
2505 the opportunity for more products to come in.

2506 And this, in particular, can be a major game changer
2507 for, you know, your small, innovative companies who don't
2508 have the same bandwidth for trying to get that product to
2509 market. Again, it has got to be safe and effective, the
2510 science has got to support it. But we know, from experience,
2511 these are the things that can really make a big difference.

2512 *Ms. Kuster. And how do you expect FDA will balance the
2513 resource needs of the program with the demands of a growing
2514 stack of pre-market submissions?

2515 *Dr. Shuren. Well, this is one of the reasons too we
2516 got added resources in -- or would get, you know, if enacted
2517 -- that would then give us the capability for handling those
2518 additional submissions that are coming in the door outside of
2519 TAP.

2520 And the add-on payments that are put in as an
2521 accountability factor is another mechanism for kind of
2522 assuring that we keep, if you will, our eyes focused on a
2523 variety of actions that we have committed to meet and to take
2524 over the course of MDUFA V.

2525 We also sort of factored in for the pilot -- is that it
2526 is up to a certain number. So if it turns out, you know, we
2527 are not completely right on the resource needs, and we would
2528 have needed more, we can kind of scale back, if you will, the
2529 number of products that come into it. So we really can test
2530 drive, and that is the nice thing about doing a pilot in this

2531 case. We really can learn, factor that in. And if things
2532 look good, we will have a conversation with industry about
2533 where we go from here. And if it doesn't look good, you
2534 know, we can pull the plug.

2535 But most of the people we are hiring are your review
2536 folks who are doing the other bread-and-butter work. So we
2537 see this as a win, and we think MDUFA V has already built in
2538 a number of aspects to assure that we are well positioned to
2539 make good on our other commitments, as well.

2540 *Ms. Kuster. Great. And one last one: How will the
2541 FDA ensure that patient advocates and outside stakeholders
2542 are involved in the process?

2543 And how will you ensure that the focus remains on safety
2544 and efficacy?

2545 *Dr. Shuren. Well, it is very important that the
2546 agreement for MDUFA V, whatever gets enacted, does not change
2547 our independence on decision-making, it is not to get money
2548 in return for making a particular policy decision or any
2549 decisions on product. Absolutely essential that this is
2550 really about improving performance, not to influence our
2551 decision-making. And we think what we have gotten to with
2552 industry, in trying to reach consensus around there, achieves
2553 that objective.

2554 And of course, you know, moving forward, we do view the
2555 perspective of patients as being very important in the work

2556 that we do. And investments from MDUFA V are going to expand
2557 our abilities to advance that work on the science of patient
2558 input, and broaden patient engagement into medical device
2559 development evaluation.

2560 *Ms. Kuster. Great. Thank you so much. My time is
2561 up --

2562 *Ms. Eshoo. The gentlewoman's time is --

2563 *Ms. Kuster. -- I yield back.

2564 *Ms. Eshoo. Yes, the gentlewoman's time has expired.
2565 The chair is pleased to recognize another one of the doctors
2566 on our subcommittee, Dr. Dunn of Florida, for your five
2567 minutes.

2568 *Mr. Dunn. Thank you very much, Madam Chair, for
2569 hosting this hearing today to discuss the agreement between
2570 the FDA and the industry regarding medical user fees.

2571 And let me say thank you, Dr. Shuren, for your insights
2572 today, and for your stamina putting up with these marathon
2573 questions, and for your enthusiasm for this. It is -- it
2574 shows through. We appreciate a good witness who comes and
2575 really informs us. Thank you.

2576 Let me say innovation in the device space is exciting
2577 for patients and doctors. Like, more and more advanced
2578 medical devices come to market, and Congress just has to make
2579 sure that FDA is adequately equipped to properly evaluate
2580 these new and emerging technologies.

2581 We also have to guarantee that the patients have access
2582 to the latest and greatest technologies without significant
2583 delays, and that those delays that collect patient
2584 information keep that information secure.

2585 We have learned a lot over the course of the pandemic.
2586 We witnessed the FDA efficiently grant emergency use
2587 authorizations to numerous diagnostic tests and devices. And
2588 I would like to see us continue to tune that process to
2589 continue these rapid and safe approvals to make it more
2590 available to the patients. And I certainly appreciate you
2591 being here to inform us on that today, Dr. Shuren.

2592 I understand that, during the MDUFA IV reauthorization
2593 process, the committee sought additional information
2594 regarding the servicing of medical devices. As a result, the
2595 FDA put out in 2018 a report on the matter, concluding that
2596 OEMs and third-party servicers both provide high-quality,
2597 safe, and effective servicing of medical devices. I know
2598 this to be true from my own personal experiences. I ran a
2599 large practice with a number of complex machines, used linear
2600 accelerators for radiotherapy, PET scanners, CT scanners, et
2601 cetera.

2602 Utilizing third-party services was critical to maintain
2603 high-volume, high-quality care in a cost-effective manner.
2604 So I commend the FDA for following through on this
2605 committee's concerns about enhanced post-market surveillance

2606 and transparency by requiring disclosure of servicing on the
2607 MDR 3500 Form, and especially for providing clarity on the
2608 definition of re-manufacturing in your draft guidance.

2609 So, Dr. Shuren, I understand CDRH has worked hard to
2610 provide a clear, transparent process for entities to
2611 understand if they are engaged in servicing or in re-
2612 manufacturing of devices. And is it correct that the FDA
2613 concluded in 2018 there was not -- no significant safety
2614 concerns related to the third-party servicing of medical
2615 devices?

2616 *Dr. Shuren. We did conclude that there weren't
2617 widespread concerns.

2618 *Mr. Dunn. Excellent, excellent. How much feedback has
2619 the agency received on your 2021 draft guidance regarding re-
2620 manufacturing?

2621 *Dr. Shuren. Actually, I don't know the numbers,
2622 offhand.

2623 *Mr. Dunn. Do you have a feel -- some of it, not much
2624 of it?

2625 *Dr. Shuren. I would rather get you the right
2626 information.

2627 *Mr. Dunn. Okay. Didn't -- okay. When do you expect
2628 that guidance to be finalized?

2629 *Dr. Shuren. It is, you know, on our list to try to
2630 move forward in the coming year.

2631 *Mr. Dunn. In this year?

2632 *Dr. Shuren. In this year.

2633 *Mr. Dunn. Excellent, excellent.

2634 As you know, in the CARES Act, Congress granted FDA
2635 temporary authorities limited to the duration of the
2636 emergency to require additional reporting related to medical
2637 device shortages. You addressed that earlier in one of your
2638 comments. The FDA subsequently listed only 30 devices on a
2639 shortage list such as PPEs, diagnostics, ventilators, et
2640 cetera.

2641 In January of this year the FDA issued draft guidance
2642 outlining their vision for reporting requirements beyond the
2643 public health emergency. It is my understanding that they
2644 are pursuing authorities to issue blanket requirements for
2645 the entire industry, including hundreds of thousands of
2646 devices. It seems to me, surely, there are only a few
2647 hundred critical devices we should be tracking in that
2648 detail.

2649 And can we look at some kind of threshold for reporting
2650 on all those requirements? Does the CDRH even have the
2651 expertise in the supply chain management to look at those
2652 things?

2653 *Dr. Shuren. Yes, so what we are putting forward is
2654 still a narrow list of devices.

2655 *Mr. Dunn. Oh, excellent.

2656 *Dr. Shuren. Yes, it is, and --

2657 *Mr. Dunn. We would like to know what that is, but that
2658 -- thank you.

2659 *Dr. Shuren. Yes. No, it is, and it is really the
2660 things that are critically important.

2661 *Mr. Dunn. And I actually got your point earlier that
2662 it is critically important. I just didn't want to see, you
2663 know, the bureaucracy bogged down with chasing hundreds of
2664 thousands of different supply chains for reporting,
2665 especially on a biweekly basis.

2666 *Dr. Shuren. We don't want to, either.

2667 *Mr. Dunn. It seems to me -- yes. No, I mean, I think
2668 -- I don't know that I could do biweekly reporting like that,
2669 so -- thank you very much again, Dr. Shuren, you have been a
2670 really excellent witness, and a great guy. Thank you.

2671 I yield back.

2672 *Ms. Eshoo. Isn't that lovely? Isn't that nice for you
2673 to hear, Dr. Shuren?

2674 Thank you, Dr. Dunn.

2675 All right. We have one more member to question before
2676 we take a break. There are eight votes, and I will return
2677 ASAP upon the last vote being cast for the second panel.

2678 The gentlewoman from Massachusetts, Congresswoman
2679 Trahan, is recognized for your five minutes.

2680 *Mrs. Trahan. Well, thank you, Chairwoman Eshoo,

2681 Ranking Member Guthrie, for convening us here today to
2682 discuss the importance of medical devices.

2683 You know, I just want to start with an issue that has
2684 dominated the conversation around supply chain shortages, and
2685 that is semiconductor chips. Over the last few months my
2686 office has heard from several companies facing dire chip
2687 shortages, critical devices, from mammography screening to
2688 defibrillators to diagnostic scanners. The chip shortage is
2689 hindering companies' ability to upgrade equipment, meet
2690 market demands, and sustain a thriving job market.

2691 So, Dr. Shuren, in your position have you heard much
2692 about this challenge?

2693 Is there a role for the FDA, either through cooperation
2694 with the Department of Commerce or working with companies, to
2695 facilitate upgrades from legacy chips to advanced chips?

2696 *Dr. Shuren. The answer is yes. We have heard a lot.
2697 We have talked to a lot of manufacturers. We have had
2698 conversations with the Department of Commerce and other folks
2699 in government to sort of convey the importance of these chips
2700 to a variety of medical devices.

2701 And, of course, the shortage on chips is, of course,
2702 leading to and contributing to shortages on medical devices.
2703 And appreciate, too, those chips are used in a variety of
2704 technologies, and there is lots of needs out there. But we
2705 have really been trying to advocate for the needs here in

2706 public health.

2707 And certainly, when it comes to, like, the Defense
2708 Production Act too, we have got HHS, who plays, you know, the
2709 lead role here, or one of the lead roles in trying to advance
2710 that, in partnership with other parts of the government.

2711 *Mrs. Trahan. Great. I appreciate that.

2712 You know, in recent years we have seen an influx of
2713 software using artificial intelligence in the medical device
2714 space, ranging from imaging tools used in radiology to
2715 insulin pumps that automatically adjust. And, unlike a
2716 scalpel or X-ray machine, AI-powered medical software needs
2717 to be continually updated by design. These tools are built
2718 so that they continue to learn and improve from data they
2719 collect while they are deployed.

2720 And the FDA requires that software that undergoes
2721 significant changes go through that approval process a second
2722 time. This is a necessary safeguard, but can slow the
2723 approval process for updated versions of medical software,
2724 especially those using data collected post-market.

2725 So, as a part of its proposed artificial intelligence
2726 action plan, the FDA has described accepting a pre-determined
2727 change control plan as a part of the pre-market submission
2728 process for software as a medical device. And in the control
2729 plan a manufacturer could -- would detail ahead of time how
2730 it plans to change its software and establish how those

2731 changes will not alter the safety and effectiveness of the
2732 software.

2733 So how would pre-determined change control plans in pre-
2734 market applications affect the approval process for software
2735 as a medical device?

2736 *Dr. Shuren. So where it may be applicable to have a
2737 plan like that where the manufacturer is laying out here are
2738 the changes we will -- we want to make, and here is how we
2739 will assure that those changes are not, for example,
2740 adversely impacting the safety or effectiveness of the
2741 technology, and if we are looking at that, and that plan
2742 makes sense, and that is going to work, and we go ahead and
2743 authorize that either as part of authorizing the device -- or
2744 a company could come in later and just come in with that
2745 plan, then you are expediting updated, modified devices
2746 within the context of that plan, expediting patient access,
2747 because the FDA isn't going to look at it. We have already
2748 looked at what the manufacturer will be doing.

2749 What is important, though, of course, is assuring that
2750 you have got the safeguards in place, that when those changes
2751 are made, in fact, it remains safe and effective technology,
2752 and we have the ability to take action if problems arise in
2753 the future.

2754 *Mrs. Trahan. That is great. And there are other
2755 regulatory tools that the FDA can use to promote continued

2756 evaluation of software as a medical device throughout its
2757 product Life Cycle?

2758 *Dr. Shuren. Well, we think this is a perfect
2759 opportunity for sort of marrying up, you know, more of a
2760 continued evaluation from Real-World Evidence.

2761 That is why, you know, part of our investment in those
2762 real-world data sources is can we be using that to, you know
2763 -- if you got technology out there, and we are just -- you
2764 know, we are learning from it, we are kind of keeping tabs.
2765 And software as a medical device, including with AI
2766 capabilities, is really ripe candidates for doing that.
2767 Even, you know, where we can, leveraging information that the
2768 device itself is collecting on itself -- almost like a black
2769 box in an airplane. So we think those kinds of methods are
2770 really things we would incorporate.

2771 Where we are limited, though, is some of the constraints
2772 that we have under the current law, and another reason why we
2773 think having more flexibility to tailor pathways that better
2774 fit these and other kinds of technologies, but do it
2775 voluntarily, you know -- so, Company, pick the old way or
2776 pick the new way, and if you like -- and want to change your
2777 mind, flip to the other later.

2778 But if we can do that and build it right, then we can
2779 take advantage and get the best of both worlds. We would
2780 actually have better assurances of safety and effectiveness,

2781 and more expedited time to the market.

2782 *Mrs. Trahan. Thank you. I know my time --

2783 *Ms. Eshoo. The gentlewoman's time has expired.

2784 *Mrs. Trahan. Thank you.

2785 *Ms. Eshoo. Dr. Shuren, thank you. Thank you for your
2786 patience today with our schedule. Thank you for the work
2787 that you have done, what your entire team, the center -- this
2788 has been a test like no other, the last two years. And, you
2789 know, the work that you and everyone at -- you know, at the
2790 center at the FDA have done -- extraordinary work under
2791 extraordinary circumstances. So bravo to you, to all of the
2792 people there. Thank you for the work that has been put into
2793 this negotiation. We will, of course, move it along. And we
2794 look forward to continuing to work with you to really produce
2795 for the American people. So thank you.

2796 The committee is going to recess now, and I just want to
2797 close -- because she won't be here when we come back for the
2798 second panel -- to recognize Kim -- what is the matter with
2799 me? Too much talking today. Kim, we miss you, but it is
2800 great to see you out there.

2801 And Dr. Shuren, you are fortunate. You are fortunate to
2802 have Kim right there with you. Bravo.

2803 Okay, so we are going to go and vote. We will be back
2804 as soon as we can after the eighth vote is cast, and hear
2805 from our second panel. Thank you again. Bravo.

2806 [Recess.]

2807 *Ms. Eshoo. The Health Subcommittee will reconvene, and
2808 I want to thank our -- the witnesses of our second panel, and
2809 I now would like to introduce them.

2810 Ms. Janet Trunzo is the senior executive vice president
2811 of technology and regulatory affairs for the Advanced Medical
2812 Technology Association. We know them as AdvaMed.

2813 Welcome to you, and thank you.

2814 Ms. Diane Wurzburger is the executive of regulatory
2815 affairs for GE Healthcare, and is testifying on behalf of the
2816 Medical Imaging and Technology Alliance, MITA, M-I-T-A, where
2817 she serves on the board of directors and chair of the
2818 technical and regulatory committee.

2819 Mr. Mark Leahey is the president and chief executive
2820 officer of the Medical Device Manufacturers Association,
2821 MDMA.

2822 And with us here in person -- patiently waited, I am
2823 sure, just about all day -- Dr. Richard Kovacs. He is the
2824 chief medical officer and past president of the American
2825 College of Cardiology. He is also a practicing cardiologist
2826 and a professor at the Indiana University School of Medicine.

2827 Thank you very much, Dr. Kovacs, and welcome to our
2828 subcommittee.

2829 We thank all of the witnesses for joining us today. We
2830 are looking forward to your testimony.

2831 And we will go straight to you, Dr. Kovacs. You are
2832 recognized for five minutes. I think you probably know what
2833 the lights are.

2834 Turn your microphone on, and a warm welcome to you, and
2835 the gratitude of the entire committee for being with us.

2836

2837 STATEMENT OF RICHARD J. KOVACS, M.D., Q.E. AND SALLY RUSSELL
2838 PROFESSOR OF MEDICINE, INDIANA UNIVERSITY SCHOOL OF MEDICINE,
2839 CHIEF MEDICAL OFFICER, AMERICAN COLLEGE OF CARDIOLOGY; MARK
2840 LEAHEY, PRESIDENT & CEO, MEDICAL DEVICE MANUFACTURERS
2841 ASSOCIATION; JANET TRUNZO, SENIOR EXECUTIVE VICE PRESIDENT,
2842 TECHNOLOGY AND REGULATORY AFFAIRS, ADVANCED MEDICAL
2843 TECHNOLOGY ASSOCIATION (ADVAMED); AND DIANE WURZBURGER,
2844 EXECUTIVE OF REGULATORY AFFAIRS, GE HEALTHCARE

2845

2846 STATEMENT OF RICHARD J. KOVACS

2847

2848 *Dr. Kovacs. Chairwoman Eshoo and Ranking Member
2849 Guthrie and the distinguished members of the subcommittee, I
2850 am Dr. Richard Kovacs. I have been introduced. I am proud
2851 to represent the ACC, a 54,000-member professional society
2852 whose care team members work to transform cardiovascular care
2853 and improve heart health.

2854 The college's activities include leading in education,
2855 bestowing credentials on highly-qualified individuals,
2856 accrediting high-quality institutions, publishing leading
2857 medical journals, and maintaining national cardiovascular
2858 data registries to improve care.

2859 Today I am here to discuss re-authorization of MDUFA
2860 from a clinician's perspective, with special emphasis on four
2861 topics: listening to the patient; attention to the Total

2862 Product Life Cycle; use of Real-World Evidence for safety and
2863 efficacy; and advancing regulatory science.

2864 We and my colleagues use medical devices on a daily
2865 basis to serve and heal our patients. We ask our patients
2866 what is important to them, and we listen carefully.

2867 Let me give you an example. Before I flew to Washington
2868 last night, I saw Richard, an 86-year-old man from
2869 northwestern Indiana. He likes to work in his yard. He,
2870 unfortunately, suffered from aortic stenosis, a severe
2871 narrowing of the main outlet valve of his heart. Three weeks
2872 ago he couldn't walk fifty feet from his car into the
2873 hospital door because he was so short of breath. He received
2874 a transcatheter aortic valve replacement, left the hospital
2875 within 48 hours, has no scar on his chest, and feels great.
2876 When I saw him yesterday, he is back in his garden.

2877 But in the longitudinal care, our care doesn't stop with
2878 the implantation of a device like this.

2879 A few weeks ago I had to say goodbye to another patient,
2880 Carlos, a 70-year-old man from northeastern Indiana who I met
2881 in 1989, when he needed an aortic valve replacement. We
2882 selected a mechanical valve. It was implanted surgically.
2883 Yes, he did have a scar, but that valve functioned flawlessly
2884 for the next 33 years, until he passed away from another
2885 disease.

2886 So we urge you to listen to patients, and engage the

2887 patient voice from the earliest phases of development and
2888 throughout the life cycle of the medical device. The
2889 patients will tell you what really matters to them.

2890 We have specific recommendations in our written
2891 submission. They correspond a lot to what Dr. Shuren said
2892 earlier today.

2893 Clinicians like me use these devices every day. And
2894 like the example of Carlos, I may manage a patient for
2895 decades. Cardiology is a specialty where the pace of change
2896 is rapid, and innovations in our DNA. Clinicians have a
2897 great deal to offer in this process. We support the TPLC
2898 Advisory Program and its efforts to facilitate the early
2899 involvement of clinicians in the product life cycle.

2900 It is impossible to know everything about a device from
2901 early clinical trials. So Real-World Evidence of safety and
2902 efficacy, evidence that can be gleaned from clinical data
2903 registries like our National Cardiovascular Data Registry is
2904 what I rely on through the product life cycle. We should
2905 leverage these data for the public good.

2906 Registries can be cost savings. Sponsors that have used
2907 registries to house post-approval studies have achieved
2908 savings of 40 to 60 percent over the usual clinical trials.

2909 Safety and efficacy are also best supported by sound
2910 regulatory science. Science is a team sport these days, and
2911 teams of industry employees, academics, and regulators can

2912 solve these problems. The Cardiac Safety Research Consortium
2913 is such a collaboration, and it has made important
2914 advancements in drug safety. The ACC supports the FDA
2915 Network of Experts program, and can expand access to experts
2916 in cardiovascular disease.

2917 Finally, I want to say we also support the efforts to
2918 provide additional cybersecurity. I have had the experience
2919 of working in two hospitals that have been hacked, and the
2920 care deteriorates dramatically.

2921 So thank you for your interest. And on behalf of our
2922 patients and our profession, thank you for allowing us to be
2923 part of this process, and I look forward to any questions.

2924 [The prepared statement of Dr. Kovacs follows:]

2925

2926 *****COMMITTEE INSERT*****

2927

2928 *Ms. Eshoo. Thank you, Doctor.

2929 Next, Mr. Leahey, you are recognized for your five
2930 minutes of testimony, and thank you.

2931 [Pause.]

2932 *Ms. Eshoo. We have a problem, or --

2933 *Voice. He needs to go off mute.

2934 *Ms. Eshoo. Pardon me?

2935 *Voice. He needs to go off mute.

2936 *Ms. Eshoo. Oh, I see.

2937 *Mr. Leahey. Can you hear me now?

2938 *Ms. Eshoo. You have to unmute yourself, Mr. Leahey.

2939 *Mr. Leahey. Yes, can you hear me?

2940 *Ms. Eshoo. We can hear you, yes.

2941 *Mr. Leahey. Okay, great.

2942

2943 STATEMENT OF MARK LEAHEY

2944

2945 *Mr. Leahey. Thank you, Chairwoman Eshoo, Ranking
2946 Member Guthrie, and members of the subcommittee, for the
2947 opportunity to testify today. My name is Mark Leahey, and I
2948 am the president and CEO of the Medical Device Manufacturers
2949 Association, a national trade association representing
2950 hundreds of medical technology companies.

2951 MDMA was founded in 1992 to be the voice of the
2952 innovative and entrepreneurial sector of the industry. While
2953 the industry is broadly represented throughout the United
2954 States, one of the unique components of this vibrant part of
2955 America's innovation ecosystem is that the majority of
2956 companies are small businesses. According to data from the
2957 Department of Commerce, over 98 percent of med tech companies
2958 have fewer than 500 employees, and more than 80 percent have
2959 less than 50 employees, yet they are the major source of
2960 innovation in America's competitive advantage in medical
2961 technology.

2962 Our industry is dedicated to one mission: to alleviate
2963 human suffering and to improve patient care. Our industry
2964 has a proud tradition of answering the needs of patients and
2965 providers, and perhaps no example is more profound than what
2966 innovators have done since the outset of the COVID-19
2967 pandemic. Whether it was respiratory devices, diagnostics,

2968 advanced patient monitoring, or personal protective
2969 equipment, the medical technology industry worked tirelessly
2970 to help the United States and the entire world to confront
2971 this challenge, and they continue to do so today.

2972 In addition to the extraordinary efforts of this
2973 industry and to health care professionals, I would also like
2974 to take a moment to acknowledge the dedicated professionals
2975 at the FDA who worked 24/7 -- COVID and non-COVID medical
2976 technologies to improve patient care during the pandemic.
2977 Their efforts ensured that patients had timely access to safe
2978 and effective medical technologies.

2979 The MDUFA V draft agreement that we are discussing today
2980 and the historic increase in user fee funding that it
2981 contains demonstrates our commitment to provide additional
2982 capacity and expertise to further advance the FDA's mission.
2983 MDUFA V five provides over \$2 billion in investable funding
2984 to FDA.

2985 As a point of reference, MDUFA [inaudible] totaled
2986 approximately \$150 million over the 5 years of the program.
2987 While each MDUFA typically provides funding for an additional
2988 200 new hires, under MDUFA V FDA will be able to hire a
2989 minimum of 273 people, and up to 387 new people to support
2990 the MDUFA program. This represents a historic increase in
2991 both overall funds and people, and it is our hope and
2992 expectation that this will be the last major investment

2993 needed for the MDUFA program, and that moving forward, any
2994 necessary increases will be much more modest and targeted.

2995 With these significant investments, MDUFA V also
2996 establishes more transparency around the use of funds,
2997 including ensuring that annual hiring targets are met. FDA
2998 will also conduct an HR assessment during the MDUFA V to
2999 identify how many MDUFA-funded vacancies exist. Currently,
3000 CDRH is only able to track MDUFA IV and later FTEs. Public
3001 reports in 2016 indicated MDUFA-funded vacancies exceeded 25
3002 percent, and innovators want to ensure that the additional
3003 capacity that we are funding through user fees is realized in
3004 new additional hires and backfilling any vacancies that
3005 arise.

3006 Beyond the financial accountability and transparency
3007 provisions that MDUFA V contains, performance goals
3008 associated with the de novo and PMA total time to decision
3009 also improved over the course of the agreement.

3010 One goal that was elusive under MDUFA IV was the 510K
3011 total time to decision goal in fiscal year 2022 of 108 days.
3012 As was mentioned earlier, COVID did impact FTE capacity,
3013 including the ability to meet certain MDUFA IV goals. Under
3014 MDUFA V, the 510K total time to decision goal will ramp down
3015 each year, hopefully achieving 108 days by fiscal year 2026.

3016 MDUFA V also expands investments in patient science and
3017 engagement to enhance the patient perspective into the

3018 medical device evaluation process. As we all know, America's
3019 medical technology ecosystem was not built overnight. It
3020 took decades of work to account [inaudible] countless
3021 stakeholders including Congress, the FDA, innovators,
3022 physicians, patient groups, and more to design the regulatory
3023 pathways that has resulted in the gold standard of safety and
3024 efficacy. At the same time, we all recognize that this is a
3025 delicate balance to ensure that the right policies are in
3026 place to support innovation and to spur the next generation
3027 of cures, therapies, and diagnostics that patients are
3028 relying on.

3029 As I noted, this is a historic investment in the FDA,
3030 and it will be critical over the coming years to meet the
3031 goals and milestones within the user fee agreement help
3032 ensure that the United States remains the global leader in
3033 medical technology development.

3034 It is also critical that Congress continues its vital
3035 oversight role in providing the necessary resources and
3036 investments to FDA for it to achieve its mission.

3037 MDMA and our member companies remain committed to
3038 working closely with you to reach our shared goal of
3039 providing safe and effective medical technologies to patients
3040 and providers in a timely manner. Thank you once again for
3041 this committee's passionate leadership on this important
3042 work, and I look forward to answering any questions that the

3043 committee members may have. Thank you very much.

3044 [The prepared statement of Mr. Leahey follows:]

3045

3046 *****COMMITTEE INSERT*****

3047

3048 *Ms. Eshoo. Thank you, Mr. Leahey. And for all the
3049 work that you and your colleagues put into the negotiations,
3050 bravo.

3051 Ms. Trunzo, you are now recognized for your five minutes
3052 of testimony.

3053 [Pause.]

3054 *Ms. Eshoo. You need to unmute.

3055 [Pause.]

3056 *Ms. Eshoo. Can you hear me?

3057 *Ms. Trunzo. Yes, I can.

3058

3059 STATEMENT OF JANET TRUNZO

3060

3061 *Ms. Trunzo. Thank you --

3062 *Ms. Eshoo. Okay.

3063 *Ms. Trunzo. -- very much, Chairwoman Eshoo, Ranking

3064 Member Guthrie, and members of the committee. Thank you

3065 so --

3066 *Ms. Eshoo. There you are.

3067 *Ms. Trunzo. -- much for inviting --

3068 *Ms. Eshoo. Thank you.

3069 *Ms. Trunzo. -- the Advanced Medical Technology

3070 Association, or AdvaMed, to testify on the reauthorization of

3071 the Medical Device User Fee Program.

3072 This legislation is critical to patients continuing to

3073 have access to innovative, safe, and effective medical

3074 technologies, and we are grateful for the opportunity to

3075 offer our insights today.

3076 AdvaMed is the world's largest trade organization

3077 representing medical technology companies. AdvaMed

3078 represents more than 400 medical device manufacturers, of

3079 which there are 300 small companies. I had the pleasure of

3080 representing AdvaMed during the discussions of the very first

3081 user fee program, the Medical Device User Fee and

3082 Modernization Act of 2002, and each of the re-authorizations

3083 since then.

3084 The ongoing public health emergency created
3085 uncertainties that presented a significant challenge to our
3086 MDUFA discussions. Yet AdvaMed believes that the collective
3087 efforts of the industry and FDA have produced an agreement
3088 that will further strengthen the medical device pre-market
3089 review program. This will advance the ultimate shared goal
3090 of patients having timely access to safe and effective
3091 medical devices.

3092 From the very first user fee program in 2002, the
3093 underlying principle is that user fees supplement existing
3094 appropriations so that FDA has the resources necessary to
3095 support timely review of submissions. While user fees
3096 support overall timeliness and predictability, they neither
3097 guarantee a particular result nor guarantee the timing of any
3098 particular application review. Those remain completely under
3099 FDA's authority.

3100 Industry and FDA have taken the opportunity during each
3101 re-authorization to refine and improve the goals. Each MDUFA
3102 cycle included significant increases in investments by
3103 increasing the number of new FTEs to support the anticipated
3104 workload. For MDUFA V, AdvaMed and the industry
3105 representatives approached the re-authorization with the same
3106 two overarching principles we have had in the past: patients
3107 must continue to benefit from access to safe and effective
3108 medical devices; and the associated goals of the user fee

3109 program should be refined and improved.

3110 However, we also recognize that the COVID-19 public
3111 health emergency had required a significant effort on the
3112 part of FDA. As a result, we believe the device center
3113 needed to focus on the fundamentals of the device review
3114 program, which we refer to as Back to Basics. AdvaMed
3115 believes the package is well crafted to provide significant
3116 resources and capacity for FDA, greater predictability for
3117 the industry, and is in the best interests of patients.

3118 It has the following key components.

3119 First, the general goal structure for submissions is
3120 unchanged. Over the course of MDUFA V we expect to see
3121 improvements in review times compared to MDUFA IV goals, or
3122 compared to current performance, depending upon the
3123 submission type.

3124 Second, the package provides significant additional
3125 resources to ensure that FDA can provide timely feedback to
3126 companies seeking pre-submission guidance from the agency.
3127 This process enhances the likelihood of an efficient review
3128 of the product submission.

3129 Third, this package will fund targeted initiatives to
3130 support the pre-market review program. For example, there is
3131 increased funding for patient science and engagement to
3132 enhance the incorporation of the patient experience into the
3133 medical device evaluation process.

3134 Fourth, this package contains specific accountability
3135 measures for the evaluation of the program by funding a
3136 quality management program and two independent assessments of
3137 the review process.

3138 Finally, this agreement provides enhanced public
3139 transparency of MDUFA financing, including clarity on the use
3140 of the carryover balances.

3141 On behalf of AdvaMed, we look forward to working with
3142 Congress, FDA, and stakeholders on the re-authorization of
3143 the Medical Device User Fee Program so that our common goal
3144 of timely patient access to safe and effective medical
3145 devices is realized. Thank you.

3146 [The prepared statement of Ms. Trunzo follows:]

3147

3148 *****COMMITTEE INSERT*****

3149

3150 *Ms. Eshoo. Thank you, Ms. Trunzo. You have been there
3151 from the beginning, so bravo to you. And it is wonderful to
3152 have you as a witness.

3153 Next, Ms. Wurzburger, you are recognized for five
3154 minutes for your testimony, and welcome, and thank you.

3155

3156 STATEMENT OF DIANE WURZBURGER

3157

3158 *Ms. Wurzburger. Thank you and good afternoon,
3159 Chairwoman Eshoo, Ranking Member Guthrie, and distinguished
3160 members of the subcommittee. Thank you for the opportunity
3161 to appear before you today to discuss the FDA's Medical
3162 Device User Fee Program on behalf of the Medical Imaging and
3163 Technology Alliance, also known as MITA.

3164 MITA is the primary trade association and standards
3165 development organization representing the manufacturers of
3166 medical imaging technologies, including magnetic resonance
3167 imaging, medical X-ray equipment, computed tomography
3168 scanners, ultrasound, nuclear imaging, radiopharmaceuticals,
3169 AI-enabled imaging software, and other products. MITA member
3170 companies' technologies play an essential role in our
3171 nation's health care infrastructure and are integral in the
3172 care pathways of evaluating, staging, managing, and
3173 effectively treating patients with cancer, heart disease,
3174 neurological degeneration, COVID-19, and numerous other
3175 medical conditions.

3176 By catching disease early, reducing the need for
3177 invasive inpatient procedures, and facilitating shorter
3178 recovery times, medical imaging saves money and improves
3179 efficiency in the healthcare system. Medical imaging
3180 technologies have revolutionized health care delivery in

3181 America and around the world, extending human vision into the
3182 very nature of disease.

3183 A consistent and timely FDA review process is essential
3184 to timely patient access to these technologies. MITA
3185 continues our strong support for an effective, well-resourced
3186 FDA capable of fulfilling its mission to protect and promote
3187 the public health. The medical imaging industry supported
3188 enactment of FDA's user fee programs in 2002 and its
3189 subsequent re-authorizations in 2007, 2012, and 2017. We
3190 participated alongside our industry colleagues in the MDUFA V
3191 negotiations, and support enactment of the proposed
3192 agreement, which will provide the FDA device program with
3193 ample resources, establish new accountability measures, and
3194 allow for exploration of new review paradigms such as the
3195 Total Product Life Cycle Advisory Program, also known as TAP.

3196 User fees provide for an efficient pre-market review
3197 process, allowing the safe and effective medical device
3198 innovations to get patients -- to get to patients and health
3199 care providers in an expedient, consistent, and transparent
3200 manner. Supplementing FDA funding with user fee brings
3201 stability and predictability to the device review process and
3202 timelines.

3203 The goals of the medical device industry and FDA commit
3204 to, and FDA's subsequent performance are critical to timely
3205 patients' access to safe and effective medical advancements.

3206 Without a consistent and timely FDA review process conducted
3207 by well-trained FDA staff, access to diagnostic imaging
3208 technologies will be delayed, and industry's ability to
3209 deliver technological advancements will be compromised.

3210 We, therefore, will continue to partner with FDA and
3211 other stakeholders in asking Congress to re-authorize this
3212 important program that supports patient access to safe and
3213 effective medical imaging innovations.

3214 MDUFA V was negotiated during turbulent times for all
3215 parts of our healthcare system, including innovators,
3216 regulators, health care providers, and patients. The
3217 COVID-19 pandemic strained every part of our society. FDA
3218 and industry strived to meet the challenges presented by this
3219 public health emergency by ensuring safe and effective
3220 medical devices could be delivered to patients in an
3221 expeditious manner.

3222 The last several years created significant resource
3223 challenges for FDA, and as it seeks to recover its operations
3224 and get back to pre-pandemic performance, it will need to be
3225 sufficiently resourced to meet its obligations and continue
3226 to review products for safety and effectiveness.

3227 The MDUFA V agreement will raise the Center for Devices
3228 and Radiological Health's funding significantly, allowing the
3229 center to meet its pre-market review commitments. It will
3230 also be able to hire new FTEs and meet rising payroll costs.

3231 And the agency will also continue to invest in successful
3232 programs that support the use of standards and Real-World
3233 Evidence in regulatory pre-market decisions; the advancement
3234 of digital health technologies; the expansion of patient
3235 engagement opportunities to inform the development and
3236 evaluation of innovative technologies; FDA's engagement with
3237 international regulators and the promotion of regulatory
3238 convergence; as well as continued FDA collaboration with
3239 accredited third-party reviewers to support a voluntary
3240 alternate review pathway.

3241 MDUFA V will bring new accountability measures and
3242 ensure FDA -- excuse me, user fee dollars are being
3243 appropriately invested in shared goals, and also support
3244 multiple independent assessments of performance and generate
3245 recommendations on how the center can continue to improve its
3246 operations.

3247 In closing, MITA urges Congress to move quickly to
3248 enactment of MDUFA V. This agreement, negotiated between FDA
3249 and the medical device industry over the last year-and-a-
3250 half, will ensure ongoing patient access to safe and
3251 effective devices.

3252 Thank you for the opportunity to present our views
3253 today. I am happy to answer any questions you may have.

3254

3255

3256 [The prepared statement of Ms. Wurzburger follows:]

3257

3258 *****COMMITTEE INSERT*****

3259

3260 *Ms. Eshoo. Thank you, Ms. Wurzburger. And that
3261 concludes the testimony of our five witnesses. And thank you
3262 once again for being with us today, and your patience in
3263 terms of the House schedule. We will now move to member
3264 questions, and the chair will recognize herself for five
3265 minutes to do so.

3266 Dr. Kovacs, in your written testimony you said that more
3267 needs to be done to use patient input to inform clinical
3268 study design in order to recruit and retain a diverse patient
3269 sample. In your view, what else should the FDA and the
3270 medical device manufacturers be doing to recruit more diverse
3271 patients in device clinical investigations?

3272 *Dr. Kovacs. I think that Dr. Shuren had many good
3273 points to make this morning: going to where the patients
3274 are, to approach them in their environment; to use
3275 telemedicine and telecommunications to reach patients that
3276 otherwise are unreachable. And I would add one additional
3277 point to what Dr. Shuren mentioned this morning, and that is
3278 also to diversify our investigators.

3279 The actual clinical investigators need to look like the
3280 patients that are enrolled in these trials. Outside the
3281 scope of MDUFA, but within the scope of what could be -- help
3282 with legislation to improve the training, to increase our
3283 pipeline. The college is working on this, but we realize we
3284 are a small organization trying to get way upstream of this

3285 to diversify our investigative team.

3286 *Ms. Eshoo. Excellent. Well, Dr. Shuren stayed because
3287 he wanted to hear your testimony and that of the others that
3288 are with you today. So he is listening very intently.

3289 To Ms. Trunzo, you said that the device review program
3290 needs to, quote, "go back to the basics'' in order to balance
3291 COVID-19 demands with the center's regular workload. How
3292 does MDUFA V help address the center's capacity gap, in your
3293 view?

3294 [Pause.]

3295 *Ms. Eshoo. You need to unmute.

3296 [Pause.]

3297 *Ms. Eshoo. Are we putting each other to sleep?

3298 [Laughter.]

3299 *Ms. Trunzo. So sorry.

3300 *Ms. Eshoo. That is all right.

3301 *Ms. Trunzo. I believe that the investment from MDUFA V
3302 that we have discussed in our testimony of about \$1.78
3303 billion in guaranteed funding allows for FDA to hire the
3304 additional FTEs needed so that there is sufficient resources
3305 and capacity for FDA to get back to basics.

3306 It is -- if you look at the number of additional FTEs
3307 that FDA will get as a result of this investment, it will
3308 support the medical device review program and get us back to
3309 basics. Thank you.

3310 *Ms. Eshoo. Thank you.

3311 To Ms. Wurzburger, do you think the term -- and we
3312 discussed this earlier today with Dr. Shuren -- do you think
3313 the term "re-manufacturing" needs further clarification in
3314 statute, despite the FDA's draft guidance? And if so, why?

3315 *Ms. Wurzburger. Thank you. Yes. MITA agrees with Dr.
3316 Shuren that clarification is needed, and the legislation
3317 recently [inaudible] Representatives Peters, Schrier, and
3318 Joyce provides that clarity.

3319 While the FDA guidance remains in draft form, there is
3320 [inaudible] providing greater clarity via statute [inaudible]
3321 activities that could significantly [inaudible] performance
3322 or safety specifications, or intended use [inaudible] device
3323 are clear.

3324 Additionally, the legislation -- legislative proposal
3325 also includes provisions to provide public education and
3326 transparency [inaudible] awareness of manufacturers'
3327 regulatory responsibilities, and to promote compliance.
3328 Thank you.

3329 *Ms. Eshoo. Thank you.

3330 I am going to yield back my time and recognize our
3331 wonderful ranking member of our subcommittee, Mr. Guthrie,
3332 for your five minutes of questions.

3333 *Mr. Guthrie. Thank you. Before I get to my questions,
3334 earlier today -- I am glad Dr. Shuren is still here -- we

3335 were talking about device shortage, the proposal, and we are
3336 all for patient safety. That is premier, first and foremost,
3337 moving forward. And I think someone said -- I don't remember
3338 who, exactly -- the difference in pharmaceutical and device.
3339 And it is all about patient safety.

3340 So those -- there is no difference between the two,
3341 except I know that, when we did the pharmaceutical, I was
3342 hearing a lot of calls from people who were -- I had, like,
3343 people driving ambulances say they didn't have basic
3344 pharmaceuticals. They were canceling surgeries because they
3345 didn't have the basic pharmaceuticals. And when you looked
3346 at it, it was small. It was high volume, small margin,
3347 usually one supplier, and so forth.

3348 And we were really concerned that you just couldn't
3349 plan. It would be like you are getting 100,000 -- I am
3350 making the number up, but say you are supposed to get 100,000
3351 a week from this supplier, and you get 50 one week, 120 one
3352 week, 30 next week, it depends on the disruptions. And that
3353 is what we were looking for, and that is what hearings are
3354 for. Maybe there is the same problem in device.

3355 But there is a difference. I am a manufacturing -- not
3356 -- aluminum parts, not pharmaceutical. But there is a big
3357 difference in just not hitting your targets week in and week
3358 out, and all of a sudden committing to 100,000, and all of a
3359 sudden you need a million. I mean, that is kind of what

3360 happened with our pandemic. And that is a different problem.
3361 And it is just a different problem.

3362 I just want to -- if you are going to expect somebody to
3363 go from 100,000 to 10 times, or 5 times, or however much they
3364 need there, the government has to buy the capacity or they
3365 have to store it. I mean, the storage. And that is
3366 something that we need to work through, and to make sure we
3367 have the -- it correctly.

3368 But if the same problem is we are just not getting the
3369 devices on a regular basis, like the same thing, we need to
3370 address that, too. We need to address that, too. So that is
3371 what we need to sort out in the hearing.

3372 But the other thing I asked about this morning with Dr.
3373 Shuren is emerging signals. And again, we are all -- patient
3374 safety is premier. But Ms. Trunzo, is there a way that you
3375 can -- we can balance, or make sure that we have -- we
3376 promote innovation and we get this right with the signaling
3377 without compromising patient safety?

3378 [Pause.]

3379 *Mr. Guthrie. Ms. Trunzo? Did --

3380 *Ms. Trunzo. Sorry. I believe there is --

3381 *Mr. Guthrie. Okay.

3382 *Ms. Trunzo. I am sorry. I believe there is a way to
3383 balance the emerging signals program. I think it is really
3384 important that the program allows for, if FDA does detect an

3385 emerging signal, that there is an opportunity for the company
3386 to interact with FDA, because sometimes the company may have
3387 supplemental information that may be crucial to the
3388 evaluation process that FDA is undertaking.

3389 And I think the other important factor in an emerging
3390 signal program is the ability for FDA to -- because it is
3391 emerging signals and it may not be confirmed, and if it later
3392 is confirmed, or later confirmed ought to be an emerging
3393 signal, then it would be important for the FDA to somehow
3394 communicate that to health care providers during that
3395 process. But there are --

3396 *Mr. Guthrie. Okay, on that -- I should have muted my
3397 phone, so we don't get that -- I mean my talk button, so I
3398 don't get the feedback, but I -- but on that, Dr. Shuren, I
3399 thought, brought a valid point about how the timing that
3400 could take to get that done. If it is -- is there a proposal
3401 that you are moving forward that would say, if it is an
3402 emergency situations -- I understand that there is -- FDA
3403 detect emerging signal, and you want -- need the time to
3404 respond, because you want to make sure that you have the
3405 opportunity to, and I understand that and fully support that,
3406 except is there a criticalness to the time, the timing of
3407 some are and some aren't, I guess? And so how do we decide
3408 which ones are and which aren't?

3409 *Ms. Trunzo. I believe that there -- that is a delicate

3410 balance to achieve of the actual timing of that information.
3411 And I think that goes back to why it is so important.

3412 If FDA, through the data sources that FDA has access to,
3413 if FDA does determine that there might be an emerging signal,
3414 that initial interaction with the company is really -- it
3415 should be part of the process, because the company may be
3416 able to provide additional information, which would then make
3417 that process more efficient and timely in the final
3418 determination that FDA will make.

3419 *Mr. Guthrie. Okay. I have one quick -- if I can get
3420 it in really quickly. So the -- Ms. Trunzo, the Breakthrough
3421 Device Program, we believe it has been innovative. And what
3422 improvements can we make to the path -- this pathway to
3423 incentivize further investments in emerging technologies?

3424 *Ms. Trunzo. Well, I think the breakthrough process has
3425 seen a lot of emphasis, most recently -- especially after the
3426 21st Century Cures Act, where the whole breakthrough process
3427 was well defined, there was a timeline built into the
3428 breakthrough designation process so that FDA had a specific
3429 time of 60 days to respond to requests for getting that
3430 breakthrough designation.

3431 And I think the investment in the Total Product Life
3432 Cycle Program that is part of MDUFA V, which will -- once
3433 that designation is made, and that sponsor participates in
3434 this program, there are -- will be significant resources to

3435 support the pre-submission process, such that when that final
3436 submission is made to FDA as a result of that investment of
3437 the additional resources to help the company through that
3438 process, that product will have a more efficient review and
3439 get into the hands of patients and health care providers.

3440 *Mr. Guthrie. Thanks. My time is expired. I
3441 appreciate the answers, and I yield back.

3442 *Ms. Eshoo. The gentleman yields back. You know, on
3443 this issue of shortages, it is not just in the -- on the
3444 pharmaceutical side. Lucile Packard Children's Hospital,
3445 right in the heart of my congressional district, reported to
3446 us that they have a heparin syringe shortage right now. So,
3447 you know, we have to look after all of this.

3448 And Dr. Shuren, you are here, and I know you are going
3449 to follow up on that. So thank you.

3450 All right, the chair now recognizes the gentleman from
3451 California, Mr. Cardenas, for your five minutes of questions.

3452 *Mr. Cardenas. Thank you. Thank you very much, Madam
3453 Chairwoman and Ranking Member, I really appreciate this
3454 opportunity to talk to this second esteemed panel.

3455 In your -- Dr. Kovacs, in your testimony you talk about
3456 the importance of the patient perspective, and share some
3457 stories from your own experience. Many times we talk about
3458 improving devices and therapies, and somewhere along the way
3459 the impact on real people can get lost.

3460 My first question for you is, how big of a difference
3461 can these devices make in a person's life?

3462 And when we talk about the expeditious approval of safe
3463 and effective devices, what does that actually look like for
3464 patients in their day-to-day lives?

3465 *Dr. Kovacs. Thank you for the question. These devices
3466 range from lifesaving devices in what I do in cardiology, to
3467 a life-altering devices: the difference between being able
3468 to work or not work, the difference to being able to be
3469 mobile or not mobile, the difference between being able to
3470 enjoy one's family or not. So these make huge differences.

3471 But the differences that they make to the patients, I
3472 would reemphasize, we should be asking the patients. What is
3473 the most important thing to the patient? What may be
3474 important to one patient in one situation may be different to
3475 another patient.

3476 This revolves around the whole science of patient-
3477 reported outcomes to the statistical analysis of these
3478 patient-reported outcomes, and to bringing these into part of
3479 the equation for designing the trials in the first place.

3480 So we need to -- and as we said, we need to diversify
3481 the number of the types of patients that are in these trials
3482 to understand the differences in patient desires for the
3483 outcomes that they are hoping for these novel therapies.

3484 *Mr. Cardenas. Thank you. You also note in your

3485 testimony the importance of emphasizing patient engagement in
3486 the medical device approval process. Among your
3487 recommendations to improve these processes, you advocate for
3488 "patient input to inform clinical study design," which would
3489 reduce barriers for diverse patient samples.

3490 How would you recommend the FDA receive and
3491 operationalize this kind of input?

3492 Can you explain what this would look like on the ground,
3493 from the patient perspective?

3494 *Dr. Kovacs. This would look like, first of all,
3495 engaging the patients, engaging that diverse patient
3496 population into the design of the studies, and the endpoints
3497 of the studies which determine the scientific rigor of the
3498 study.

3499 Is this -- this goes all the way back to the
3500 definitions. What is a patient-reported outcome? Is it
3501 meaningful to be able to walk from -- for 50 feet? Is it
3502 more meaningful to be able to walk for a mile? And those are
3503 nuanced, those required crisp data definitions, and they
3504 require careful analysis by the FDA, hopefully in conjunction
3505 with the patients and other experts.

3506 *Mr. Cardenas. Okay. So you are describing a
3507 collaboration of sorts, an understanding of what is going on
3508 with these studies, and getting feedback from the patient,
3509 and also FDA to be involved in that, as well?

3510 *Dr. Kovacs. Correct. I hang around with a lot of
3511 movement disorders neurologists who tell me that when they --
3512 and they use telemedicine, they want to observe these
3513 patients with Parkinson's disease, for example, in their
3514 environment. And what that therapy does to their ability to
3515 function in their daily life is what is important to that
3516 patient. Not necessarily a biomarker or a test result, but
3517 what the how the patient actually functions.

3518 *Mr. Cardenas. Well, thank you. In their own
3519 environment. Thank you very much.

3520 Why is it important to ensure patient input is elevated,
3521 and that diversity is a priority in the trial process?

3522 How much of an impact will this ultimately have on
3523 patient experience?

3524 *Dr. Kovacs. The patients that we want to apply these
3525 therapies to -- the patients in the trials that approved
3526 these devices should look like the patients that we intend
3527 them -- they intend them to.

3528 We have numerous examples of unintended consequences of
3529 not including the right types of patients in clinical trials
3530 to not understand whether a device is effective in a
3531 significant proportion of our population. Women, for
3532 example, respond differently to device therapy than men, and
3533 we need to understand that going forward.

3534 *Mr. Cardenas. Thank you very much. My time is

3535 expired.

3536 Thank you so much, Madam Chairwoman. I yield back.

3537 *Ms. Eshoo. The gentleman yields back. Thank you for
3538 participating in this part of our hearing today, Mr.
3539 Cardenas.

3540 The chair is -- oh, the chair is pleased to recognize
3541 the -- go to Dr. Joyce?

3542 Okay, back to you, Dr. Joyce. You are recognized for
3543 five minutes for your questions, the gentleman from
3544 Pennsylvania.

3545 *Mr. Joyce. Thank you, Madam Chair. Thank you,
3546 everyone, for being here at this hearing, which we recognize
3547 was originally convened at 9:00 this morning.

3548 During the first panel we heard from Dr. Shuren -- and
3549 Dr. Shuren, thank you for being here this afternoon, as well
3550 -- on this committee and proposed expansion of shortage
3551 reporting on medical devices beyond the context of the public
3552 health emergency. My question is first for Ms. Trunzo.

3553 Can you please comment on the burden that this proposal
3554 would place on device manufacturers, particularly the impact
3555 it may have on small manufacturers, as well as what
3556 manufacturers do already to ensure supply chain continuity?

3557 [Pause.]

3558 *Ms. Trunzo. I can start --

3559 *Mr. Joyce. Ms. Trunzo --

3560 *Ms. Trunzo. Yes, I can start with the latter. The --
3561 our -- the companies take great efforts in managing their
3562 supply chains. It is an art and a science to manage those
3563 supply chains to ensure that there is not a shortage.

3564 As far as the burden goes of what is [inaudible], it
3565 depends on what is asked to be reported on, what kinds of
3566 information is part of the reporting, and does it apply to
3567 all medical devices or just a subset of medical devices, and
3568 does it go beyond reporting, beyond the public health
3569 emergency, or in advance of the public health emergency. So
3570 the burden is variable, depending upon the extent to which
3571 the reporting is required.

3572 *Mr. Joyce. Well, specifically, beyond the context of
3573 the current public health emergency, would that add
3574 additional burdens?

3575 *Ms. Trunzo. We believe that it would. We support -- I
3576 will be very clear to you, first of all, that we are very
3577 much supportive of working with the committee on any kind of
3578 additional mandatory shortage reporting.

3579 But the way medical device manufacturers often -- there
3580 are multiple manufacturers for a specific device type. And
3581 so what might not be a disruption in the supply chain for one
3582 manufacturer doesn't necessarily mean that there are -- there
3583 is a shortage for that particular device type on [inaudible]
3584 entirety.

3585 Having shortage reporting be in place at all times for
3586 all medical devices could very much be burdensome to our
3587 industry.

3588 *Mr. Joyce. Thank you.

3589 Mr. Leahey, I am going to ask you to weigh in on this,
3590 particularly the impact on small manufacturers to ensure the
3591 supply chain is ready, the impact and the burden of this
3592 reporting.

3593 *Mr. Leahey. Thank you very much. Well, as Janet just
3594 said, you know, there are instances through the public health
3595 emergency where issues have arose.

3596 But I think it is important to recognize the difference
3597 between drugs and devices. For the overwhelming majority of
3598 medical devices, there are multiple companies selling
3599 competing devices, and that competition creates resiliency.
3600 And [inaudible] seen in global demand for devices [inaudible]
3601 respond to the pandemic created supply challenges, no doubt,
3602 early in the pandemic. But industry has responded.

3603 We think the CARES Act, which allows HHS and the FDA to
3604 collect shortage information in advance and during the public
3605 health emergency, is appropriate. But our members would have
3606 concerns about broad new authorities to collect supply chain
3607 information for hundreds of thousands of devices on the
3608 market at -- not at risk of supply chain disruption.

3609 *Mr. Joyce. And I would like to turn to Dr. Kovacs.

3610 Clinically, I practiced medicine for 25 years, and my
3611 decision to go into medicine was because, at the age of 6, I
3612 lost my 5-year-old brother after an atrial septal defect
3613 repair, something which is now done as an outpatient, which
3614 is done by interventional cardiologists, and these young
3615 people who have atrial septal defects have this and are,
3616 literally, sent home within hours from the procedure.

3617 What is the impact of the ability to advance the
3618 development of medical devices, and how do those medical
3619 devices impact you in your clinical practice?

3620 *Dr. Kovacs. The practice of cardiology -- and I am
3621 sorry to hear about you're your sibling, but the -- and Happy
3622 Doctors Day.

3623 *Mr. Joyce. Thank you, sir. Happy Doctors Day.

3624 *Dr. Kovacs. My specialty is one that is crucially
3625 dependent on this, and crucially dependent on innovation to
3626 advance this.

3627 As I mentioned two patients in my testimony, one who
3628 probably spent 10 days in the hospital recovering from
3629 cardiac surgery, one who went home without a scar within 48
3630 hours. That has ripple effects down the line entirely in
3631 hospital care, fewer hospital days, lower costs, less time in
3632 the hospital, less recovery time, less burden on the family
3633 to take care of a family member who has been incapacitated.
3634 The benefits go on and on.

3635 We need to continue to spur innovation. Cardiology is a
3636 particularly innovative sub-specialty, and we need to remove
3637 barriers to that innovation.

3638 *Mr. Joyce. I thank you for your answer.

3639 And Madam Speaker, my time has expired, and I yield.

3640 *Ms. Eshoo. The gentleman yields back. I may be the
3641 chairwoman, but I know I am not Speaker.

3642 [Laughter.]

3643 *Ms. Eshoo. But thank you for the elevation for three
3644 seconds.

3645 The chair is very pleased to recognize the ranking
3646 member of the full committee, Congresswoman McMorris Rodgers,
3647 five minutes for your questions.

3648 *Mrs. Rodgers. Thank you, Madam Chair.

3649 Ms. Trunzo, as medical device technology increasingly
3650 relies more on software updates and algorithm changes to
3651 improve performance, how can FDA ensure that patient safety
3652 is preserved, while also enabling these updates to be made in
3653 a timely manner?

3654 *Ms. Trunzo. Look, I think that -- I believe that one
3655 way in which that can be accomplished is with a pre-
3656 determined change protocol approach, where those medical
3657 device software medical devices are constantly being updated
3658 because of the nature of the device being a software base,
3659 that if there is a pre-determined change protocol in place,

3660 it ensures that the manufacturer's company will be able to do
3661 [inaudible] under a pre-approved protocol that FDA has
3662 pre-approved, and ensures the safety, and at the same time
3663 allows [inaudible] to be made in a safe manner. And I think
3664 that is the way to solve that problem.

3665 *Mrs. Rodgers. Thank you. As a -- I would also like to
3666 ask -- the FDA currently has limited authority to collect
3667 information on potential device shortages during or in
3668 advance of a public health emergency.

3669 Is the experience of your member companies -- or in the
3670 experience of your member companies, how has FDA used this
3671 data to prevent or mitigate shortages thus far?

3672 And that was for Ms. Trunzo and Mr. Leahey.

3673 *Ms. Trunzo. Well, so the way -- the information has
3674 been submitted to FDA as a result of the shortage reporting
3675 requirement during the public health emergency, and in
3676 advance of one.

3677 The way in which FDA uses that information is -- we are
3678 not exactly sure how FDA uses the information and what
3679 actions FDA takes with that information. Presumably, there
3680 is an analysis of it. And then, once the information is
3681 published, there is a list published on the FDA website that
3682 identifies where the shortages are, the information that
3683 continues to be presented to FDA, how they analyze that. And
3684 then, when the -- when that shortage no longer exists, and

3685 how they -- how FDA changes that shortage reporting list, I
3686 think is not well -- it is not well understood, from our
3687 perspective.

3688 *Mrs. Rodgers. Okay, okay, okay. Thank you.

3689 Mr. Leahey?

3690 *Mr. Leahey. I would echo what Janet said. Obviously,
3691 [inaudible] scope right now publicly available, but how that
3692 information is being analyzed, used to provide flexibility
3693 maybe for substitution in parts [inaudible] a shortage, I
3694 think that is an area where we don't have a lot of
3695 visibility, but FDA has been reaching out, I think, to
3696 industry with [inaudible] the group that is handling supply
3697 chain resiliency.

3698 So again, we are supportive of FDA having these
3699 conversations with industry, trying to work through these
3700 problems. But broad-based new authorities here are certainly
3701 of concern to our members.

3702 *Mrs. Rodgers. Okay. Are there -- as a follow-up, are
3703 there certain types of medical devices for which you think it
3704 would be helpful for FDA to collect this information?

3705 *Mr. Leahey. Again, I think the current list right now
3706 that exists related to products during a public health
3707 emergency -- you know, we know PPE, there were ventilator
3708 issues, other areas that likely could continue, and the
3709 Secretary, under the CARES authority, has the ability to

3710 continue this during a public health emergency or in advance
3711 of one.

3712 So I think the scope of the universe of products that
3713 FDA is looking at right now seems right size. If there are
3714 other, you know, targeted areas that we can have
3715 conversations around, I think we are open to that. But
3716 again, having something that is cascading that would, you
3717 know, apply to orthopedic implants and cardiovascular devices
3718 and everything across the sun just seems well beyond the
3719 scope of an efficient regulatory process.

3720 *Mrs. Rodgers. Ms. Trunzo, would you care to add
3721 anything?

3722 [Pause.]

3723 *Mrs. Rodgers. Maybe -- oh, is she muted?

3724 *Ms. Trunzo. I believe -- yes, I believe that the
3725 current list that FDA has published for purposes of reporting
3726 shortages during the public health emergency is a sufficient
3727 and good list.

3728 *Mrs. Rodgers. Okay, okay. Thank you.

3729 Thank you, Madam Chair. I yield back.

3730 *Ms. Eshoo. The gentlewoman yields back. I am not
3731 aware of any other members that are --

3732 *Mr. Guthrie. No, none --

3733 *Ms. Eshoo. Not on the Republican side and not on the
3734 Democratic side. So let me thank the witnesses of our second

3735 panel.

3736 Dr. Kovacs, thank you so much. You gave wonderful
3737 testimony, all through the lens of your patients, and telling
3738 their stories. So, you know, the way you presented, the way
3739 you addressed this overall issue was made very real by -- you
3740 personalized the testimony. We appreciate it very much, and
3741 also the patience of each one of you.

3742 So to Mr. Leahey, it is great to see you. Thank you for
3743 the work that you have done on this.

3744 To Ms. Trunzo, thank you for your testimony. Thank you
3745 for unmuting.

3746 And thank you to Ms. Wurzburger.

3747 You are all real pros. You know all of this, certainly
3748 in your lane, for whomever you are representing.

3749 But I think that, you know, the best thing that we
3750 learned today is that it was a combination of all, you know,
3751 the stakeholders, patients, the organizations that negotiated
3752 with FDA so that we can move this legislation forward.

3753 And also, we heard many things that were raised of what
3754 we have learned during the pandemic, and what we need to be
3755 really cognizant of as we move forward. That is very
3756 important, that we are wise enough to examine our
3757 shortcomings so that we -- another day, another time it won't
3758 be experienced again.

3759 So I have a request, unanimous consent, to enter the

3760 following document -- we only have one -- into the record.
3761 It is a letter from public interest and health care
3762 organizations.

3763 *Mr. Guthrie. No objection.

3764 *Ms. Eshoo. Okay, so without objection, so ordered.

3765 [The information follows:]

3766

3767 *****COMMITTEE INSERT*****

3768

3769 *Ms. Eshoo. And I think -- is there anything else that
3770 we need to include at the end of the hearing?

3771 Members do have 10 business days to submit additional
3772 questions for the record.

3773 So to the witnesses, please respond promptly if you
3774 receive questions from members.

3775 And at this time, the subcommittee is adjourned.

3776 [Whereupon, at 5:15 p.m., the subcommittee was
3777 adjourned.]