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HIF321140

EXAMINING THE REGULATION OF DIAGNOSTIC TESTS

AND LABORATORY OPERATIONS

TUESDAY, NOVEMBER 17, 2015

House of Representatives,

Subcommittee on Health,

Committee on Energy and Commerce,

Washington, D.C.

The subcommittee met, pursuant to call, at 10:00 a.m., in Room 2322, Rayburn House Office Building, Hon. Joe Pitts [chairman of the subcommittee] presiding.

Present: Representatives Pitts, Guthrie, Barton, Shimkus, Murphy, Burgess, Blackburn, Lance, Griffith, Bilirakis, Long, Ellmers, Bucshon, Brooks, Collins, Green, Capps, Butterfield, Castor, Schrader, Kennedy, Cardenas, and Pallone (ex officio).

Staff Present: Rebecca Card, Assistant Press Secretary; Carly McWilliams, Professional Staff Member, Health; Graham

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Pittman, Legislative Clerk; Heidi Stirrup, Health Policy Coordinator; John Stone, Counsel, Health; Christine Brennan, Press Secretary; Jeff Carroll, Staff Director; Tiffany Guarascio, Deputy Staff Director and Chief Health Advisor; Samantha Satchell, Policy Analyst; and Kimberlee Trzeciak, Health Policy Advisor.

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1 Mr. Pitts. The subcommittee will come to order. The chair
2 will recognize himself for an opening statement.

3 Throughout the 21st Century Cures initiative, biomarkers,
4 precision medicine, and targeted therapies were a few of the most
5 consistently uttered terms and concepts. In order to advance
6 each of them, we must establish a regulatory environment that
7 fosters the development of, and access to, innovative, accurate,
8 and reliable diagnostic testing. Such tests are increasingly
9 important not only in diagnosing the onset of a specific disease
10 or condition, but in determining the right course of treatment
11 or procedure.

12 It goes without saying that tests providing information to
13 a doctor or consumer are fundamentally different products than
14 traditional medical devices, which actually deliver therapy to,
15 or are implanted in, a patient. Nonetheless, while FDA has used
16 its medical device authorities to review and oversee tests
17 developed by outside entities that are then sold to laboratories,
18 the agency has not actively regulated laboratory-developed tests,
19 or LDTs.

20 Last year, a week after we held a roundtable downstairs that
21 highlighted the importance of this very topic, FDA announced that
22 it would no longer exercise such enforcement discretion and
23 detailed how the agency proposes to apply its medical device
24 authorities to LDTs.

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25 Today, I am far less interested in litigating the boundaries
26 of current FDA or CMS legal authority, but in hearing from our
27 witnesses how such authority could be clarified or improved,
28 understanding the unique and evolving nature of what is being
29 regulated and each agency's area of expertise.

30 Response to a white paper the committee circulated at the
31 end of last year asking these very questions, we heard from a
32 number of labs and pathologists that FDA should only have a limited
33 role, if any, in regulating a select set of tests as medical
34 devices. The rest, in their opinion, should be overseen by CMS
35 through an updated Clinical Laboratory Improvement Amendments
36 program. This is despite the fact that CMS has stated that they
37 do not have the resources, the expertise, or the willingness to
38 take on what is being asked of them. I am eager to hear what Dr.
39 Conway has to say on this matter.

40 We also received comments from a number of manufacturers,
41 as well as over 40 patient groups, that FDA, not CMS, needs to
42 be in the driver's seat, and that tests that have the same impact
43 on a patient should be held to the same standards, regardless of
44 who does the development. This is despite the fact that
45 laboratories are uniquely nimble environments where pathologists
46 continually modify and improve tests in ways that manufacturers
47 cannot.

48 I am well aware that this has been at times a heated debate

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49 with passionate advocates on both sides. With such a backdrop,
50 I want to particularly commend the manufacturers, the
51 laboratories, and other health care institutions that have been
52 willing to roll up their sleeves and find as much common ground
53 as possible through constructive dialogue, a willingness to
54 compromise, and a pragmatic understanding of what a viable, modern
55 framework entails.

56 I do not believe that imposing a new regulatory reality on
57 an increasingly important component of our health care system via
58 guidance is the best way to address these issues. These products
59 warrant a regulatory system designed with them in mind. They
60 should not be shoehorned into a system that was drafted in the
61 1970s.

62 This committee has clearly shown that we are willing and able
63 to move complicated, comprehensive, bipartisan legislation. The
64 discussion draft the committee circulated, along with the hearing
65 notice, is of course not perfect, but it is a serious document
66 based on significant consensus, and I would ask that all of the
67 stakeholders out there, including our two distinguished
68 witnesses, help us improve it as the process continues.

69 With that, I would like to thank Dr. Shuren, a frequent,
70 always welcome visitor, as well as Dr. Conway, for their
71 willingness to testify today, and I look forward to working with
72 them on these issues going forward.

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73 Mr. Pitts. And I now recognize the ranking member, Mr.
74 Green, 5 minutes for his opening statement.

75 Mr. Green. Thank you, Mr. Chairman, and thank you for
76 calling this hearing today, and I want to welcome our witnesses
77 from the FDA and the CMS.

78 The role of diagnostic tests in our health care system has
79 changed dramatically since Congress passed the medical device
80 amendments in 1976 and added in vitro diagnostics to the device
81 definition. It has been almost 4 decades, and the evolution of
82 modern medicine and the advancement of science has surpassed what
83 everyone could imagine at the time. The enthusiasm around
84 precision medicine is high, and the potential of diagnostics to
85 further transform the treatment of disease is limitless.

86 When the FDA first began regulating medical devices,
87 applicable regulatory requirements for lab-developed tests, or
88 LDTs, were not enforced because they were relatively simple tests,
89 generally combined the local labs, and frequently used for rare
90 conditions.

91 Today, LDTs have increased in complexity and availability.
92 They are often used to diagnose serious medical conditions, and
93 many have major impact on patient care. Not only have LDTs become
94 sophisticated, the role that these tests play in delivery of
95 health care has expanded.

96 The Centers for Disease Control and Prevention estimated

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97 that approximately 6.8 billion laboratory tests are administered
98 each year. An analysis found that results from the clinical
99 laboratory tests influence about 70 percent of health care
100 decisions.

101 The clinical laboratory amendments of 1988 created minimum
102 standards of quality for all clinical labs in the country. The
103 Centers for Medicare and Medicaid Services, CMS, has jurisdiction
104 over the program, and CLIA has successfully improved the quality
105 of the clinical labs in accuracy of testing for nearly 25 years.

106 However, under CLIA CMS does not confirm the clinical
107 validation of LDTs, meaning that they do not look as to whether
108 it is a particular test accurately that identifies, measures, or
109 predicts the absence or the presence of a clinical condition.
110 These known gaps in oversight have been a source of concern to
111 this committee and to the health care community at large.

112 Yesterday, the Food and Drug Administration released a
113 report that included 20 case studies of problematic tests from
114 labs that were following the minimum requirements of CLIA but
115 proposed real risk to patients. In an area of so much promise
116 and significance to patient care, the accuracy, reliability, and
117 clinical meaningfulness of all diagnostic tests, regardless of
118 where they are created, must be a top priority for health care
119 providers, test developers, regulators, and lawmakers.

120 Last year, the FDA issued a draft regulatory framework to

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121 phase in enforcement regulatory requirements, including
122 premarket review, adverse event reporting for LDTs that pose
123 greater risk to patients if their results are not accurate and
124 reliable. And I appreciate FDA's efforts to ensure that tests
125 are supported by rigorous evidence and that patients and health
126 care providers can have confidence in their results.

127 That said, I share the opinion of my colleagues that
128 legislation is both appropriate and necessary to modernize
129 clinical laboratory diagnostic oversight. The legislative
130 solution is surely the surest way to establish a framework that
131 will be embraced by stakeholders, avoid litigation, extended
132 uncertainty, and foster innovation of new clinical diagnostic
133 tests.

134 The FDA's approach to this draft guidance led to a number
135 of important questions, but the guidance documents also spurred
136 a larger conversation about the overarching need to modernize
137 oversight of these unique and increasingly important tests.

138 During the 21st Century Cures initiative, as part of the
139 broad effort to close the gap between science of cures and how
140 we regulate medical products, the committee hosted a roundtable
141 on precision medicine and advances in diagnostic testing. The
142 committee also released a white paper on diagnostic test
143 regulation and received outpouring of feedback from stakeholders.

144 While all parties did not agree on all the principles, much

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145 less specifics, it was abundantly clear that any regulatory
146 framework for diagnostic tests must prioritize patient benefit
147 and allow for continued innovation and investment through
148 regulatory certainty and appropriate regulatory controls.

149 There is urgent need to establish clear and logical lines
150 separating the practice of medicine and the actual conduct of the
151 diagnostic tests and the development and manufacturing of
152 diagnostic tests so that the promise of 21st century medicine can
153 be fully realized.

154 Today, we will hear from FDA and CMS about each agency's
155 respective role in the oversight and regulation of clinical
156 laboratory tests. Members of the committee will have questions
157 about the appropriate role of each agency and any updated
158 framework, and how Congress can best promote robust investment
159 and innovation while protecting patient safety.

160 Mr. Chairman, I look forward to hearing from our witnesses,
161 and I yield back. Mr. Pitts. The chair thanks the gentleman,
162 now recognizes Dr. Burgess in lieu of Chairman Upton, 5 minutes.

163 Mr. Burgess. Thank you, Mr. Chairman.

164 I appreciate the opportunity that we have before us with this
165 hearing, but I do want to say at the outset, with everything else
166 that is going on, this may be one of the most important and at
167 the same time the most frightening concepts that is before the
168 Congress right now. We are talking about a proposal that may not

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169 just stifle but eliminate medical innovation, something which
170 this country has excelled for decades, and we are also opening
171 the door for the first Federal regulation of the practice of
172 medicine, not the needles and IV solutions, the actual diagnostic
173 thought processes that go in to practicing medicine.

174 Let me just say at the outset I do strongly believe in the
175 potential of genomic medicine. I understand how important it is
176 to really understand illness at a molecular level, quickly
177 diagnose it, and get the treatment that is appropriate for the
178 patient with a minimal amount of side effects.

179 A year-and-a-half ago when the President talked about
180 precision medicine during his State of the Union address, I
181 thought that was a very positive development. There are not many
182 places where the White House and I agree on anything, but here
183 was some common ground, and I took it to heart.

184 Laboratory testing produces the informational building
185 blocks that are at the heart of precision medicine. As former
186 Administrator Mark McClellan at CMS said, we have got to get the
187 right treatment at the right time to the right patient.

188 We are not talking about test kits that are put in a box and
189 shipped across State lines but medical procedures that are carried
190 out by highly trained and qualified health professionals engaged
191 in the practice of medicine.

192 As we discuss the oversight of laboratory-developed tests,

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193 it is crucial that we do not slow innovation or create unnecessary
194 regulatory hurdles. We have got to ask ourselves first, what is
195 the problem that we are trying to solve, and is our response
196 appropriate, and are there unintended consequences that could
197 result?

198 Requiring premarket review by the FDA will impose new and
199 arguably unnecessary requirements and costs on clinical
200 laboratories, hospitals, and doctors. Although an additional
201 review of certain tests may be warranted, I actually have a greater
202 confidence in a CLIA-centric approach, but there are others--and
203 certainly people on this committee--who suggested a different
204 track. But it remains unclear to me how we can separate the
205 practice of medicine from these laboratory processes, and if we
206 cannot, are we effectively opening the door to the Federal
207 regulation of the practice of medicine? I reject that notion and
208 believe by segmenting this process out has to be the fundamental
209 first step of any proposal.

210 Let me just reiterate I do want to be involved in this
211 discussion. There is no question in my mind that CLIA can be
212 improved. I was not a fan when CLIA came to my medical practice
213 in 1988. I was not a fan of having to become a CLIA-certified
214 location. I was not a fan of having to apply for a CLIA waiver.
215 But since that time, I think arguably you can make the case that
216 CLIA has been a useful enterprise.

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217 Look, we want doctors and patients to benefit from clinically
218 valid tests, and the current FDA proposal, as such, creates
219 regulatory uncertainty that will not be a catalyst for innovation.

220 We talk a lot about the Administrative Procedures Act, we
221 talk a lot about notice of proposed rulemaking. This is not
222 coming through the normal regulatory process. It is coming as
223 a guidance. My understanding is to be issued at the end of this
224 year, and like it or not, there you have it.

225 But, you know, it is hard. On this committee I still retain
226 that romantic notion that our government exists with the consent
227 of the governed. In my mind that would not include issuing
228 guidances, fiats that are expected to be followed, but rather,
229 you go through the normal administrative procedures, hear people
230 out, and make the best decision based on the information.

231 Thank you, Mr. Chairman. I yield back the balance of my
232 time.

233 Mr. Pitts. The chair thanks the gentleman.

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

236 Mr. Pallone. Thank you, Mr. Chairman. I want to also thank
237 Dr. Shuren and Dr. Conway for being here today to discuss the
238 regulation of lab-developed tests.

239 There has been a lot of discussion over how to appropriately
240 oversee lab-developed tests, and it is important that, as the

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241 committee considers this issue, we have a better understanding
242 of the strengths and limitations of both FDA and CMS's authority
243 in this area.

244 Congress gave FDA authority over lab-developed tests under
245 the Medical Device Amendments in 1976, and at that time, most LDTs
246 were relatively simple tests used more often for rare conditions.
247 Since then, advances in technology and medicine have resulted in
248 LDTs that are increasingly more complex, more readily available
249 to physicians and patients, and used to diagnose and treat a wider
250 range of diseases, including breast cancer and heart disease.
251 LDTs are also increasingly used to provide personalized treatment
252 such as through genetic tests that help physicians to detect the
253 risk of certain diseases earlier or to choose more targeted
254 therapies.

255 Unfortunately, many of these tests have not been reviewed
256 or cleared by FDA prior to coming to the market to confirm that
257 these tests are accurate, reliable, or provide clinically
258 accurate results. This can result in patients going undiagnosed
259 with certain medical conditions or undergoing treatment that is
260 not medically necessary.

261 For example, tests have been developed to identify certain
262 gene sequences that can help determine appropriate treatment for
263 ovarian cancer. I am sure many members here are familiar with
264 the example of OvaSure, which claimed to detect early-stage

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265 ovarian cancer in high-risk women. This test, though, was not
266 properly validated and was found to provide high numbers of false
267 positive and false negative results, and this means many women
268 who received a false positive result may have undergone
269 unnecessary surgery to remove healthy ovaries, or some women may
270 have gone undiagnosed after receiving a false-negative result.

271 Patients deserve to know that the test results they are
272 relying on to diagnose or treat a condition is accurate, a comfort
273 that they do not always have today. And as we have heard from
274 many organizations, patients and their physicians should be able
275 to trust the results of their tests, regardless of how or where
276 a test is developed or performed. It does not make sense to
277 regulate tests differently based on who develops them.

278 I also believe that we can provide patients and providers
279 with this certainty without endangering or inhibiting the medical
280 innovation that is occurring today. Scientific progress has been
281 made to help facilitate the development and use of personalized
282 medicine, which you all agree is the future of medicine, but this
283 development can only be successful if we know that these complex,
284 sophisticated tests are clinically valid.

285 So I am glad that today we will have the opportunity to better
286 understand FDA and CMS's authority in this area and hear their
287 perspective on what regulatory changes, if any, are needed to
288 address the future development of lab-developed tests. And I

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289 hope moving forward that both agencies will work with the
290 committee on the discussion draft circulated today to ensure that
291 any legislation that moves forward will ensure that LDTs are
292 accurate, reliable, and safe for patients.

293 I yield back.

294 Mr. Pitts. The chair thanks the gentleman.

295 As usual, all the written opening statements of the members
296 will be made part of the record.

297 That concludes the opening statements.

298 I would like to submit under U.C. request the following
299 documents for the record: a November 16 letter from a number of
300 organizations and laboratory directors, and a November 11 letter
301 from organizations representing patients, advocates, caregivers,
302 and health care professionals.

303 Without objection, so ordered.

304 [The information follows:]

305

306 ***** COMMITTEE INSERT *****

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307 Mr. Pitts. On our panel today we have two witnesses, and
308 I welcome them, thank them for coming. First, Dr. Jeffrey Shuren,
309 Director, Centers for Devices and Radiological Health, Food and
310 Drug Administration, Department of Health and Human Services; and
311 Dr. Patrick Conway, Deputy Administrator for Innovation and
312 Quality, and Chief Medical Officer, Office of the Administrator,
313 Centers for Medicare and Medicaid Services, Department of Health
314 and Human Services.

315 Thank you for coming. Your written testimony will be made
316 part of the record. You will each be given 5 minutes to summarize.

317 Dr. Shuren, you are recognized for 5 minutes for a summary.

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318 STATEMENTS OF JEFFREY SHUREN, DIRECTOR, CENTERS FOR DEVICES AND
319 RADIOLOGICAL HEALTH, FOOD AND DRUG ADMINISTRATION, DEPARTMENT OF
320 HEALTH AND HUMAN SERVICES; AND PATRICK CONWAY, DEPUTY
321 ADMINISTRATOR FOR INNOVATION AND QUALITY, AND CHIEF MEDICAL
322 OFFICER, OFFICE OF THE ADMINISTRATOR, CENTERS FOR MEDICARE AND
323 MEDICAID SERVICES, DEPARTMENT OF HEALTH AND HUMAN SERVICES
324

325 STATEMENT OF JEFFREY SHUREN

326 Dr. Shuren. Well, thank you, Chairman Pitts, Ranking Member
327 Green, members of the subcommittee. Thank you for the
328 opportunity to testify today.

329 We are excited about scientific developments in genomics and
330 molecular biology that are leading to advances in health care,
331 particularly in precision medicine. Getting the right treatment
332 to the right patient at the right time, though, depends upon having
333 accurate, reliable, and clinically valid tests. If not, we give
334 the wrong treatment or we give no treatment, and patients get hurt.

335 FDA has been regulating in vitro diagnostics for almost 4
336 decades, and when such a test is made by a laboratory, we call
337 it a laboratory-developed test, or LDT. And the law doesn't
338 distinguish on who makes it. We regulate the test regardless of
339 who makes that test. And we ensure that those tests are
340 analytically and clinically valid.

341 Now, when we first started regulating IVDs, as a matter of

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342 policy, we decided not to actively enforce existing requirements
343 on LDTs because at the time they were generally simple, low-risk
344 tests used on uncommon conditions in often a local setting,
345 typically in a hospital for patients in that hospital. But over
346 time they have come increasingly more complex, higher risk, they
347 are used on common conditions like heart disease, and they may
348 be offered on a national basis. In addition, we have been coming
349 across increasing examples of problematic LDTs. We put out
350 examples of 20 of them just yesterday, and there are others.

351 As a result of this, the problems we have seen and the
352 increasing complexity, there have been calls on the FDA to
353 actively enforce existing requirements that started in the 1990s,
354 NIH and the Department of Energy. In the 2000s two advisory
355 committees to the Secretary of Health and Human Services called
356 on us to regulate. The Institute of Medicine has asked us to
357 regulate.

358 So in 2007 we put out draft policy to begin to actively
359 regulate a subset of LDTs, and what the lab community said is don't
360 pick off tests one by one. Please put in place an overarching
361 framework. So in 2010 we had a public meeting to get input, and
362 we were told put in place a risk-based phased-in approach.

363 And then in response in October of last year we did just that.
364 We put out draft policy to now put in place that framework. And
365 what we heard from the lab community then, oh, no, there are no

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366 problems with LDTs. We don't need FDA oversight of anything,
367 maybe a little beefing up on CLIA but that is it.

368 And now, just a few months ago, we started to see several
369 proposals come out from the lab community that now, for the first
370 time, acknowledge that LDTs must demonstrate that they are
371 analytically valid and clinically valid, that they should be
372 subject to premarket review, at least moderate- and high-risk
373 tests, the some modifications need to be subject to premarket
374 review, that certain problems need to be reported to the
375 government, and they need to be under a risk-based approach with
376 a three-tier risk classification system. None of those are
377 currently enforced on them today. They all exist under an FDA
378 framework.

379 But what most of these proposals except one would do is it
380 would create a duplicative program under CMS and a bifurcated
381 system, leading to more inefficiencies, higher costs, and still
382 putting patients unnecessarily at risk. For example, you can
383 have a conventional manufacturer who makes an IVD we regulated.
384 Now, a laboratory makes a big enough change to it, which
385 laboratories do, and it is regulated by CLIA. Then the original
386 manufacturer makes a change to that test and it bounces back to
387 the FDA. So we will be stuck in a game of regulatory ping-pong,
388 and the real loser here is patients.

389 Doctors and patients don't care about who makes a test. They

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390 do care that their tests are accurate, reliable, and clinically
391 valid.

392 Now, some labs have already been working with us, and we
393 congratulate them for crossing that picket line. But our message
394 in our invitation to the rest of the lab community is to put down
395 the swords, that for the sake of our patients it is time to end
396 the saber-rattling and instead partner with us moving forward.

397 Thank you.

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

399

400 ***** INSERT *****

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401

Mr. Pitts. The chair thanks the gentleman, now recognizes

402

Dr. Conway, 5 minutes for his summary.

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403 STATEMENT OF PATRICK CONWAY

404

405 Dr. Conway. Thank you, Chairman Pitts, Ranking Member
406 Green, and members of the committee. Thank you for the
407 opportunity to talk about our work at the Centers for Medicare
408 and Medicaid Services related to ensuring accurate and reliable
409 laboratory testing.

410 The Clinical Laboratory Improvement Amendments of 1988,
411 commonly referred to as CLIA, of which CMS has primary
412 jurisdiction, created minimum standards of quality for all
413 clinical laboratories in the United States. CLIA successfully
414 worked for approximately 25 years and has contributed to major
415 improvements in the quality of clinical laboratories, promoted
416 accurate testing, and improved patient safety.

417 As of July of 2015 there were roughly 250,000 laboratories
418 that have registered with CMS and held CLIA certificates. CLIA
419 responsibilities are divided between three agencies: CMS; the
420 Centers for Disease Control, or CDC; and the Food and Drug
421 Administration. CMS conducts laboratory inspections to make
422 sure that laboratories have appropriate controls, expertise,
423 training, and procedures to ensure that tests are accurate and
424 reliable. CMS also approves accreditation organizations and
425 manages the laboratory certification process. CDC conducts
426 laboratory quality improvement studies that guide policy

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427 determination and development of laboratory practice guidelines.

428 FDA's primary responsibility under CLIA is to classify
429 clinical tests into one of three categories--waived, moderate
430 complexity, and high complexity--based on their level of
431 complexity and risk to patients. FDA also has a critical role
432 in determining clinical validity of tests and premarket
433 evaluation. Standards that laboratories must meet under CLIA are
434 based on the complexity of the tests they perform. Laboratories
435 that perform more complex must meet higher standards.

436 Laboratories that perform moderate- and high-complexity
437 tests must meet requirements on quality assessment, quality
438 control, personnel qualifications and education, general
439 laboratory systems, and proficiency testing, among others.
440 Laboratories that only perform waived tests, simpler tests that
441 pose a low risk to patients, are exempt from most CLIA
442 requirements. In addition, laboratories performing the same
443 tests must meet the same standards, whether located in a hospital,
444 doctor's office, or other site.

445 This framework is designed to reduce the risk of potential
446 harm and ensure patients receive the same high-quality clinical
447 laboratory testing no matter where the test is performed.

448 CLIA's provisions apply to all laboratories in the U.S., not
449 just those that receive Medicare payment in order to ensure
450 uniform quality across all laboratories.

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451 CMS enforces CLIA standards by requiring laboratories to
452 obtain certificates in order to operate. CMS conducts onsite
453 surveys prior to issuing a certificate to a lab that performs
454 high- or moderately-complex tests. Labs are resurveyed every 2
455 years, and the surveys also assist laboratories in improving
456 patient care through education.

457 Laboratories may also receive CLIA certification by
458 obtaining accreditation from one of the seven private nonprofit
459 accreditation organizations approved by CMS. To receive CMS
460 approval, the accreditation organization requirements must meet
461 or exceed CLIA's requirements.

462 Moving forward, we believe CLIA and our implementing
463 regulations create the necessary framework to effectively oversee
464 laboratories day-to-day operations and into the future, including
465 those operations that pertain to the use of laboratory-developed
466 tests and other high-complexity tests. We have several
467 principles that have helped guide our work in CLIA, which may also
468 be useful when informing future efforts of this committee.

469 First, we aim to prevent duplicative oversight efforts
470 across agencies. CLIA requires coordination across CMS, FDA, and
471 CDC. We have worked to ensure our oversight efforts are
472 consistent and complementary and not duplicative. In doing so,
473 we have ensured that we take advantage of the unique expertise
474 of each agency and its staff.

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475 Second, we focus on our agency's oversight strengths. When
476 CLIA was implemented in the early 1990s, the responsibility to
477 conduct certifications of laboratories was a natural fit for CMS
478 because of our survey and certification experience. On the other
479 hand, CMS does not have scientific staff capable of reviewing
480 complex medical and scientific literature in determining clinical
481 validity. This expertise resides within the FDA, which assesses
482 clinical validity in the context of premarket reviews and other
483 activities aligned with their regulatory efforts under the Food,
484 Drug, and Cosmetic Act.

485 Third, we value our relationship with our private accreditor
486 organizations and State-based partners. These organizations
487 play an important role in evaluating and certifying laboratories.

488 Fourth, we take targeted, risk-based approaches to oversight
489 to improve patient safety without creating burdensome
490 administrative requirements. We believe the current approach in
491 which laboratories must meet higher standards if they are to
492 perform more complex tests has paid dividends in improving the
493 quality of the testing process.

494 Finally, as a practicing physician who works clinically on
495 weekends, I know the importance of tests being assessed for
496 clinical validity, as well as the need for assessment for
497 laboratory standards. FDA and CMS can work together utilizing
498 their respective authorities and strengths to assess premarket

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499 clinical validity and laboratory standards respectively.

500 Thank you again for the opportunity to discuss CMS's work
501 related to ensuring accurate and reliable laboratory testing. I
502 look forward to your questions. Thank you.

503 [The prepared statement of Dr. Conway follows:]

504

505 ***** INSERT *****

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506 Mr. Pitts. The chair thanks the gentleman, both witnesses
507 for your opening statements. I will begin the questioning. I
508 will recognize myself 5 minutes for that purpose.

509 The discussion draft, which the committee circulated before
510 the hearing, divides FDA and CMS responsibilities based upon the
511 type of activity being conducted by the regulated entity. FDA
512 would regulate test development activities in a risk-based
513 manner, and CMS would regulate lab operations.

514 Unlike the discussion draft, some alternative proposals
515 being floated would divide regulatory oversight between CMS and
516 FDA depending on the type of test.

517 I would like each of you to respond. Dr. Shuren, would you
518 comment on the implications of an approach that would divide
519 oversight between CMS and FDA based on the type of test, as opposed
520 to the type of activity?

521 Dr. Shuren. So such a system is going to lead to
522 inefficiencies. It is going to lead to inconsistent standards,
523 treating the same kind of test differently depending upon who
524 makes the test. And as a result, you can go to one institution,
525 get a test, and it is regulated by FDA. You can get the same kind
526 of test across the street and it is regulated by CMS. And the
527 people who are put at risk, it is patients.

528 If we are going to assure that tests work, we need one unified
529 system that we are applying consistent standards and we are

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530 assuring that those tests are accurate, reliable, and clinically
531 valid.

532 Mr. Pitts. Dr. Conway, would you comment on that, the
533 implications of an approach that divides oversight between CMS
534 and FDA based on the type of test, as opposed to the type of
535 activity?

536 Dr. Conway. Yes, I agree with Dr. Shuren. The concern here
537 is we want to reduce and avoid duplication and ensure coordination
538 across agencies. You know, from a CLIA construct we really are
539 focused on post-market review, laboratory by laboratory, and we
540 are really focused on the things such as the protocols in place
541 in the laboratory, the equipment and equipment maintenance, the
542 training of staff and personnel. So CLIA's focus really is on
543 that laboratory-by-laboratory assessment of quality standards.

544 Mr. Pitts. And expand a little bit more on whether such an
545 approach would create administrative duplication or any
546 inconsistencies, Dr. Shuren?

547 Dr. Shuren. That is correct. It will create
548 inefficiencies and higher costs because essentially we have
549 duplicative systems in FDA and CMS, and the real distinction is
550 just simply who makes the test, which doesn't make sense. And
551 we will have inconsistent standards. We can try to coordinate
552 between ourselves, but quite frankly, that becomes much more
553 challenging as tests also begin to bounce between FDA oversight

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554 and CMS oversight.

555 Mr. Pitts. Okay. Dr. Conway, you stated in your testimony
556 that "CMS does not have a scientific staff capable of determining
557 whether a test is difficult to successfully carry out or likely
558 to prove detrimental to a patient if carried out improperly. This
559 expertise resides within the FDA.@ From your perspective at CMS,
560 what would be the impact on patients if FDA were precluded from
561 reviewing the clinical validity of most LDTs?

562 Dr. Conway. Yes. So as Dr. Shuren mentioned, I think the
563 challenge is if FDA is not reviewing the test in a premarket manner
564 for clinical validity, then our surveyors in CLIA are not
565 assessing clinical validity. They are assessing laboratory
566 practices and the protocols and standards in those laboratories.
567 So as a practicing physician, it is critical, as Dr. Shuren said,
568 that we know that a test is clinically valid, meaning it is truly
569 detecting the presence or absence of disease. Therefore, the
570 premarket review by FDA is important.

571 Mr. Pitts. Now, some stakeholders have said that CMS should
572 be tasked with reviewing tests for clinical validity. What are
573 your thoughts on that approach?

574 Dr. Conway. So our survey staff are not trained to assess
575 clinical validity, and then let me build on that. Our survey
576 staff are trained in laboratory protocols, equipment, standards
577 around those protocols, whereas--and Dr. Shuren can certainly

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578 speak directly to FDA's staff--is, you know, physicians, Ph.D.'s,
579 biostatisticians who are trained in assessing the scientific
580 literature in its entirety and assessing clinical validity.

581 Mr. Pitts. Now, some stakeholders have suggested that CMS
582 should regulate tests developed by labs. FDA should regulate
583 tests developed by manufacturers. Some have proposed carving out
584 a role for FDA only when a test developer chooses not to publicize
585 their methodologies. Shouldn't the test's impact on the patient,
586 regardless of who developed it, be the primary factor in
587 developing a regulatory framework? Dr. Shuren and then Dr.
588 Conway.

589 Dr. Shuren. Well, we agree that this should be a risk-based
590 framework. We also think that you should have one agency that
591 is reviewing those tests to assure that they are accurate,
592 reliable, and clinically valid. That assures consistency.

593 But also, one of the things we have found is when someone
594 makes a test, another lab or another entity makes a similar test,
595 we learn from that, and we sometimes identify problems or common
596 problems and we are able to feed that back to test developers.
597 If you split it between two agencies, we are going to lose all
598 that learning that ultimately benefits innovation and benefits
599 patients.

600 Mr. Pitts. Dr. Conway, do you want to comment?

601 Dr. Conway. So I agree with Dr. Shuren. I believe one

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602 agency doing the premarket review, as Dr. Shuren said, and that
603 agency being FDA, makes sense given the training and expertise.
604 We also, as you have heard, have a principle of coordination and
605 using each agency's expertise. CMS's focus and expertise is in
606 the area of laboratory assessment, laboratory by laboratory, on
607 protocols, equipment, et cetera.

608 Mr. Pitts. My time is expired. The chair recognizes the
609 ranking member, Mr. Green, 5 minutes for questions.

610 Mr. Green. Thank you, Mr. Chairman.

611 I would like to ask unanimous consent to submit a letter from
612 the American Cancer Society Cancer Action Network for the record.

613 Mr. Pitts. Without objection, so ordered.

614 [The information follows:]

615

616 ***** COMMITTEE INSERT *****

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617 Mr. Green. Dr. Shuren, with other medical devices, FDA has
618 proposed regulating lab-developed tests based on the risk of the
619 test to the patient and the public. Under proposed FDA would
620 classify LDTs into three risk classes: low, moderate, and high.
621 Can you explain how FDA proposes to finding the low, moderate,
622 and high risk in the agency's framework describing how premarket
623 or post-market requirements would vary among these risk classes?

624 Dr. Shuren. So we look at risk based upon what the risk is
625 to patients if that test provides a false result, an incorrect
626 result. And we estimate that for low-risk tests we do not conduct
627 premarket review because they are so low risk. We think about
628 50 percent of the tests out there--that has been our
629 experience--are low risk. And then we conduct premarket review
630 for high-risk and moderate-risk tests. High-risk tests are only
631 about 1 to 2 percent of the tests out there, moderate risk about
632 48 percent.

633 And the data needed to demonstrate analytical and clinical
634 validity differs depending upon the risk of the disease. There
635 is less burden involved when it is a less-riskier test rather that
636 we are reviewing, and that is the risk-based approach that we
637 apply.

638 Mr. Green. FDA's approval standard for drugs and medical
639 devices safe and effective, can you just please discuss the
640 approval standard FDA has proposed using for the regulation of

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641 lab-developed tests?

642 Dr. Shuren. So we would apply the same standard we would
643 apply to in vitro diagnostic tests that are not made by a lab,
644 that they are analytically valid, they are clinically valid, and
645 they are safe to use under their conditions to use. That means
646 they are accurate on what they measure, they are reliable, and
647 they will identify they in fact do identify a disease.

648 Mr. Green. Companion diagnostics is an area of great
649 interest and enthusiasm. Can you talk about how the FDA views
650 this category of tests, in particular the level of risk posed to
651 patients and how they would be treated under the proposed
652 guidance?

653 Dr. Shuren. So companion diagnostics are increasingly
654 playing a bigger role in health care. Essentially, companion
655 diagnostic is a test where the safety and effectiveness of the
656 therapeutic depends upon the diagnostic because the diagnostic
657 informs whether or not that patient should receive a particular
658 treatment. And that is why it is critically important that those
659 tests truly work, because if not, then patients are not getting
660 the right treatment or they may be getting no treatment at all.

661 For example, we had a test for providing treatment for women
662 with breast cancer and found that LDTs in the past were producing
663 as much as 20 percent of them incorrect or inaccurate results.
664 That means that women who should have gotten treated with the right

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665 treatment were not. And that is preventable.

666 Mr. Green. Okay. Thank you. Dr. Conway, I want to thank
667 you also for participating. As you are aware, following the
668 release of the FDA's guidance on enforcing requirements for
669 lab-developed tests, a number of stakeholders called for
670 enhancement of CLIA as a more appropriate way to regulate the
671 tests. And I appreciate your testimony on outlining the
672 difference between FDA and CMS authority over the tests.

673 One of the key differences is the fact that under CLIA CMS
674 does not review a test for the clinical validity, that is, accuracy
675 on which the test identifies measures or predicts the presence
676 and absence of a clinical condition or predisposition to a
677 patient. Rather, CMS reviews look at analytical validity. You
678 noted that the experience and expertise in assessed clinical
679 validity resides instead with the FDA.

680 Despite CMS stating on more than one occasion that the agency
681 does not have the experience or the scientific expertise to assess
682 clinical validity in premarket review, many stakeholders continue
683 to advocate for additional authority in that area for CMS. Can
684 you please discuss further CMS capabilities in implementing
685 regulations for overseeing LDTs, and can you also please comment
686 on whether CMS would have the capability of conducting any type
687 of premarket review or regulatory review of LDTs?

688 Dr. Conway. Yes. So our framework that we believe is

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689 working well now is CLIA is focused on assessment of the protocols,
690 the standards, the equipment, the training, and the personnel.
691 Even in analytic validity, we are simply looking at, you know,
692 does the lab test detect the analyte described? That is very
693 different than clinical validity, which is assessing whether, you
694 know, the test reliably and accurately detects the presence or
695 absence of disease, as Dr. Shuren said.

696 You know, the majority of our staff are--you know, we have
697 got approximately 25 people in the central office running CLIA,
698 a little over 100 surveyors across the States, all of the States.
699 They are generally medical technologists, former laboratory
700 personnel trained to assess laboratory by laboratory. They are
701 not trained to assess premarket scientific literature and
702 determine clinical validity.

703 Mr. Green. Okay. Thank you, Mr. Chairman.

704 Mr. Pitts. The chair thanks the gentleman and now
705 recognizes the vice chair of the full committee, Mrs. Blackburn,
706 5 minutes for an opening statement.

707 Mrs. Blackburn. Thank you, Mr. Chairman.

708 Dr. Shuren, looking at the LDT guidance, do you plan to
709 finalize that guidance that you issued last year? Do you plan
710 to finalize that this year?

711 Dr. Shuren. Yes, we do plan to finalize that.

712 Mrs. Blackburn. Okay. When?

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713 Dr. Shuren. In 2016.

714 Mrs. Blackburn. Okay. So basically you are going to put
715 it off another year?

716 Dr. Shuren. I don't get to determine when, but the plan is
717 to put it out in 2016.

718 Mrs. Blackburn. In 2016. Early or late?

719 Dr. Shuren. Hopefully earlier than later.

720 Mrs. Blackburn. Okay.

721 Dr. Shuren. I wish I could give you an answer. Again, it
722 is so far above my pay grade. I don't even know the people who
723 make the decisions.

724 Mrs. Blackburn. Well, my goodness, we need to have a
725 meet-and-greet over at the FDA and see if we can't get some wheels
726 turning over there. We should help with that.

727 Let me ask you this. As you finalize that guidance, do you
728 intend to use what I think is the outdated 1970s definition of
729 a medical device in order to regulate the LDTs? Dr. Shuren.
730 Well, so that definition also includes a distinct definition for
731 in vitro diagnostics, which then incorporates
732 laboratory-developed tests. It does not distinguish who makes
733 the tests.

734 Mrs. Blackburn. Okay. Let me ask you this. Each
735 improvement in an LDT technology or an upgrade or an update, will
736 that need to go back through the medical device approval process?

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737 Dr. Shuren. No. Most modifications to tests are not
738 reviewed by FDA. We only focus on those that have the really big
739 impact, yes.

740 Mrs. Blackburn. Okay. Do you intend to add to the rapid
741 growth of health care costs by taxing LDTs as medical devices in
742 addition to charging the innovators the user fee?

743 Dr. Shuren. So we are not responsible for administering
744 the device tax. That is IRS. We have nothing to do with it.

745 That said, one of the reasons we put in place that
746 laboratories could notify us about their tests as opposed to
747 registering and listing was that it would not trigger the device
748 tax.

749 Mrs. Blackburn. I think your guidance informs the IRS,
750 though, is that not correct?

751 Dr. Shuren. No, the IRS would look separately to if that
752 device has listed.

753 Mrs. Blackburn. Okay. I want to thank you for the report
754 that you sent to the Congress last night. It was an interesting
755 read. And what I found most interesting about it was what was
756 left out and that you didn't discuss the FDA front-end process,
757 which deserves some attention and some discussion, specifically
758 the PREDICT program. Twenty-eleven this was put in place. It
759 is a compliance program. It is an artificial intelligence
760 program that is supposed to identify high-risk shipments at our

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761 ports of entry. And the problem with PREDICT is that it is
762 significantly delaying the shipment of needed medicine and
763 medical supplies. Medical shipments are often sent by express
764 service to get them to patients in time for critical usage. And
765 once a shipment is held up by PREDICT, almost all of them are
766 subsequently released without any physical inspection.

767 So when you look at it from the outside, Dr. Shuren, what
768 it appears to be and the impression is that the bureaucracy of
769 the FDA is keeping medicines and medical supplies from patients
770 because of concerns that there may have been contamination in some
771 cilantro that was in the very same shipment. And I would really
772 like to see the FDA spend the effort to fix this before they try
773 to regulate another area of commerce.

774 I noticed in that report also that it is based on 20 case
775 studies. And how often does the FDA use case studies as
776 sufficient evidence to approve or deny a medical therapy?

777 Dr. Shuren. So in terms of approval, we don't tend to rely
778 on an example. We have used a series of case studies as part of
779 support for valid scientific evidence as we have approved certain
780 tests or other products.

781 I will note one thing about the cases, too, we put out
782 yesterday. One of the challenges is that we don't have
783 post-market surveillance in place for laboratory-developed tests
784 as we do for tests made by other manufacturers. And as a result,

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785 it is very hard to identify when problems arise. And yet we know
786 on the IVD side, when made by conventional manufacturers, we do
787 detect problems, the manufacturers detect problems, and they fix
788 them because that is in place.

789 One of the other features in the FDA system is the post-market
790 surveillance to identify problems and to fix problems, and that
791 is just as important as premarket review to prevent faulty tests
792 from getting on the market in the first place.

793 Mrs. Blackburn. Well, as I yield back my time, I hope that
794 you will fix PREDICT. I yield back.

795 Mr. Pitts. The chair thanks the gentlelady and now
796 recognizes the gentlelady from California, Mrs. Capps, 5 minutes
797 for questions.

798 Mrs. Capps. Thank you both, each of you, for your testimony,
799 and thank you, Mr. Chairman, for putting together this hearing.
800 I appreciate the opportunity to further discuss the strengths and
801 challenges, have a real conversation about laboratory-developed
802 tests as they guide medical decision-making by patients and
803 providers. There are a lot of question marks and a lot of concern
804 about where do we go from here, how do we dovetail these two
805 agencies and giving the best outcome the patients.

806 I recognize there are many perspectives in this space. I
807 appreciate this conversation to try to illuminate some of the
808 issues. Over the years, it goes without saying these tests have

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809 come more tailored and more elaborate, and this conversation is
810 important to ensure that these tests do produce meaningful and
811 reliable results for those who trust them.

812 Dr. Conway, I will turn to you first. In your testimony you
813 note that there are six key performance specification assessments
814 for lab-developed tests: accuracy, precision, reference range,
815 reportable range, analytic sensitivity, analytic specificity.
816 This committee has heard a lot about how different research
817 institutions are driving the future of medicine toward more
818 personalized medicine. This has been particularly true in the
819 field of cancer where the development of multi-gene panels is
820 being used to identify important molecular characteristics of a
821 tumor.

822 And my question to you is whether the current CLIA
823 regulations ensure these gene panels developed by different
824 institutions or manufacturers will produce the same results? For
825 example, if I am a patient and I am tested with hospital A's gene
826 panel, how do I know I would get the same result if I am tested
827 with hospital B's gene panel? Would each hospital reach the same
828 treatment decision, and where does this lead us?

829 Dr. Conway. Yes, you have highlighted--thank you for the
830 question, and you have highlighted one of the challenges. And
831 Dr. Shuren could certainly speak more.

832 You know, our assessment of analytic validity is laboratory

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833 by laboratory where we are looking at the areas you described and
834 the laboratory director's documentation, that they are following
835 a protocol to detect the appropriate analyte.

836 And you highlighted a great example, genetic testing. It
837 is not assessing whether different genetic testing kits or
838 combination of tests are detecting the disease with the same
839 clinical validity and rigor. So you could in fact in the current
840 framework, without premarket assessment of clinical validity,
841 have different tests giving different answers to clinicians that
842 could drive treatment that is inappropriate, which is why we think
843 the assessment of premarket clinical validity in this area is
844 critical and important.

845 Mrs. Capps. So that leads me to focus now with you, Dr.
846 Shuren. Many have argued that there is no need for greater FDA
847 oversight of lab-developed tests, as we have not had the same types
848 of problems with LDTs as we have had with drugs such as the outbreak
849 of adverse events associated with use of contaminated heparin,
850 for example, or adverse events associated with contaminated
851 compounded drugs. They assert that if there are greater health
852 risks associated with LDTs, we would have heard about them.

853 I am not sure you agree, but it is clear to me from the report
854 that FDA released yesterday that lab-developed tests do present
855 real risks to patients. Can you please explain whether or not
856 you agree with this criticism that came out? Would health care

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857 providers and patients necessarily know if tests were not giving
858 good advice for clinical decisions?

859 Dr. Shuren. I don't agree with that criticism. And doctors
860 and patients would not know who made the device and whether it
861 is one that was approved by FDA or it was one that was not approved
862 by FDA. Quite frankly, the reason you don't see as many problems,
863 you don't have the systems in place to identify them. So, for
864 example, for IVDs we regulate, in 2014 we had over 300 recalls.
865 It is not unusual.

866 Things change, problems arise, but you need the systems to
867 identify the problems and to fix them. And we have some labs who
868 have submitted their tests to us, and we have approved or cleared
869 some LDTs. And when they put the systems in place, these started
870 to identify problems. One of them has already had eight recalls,
871 but they only found the problems because they put in the systems
872 that they should have in place.

873 Mrs. Capps. Well, now, how can patients--I am just about
874 out of time, but how can patients, providers, and payers be assured
875 that the tests they are paying for are providing real value and
876 enhancing the care of patients?

877 Dr. Shuren. Well, that is why we would like to have a
878 uniform, consistent approach to diagnostic tests, regardless of
879 who makes them. That information will be made available to the
880 public so they know what tests have been approved. There is

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881 information about what those tests are for. The makers have to
882 put out information that explains its performance
883 characteristics, its intended use, how to use it properly, and
884 all that will provide necessary information to doctors and
885 patients so they can use those tests appropriately.

886 Mrs. Capps. Thank you.

887 Dr. Shuren. Right now, they can't.

888 Mrs. Capps. Okay. It sounds like we need a follow-up. I
889 yield back.

890 Mr. Pitts. The chair thanks the gentlelady and now
891 recognizes the chair emeritus of the full committee, Mr. Barton,
892 5 minutes for questions.

893 Mr. Barton. Thank you, Mr. Chairman. I want to thank both
894 our witnesses for attending today. I appreciate the subcommittee
895 chairman, the full committee chairman issuing the proposal as a
896 discussion draft, which to me means that their minds are still
897 open and that we can make some changes and things of this sort.

898 I am one of those skeptics that Mrs. Capps just talked about.
899 I am not sure that we need to get more Federal regulation. I don't
900 necessarily think more Federal regulation is going to give us a
901 safer, more efficacious result.

902 So I guess my first question to either of you gentlemen would
903 be what is the real problem? I mean why in the world would a
904 laboratory develop a test that wasn't safe and accurate? My

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905 office is not being overrun with phone calls or emails from
906 doctors, patients, hospitals, advocacy groups that there is some
907 terrible laboratory diagnostic test out in the marketplace.

908 Dr. Shuren. But those tests are out on the marketplace.
909 So, for example, a test was developed for something called KIV
910 6. It was supposed to predict the risk of heart disease and
911 response to statin treatment. And the lab came out with it,
912 promoted it, said they had studies, but then subsequently good
913 studies were performed and in fact found that there was no
914 association between KIV 6 and those conditions. And by the time
915 it came out, though, over 150,000 people had the tests performed.
916 We estimated the cost to our health care system was over \$2
917 billion. That is not money we can afford to waste on bad testing.

918 Mr. Barton. And what happened--

919 Dr. Shuren. So what happened--

920 Mr. Barton. I assume that test was taken off the market and
921 without FDA having to do anything.

922 Dr. Shuren. It remained on the market and there was
923 continued use for a while and then use started to dip down. But
924 is that really the system we want, that we have bad tests, people
925 can get hurt by it, and then afterwards if you find the problem
926 and you get on top of it, then something happens to the test? The
927 whole point of premarket review is and why we do that for the other
928 tests--

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929 Mr. Barton. You are going to guarantee if we would let your
930 agency review all these diagnostic tests, the laboratory tests,
931 that something like that will never happen again, that you all
932 are perfect and all-knowing and you are going to do it in a
933 cost-effective way and it will be peace and light from now until
934 Judgment Day?

935 Dr. Shuren. I will not promise you perfection, and I will
936 leave it to God to decide if there will be peace on Earth, but--

937 Mr. Barton. Well, I am glad to hear somebody use--

938 Dr. Shuren. But that said, we have--

939 Mr. Barton. --the Divinity's name in a positive way. That
940 is--

941 Dr. Shuren. Yes, well, they can fire me.

942 Mr. Barton. That is a good thing.

943 Dr. Shuren. But we have almost 40 years of experience of
944 regulating in vitro diagnostic tests and assuring that those tests
945 are accurate, reliable, and clinically--

946 Mr. Barton. I mean, granting your point at least partially,
947 wouldn't it be better to give FDA or some State regulatory
948 agency--it doesn't necessarily have to be Federal--some sort of
949 a penalty assessment that we can immediately put a stop if there
950 is a bad test? Wouldn't that be a better use of your agency's
951 resources? So to use your example, if that were to happen again,
952 boom, we catch it, we stop it, we hit them with a big penalty and

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953 get that test off the market. I am not being a horse's rear on
954 this, but, you know, if it is not broken, don't fix it, and it
955 looks to me like we are just looking for ways to give the CMS and
956 the FDA more authority. And it is obvious that Chairman Pitts
957 and Chairman Upton and I assume Mr. Pallone and Mr. Green are
958 concerned, too. But more regulation is not always the best
959 answer.

960 I guess my last question would be under the current system
961 what role if any do the States play in looking at these tests?

962 Dr. Shuren. So there are States--I can let Dr. Conway talk
963 about it in terms of States that are involved in accreditation
964 of laboratories, but they are not involved in premarket review
965 for those tests with certain exceptions. New York State does do
966 a review of tests. And quite frankly, under the proposal we have,
967 we have the opportunity to leverage third parties. If New York
968 State is meeting appropriate standards, we could leverage some
969 of the work that they are doing.

970 But I will tell you the problems are more prevalent than
971 people want to recognize. You know, one of the medical centers
972 at the University of Texas was concerned about this--

973 Mr. Barton. I went to A&M so that doesn't scare me.

974 Dr. Shuren. No, no, no--well--but I will tell you what they
975 were finding is--

976 Mr. Barton. I am going to hear it whether I want to or not.

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977 Dr. Shuren. That is right. Thank you for that. But there
978 were inconsistencies in what they were seeing reported by labs
979 for the same kind of tests, so what they did is they took results
980 from 105 of their cancer patients and they had results from one
981 laboratory, they sent it to a second laboratory, and of the 32
982 gene variants, they found 50 percent disagreement, 50 percent.
983 And so they even concluded that this suggests physician care would
984 differ based on different interpretations of different companies.
985 And this is not the only report out there, other ones reporting
986 27 percent finding of incorrect or inaccurate results. This is
987 not uncommon. This goes on.

988 It is fixable, and it shouldn't be fixed after the fact. Why
989 should our people get hurt, and only when that happens--and if
990 we can find it because we don't have the systems to do that--do
991 we take action. Is that really the kind of health care we want
992 to provide? Do we want to spend money on unnecessary care or do
993 we want to spend it on innovation and assuring those tests work.

994 Mr. Barton. Well, I am with you on the innovation part.

995 Mr. Chairman, you know, the other subcommittees got the FCC
996 commissioners downstairs so I am not going to be able to stay,
997 but I appreciate you holding this hearing, and thank you for the
998 courtesy of the time.

999 Mr. Pitts. The chair thanks the gentleman and now
1000 recognizes the ranking member of the full committee, Mr. Pallone,

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1001 5 minutes for questions.

1002 Mr. Pallone. Thank you, Mr. Chairman.

1003 I wanted to ask Dr. Shuren. As you know, various
1004 stakeholders have been circulating legislative proposals
1005 regarding the regulation of lab-developed tests. Among these
1006 various legislative proposals, there seems to be a great deal of
1007 variance around moderate-risk tests. Some proposals have
1008 suggested that no premarket review is necessary for moderate-risk
1009 tests, and one proposal would require premarket review of
1010 moderate-risk tests but would allow such tests to be deemed
1011 approved if FDA did not act in a specified time frame.

1012 So I wanted to ask you a couple questions about this. In
1013 your testimony you noted an example of a test that is moderate
1014 risk would blood glucose strips used by people with diabetes and
1015 tests to help doctors diagnose heart failure. Could you discuss
1016 what FDA considers to be moderate risk and provide some examples
1017 of tests that would be considered moderate risk?

1018 Dr. Shuren. So other moderate-risk tests would be for
1019 diagnosing cystic fibrosis, herpes, heart failure are all
1020 moderate-risk tests--

1021 Mr. Pallone. Okay.

1022 Dr. Shuren. --that we currently regulate.

1023 Mr. Pallone. Does the FDA believe that premarket review of
1024 moderate-risk tests that there should be, and if so, can you

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1025 describe when you believe that premarket review of a moderate-risk
1026 test would be necessary?

1027 Dr. Shuren. So we do believe that most moderate-risk tests
1028 would be subject to premarket review. That is what we do now,
1029 but we do find that there are certain circumstances where we can
1030 put other mitigations in place that are good enough and you don't
1031 need premarket review. We just did that a little while back for
1032 next-generation sequencing platforms, when they are just making
1033 tool claims. We just did that for autosomal recessive carrier
1034 screening tests. And that is a natural course of action. As the
1035 science develops, technology evolves, we can actually change risk
1036 classification or what a test will have to do to come on the market.
1037 That is hallmarks of a risk-based approach.

1038 We are also very concerned about this deemed-approved
1039 approach. It essentially says if we don't make it decision in
1040 time, it is approved. So a test goes on the market that may be
1041 inaccurate simply because we didn't have enough time to finish
1042 up the review or, alternatively, we will not approve it to not
1043 let it go on the market. And yet if we had the time to work with
1044 the lab, we might get a good test on the market. Either way, bad
1045 tests on the market, good tests not going on a market, the loser
1046 is patients.

1047 Mr. Pallone. Okay. I think you answered my next question,
1048 which would be, you know, the deemed approval if FDA does not act.

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1049 But let me say, can you comment on whether or not--yes, I think
1050 you already talked about the deemed approved. So let me go to
1051 another question, Dr. Shuren.

1052 I understand that once the test is approved or cleared by
1053 FDA and enters the market, laboratories frequently modify the kits
1054 either to expand uses or to make improvements to the way the test
1055 is performed. And some stakeholders in the lab community have
1056 even suggested that manufacturers rely on laboratories to modify
1057 tests in order to expand the uses because it is too costly or
1058 burdensome to have a test approved for every use. So do you
1059 believe that modifications to LDTs should be subject to premarket
1060 requirements, and if so, what types of modifications would FDA
1061 want to look at before they are put in place?

1062 Dr. Shuren. So we think most changes that are made would
1063 not be subject to FDA review, and that is actually what occurs
1064 now for other IVDs. We would review those changes when there is
1065 a new intended use because it truly is a new test. Even CLIA have
1066 used that as a new test. Or if there is a big enough change that
1067 when a test is approved would determine what its performance
1068 specifications are, if now you make a change and it goes outside
1069 the performance specifications, we would review that as well.

1070 Mr. Pallone. Okay.

1071 Dr. Shuren. But it is those kinds of changes.

1072 Mr. Pallone. Let me go back. There was other thing that

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1073 I could have asked you about, these tests are deemed approved if
1074 FDA didn't act in a certain time frame. Can you explain whether
1075 or not you believe patients, physicians, or payers would know
1076 which tests were affirmatively cleared or approved by FDA versus
1077 tests that were deemed to be approved? Is there any way that they
1078 would know that?

1079 Dr. Shuren. No. I mean if the test is approved, the test
1080 is approved.

1081 Mr. Pallone. So that is one of the dangers if you will. In
1082 other words, you said before that you would be concerned that you
1083 might approve something that shouldn't be or not approve something
1084 that could be. But the secondary problem is that the user is not
1085 going to know.

1086 Dr. Shuren. That is exactly right.

1087 Mr. Pallone. All right. Thanks a lot.

1088 Mr. Guthrie. [Presiding] Thank you. And the gentleman
1089 yields back. I now recognize myself for 5 minutes for questions.

1090 Dr. Shuren and Conway, what does premarket review mean in
1091 the context of lab-developed tests, or LDTs? And how important
1092 is it and who should be responsible for such reviews?

1093 Dr. Shuren. So our premarket review is to determine if the
1094 tests are analytically valid, clinically valid, and they are safe
1095 for use under their conditions for use. And it is important to
1096 conduct those reviews for moderate- and high-risk tests to make

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1097 sure they work because doctors and patients rely on those tests
1098 to make well-informed health care decisions. If they get
1099 inaccurate results, they could make the wrong decisions and people
1100 get hurt as a result.

1101 Mr. Guthrie. Thank you. Dr. Conway?

1102 Dr. Conway. I agree with Dr. Shuren. And from the CLIA/CMS
1103 perspective, you know, we are really focused on
1104 laboratory-by-laboratory post-market review of those laboratory
1105 protocols, equipment, training of personnel, et cetera.

1106 Mr. Guthrie. Okay. Thank you. And I have heard that the
1107 same type of diagnostic test that is commonly available as both
1108 an LDT and a manufacturer kit that can be purchased by a lab, and
1109 tests for melanoma are one example. In other words, I could go
1110 to hospital A where they have a lab that developed their own test
1111 or, by chance, I could go to hospital B, whose lab purchased a
1112 test from a manufacturer. Can either of you walk me through this
1113 scenario from a regulatory perspective? In the case of hospital
1114 A, is it true that neither FDA nor CMS will have reviewed that
1115 test for clinical validity?

1116 Dr. Shuren. That is true. The test across the street would
1117 have been reviewed, and therefore, doctors and patients have the
1118 confidence to be able to rely on it, and you don't know in the
1119 case of the other one that has been offered.

1120 Mr. Guthrie. Okay. Same--

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1121 Dr. Conway. Yes, same. And CMS, once again, would not
1122 review clinical validity as part of the CLIA process.

1123 Mr. Guthrie. Okay. Doing the premarket review of these
1124 types of tests, could each of you describe the general education
1125 and professional background and expertise of your reviewers?

1126 Dr. Shuren. So our review, particularly for more complex
1127 tests, tends to be performed by a team of experts. They may
1128 include physicians, Ph.D. scientists, and statisticians that do
1129 a deep dive into the scientific data. We review the science to
1130 see if in fact and not only that test works but what it is claiming
1131 to do matches up with the science.

1132 Mr. Guthrie. Thank you. Dr. Conway?

1133 Dr. Conway. Our CLIA team does not include any medical
1134 officers or other personnel trained in detailed biostatistics or
1135 Ph.D.-level training. Our CLIA team is really focused on, as I
1136 mentioned, laboratory assessment on an accreditation and quality
1137 and survey and certification framework in a post-market manner
1138 laboratory by laboratory.

1139 Mr. Guthrie. Thanks. And, Dr. Shuren, you previously
1140 testified about challenges you face in hiring and retaining
1141 sufficient medical expertise. How would your ability to do so
1142 be impacted if CMS were required to have the same types of
1143 expertise regarding test design and development?

1144 Dr. Shuren. Well, first off, I want to thank the committee

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1145 for trying to take actions in 21st Century Cures to help us to
1146 better be able to attract and retain high quality talent. And
1147 that is where the answer lies.

1148 Mr. Guthrie. So the competition if CMS is doing the same
1149 would be--

1150 Dr. Shuren. Well, it makes no sense for competition, so all
1151 we are going to do is create a duplicative system in another
1152 agency. I mean it is interesting that people have raised concern
1153 about do not have duplicative regulatory frameworks in place, and
1154 yet some of the proposals we have seen now to put this under CLIA
1155 would do exactly that. It would create all this duplication the
1156 right now, as you have heard from both of us, doesn't exist.

1157 Mr. Guthrie. All right. Thank you. And I yield back the
1158 balance of my time.

1159 And I now recognize Ms. Castor from Florida.

1160 Ms. Castor. Thank you, Mr. Chairman. And thank you both
1161 for being here today.

1162 As we continue to develop a greater understanding of the
1163 genetics of individuals who have a wide variety of diseases and
1164 conditions, we are moving away from one-size-fits-all medicine
1165 to more targeted and effective prevention strategies and
1166 treatments and even cures. This is known as personalized
1167 medicine, and I believe it is fundamental to the vision of 21st
1168 Century Cures and holds great promise.

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1169 This vision, though, will in large part be dependent upon
1170 accurate genetic tests, so it is imperative that these tests are
1171 scientifically credible. Dr. Shuren, can you provide some
1172 examples of the types of genetic tests that are being developed
1173 to help deliver personalized treatment? And describe in greater
1174 detail the role that these tests play in precision medicine.

1175 Dr. Shuren. So increasingly, we are seeing genetic tests
1176 being developed to help identify what the appropriate treatment
1177 may be for patients who have various conditions, including cancer.
1178 And it is critically important that those tests work, because if
1179 not, people are not getting the right treatment or they are not
1180 getting treatment when in fact they should get treatment.

1181 I will say that as we approach this, though, government can
1182 be innovative. Increasingly, we are seeing next-generation
1183 sequencing tests being used, and last December, we put out a
1184 proposal for a new approach on next-generation sequencing that,
1185 rather than your standard model of maybe doing a clinical study
1186 is to leverage data in existing curated databases, which can allow
1187 for the clinical community to crowd-source the evidence, and as
1188 the science ultimately evolves to where it needs to be to be able
1189 to make claims about the use of that test. That way, the
1190 regulatory framework can stay step-in-step with the evolution of
1191 the science.

1192 In fact, we just held a two-day public meeting last week on

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1193 this. There is a lot of support for moving forward with this
1194 approach. We have even relied on those curated databases to
1195 approve a test for cystic fibrosis.

1196 So that is where we need to focus our attention, and that
1197 is why we want the lab community at the table with us. Let's focus
1198 on the science. That is what we need to do. We have the
1199 regulatory tools. It is the science we have got to work together
1200 on. And we can do it if people are willing to work with us.

1201 Ms. Castor. Yes. And during our 21st Century Cures
1202 hearings and briefings, there was a lot of talk about
1203 data-sharing. What is going on--because we can't wait for
1204 Congress to act, frankly. What is going on with FDA and NIH and
1205 a lot of those research institutions across the country in being
1206 able to look at that data, share it, so we can develop the cures
1207 and treatments of the future?

1208 Dr. Shuren. Yes. So NIH has its own database of genetic
1209 variants. They do an assessment. We have other databases out
1210 there. We are now trying to work with these various groups on
1211 what the appropriate standards should be for the quality check
1212 for the curation and what should be the standards for clinical
1213 validity when you are evaluating that science.

1214 Also, we at the FDA have been developing a platform called
1215 precision FDA that would allow these test developers to
1216 essentially either share their genetic data to compare or

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1217 providing analytical tools so they can test-drive some of these
1218 next-generation sequencing technologies to see if they are
1219 accurately sequencing the genome. We think this is a great role,
1220 if you will, to provide these common goods to all developers.

1221 Ms. Castor. Great. I do, too. Thank you. And I yield
1222 back my time.

1223 Mr. Guthrie. Thank you very much. The gentleman from
1224 Illinois, Mr. Shimkus, is recognized for 5 minutes.

1225 Mr. Shimkus. Thank you, Mr. Chairman. And welcome.

1226 Actually, I appreciate the comments from my colleague from
1227 Florida. That is kind of where I was just heading to a little
1228 bit, too, with the personalized medicine and the genetic testing
1229 and really being accurate on that test so then you can, as we talked
1230 about in the other piece of legislation, target based upon the
1231 genetic code or the individual patient. That is very exciting.

1232 And the other thing I think we have followed through the
1233 hearings and the 21st Century Cures is that then you just don't
1234 go down the route of prescribing remedial health action to someone
1235 without really full information, so the high cost of health care
1236 because you try this, didn't work, try this, didn't work, now you
1237 are trying this, and you can get more specific information. So
1238 it is very exciting times. And I think people were going around
1239 the same issues.

1240 But I wanted to ask this, and it is probably something I

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1241 should know if I would have more thoroughly read my briefings,
1242 but when we talk about risk--basic, moderate, or high--so we are
1243 really focusing on moderate and high risk of the tests. What is
1244 the risk component? Is the risk component the risk of conducting
1245 it, the risk of not having accurate information, or the risk to
1246 the patient who hopes to get good information from a test because
1247 of the health care environment they presently find themselves in?
1248 So can you both talk on how do we define risk?

1249 Dr. Shuren. Yes. So the key consideration is the risk to
1250 the patient if they are getting an inaccurate result, they are
1251 getting a wrong result, and that is within the context of what
1252 would otherwise happen to that patient in clinical care. That
1253 is the way we look at it.

1254 Mr. Shimkus. So when you use the example of heart, you put
1255 that in a moderate--when you were giving the examples of--and I
1256 was kind of surprised. I mean, heart disease or heart issues,
1257 I think people would find it pretty risky if you have got heart
1258 disease, a higher risk than just in the moderate category. So
1259 there is some subjectivity to this or--

1260 Dr. Shuren. Well, so when we look at it, you put it within
1261 the clinical context. So in the case of heart failure, when you
1262 are making, you know, a diagnosis, there are other things that
1263 the clinician takes into account in making that determination.
1264 That is a little bit different, though, when I am dealing with

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1265 something, let's say, like HIV where not only am I dealing with
1266 a high-risk condition, right, the risk to the patient is huge,
1267 secondly, I don't have another great means of truly determining
1268 is that HIV. And then there is also the risk of if I am wrong
1269 about this and that person goes out and doesn't know they have
1270 HIV, they may engage in activities that they will spread the
1271 disease. So we are really looking at it in the practical context
1272 of what in fact happens to the patient, not just simply the
1273 condition itself.

1274 Mr. Shimkus. Right. And I think this is a tough area for
1275 conservative Republicans who think government is too big, costs
1276 too much, but there is obviously a position of we want to make
1277 sure that people are advertising and using tests, that they are
1278 given some stamp of approval, that they meet the requirements and
1279 the desires of what they are.

1280 So, Dr. Conway, real quick, you admit that the volume and
1281 complexity of these tests have kind of grown, I don't know, I would
1282 say exponentially almost. Would you agree with that?

1283 Dr. Conway. Yes. We don't have exact numbers for some of
1284 the reasons described, but it seems exponential.

1285 Mr. Shimkus. But you haven't asked for new authorities
1286 because of this growth, have you?

1287 Dr. Conway. So CMS has not put forward additional requests
1288 for statutory authority. As I mentioned, we think FDA can play

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1289 a critical role in the premarket review, and we can play a critical
1290 role laboratory by laboratory, post-market.

1291 Mr. Shimkus. Yes, in your area do you require an individual
1292 review of the area that you have been involved with? Is there
1293 an independent review process of decisions that you are making,
1294 you know, in the CLIA process?

1295 Dr. Conway. Let me try to answer that. So I think we have
1296 a central office that has oversight of State surveyors, and
1297 therefore, oversight of the processes of those State surveyors.
1298 We also oversee accrediting organizations, of which there are
1299 seven. They have to meet or exceed CLIA standards, and we review
1300 that, including if any--

1301 Mr. Shimkus. But you are almost evaluating the
1302 organizations. The organizations aren't evaluating the
1303 independent decisions?

1304 Dr. Conway. We have bidirectional communication both with
1305 the States and their accrediting organizations like in any of our
1306 accrediting organizations, including at times in various programs
1307 accrediting organizations identify regulations or standards that
1308 need updating.

1309 Mr. Shimkus. Great. Thank you very much. I yield back my
1310 time.

1311 Mr. Guthrie. I thank the gentleman. The time is expired.
1312 And I recognize Dr. Schrader from Oregon for 5 minutes for

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1313 questions.

1314 Mr. Schrader. Thank you, Mr. Chairman. And I would like
1315 to thank Dr. Shuren and Dr. Conway for being here. Interesting
1316 topic. I would hope that the chair or vice chair and ranking
1317 member would hopefully have us have an opportunity to talk to the
1318 stakeholders, including the physician groups, just to get a
1319 balanced perspective here. This is pretty darn important if we
1320 are going to go down this road, and I think the tender of the
1321 questions so far indicate that.

1322 And I appreciate the fact both of you testified in total
1323 agreement in pretty clear terms about how you guys have two
1324 different jobs in the different agencies. It is tough from a
1325 practitioner's standpoint, being part of the medical community,
1326 to really understand why that has to be. I understand it is right
1327 now, but I am not sure why it has to be. It seems odd to me that
1328 the Center for Medicare Services--medical services would not have
1329 some sort of health regulatory role or clinical analyzation
1330 capability.

1331 And it seems to me both of you are going to have to staff
1332 up, well, particularly FDA if you take on this new role of
1333 premarket approval. There is going to be a huge staffing
1334 increase. Why would that not also be possible for the folks in
1335 CLIA or somewhere in CMS to do the same thing? I ask both of you
1336 that question.

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1337 Dr. Shuren. So we already have existing staff who do exactly
1338 these kinds of reviews, and we have years of experience on it.
1339 We have training programs for our people. And in terms of
1340 additional resources, one of the reasons that we put in place a
1341 phased-in approach would be also for tests that are out there,
1342 one, not disrupt the market; two, that we could try to accommodate
1343 what resources we have. But in addition, if we need additional
1344 resources, we have a user-fee program under which we work with
1345 the regulated community about appropriate funding for services
1346 that we then provide back like performance and premarket review.
1347 And that program, as you know, has been in place for a number of
1348 years.

1349 Mr. Schrader. So minimal staffing increase is what you are
1350 suggesting?

1351 Dr. Shuren. It depends on the ultimate framework that goes
1352 into place as to what that workload would look like.

1353 Mr. Schrader. All right. Mr. Conway, if you can.

1354 Dr. Conway. On the CMS side, as I mentioned in the central
1355 office we have approximately 25 people in total overseeing CLIA.
1356 They are trained for their job, which they do well, which is
1357 oversight of laboratories, laboratory by laboratory. There are
1358 no medical officers, there are no Ph.D.'s, biostatisticians
1359 because we do not do premarket review.

1360 Mr. Schrader. I just get concerned still--sorry--because

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1361 both your testimonies talk about accuracy, both of you. You both
1362 talk about reliability. And that sounds like overlap to me. So
1363 I am just concerned that we don't go down that road. Question
1364 on peer-review. I mean a lot of treatments and diagnoses are
1365 peer-reviewed in the literature and stuff. Has that occurred at
1366 all with laboratory tests? Is there any literature reviewing the
1367 efficacy of different laboratory tests?

1368 Dr. Shuren. In our review of tests we do look at published
1369 literature, and in some cases we have relied completely on
1370 published literature for certain tests like hemoglobin A1c for
1371 diabetes.

1372 This issue about accuracy, our look at it, though, for
1373 analytical validity is complementary but it is different. We
1374 truly look at is the test itself and what it measures, is it in
1375 fact accurate? CMS will look at is that test performed properly
1376 to get a result.

1377 Mr. Schrader. That is correct. So I guess my underlying
1378 concern as a medical professional listening to the testimony is
1379 that the consumer, as well as the physician or veterinarian, is
1380 not misled by having premarket review. There is going to be some
1381 certainty that that test is 100 percent appropriate for them in
1382 their situation.

1383 The reason I raised the question about the peer review, I
1384 mean, generally, the test from my standpoint is a secondary

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1385 adjunct to helping establish the diagnosis. You got a lot on
1386 clinical sides, you got a lot on knowing your patient, got a lot
1387 to, you know, based on the environment they are living in. There
1388 are false positives all the time in every single test, false
1389 negatives in virtually every single test, whether it is a genetic
1390 test or, you know, a simple blood test for goodness sakes. I just
1391 don't want the consumer to be misled that by having FDA premarket
1392 approval, that that test is going to be 100 percent. I think that
1393 is a mistake.

1394 At the end of the day I think it is up to the medical
1395 community, the physician to put that one small piece of the puzzle
1396 into the, you know, whole diagnostic scheme and come up with
1397 whether or not that is actually going to be a valid use of their
1398 patient.

1399 I am just very concerned the tone here is that we are going
1400 to put certainty into the art of medicine when there is not that
1401 much certainty, and the patient will be misled and frankly lead
1402 to greater lawsuits and customers frankly not understanding what
1403 medicine is really all about.

1404 Dr. Shuren. And so the accuracy of that test will also
1405 depend on what the use of the test is for. You know, when you
1406 deal with riskier conditions or where there are some tests you
1407 truly rely on the result of that test. Companion diagnostics,
1408 for example, it is the result of that test that will be telling

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1409 you should they get Zelboraf, you know, for melanoma. And in
1410 those cases you want to have a higher accuracy.

1411 You are right, it is not 100 percent, but also what we assure
1412 you is that that information is made available to the practitioner
1413 like you, and you know that when you get that number for how
1414 accurate it is, the result, it is correct. It is the--

1415 Mr. Schrader. Well, laboratories have
1416 different--laboratory information from one lab to the other is
1417 going to be different. I can send the exact same blood sample
1418 in to a different laboratory. I can send the genetic code in.
1419 You testified a moment ago you are going to get different
1420 information back. So the idea that it is going to be dispositive,
1421 I would respectfully disagree. And I yield my time.

1422 Mr. Guthrie. Thank you. The gentleman's time is expired.

1423 I now recognize Dr. Burgess of Texas for 5 minutes.

1424 Mr. Burgess. Thank you, Mr. Chairman.

1425 Before I start my time, could I asking for a unanimous consent
1426 request?

1427 Mr. Guthrie. The gentleman is recognized.

1428 Mr. Burgess. Ask unanimous consent to enter the statement
1429 of the Association for Molecular Pathology into the record. And
1430 then a further unanimous consent request for a point of personal
1431 privilege, Mr. Chairman.

1432 For the past 7 years I have been joined at these committee

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1433 hearings by Mr. Paluskiewicz, whose last name is so difficult to
1434 pronounce we all know him by J.P. And if I ever seem adequately
1435 prepared for these hearings, it is only because I have had J.P.
1436 advising me before we come into the hearing room. And so it is
1437 with great sadness that I announce that J.P. will be leaving my
1438 employment, but he will be joining the committee staff, so he will
1439 be here for all to participate and the wondrous things that he
1440 has to offer to any committee hearing.

1441 Thank you, Mr. Chairman. Now recognize for questions.

1442 Dr. Conway, so if Dr. Shuren puts his guidance out in January,
1443 are you no longer necessary?

1444 Dr. Conway. No, sir, and let me explain why. I think there
1445 will still be a role for CLIA to assess, and this is a critically
1446 important role, that laboratories have the proper equipment,
1447 training, protocols, and quality assurance procedures in place,
1448 and that laboratory-by-laboratory certification, which a few
1449 people have talked about, is a critical role for CLIA.

1450 Mr. Burgess. But, you know, we have heard several times the
1451 FDA is under-resourced, so why shouldn't the resources that are
1452 going to CMS just simply go to the FDA?

1453 Dr. Conway. So I will speak for CMS. You know, I think in
1454 the CLIA oversight framework we are efficiently using both central
1455 office resources and relying on States, which was a question
1456 earlier, and their State surveyors, obviously a user-fee funded

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1457 program based on user fees based on moderate, high complexity,
1458 et cetera, and volume. And then we also importantly have
1459 nonprofit accrediting organizations that are not government
1460 organizations, that we--seven of them--approve that they meet or
1461 exceed CLIA standards. We are using people outside of the Federal
1462 Government as well to perform these important functions.

1463 Mr. Burgess. Dr. Shuren, this question has been posed to
1464 you several times in this subcommittee or oversight subcommittees
1465 about what is the problem that we are trying to solve? And last
1466 night at 7:00 p.m. you put out a report that detailed 20 times
1467 where perhaps there were problems with laboratory-developed
1468 tests, is that correct?

1469 Dr. Shuren. Yes.

1470 Mr. Burgess. And I am sure you would make the further
1471 statement that there are more than that, but we have also seen
1472 in testimony that what is the total universe of
1473 laboratory-developed tests? It is in excess of 11,000, is that
1474 correct?

1475 Dr. Shuren. It is above 11,000.

1476 Mr. Burgess. So the rate at which you have detected problems
1477 would be, if my math is correct, .18 percent, which most things
1478 in medicine are hardly that reliable. Is that an unfair
1479 statement?

1480 Dr. Shuren. Yes. Reporting systems--first of all, there

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1481 is no reporting system on LDTs. You are not monitoring for
1482 problems. And so you can't say what the rate is, quite frankly.

1483 Mr. Burgess. It took you 3 years to provide us with 20.
1484 When I asked you in hearings, when we were doing the FDA
1485 reauthorization, what is the problem we are trying to solve? So
1486 today, now, I have your report, 20 problems that we are trying
1487 to solve, and we have got a universe in excess of 11,000 tests.

1488 So let me just ask you this, since you think the risk is there
1489 from laboratory-developed tests, is there an FDA-approved kit
1490 that has ever had a failure?

1491 Dr. Shuren. Yes. And the point is the reason we can
1492 identify when there are problems and we can deal with it is because
1493 we have the systems in place and the maker of the test has
1494 implemented systems internally to identify those problems. That
1495 is critical. And the work that we are doing doesn't occur right
1496 now in CMS. It is not duplicative, and they don't go away.

1497 Remember, if you make a test, if you are a conventional
1498 manufacturer, that lab is going to get your test. They still have
1499 to perform that test properly, and that is what CMS is overseeing,
1500 are the laboratory operations conducted properly. Mr.

1501 Burgess. My time is limited. So do you envision any lack of
1502 access to testing because of the changes that you are proposing
1503 in the guidance or the committee is proposing in their
1504 legislation?

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1505 Dr. Shuren. So we have tried to--a proposal was put in place
1506 so that we would not disrupt the marketplace. Our goal here is
1507 to try to assure we do have innovation. We think LDTs are
1508 important in health care. There is innovation, but--

1509 Mr. Burgess. I appreciate the recommendation--

1510 Dr. Shuren. --there is no value to patients if the tests
1511 in fact don't work. And one of the problems is because we haven't
1512 regulated, there has been a disincentive for innovation by
1513 conventional manufacturers. And we have heard from them,
1514 particularly the smaller companies are saying they are
1515 disadvantaged because they make a test and they go through and
1516 they have to demonstrate their test works. And then you can have
1517 a lab make the same kind of test go out the door--

1518 Mr. Burgess. I am going to have to interrupt you because
1519 my time is limited.

1520 Just as far as the labs themselves, who do you expect to be
1521 more greatly impacted, large labs and large hospitals or smaller
1522 rural labs? Is there likely to be a difference in the impact?
1523 It is a yes-or-no question.

1524 Dr. Shuren. The answer is you should regardless be
1525 developing the science that your test is validated, whether we
1526 review it or not.

1527 Mr. Burgess. If you don't know whether the answer is yes
1528 or no, why wouldn't we want to see an economic impact evaluation

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1529 such as normally would be required in rulemaking but is not
1530 required in guidance?

1531 Dr. Shuren. Well, just to clarify again, whether we were
1532 overseeing them or not, a lab shouldn't be putting any test on
1533 the market that they haven't gotten the data to validate. What
1534 we are saying is you should have the data and we would look at
1535 it before the test went on the market to make sure that that test
1536 in fact worked.

1537 Mr. Burgess. And to the question--

1538 Dr. Shuren. The tests that wouldn't go on the market are
1539 the ones that in fact don't work.

1540 Mr. Burgess. And to the question of an economic impact
1541 statement, as would be required under normal rulemaking
1542 processes, why shouldn't the committee or the Congress expect
1543 that?

1544 Dr. Shuren. We are not under rulemaking because we are not
1545 imposing new requirements. These requirements already exist
1546 under the law. As a matter of policy, we have not actively
1547 enforced them. And in places where we put an enforcement
1548 discretion policy, we have withdrawn it. We have done that
1549 through guidance. It has been the practice all along.

1550 I would say in terms of economic analysis, too, we now have
1551 seen the lab community has come forward to say LDTs need to
1552 demonstrate analytical and clinical validity. Moderate- and

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1553 high-risk LDTs need to be subject to premarket review. So those
1554 pieces, even the lab community has now said, you know what, that
1555 kind of a framework needs to be in place.

1556 Mr. Guthrie. The gentleman's time is expired. Would you
1557 again, Dr. Burgess, make--you had one unanimous consent request
1558 that we did not act on, then you went to a point of personal
1559 privilege. Can you make that once again before we move on?

1560 Mr. Burgess. Yes. It was to add to the record the statement
1561 from the Association of Molecular Pathology for the record.

1562 Mr. Guthrie. Without objection, so ordered.

1563 [The information follows:]

1564

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1566 Mr. Guthrie. Thank you.

1567 Mr. Burgess. Thank you.

1568 Mr. Guthrie. The chair now recognizes Mr. Sarbanes for
1569 Maryland for 5 minutes for questions.

1570 Mr. Sarbanes. Thank you, Mr. Chairman. I thank the two
1571 witnesses for being here.

1572 This is obviously a very important discussion, and I always
1573 try to look at these conversations through the eyes of sort of
1574 my constituents, people out there, and I have got to believe that
1575 if some of them are paying attention to this hearing, they would
1576 be scratching their head, the typical patient out there, and
1577 saying, you mean these kinds of protections and reviews and
1578 guidance and so forth are not already in place?

1579 And I understand that, you know, you start out in a different
1580 time period, and you are now trying to sort of update the framework
1581 that exists to protect patients out there, and I think the average
1582 person would think that this is a very reasonable undertaking on
1583 your part. So there is going to have to be some heightened degree
1584 of oversight and assurance in this arena.

1585 You have probably touched on all this before I came, but could
1586 you just take maybe two or three or four of the main categories
1587 of kind of constituencies out there and give me a shorthand on
1588 their perspective? What are physicians saying about this
1589 conversation? What are patient advocate groups saying? I think

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1590 I can probably guess. You have alluded to the industry, the lab
1591 industry itself, but can you just--and in particular, I guess the
1592 physician perspective on it would be helpful to me, but if you
1593 can kind of shorthand those different lenses on this discussion.

1594 Dr. Shuren. We have heard mixed perspectives from the
1595 physician community. So oncologists have come out to say, yes,
1596 you need oversight, you need FDA oversight. Pathologists have
1597 felt that, no, we do not. FDA shouldn't be or should have little
1598 role in oversight of LDTs. The patient groups have been
1599 supportive of FDA. The consumer groups, payers have been--the
1600 medical device industry has been, the laboratory community has
1601 been split. Some of the labs have been working and promoting a
1602 proposal with FDA oversight, and the others have been proposing
1603 a system under CLIA.

1604 Mr. Sarbanes. The payers, that is interesting. Can you
1605 expand a little bit on that? Is that because they are seeing a
1606 lot of costs associated with faulty test results in the use of
1607 those?

1608 Dr. Conway. Maybe I will start since I am a large payer.
1609 It is a challenge in the payer aspect, so including in Medicare
1610 and similar and private payers. If the tests haven't gone through
1611 that FDA review, then we have a system of local contract medical
1612 directors in our national office also, you know, small numbers
1613 of people trying to review thousands of tests that either are

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1614 identified to us or we identify that we need to assess reasonable
1615 and necessary for coverage. If there were an FDA review, you
1616 could potentially take a whole set of those that have been through
1617 FDA review and have those be covered and focus on the ones that
1618 are leftover. So this is an issue there.

1619 If you don't mind, on the practicing physician point, I am
1620 a practicing physician. I train residents and medical students
1621 on weekends as well. You know, you want an assurance as a
1622 physician that the test is clinically valid and that the report
1623 that says the patient has cancer or genetic disease X is correct.
1624 And the patient wants that assurance as well.

1625 Mr. Sarbanes. Right.

1626 Mr. Guthrie. Thank you. And the gentleman yields back his
1627 time.

1628 Mr. Lance of New Jersey is recognized for 5 minutes for
1629 questions.

1630 Mr. Lance. Thank you very much, Mr. Chairman. Good morning
1631 to you, gentlemen.

1632 Dr. Conway, it is my understanding that it is the Division
1633 of Laboratory Services within the Survey and Certification Group
1634 within the Center for Clinical Standards and Quality at CMS that
1635 has responsibility for administering the program. How many staff
1636 within the division are responsible for inspecting labs and
1637 reviewing the tests they performed?

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1638 Dr. Conway. We have approximately 25 central office staff,
1639 and then we have approximately 110 surveyors across the Nation
1640 and all the States, so a small number per State.

1641 Mr. Lance. We have heard that there are tens of thousands
1642 of LDTs out there. Do you believe that the division is capable
1643 of reviewing all of these LDTs in a timely fashion for clinical
1644 validity?

1645 Dr. Conway. No, they are not, either in a timely fashion
1646 or with the current training of the staff that we have.

1647 Mr. Lance. And therefore, do you believe that new
1648 innovation would be effective, I presume, negatively because of
1649 the potential backlog?

1650 Dr. Conway. Yes, I would be very concerned about a potential
1651 backlog and the impact on innovation.

1652 Mr. Lance. Dr. Shuren, how would the FDA handle the workload
1653 and how would these submissions be based in line, on what priority
1654 if this were to be handled by the FDA?

1655 Dr. Shuren. To handle workload, it is one of the reasons
1656 we have put in a phased-in approach over a number of years, and
1657 review would occur--be prioritized based upon risk. What we
1658 proposed is we would start reviewing higher-risk devices before
1659 we would look at--high risk before moving to moderate risk.

1660 Mr. Lance. And to the best of your ability, how long do you
1661 believe it would take to review an LDT, your best estimate, Doctor?

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1662 Dr. Shuren. So for the moderate risk LDTs now, the review
1663 times are--total times are a little over 100 days, thereabouts.

1664 Mr. Lance. Thank you. Thank you, Mr. Chairman. I yield
1665 back the balance of my time.

1666 Mr. Burgess. Would the gentleman yield to me?

1667 Mr. Lance. I yield to Dr. Burgess.

1668 Mr. Burgess. Thank you.

1669 Mr. Guthrie. Dr. Burgess is recognized.

1670 Mr. Burgess. On that point, could you state that figure
1671 again, the moderate-risk LDTs, 100 days? Is that right?

1672 Dr. Shuren. No, a little over 100 days.

1673 Mr. Burgess. So there are 11,000 and some
1674 laboratory-developed tests. You said earlier that 50 percent are
1675 low risk, so presumably, that leaves 50 percent that are in the
1676 moderate- or high-risk category, is that correct?

1677 Dr. Shuren. Yes, that is correct.

1678 Mr. Burgess. So extrapolating out the number of days,
1679 assuming none of them are high risk, they are all low risk, and
1680 that is over 100 days of evaluation at the FDA, I mean that is
1681 a phenomenal amount of work that is ahead of you, is it not?

1682 Dr. Shuren. That is one of the reasons why we have looked
1683 at phased-in approach. We have gotten feedback, too, if we should
1684 consider any changes and take a different approach for some of
1685 the tests that are currently on the market, which we are doing.

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1686 And we are also having those discussions about funding needs as
1687 part of user fee discussions, which are going on right now. They
1688 get authorized every 5 years. And that has been the natural
1689 course of business.

1690 We have those discussions with regulated industry--the
1691 laboratory community is that the table--to then talk about if
1692 people want to see a certain performance, what does that look like.
1693 We know in some of the proposals people have said for moderate-risk
1694 tests could that review time be 75 days? We can have a discussion
1695 about what it would take for review in 75 days.

1696 Mr. Burgess. I will say some of the performance metrics that
1697 were introduced after the last FDA reauthorization in 2012, I
1698 don't know that we ever got satisfactory answers back to this
1699 subcommittee or the Subcommittee on Oversight as to how the
1700 performance was on that, but there is a general unease that the
1701 FDA is able to perform its function in a timely fashion. During
1702 the time that we were doing the hearings for the FDA
1703 reauthorization, there was hardly a week that went by that there
1704 was not someone in my office with a tale of woe about a drug or
1705 device that just seemed to take forever in development and that
1706 the FDA would sometimes change the rules as that drug or device
1707 went through the development process. What assurance can we give
1708 to the laboratory-developed test community that they won't
1709 encounter similar problems with your agency going forward?

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1710 Dr. Shuren. Well, our review times have been actually
1711 improving under MDUFA III. We are meeting our performance goals,
1712 as we committed to do. So we are seeing things move in the right
1713 direction. And I don't know what is happening to people coming
1714 into your office now. I have heard from other Members that they
1715 don't have the parade of people that were coming in several years
1716 ago.

1717 And you know when I took over the program several years ago,
1718 I was very upfront with this committee and others that there were
1719 challenges in the medical device program. We had seen roughly
1720 a decade of worsening performance, and we committed to turn that
1721 around. We committed to make changes regardless of what happened
1722 with MDUFA, and then MDUFA came along to give us additional
1723 resources. And we have continued to see improved performance,
1724 and we are going to continue to work on it, as we have been doing
1725 all along.

1726 Mr. Guthrie. Thank you.

1727 Mr. Burgess. I don't know that I share your enthusiasm.
1728 Thank you, Mr. Chairman.

1729 Mr. Guthrie. Thank you. The gentleman from New Jersey's
1730 time has expired, and recognizing Mr. Cardenas from California
1731 for 5 minutes for questions.

1732 Mr. Cardenas. Thank you very much, Mr. Chairman.

1733 My first question is to FDA and CMS. Today in your

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1734 budgeting, are you being asked to do more with less?

1735 Dr. Shuren. Yes.

1736 Mr. Cardenas. I am not talking about prospectively. I am
1737 talking about in the cycle that you are currently in.

1738 Dr. Shuren. Yes, and that has been even the cycles before
1739 then. We are always asked to do more with less.

1740 Mr. Cardenas. Okay.

1741 Dr. Conway. Yes. So it is also true for CMS, long history
1742 of doing more for less. Thank you for the more with less. Thank
1743 you for the question. I mean, I have managed in the delivery
1744 system. I have managed in CMS. I have never managed somewhere
1745 as hard as this. It is ridiculously harder than running a
1746 delivery system. And the reason is the amount of resources for
1747 the job. We are deploying lean and other operational techniques
1748 to increase our efficiency, learning from manufacturing and
1749 health systems, and that is working, but this is a major issue.

1750 Mr. Cardenas. Okay. Thank you for clarifying that. I
1751 don't think the public understands how taxing it is for our
1752 agencies to continue to do more and more and more and try to protect
1753 the public and allow the American public to know or feel as though
1754 there are protections and the agencies are trying their best to
1755 look out for making sure that when they are engaged in something
1756 that is a--whether it is FDA-approved or it has gone through review
1757 of CMS, et cetera, that they can feel safe.

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1758 So thank you for continuing to wade through the struggle of
1759 doing more with less and doing your best to keep up with that.
1760 I hope that we as the holders of the purse, Congress, will
1761 recognize that and realize that we are impeding on the safety of
1762 our American citizens when we just say no to a reasonable request
1763 of resources and we just say do with what you have and do a better
1764 job and just make it happen, easier said than done.

1765 And thank you for clarifying that in the environment that
1766 you have been and that this is probably the--I interpret that what
1767 you said is this is the most difficult environment for you to do
1768 justice to your efforts than any other environment you have been
1769 in.

1770 Dr. Conway. Yes. And I--

1771 Mr. Cardenas. And understand you are not coming across to
1772 me as complaining.

1773 Dr. Conway. No.

1774 Mr. Cardenas. I think it is important that you just be
1775 honest with us the way you have been. Thank you.

1776 Dr. Conway. Yes. No, do you mind if I--

1777 Mr. Cardenas. No, go ahead, please.

1778 Dr. Conway. This is the best job I have ever had and the
1779 most impactful, which is why I have stayed, but the challenge of
1780 managing in the CMS environment with the resources we have for
1781 the duty we have for the American people is by far the hardest

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1782 job I have ever had. And I have led in the private sector, large
1783 groups, large budgets. It is nowhere close. This is the most
1784 challenging job I have ever had in my life.

1785 Mr. Cardenas. And again, I thank you for welcoming the
1786 challenge. It is too bad that we don't lessen that challenge by
1787 giving you the resources for you to be more effective without
1788 worrying about not being effective in your responsibilities.

1789 My family just got the news recently that my wife and I are
1790 going to be grandparents for the first time. And just the other
1791 day, we were invited to my daughter and my son-in-law's house,
1792 and they revealed to us it is going to be a boy. And the reason
1793 why they found is because my daughter underwent a test that went
1794 to a laboratory and the results came back. And one of the things
1795 that they could tell her--it wasn't the purpose of the test, but
1796 one of the things they could tell her is the gender of the fetus.
1797 And so it was a wonderful moment.

1798 However, what if the purpose of that test had been
1799 inadvertent, the results had been inadvertent? I think that is
1800 really what the focus of today is about. It is about safety of
1801 the public. It is about accuracy of what is going on out there.
1802 It is about whether or not they are being effective. And
1803 unfortunately, for those people who want less government or no
1804 government, there needs to be oversight from somewhere. I
1805 personally prefer that government be involved in that oversight

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1806 instead of just turning it completely over to private industries,
1807 which happens in some cases.

1808 But my question to you is, going forward, how do we as a
1809 country make sure that between CMS, between FDA, what your role
1810 can be in making sure that these critical tests, these
1811 laboratories are being accurate with the information to the
1812 patient, to the actual end-user?

1813 Dr. Shuren. Well, we have established a task force between
1814 FDA and CMS--NIH and CDC are also participating--to assure that
1815 we are not duplicating efforts. In fact, we have had
1816 conversations with certified laboratories, accrediting lab
1817 organizations under CLIA, two State licensure programs, and
1818 confirmed we are not duplicating efforts, but we do want to make
1819 sure we have good coordination moving forward. And we provide
1820 the education and information out for laboratories as well as we
1821 progress, so that work is happening in the task force right now.

1822 Dr. Conway. I agree.

1823 Mr. Cardenas. Thank you.

1824 Mr. Guthrie. They gentleman's time expired. And myself,
1825 and I think speaking for the entire subcommittee, we congratulate
1826 you on the good news and to your family, the next generation of
1827 your family, appreciate that very much.

1828 The chair now recognizes Dr. Bucshon from Indiana for 5
1829 minutes for questions.

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1830 Mr. Bucshon. Thank you, Mr. Chairman.

1831 Now, I have heard complaints that the FDA oversight of LDTs
1832 would interfere with the practice of medicine. I am a physician,
1833 cardiovascular surgeon, so I would like you both to comment as
1834 regulators but also as physicians on your view on that.

1835 Dr. Shuren. So we do not--and as a physician, we do not
1836 regulate the practice of medicine. Congress actually put in a
1837 statutory provision prohibiting us from regulating the practice
1838 of medicine in the medical device program. It is a unique
1839 provision that pertains to us. What we are regulating, talking
1840 about regulating, are the tests, the things that we regulate
1841 already today, reagents, the instruments, the protocol,
1842 instructions are used that go forward with it.

1843 In fact, a group of laboratories who were working with the
1844 device industry, the conventional IVD makers, when they sat down
1845 and went through it, they began to realize, too, you know what,
1846 there are parts here that is just like what happens in FDA:
1847 development, design, validation of tests. Then there are all
1848 these other activities that occur that are lab operations or the
1849 practice of medicine. They are not under our preview and we have
1850 never proposed to ever regulate those.

1851 Dr. Conway. And likewise, CLIA does not regulate the
1852 practice of medicine. It does regulate laboratories in terms of
1853 equipment, personnel, protocols, et cetera, which its focus is

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1854 post-market laboratory by laboratory.

1855 Mr. Bucshon. Okay. Great. And currently, CMS regulates
1856 how physicians operates a lab, as you described, and performs
1857 tests within it, but I really haven't heard any complaints about
1858 interfering with the practice of medicine myself from people that
1859 I know. Why is it that physicians feel differently maybe about
1860 the FDA oversight of these particular tests, and how can we address
1861 those concerns? Does that make sense?

1862 Dr. Shuren. It does. I think what we are dealing with are
1863 people who haven't dealt with us necessarily beforehand, and so
1864 it is new and they are assuming things that we don't believe to
1865 be the case. I hearken back to Dr. Burgess, who I respect very
1866 much, when he said when CLIA came in the door you were not a fan,
1867 but you began to realize the value of it. I would say the same
1868 thing here. As the lab community works with us--well, maybe you
1869 will allow it.

1870 Well, hopefully, we will see much the same here with the lab
1871 community in working with us. And it is our hope they will work
1872 with us to make sure that when we are doing things, it also best
1873 fits for their operations. Again, we both are committed and care
1874 about that those tests work.

1875 Mr. Bucshon. Yes. I mean I will just make a comment and
1876 I will--I mean, as a physician, obviously I want accuracy and
1877 patient safety to be at the top of the list, right? And again,

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1878 I think Mr. Shimkus said I am not one that is generally for
1879 government regulation, but I think in this area that, you know,
1880 this is a good discussion to be having on behalf of patients, and
1881 that I think the details and how things end up at the end are what
1882 are important. So I commend your hard work on trying to find the
1883 sweet spot as you go about your job.

1884 Thank you. I yield back.

1885 Mr. Burgess. [Presiding] The chair thanks the gentleman.
1886 The gentleman yields back.

1887 The chair recognizes the gentleman from Florida, Mr.
1888 Bilirakis, 5 minutes for questions, please.

1889 Mr. Bilirakis. Thank you, Mr. Chairman. I appreciate it.
1890 And this question is for the panel.

1891 As we go forward with any new regulation, regulatory scheme,
1892 we need to balance the needs between consistency, accuracy, and
1893 innovation. In disease areas such as cancer, genetic testing is
1894 evolving rapidly, and I am sure you agree with that. Many major
1895 institutions today have developed their own gene panels that help
1896 diagnose or identify potential treatments for cancer patients.

1897 For example, in Tampa we have the Moffitt Cancer Center, the
1898 only NCI-designated comprehensive cancer center in Florida.
1899 They have developed a TruSight tumor gene set, which is used to
1900 identify lung and colon cancers that will benefit from targeted
1901 therapies. In advance of the lab-developed tests is the ability

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1902 to rapidly innovate current tests rather than the slower and
1903 expensive process of resubmitting to FDA for any changes.
1904 Centers such as Moffitt have the ability to innovate and rapidly
1905 improve their lab tests as fast as science evolves.

1906 Question, how can we resolve issues regarding consistency
1907 and accuracy and not stifle innovation in these labs and important
1908 health care institutions?

1909 Dr. Shuren. So one issue for consistency, certainly we
1910 don't--we were recommending not to have two duplicative systems
1911 out there, one under FDA, one under CMS, or we will have
1912 inconsistency. But then we have found that to assure
1913 consistency, we work with the community on trying to develop
1914 standards or in guidance so that, as we learn and the science
1915 evolves, we can have more of a common playing field of what
1916 performance should look like for certain kinds of tests. And that
1917 can help ensure consistency in terms of approach.

1918 Mr. Bilirakis. Thank you. Anyone else?

1919 Dr. Conway. I agree with Dr. Shuren, and I think, you know,
1920 from the CMS perspective, we think our strength is in that
1921 post-market review laboratory by laboratory on the
1922 qualifications, equipment, and personnel.

1923 Mr. Bilirakis. Thank you. Anyone else want to jump in?
1924 Okay. Dr. Conway, since both the volume and complexity of
1925 lab-developed tests on the market today have drastically

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1926 increased in recent years, why hasn't CMS asked for these new
1927 authorities?

1928 Dr. Conway. So in terms of authorities we think FDA has a
1929 critical role in premarket review of clinical validity. We think
1930 CMS's role through CLIA really is and should be focused on
1931 laboratory-by-laboratory assessment, survey and certification
1932 and oversight of accrediting organizations, ensuring that the
1933 protocols, the equipment, and the standards are in place in
1934 individual laboratories in a post-market manner.

1935 Mr. Bilirakis. Dr. Conway, does CMS require definitive
1936 review of the clinical claims being made about the tests?

1937 Dr. Conway. And Dr. Shuren can certainly comment for FDA.
1938 On the CMS perspective, we do basic assessment of analytical
1939 validity so the analyte is the actual analyte in the test. We
1940 do not do assessments of clinical validity, meaning the test
1941 actually identifies the condition, the absence or presence of the
1942 condition it is supposed to identify.

1943 In our coverage process, we have occasionally looked at
1944 laboratory development tests for reasonable and necessary
1945 standard. There, we will look at the effect of the test on
1946 patients, but that is a very small number of LDTs we have looked
1947 at through that process.

1948 Mr. Bilirakis. Well, thank you very much, and I yield back,
1949 Mr. Chairman.

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1950 Mr. Burgess. The chair thanks the gentleman. The
1951 gentleman yields back.

1952 The chair recognizes the gentleman from New York, Mr.
1953 Collins, 5 minutes for your questions, please.

1954 Mr. Collins. Thank you, Mr. Chairman.

1955 Before I start my questions, I would ask unanimous consent
1956 to enter into the record a letter from Roswell Park Cancer
1957 Institute.

1958 Mr. Burgess. Without objection.

1959 [The information follows:]

1960

1961 ***** COMMITTEE INSERT *****

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1962 Mr. Collins. Thank you very much.

1963 In that letter they do mention the same we have talked about
1964 before, the Association of Molecular Pathology, or AMP, and their
1965 proposal, and I would certainly encourage the FDA, as we are in
1966 the discussion stage, to again take a look at this.

1967 So I guess one thing I am still trying to get clear on, you
1968 know, currently, a commercial test, something sold on the market
1969 which does have to go through FDA approval, premarket approval,
1970 and I assuming that is currently a 510(k)?

1971 Dr. Shuren. For premarket, most of them are 510(k). A very
1972 tiny number are PMA.

1973 Mr. Collins. So as a 510(k) currently, it is a medical
1974 device subject to the medical device tax, correct?

1975 Dr. Shuren. Yes.

1976 Mr. Collins. So if I understand what your guidance is now,
1977 you are going to move on IVDs out of that world, the medical device
1978 world, and have a different classification of class 1, 2, or 3,
1979 or low, moderate, whatever. Just a question, does that mean on
1980 the good news side that IVDs will no longer be subject to the
1981 medical device tax since they are not going to be getting 510(k)s?

1982 Dr. Shuren. So the trigger for the device tax is registering
1983 at the listing with the FDA. What we have proposed for LDTs is
1984 that--and we use that to know what test is being made, who is making
1985 it, and that is a requirement by law. But we have worked through

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1986 that instead they can give us a notification and not list with
1987 us, and particularly--and that is for starters. And for the tests
1988 that don't ultimately come in for premarket review, they also
1989 wouldn't end up registering and listing with us. And that would
1990 not trigger the device tax.

1991 Mr. Collins. So current tests would be still covered by the
1992 medical device tax even though there is not a 510(k) because they
1993 would be listed with the FDA?

1994 Dr. Shuren. They are registered and listed with that, and
1995 those are--

1996 Mr. Collins. Okay. That clarification is important
1997 because I have heard that kind of going all over the board.

1998 Now, another, you know, concern has been, you know, accuracy
1999 of testing, and I think it is also important to make clear
2000 laboratory-developed tests are not sold to other facilities.
2001 They are used inside a facility such as Roswell Park, which is
2002 looking at very specific treatments for specific cancers and what
2003 we call personalized medicine. They are not then selling those
2004 tests to other folks or making claims, which is different than
2005 a commercialized test, which currently goes through FDA
2006 approvals.

2007 But, you know, Dr. Conway, it is my understanding that over
2008 97 percent of the CLIA laboratory test facilities have subjected
2009 themselves to outside third-party proficiency testing of their

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2010 tests. Isn't that correct?

2011 Dr. Conway. So proficiency testing occurs in just 13
2012 specialty areas, occurs approximately three times per year. It
2013 has improved the accuracy over time. It will not assess for
2014 clinical validity of the test, so the premarket clinical validity,
2015 which Dr. Shuren spoke to, the proficiency testing does not
2016 analyze clinical validity.

2017 Mr. Collins. Well, it certainly analyzes whether you are
2018 properly getting--you know, you are identifying the antigen you
2019 are supposed to identify.

2020 Dr. Conway. So it will identify--if that
2021 laboratory-developed test was within those 13 categories, which
2022 they are not all within those 13 areas, but for an LDT that was
2023 in one of those 13 areas--and Dr. Shuren may say more--it will
2024 detect that the analyte is the analyte, but that is not an
2025 assessment of the clinical usefulness or validity of the test.

2026 Dr. Shuren. And it goes to again, if you will, the accuracy
2027 of the performance of the test as opposed to the accuracy of the
2028 test itself, which is a different look, and that is what we look
2029 at for the test.

2030 Mr. Collins. Yes. I guess I would just say it is my belief
2031 anyway that the laboratory-developed tests, certainly in
2032 institutions like Roswell Park, are being done to get better
2033 treatment, quicker treatment to the patients. And a big concern

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2034 all of us have, if this goes through, that a test might be used
2035 tomorrow to help a patient with cancer now is delayed 6 months
2036 as it goes through some kind of premarket review at FDA, which
2037 is a life-and-death situation for many of these cancers.

2038 And I think it goes back to--I think I go on to the same
2039 bandwagon as Mr. Barton and Dr. Burgess. This has not been a
2040 problem that I would identify, and putting any type of delay into
2041 this sphere of personalized medicine and treatment especially in
2042 the cancer and oncology world runs the risk frankly of causing
2043 people to die that don't need to die, treatments that could be
2044 given that would be delayed. And in the cancer world, delay is
2045 not a good thing.

2046 So personally, I would throw myself into the category I
2047 believe it is working now. We do have outside proficiency
2048 testing, third-party testing. And we have to remember these are
2049 laboratory-developed tests that are not being sold in the
2050 marketplace to other facilities, which is very different than what
2051 you are doing now.

2052 My time has expired, but if the chair would like to hear a
2053 response, I would certainly yield a couple seconds.

2054 Mr. Burgess. Sure. He is recognized for a response.

2055 Dr. Shuren. I truly appreciate those comments because we
2056 do not want to stifle innovation in this place. We want to have
2057 patients get timely access to tests. And that is why even under

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2058 an FDA mechanism if the test is being reviewed, it is being
2059 developed, it can still be made available to patients on an
2060 investigational basis or for compassionate use. But there at
2061 least you are telling the doctor and you are telling the patient
2062 we haven't validated this test yet. It is investigational. This
2063 may be--

2064 Mr. Collins. You know what, I appreciate that because my
2065 worry was they would develop a test, they couldn't use it until
2066 they had approval, but if on an investigative basis they know
2067 that--they think they have a good test they can use it, then you
2068 have actually helped me in a couple of ways there. Thank you for
2069 that response.

2070 I yield back.

2071 Mr. Burgess. The chair thanks the gentleman. The
2072 gentleman yields back.

2073 The chair recognizes the gentleman from Pennsylvania, Mr.
2074 Murphy, 5 questions for questions, please.

2075 Mr. Murphy. Thank you. Doctor, Doctor, it good to have you
2076 here, appreciate this.

2077 I want to pivot a little bit here to talk about piecing
2078 together post-market and premarket analysis to look at this, and
2079 in particular, a couple of devices used in women's health care,
2080 one is called a morcellator. Are you familiar with the
2081 morcellator, a device that is supposed to shred tumors, et cetera,

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2082 but has been associated with complications in women in terms of
2083 actually spreading cancer for them?

2084 Now, it has been on the market for 20 plus years, and the
2085 FDA admitted for the first time it became aware of the safety issue
2086 with power morcellators was after December of 2013,
2087 correspondence from a physician citing the case of a family
2088 member. This is someone who had just recently had another surgery
2089 to remove another recurrence of cancer that was spread it by the
2090 morcellator.

2091 The manufacturer was apparently aware of the dangers of this
2092 device as early as 2006 based upon a report from Dr. Lamparter,
2093 a pathologist from central Pennsylvania, who cited about 1 out
2094 of 300 samples of morcellated tissue from his hospital had
2095 evidence of a hidden cancer, which is morcellated.

2096 So my question is did the FDA have any evidence of these
2097 dangers in 2006 or prior to that? Are you aware of this problem?

2098 Dr. Shuren. So in the past the thought was what risks of
2099 cancer there may be for a fibroma--for a fibroid actually to have
2100 cancer in there--were significantly less. And one of the things
2101 when we looked into it more recently we came to a different
2102 conclusion, that the likelihood of cancer is higher. There is
2103 still disagreement in the community because, as you know, the
2104 health care professional societies disagree. They think we have
2105 overestimated the risk of cancer.

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2106 We said we have a different perspective, and that is why we
2107 went out and we put contraindications and warnings on the use of
2108 that device, that it should only be used in a more limited set
2109 or offered as an option in a limited set of women and think about
2110 primarily women who, in the absence of using the device, would
2111 no longer be able to bear children but they want to bear children.
2112 And we felt those cases the risk of the cancer is very low. They
2113 should have the opportunity to weigh in, but we scaled back
2114 dramatically how that should--

2115 Mr. Murphy. So this is a case where the science available,
2116 the premarket analysis has changed, and what is being used in the
2117 data, you have a mechanism to go forward on this and make some
2118 changes. Let me ask another question.

2119 Brigham and Women's Hospital was aware of the dangers in
2120 2012. A patient by the name of Mrs. Erica Katz was seriously
2121 injured in 2012 by the device and then died in 2013 according to
2122 reports. I wondered, do you know if that hospital reported that
2123 to the FDA? Would you know?

2124 Dr. Shuren. I am not aware that--

2125 Mr. Murphy. Is there a mechanism where the hospital is
2126 supposed to report that or the manufacturer is supposed to report
2127 that so you can do the analysis?

2128 Dr. Shuren. So user facilities have certain requirements
2129 for reporting. So do manufacturers if they become aware of

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2130 certain events. And what I can tell you is we have been looking
2131 into those concerns that have been raised regarding reporting.

2132 Mr. Murphy. Okay. In response to congressional inquiries
2133 about this, the FDA admitted that the 1-out-of-350 risk does not
2134 address other types of malignancies, which you would add to that
2135 risk, you said. They went on to say the FDA also identified
2136 studies showing that morcellated patients had worse outcomes than
2137 patients who had not undergone morcellation.

2138 So this is more than just the issue with just a fibroid or
2139 if it is cancerous. It is also a question of outcomes. Is this
2140 something that the FDA is reviewing also with regard to their stamp
2141 of approval on these things in terms of the outcome measures?

2142 Dr. Shuren. So in terms of the tests we have looked at, we
2143 think where we have constrained it right now is--for use is where
2144 the benefits outweigh the risks, but we are continuing to look
2145 at new data as it arises, and if so, we will act accordingly.

2146 Mr. Murphy. Thank you. There is another issue in women's
2147 health that was brought to my attention. It is a product called
2148 Essure. It is a permanent birth control device that went through
2149 FDA's rigorous premarket approval process. Yet despite getting
2150 the agency's approval, it has been linked to at least four deaths
2151 and deaths of five unborn children. Apparently, a total of 24,000
2152 women have come forward claiming that they have been harmed by
2153 this device. And so the question is how it remains on the market

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2154 with a potential for problems. And because this has the FDA stamp
2155 of approval, these women feel at this point they cannot take their
2156 cases forward, and they feel they don't have any recourse. Is
2157 the FDA also reviewing this issue as well as far as you know?

2158 Dr. Shuren. We are. In fact, we held an advisory committee
2159 meeting a few weeks ago at our behest to give an opportunity to
2160 put what new evidence is on the table to assure that people who
2161 wanted to raise concerns about it had an opportunity to provide
2162 those concerns. And we are now currently reviewing the feedback
2163 we received from the advisory committee, as well as what we have
2164 heard from other people, as well as the state of the evidence,
2165 and we will come out with our conclusions on that to the public.

2166 Mr. Murphy. Thank you. And as this goes through, since
2167 this hearing has been a lot about premarket analysis, what this
2168 comes down to is I just want to make sure that we are aware of
2169 what mechanism you have, because I understand the science of 1996
2170 is different from the science of 2015 and our knowledge base, but
2171 to have an ongoing mechanism for review and changes, devices and
2172 getting information there and looking at those things, I mean,
2173 I am glad you had some hearings on this, but I would certainly
2174 like to know that that is part of the system.

2175 I am out of time, but I look forward to hearing your comments
2176 on that in the future. Thank you.

2177 Mr. Burgess. The gentleman yields back. The chair thanks

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2178 the gentleman.

2179 The chair recognizes the gentleman from Texas for a unanimous
2180 consent request.

2181 Mr. Green. Mr. Chairman, I ask unanimous consent to place
2182 in the record Public Health Evidence for FDA Oversight of
2183 Laboratory-Developed Tests, 20 case studies. I ask unanimous to
2184 place that in the record.

2185 Mr. Burgess. Without objection, so ordered.

2186 [The information follows:]

2187

2188 ***** COMMITTEE INSERT *****

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may be inaccurate, incomplete, or misattributed to the
speaker.**

2189 Mr. Burgess. And I recognize myself for an additional
2190 unanimous consent request to add the statement of the American
2191 Association of Clinical Chemistry to the record. Without
2192 objection, so ordered.

2193 [The information follows:]

2194

2195 ***** COMMITTEE INSERT *****

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speaker.**

2196 Mr. Burgess. Seeing no further members wishing to be
2197 recognized for questions, I do want to remind members they have
2198 10 business days to submit questions for the record, and I ask
2199 the witnesses to respond to those questions promptly. Members
2200 should submit their questions by the close of business on December
2201 2.

2202 With that, the subcommittee stands in adjournment.

2203 Dr. Shuren. Thank you.

2204 [Whereupon, at 12:07 p.m., the subcommittee was adjourned.]

2205