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6 REAUTHORIZATION OF ANIMAL DRUG USER FEES:

7 ADUFA AND AGDUFA

8 WEDNESDAY, MARCH 14, 2018

9 House of Representatives

10 Subcommittee on Health

11 Committee on Energy and Commerce

12 Washington, D.C.

13

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16 The subcommittee met, pursuant to call, at 10:15 a.m., in  
17 Room 2322 Rayburn House Office Building, Hon. Michael Burgess  
18 [chairman of the subcommittee] presiding.

19 Members present: Representatives Burgess, Guthrie, Shimkus,  
20 Blackburn, Latta, Lance, Griffith, Bilirakis, Bucshon, Brooks,  
21 Mullin, Hudson, Collins, Carter, Walden(ex officio), Green,  
22 Schakowsky, Butterfield, Schrader, Eshoo, DeGette, and Pallone

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23 (ex officio).

24 Staff present: Zachary Dareshori, Staff Assistant; Margaret  
25 Tucker Fogarty, Staff Assistant; Ed Kim, Policy Coordinator,  
26 Health; Milly Lothian, Press Assistant and Digital Coordinator;  
27 Jennifer Sherman, Press Secretary; Danielle Steele, Counsel,  
28 Health; Austin Stonebraker, Press Assistant; Hamlin Wade, Special  
29 Advisor, External Affairs; Jacquelyn Bolen, Minority  
30 Professional Staff; Jeff Carroll, Minority Staff Director;  
31 Samantha Satchell, Minority Policy Analyst; Andrew Souvall,  
32 Minority Director of Communications, Outreach and Member  
33 Services; Kimberlee Trzeciak, Minority Senior Health Policy  
34 Advisor; and C.J. Young, Minority Press Secretary.

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35 Mr. Burgess. I now call the subcommittee to order and  
36 recognize myself five minutes for the purpose of an opening  
37 statement.

38 And the chair would note that today's hearing marks the  
39 Health Subcommittee's fourth hearing to consider reauthorization  
40 of vital user fee programs at the United States Food and Drug  
41 Administration.

42 While the bulk of these programs were reauthorized last year  
43 through the FDA Reauthorization Act, our focus today on  
44 reauthorizing the Animal Drug User Fee Act and the Animal Generic  
45 Drug User Fee Act is equally important for the millions of American  
46 families and businesses that rely on the critical function of the  
47 Food and Drug Administration's Center for Veterinary Medicine.

48 With this in mind, I expect us to reach a shared commitment  
49 to complete our work while reauthorizing these last set of user  
50 fees and get them to the House floor well in advance of the  
51 expiration date of September 30 of this year.

52 We did so last year with the FDA -- user fee reauthorization  
53 and there is no reason we cannot do so again here.

54 This morning, we will have two panels of witnesses before  
55 the subcommittee. First, I do want to welcome Dr. Steven Solomon,  
56 the director for the Center of Veterinary Medicine at the Food

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57 and Drug Administration.

58           Next, representatives from the Animal Health Institute, the  
59 Generic Animal Drug Alliance, and American Veterinary Medical  
60 Association will share their insights on the current state of  
61 United States animal drug market and the significance of  
62 reauthorizing the Animal Drug User Fee Agreement and the Animal  
63 Generic Drug User Fee Agreement.

64           Last month, the Committee on Energy and Commerce and the  
65 Senate Health, Education, Labor, and Pensions Committee released  
66 the Animal Drug User Fee Reauthorization Act of 2018, a bipartisan  
67 discussion draft to renew the FDA's authority to collect user fees  
68 from the manufacturers of brand-name and generic animal drugs for  
69 another five years.

70           Among other things, these user fees help the Food and Drug  
71 Administration's Center for Veterinary Medicine in their timely  
72 review of animal drug applications, market surveillance of animal  
73 drug safety and efficacy, and the quality assurance measures for  
74 animal food as well as food products derived from animals.

75           From pet owners and veterinarians to farmers and animal food  
76 producers, updating these user fee agreements is essential in  
77 ensuring that animal drugs are safe and effective for farm animals  
78 and our pets, while keeping our food supply safe.

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79           Reauthorizing these agreements also includes the new  
80 commitment between the FDA and industry on performance goals and  
81 procedures.

82           This will be the fourth authorization for the Animal Drug  
83 User Fee Agreement since its launch in 2004 and we have seen review  
84 several times -- we have seen it reviewed several times.

85           Under the proposed agreement, funding for the program will  
86 increase by approximately \$6 million annually. All submissions  
87 must be electronic. The Center for Veterinary Medicine is  
88 required to begin implementation of the U.S.-E.U. good  
89 manufacturing practice Mutual Recognition Agreement for  
90 inspections of pharmaceutical manufacturing facilities and  
91 review time for drug combinations for use in feed is shortened  
92 to 60 days if no additional data is required.

93           The Animal Generic Drug User Fee Agreement is going through  
94 its third authorization since 2008. The Center for Veterinary  
95 Medicine has met or exceeded nearly all of the performance goals  
96 in each five-year authorization.

97           In addition to increasing funding by approximately \$10  
98 million annually, the proposed agreement would shorten the review  
99 time for abbreviated new animal drug applications to 60 days and  
100 require all approved drugs to include these applications on the

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101 labeling.

102           Finally, I would like to commend our fellow Health  
103 Subcommittee member, Representative Mark Mullin from Oklahoma,  
104 for championing the House Animal Drug User Fee Agreement and  
105 Animal Generic Drug User Fee Agreement reauthorizations. Thank  
106 you for your hard work on this important measure.

107           I again want to welcome all of our witnesses for being here  
108 and look forward to your testimony, and I'll yield to Mrs.  
109 Blackburn of Tennessee.

110           Mrs. Blackburn. Thank you, Mr. Chairman, and to our  
111 witnesses on each panel, thank you so much for being here. And  
112 I am so grateful for the chairman's leadership and the fact that  
113 we are approaching this in a bipartisan bicameral manner.

114           We know that what you do is important. We are pleased to  
115 see the amount of progress that is made in animal drugs, whether  
116 they are for our pets or for livestock that are in the food supply  
117 chain.

118           We are wanting to focus and get some attention on the  
119 innovation side and how we speed the approval process. So we will  
120 look forward to addressing those issues with you today.

121           I yield back.

122           Mr. Burgess. Gentlelady yields back. Chair thanks the

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123 gentlelady.

124 The chair recognizes the gentleman from North Carolina as  
125 the substitute ranking member of the subcommittee, and you're  
126 recognized for five minutes for the purpose of an opening  
127 statement.

128 Mr. Butterfield. Thank you, Mr. Chairman. I'll take it any  
129 way I can get it this morning.

130 [Laughter.]

131 Thank you, Mr. Chairman. To the vice chair, Mrs. Blackburn,  
132 thank you so very much for your opening comments.

133 You're right, I am standing in for the ranking member this  
134 morning, Gene Green, who will be here momentarily I am told.

135 Thank you to the director for your willingness to come  
136 forward and to share your testimony with us today, and this  
137 hearing, Mr. Chairman, is so very important and so I associate  
138 my comments with the gentlelady from Tennessee that this is  
139 bipartisan, bicameral, and this -- these are two pieces of  
140 legislation that we must move and do it very quickly.

141 The Animal Drug User Fee Act is very important. The Animal  
142 Generic Drug User Fee Act is very important to all of us on this  
143 committee.

144 These user fee agreements are important to millions of

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145 Americans including those in my home state of North Carolina who  
146 live with companion animals every day.

147 They are also important to the agriculture community. We  
148 have many stakeholders in this legislation. Some of you may not  
149 be aware that North Carolina, my state, is the second largest pork  
150 producer, the second largest turkey producer, and the third  
151 largest poultry producer in the entire country.

152 Our agriculture community and family farms are essential to  
153 feeding our nation and they depend on medicines to keep their  
154 animals very healthy.

155 Mr. Chairman, I support reauthorization of these programs.  
156 I look forward to hearing about the innovation that's taking place  
157 in the animal drugs and how we can support the health of animals  
158 and human beings as well.

159 Thank you for the time. I yield back.

160 Mr. Burgess. Gentleman yields back. The chair thanks the  
161 gentleman.

162 Chair would now like to recognize the gentleman from Oregon,  
163 chairman of the full committee, Mr. Walden, five minutes.

164 The Chairman. Thank you very much, Mr. Chairman. Thanks  
165 for holding this hearing and good morning to everyone. We look  
166 forward to yet another "UFA" hearing.

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167           We have a history of producing bipartisan user fee  
168 reauthorizations and most recently as last year, and so I look  
169 forward to continuing in those efforts with this one.

170           Whether it be livestock or house pets, the owners of these  
171 animals rely on the Food and Drug Administration to ensure the  
172 availability of safe and effective medical products to keep their  
173 animals healthy.

174           Through the Center for Veterinary Medicine, FDA evaluates  
175 new drugs to determine if the safety and efficacy of those  
176 treatments work for their stated use.

177           In the case of livestock, CVM must also ensure the drug will  
178 not impact the food supply and not harm the environment or the  
179 health of the livestock producer who administers it.

180           But the hard work of developing and manufacturing these drugs  
181 is done by the animal drug industry and these companies face unique  
182 challenges that need to be considered including R&D processes that  
183 involve developing and manufacturing drugs for different species  
184 of animals with different physiologies.

185           So given the success of the human drug user fee programs in  
186 expediting approval of treatments by bolstering resources for the  
187 agency, the FDA and the animal drug industry came together to  
188 propose the animal drug user fee programs.

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189           These programs have succeeded in dramatically reducing  
190 review times by providing the FDA with much-needed additional  
191 resources. So it is a win-win scenario where everyone benefits  
192 including farmers, pet owners, and veterinarians.

193           Today, we are considering the reauthorization of those  
194 programs -- the Animal Drug User Fee Act and the Animal Generic  
195 Drug User Fee Act -- both of which will expire at the end of the  
196 fiscal year.

197           So it is critical that these programs are passed and signed  
198 into law well before the end of September. Before each  
199 reauthorization, as set forward in statute, FDA meets with the  
200 animal drug industry to reevaluate specific goals for review time  
201 lines, solicits comments from stakeholders and members of the  
202 public to consider additional enhancements.

203           Then the final agreement is delivered to Congress for the  
204 program to be reauthorized. So for this cycle, that process began  
205 in May of 2016 and after numerous public meetings, the final  
206 negotiated recommendations were sent to Congress in January of  
207 this year.

208           This year's agreements include increased collections from  
209 industry as well as more aggressive performance goals for the FDA.  
210 They also include several process improvements and other

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211 enhancements.

212 We look forward to hearing more about these agreements from  
213 our witnesses today. Encouraging innovation is a top priority  
214 of this committee and we want to take this opportunity to examine  
215 the animal drug approval process to ensure the incentives are in  
216 place to encourage innovative treatments to be developed and for  
217 generic animal drugs to be made available.

218 And we don't often think of the FDA when it comes to animal  
219 drugs, sadly, but these programs are critical and are important  
220 to pet owners of America and our farmers and ranchers that we rely  
221 on to produce food.

222 And so we appreciate our witness -- the witness today. We  
223 are actually going to get the wisdom of Solomon today, apparently.  
224 So we do appreciate that.

225 And with that, I would yield the remainder of my time to Mr.  
226 Mullin, I believe, who is seeking time and been a real leader on  
227 this effort.

228 So Mark, I'll turn it over to you.

229 Mr. Mullin. Thank you, Mr. Chairman.

230 I want to thank you and Chairman Burgess for holding this  
231 hearing. I am proud to be the sponsor of the legislation to  
232 reauthorize the Animal Drug User Fee Act and its generic version.

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233 ADUFA and AGDUFA will reauthorize user fee agreements  
234 between the FDA and the animal drug industry to help speed the  
235 approval of new and generic drugs for farmers, ranchers, families,  
236 and veterinarians so they can keep their animals and pets safe  
237 and healthy.

238 In the last reauthorization, the FDA committed to working  
239 with industry to complete recommendations for expanding  
240 conditional approval. I want to reaffirm my commitment to  
241 working with the FDA and to industry to come to a consensus as  
242 early as possible so we can continue to drive innovation.

243 Thank you to our witnesses for being here today. I look  
244 forward to hearing your testimony regarding the importance of a  
245 clean reauthorization for our farming and ranching communities,  
246 and I yield back.

247 Thank you.

248 Mr. Burgess. Chair thanks the gentleman. The gentleman  
249 yields back.

250 The chair recognizes the gentleman from New Jersey, the  
251 ranking member of the full committee, Mr. Pallone, five minutes  
252 for an opening statement, please.

253 Mr. Pallone. Thank you, Mr. Chairman. Today we will be  
254 examining the FDA's animal drug user fee program and the animal

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255 generic drug user fee program, and these critical user fee  
256 agreements have helped to accelerate the development of animal  
257 drugs, reduce application review times at FDA and create a more  
258 predictable and streamlined process for getting animal drugs to  
259 market to help improve the health of our pets and food-producing  
260 animals.

261 Last month, this committee, along with the Health Committee  
262 in the Senate, released a bipartisan discussion draft that  
263 reauthorizes FDA's authority to collect user fees from the animal  
264 drug and generic animal drug industries for an additional five  
265 years as the current authorization for these programs will expire  
266 on September 30th.

267 The discussion draft reflects bipartisan agreement and the  
268 recommendations negotiated between FDA and the animal drug  
269 industry with input from farmers and ranchers, veterinarians,  
270 food and feed producers, and other public health stakeholders.

271 And these agreements are critically important to pet owners,  
272 veterinarians, and farmers so they have access to safe, effective  
273 and affordable medications for their animals and we want our pets  
274 to have the best are possible and we must ensure that we keep our  
275 food supply safe. The animal drug user fee program furthers both  
276 of these goals.

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277 I expect we will hear also testimony today on FDA's work to  
278 address antimicrobial resistance from the use of antimicrobial  
279 in food-producing animals.

280 I am very interested in what the center for veterinary  
281 medicine is doing to ensure the continued effectiveness of  
282 antibiotics and how we can protect both animals and humans from  
283 the growing threat of antimicrobial resistance.

284 And I look forward to helping to move these agreements  
285 through Congress in a timely fashion so the Center for Veterinary  
286 Medicine at FDA can continue its important work.

287 I don't think anyone else wants my time, and if they don't  
288 I will yield back.

289 Thank you, Mr. Chairman.

290 Mr. Burgess. Chair thanks the gentleman. Gentleman yields  
291 back.

292 This concludes with member opening statements. The chair  
293 would remind members pursuant to committee rules all members'  
294 opening statements will be made part of the record.

295 Again, we want to thank all of our witnesses for being here  
296 today and taking the time to testify before the subcommittee.  
297 Each witness will have an opportunity to give an opening statement  
298 followed by questions from members.

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299           Our first panel today is Dr. Steven Solomon, the director  
300 of the Center for Veterinary Medicine, the United States Food and  
301 Drug Administration.

302           We certainly appreciate you being here this morning, Dr.  
303 Solomon. You are now recognized for five minutes to give a  
304 summary of your opening statement, please.

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305 STATEMENTS OF DR. STEVEN SOLOMON, DIRECTOR, CENTER FOR VETERINARY  
306 MEDICINE (CVM), FOOD AND DRUG ADMINISTRATION (FDA)

307

308 Mr. Solomon. Good morning, Chairman Burgess, the acting  
309 ranking member, Chairman Walden, and Ranking Member Pallone. I  
310 am Dr. Steve Solomon, director for the Center for Veterinary  
311 Medicine at the Food and Drug Administration.

312 I thank you for the opportunity to discuss FDA's proposals  
313 for the reauthorization of the Animal Drug User Fee Act and the  
314 Animal Generic Drug User Fee Act.

315 I recently returned to CVM as the director after working  
316 extensively in other roles in FDA. This is a very good time to  
317 be at CVM for a number of reasons, including the fact that we are  
318 seeing the development of significant and innovative new animal  
319 products.

320 New animal drugs offer the promise of longer and healthier  
321 life for our pets and other companion animals. For example, FDA  
322 has approved new oncology treatments for dogs, targeting  
323 canine-specific tumors.

324 The drugs represent a significant advance for veterinary  
325 medicine, which traditionally relies on human oncology  
326 treatments. In recent years, FDA has approved innovative therapy

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327 options that target bone changes to treat a common cause of  
328 performance-ending lameness in horses.

329 New stem cell therapies offer great promise for future  
330 veterinary treatments and cures. Meanwhile, approval of the  
331 first generic version of a vital heartworm treatment has  
332 alleviated a shortage of this critically important treatment for  
333 dogs and provides an alternative to pet owners.

334 FDA plays a vital role in animal agriculture by reviewing  
335 the safety and efficacy of new animal drugs for food-producing  
336 animals such as cattle, pigs, and chickens.

337 For food-producing animals we also evaluate whether products  
338 derived from treated animals are safe for human consumption.  
339 Awareness of the public health challenge created by antimicrobial  
340 resistance has led to important changes in animal agriculture.

341 For example, as an alternative to antimicrobials, FDA  
342 approved a new treatment to prevent mastitis in dairy cows. At  
343 the same time, animal welfare awareness has grown and we have  
344 approved the first drug to reduce pain in food-producing animals.

345 FDA considers timely review of new animal drug safety and  
346 effectiveness to be central to the agency's mission to protect  
347 and promote human and animal health.

348 ADUFA and AGDUFA are highly successful programs that enhance

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349 the availability of food products for food-producing and  
350 companion animals.

351 Before their enactment, FDA CVM had a large backlog, overdue  
352 submissions, and sponsors had to wait an average 500 to 700 days  
353 for drug review. However, thanks to ADUFA and AGDUFA user fees,  
354 CVM eliminated the backlog in applications and has dramatically  
355 reduced review times.

356 Both programs enable FDA to maintain an outstanding  
357 scientific and technical workforce, improve timely communication  
358 with drug sponsors, and achieve other efficiencies in the drug  
359 approval process while maintaining scientific standards for drug  
360 safety and efficacy.

361 Without reauthorization, however, both programs will sunset  
362 on October 1st, 2018. Timely reauthorization is needed to assure  
363 FDA's ability to deliver continued high levels of performance and  
364 ensure there are no disruptions to these important programs.

365 The ADUFA IV proposal built on the success of prior ADUFA  
366 achievements and proposes changes to current performance goals  
367 to enhance the review.

368 In it, FDA agrees to maintain current performance goals for  
369 most applications and submissions and to add four new performance  
370 goals to enhance the exchange of scientific information.

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371 FDA would slash the time frame for reviewing categorical  
372 exclusion and Animal Drug Availability Act combination medicated  
373 feed requests by two-thirds.

374 We also establish new goals for pre-submission conferences  
375 and tissue residue method demonstrations. ADUFA IV also includes  
376 an FDA commitment to work on the implementation of the  
377 U.S.-European Union Good Manufacturing Practice Inspection  
378 Mutual Recognition Agreement for animal drug facilities.

379 The AGDUFA III agreement includes significant additional  
380 financial commitments from the animal generic drug industry that  
381 reflect its gross. These resources will help significantly  
382 decrease review time for multiple generic submissions and provide  
383 greater review predictability.

384 Both the ADUFA and AGDUFA recommendations require 100  
385 percent electronic submission starting next year to facilitate  
386 efficient review.

387 Additionally, both programs include financial  
388 recommendations to bolster the program's stability. The ADUFA  
389 IV and AGDUFA III agreements, produced with considerable input  
390 from FDA, industry, and other important stakeholders, build on  
391 the achievements of these highly successful programs.

392 They will ensure FDA has the resources needed to conduct

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393 timely reviews and assist drug sponsors in fostering innovation,  
394 enhancing access to safe and effective therapies for  
395 food-producing and companion animals.

396 FDA looks forward to working with the committee to achieve  
397 a timely reauthorization of these important human and animal  
398 health programs.

399 Thank you for the opportunity to discuss the ADUFA and AGDUFA  
400 programs and I'd be happy to answer any questions.

401 [The prepared statement of Dr. Solomon follows:]

402

403 \*\*\*\*\*INSERT 1\*\*\*\*\*

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404 Mr. Burgess. Chair thanks the gentleman and I do want to  
405 thank you for taking time to give us testimony this morning.

406 We will move into the portion of the hearing where members'  
407 questions are heard and I will begin by recognizing myself for  
408 five minutes.

409 And Dr. Solomon, you referenced the implementation of the  
410 U.S.-European Union Good Manufacturing Process Inspection. What  
411 are some of the particular challenges that you face with that?

412 Has it been -- has that been more straightforward or more  
413 difficult than you would have anticipated?

414 Mr. Solomon. So thank you for that question.

415 We are still in the early stages of doing that. The E.U.  
416 GMP Inspection Mutual Recognition Agreement started on the human  
417 side and it then will move over to the veterinary side later on.

418 So on the human side it's been making good progress. Once  
419 again, lots of countries in the E.U. they need to be assessed.  
420 What we've discovered is that not all the authorities in the E.U.  
421 have the same authorities on the human side as they do on the animal  
422 drug side.

423 So as we progress through it and looking at the animal drug  
424 side, we are going to utilize the information that the human side  
425 has collected as part of their agreement.

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426 But as we move into it we are going to need to look at the  
427 countries and conduct assessments of them that has separate  
428 authorities in the E.U. countries for the animal side.

429 Mr. Burgess. So there is an increase in funding in the  
430 proposed legislation that Mr. Mullin has given us. How do you  
431 propose that the Food and Drug Administration is going to utilize  
432 the additional resources and perhaps how is that going to help  
433 us improve the review process?

434 Mr. Solomon. So we are going to be hiring additional  
435 reviewers on both sides to meet the new performance commitments.  
436 There will be approximately 20 new reviewers in different  
437 disciplines on the animal drug user fee side and around 30 new  
438 people hired on the generic drug user fee side, and some of those  
439 resources will be able to be used for implementation of the E.U.  
440 agreement where we need to go over to the E.U. and get the  
441 assessments of the other countries' regulatory authorities and  
442 oversight over GMP animal facilities.

443 Mr. Burgess. Just for a point of reference, how large is  
444 the workforce, currently?

445 Mr. Solomon. So the current user fees represent around 30  
446 percent of the -- of the animal drug -- 35 percent of the staff  
447 on the animal drug review side and around 60 percent of -- on the

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448 generic drug user fee side.

449 So those are covered by user fees.

450 Mr. Burgess. Okay. So there are more aggressive approval  
451 goals that are laid out in this -- in this reauthorization. You  
452 have already alluded to it somewhat but, again, could you just  
453 briefly delineate the steps the FDA will be taking to meet these  
454 goals?

455 Mr. Solomon. Certainly. So we've already been doing  
456 planning in anticipation of getting this. Part of the process  
457 is going to be earlier communication.

458 We have a phase review process in CVM where we really interact  
459 with the industry very early in the process where they're still  
460 in developmental stage process.

461 We want to enhance that early communication. Before while  
462 they're developing -- the industry is developing a drug, let's  
463 meet with them early and make sure we understand what the data  
464 requirements -- what type of clinical studies are going to need  
465 to be done so that we can very quickly decide what those are.

466 We are also reducing time frames for some unique aspects of  
467 the categorical exclusion in some of our environment findings.

468 On the generic drug side, we are dramatically reducing the  
469 time frames to be able to get generic animal drugs to the market

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470 sooner.

471 Mr. Burgess. So on the issue of the electronic submissions  
472 that I believe are going to be required in this reauthorization,  
473 obviously, there are going to be benefits to electronic  
474 submission. Would you care to share those with us?

475 Mr. Solomon. Thank you.

476 So electronic submission is a big step in trying to do it.  
477 When I first started at CVM 28 years ago, there used to be trucks  
478 backing up with these volumes and volumes of paper that needed  
479 to be reviewed.

480 Trying to then take those and give them to the different  
481 disciplines was quite a challenge. The electronic review process  
482 makes the review much more efficient.

483 Everyone and all the different scientists have access to the  
484 data in a much more expedient way and makes it a much more efficient  
485 process of review.

486 Mr. Burgess. Well, again, I thank you for being here this  
487 morning. Thank you for your testimony and taking our questions.

488 I would now like to recognize Mr. Butterfield from North  
489 Carolina for your questions, please.

490 Mr. Butterfield. Thank you very much, Mr. Chairman.

491 Dr. Solomon, thank you for your testimony today. Dr.

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492 Solomon, I've heard from some of my colleagues and some of my  
493 constituents about expanding the use of what is called conditional  
494 approval and it's my understanding that the FDA believes that it  
495 needs legislation to provide authority to allow this conditional  
496 approval to be used for major uses in major species.

497 Is -- am I right or wrong about that?

498 Mr. Solomon. You are correct.

499 So Congress gave us statutory authority back in 2004 for use  
500 of conditional approval in minor species or minor use in major  
501 species.

502 What that does is the applicants' sponsors still need to  
503 prove the safety, the environmental controls, the human food  
504 safety but allows a five-year time frame to demonstrate the  
505 efficacy of the product while it can be on the market.

506 We've had discussions with industry that in order to help  
507 spur innovation trying to get this applied to major species under  
508 certain conditions, the conditions being that it's got to be for  
509 serious illness or disease in major species that really have unmet  
510 veterinary medical needs or public health needs and for studies  
511 that have difficulty in demonstrating efficacy.

512 So things that we would envision would be more chronic  
513 disease conditions, things like congestive heart failure or

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514 chronic renal disease, osteoarthritis -- things that it would be  
515 difficult to do the efficacy studies because you need to measure  
516 things over time.

517 We think additional approval would be a welcome addition to  
518 try and get additional products on the market.

519 Mr. Butterfield. Can you describe the safety requirements  
520 that must be met for conditional approval?

521 Mr. Solomon. So the safety requirements have to be met  
522 exactly the same as for any other approval. So there is no  
523 difference in the safety that needs to be demonstrated before  
524 marketing.

525 The only difference on conditional approval is the time frame  
526 for efficacy requirements, which can be up to five years after  
527 the product starts marketing.

528 Mr. Butterfield. Would any of the drug companies that we  
529 deal with have an incentive to provide a drug under conditional  
530 approval that it does not believe to be effective?

531 Mr. Solomon. So there's a requirement in the conditional  
532 approval that they need to submit status reports on an annual  
533 basis, as least as it's currently applied to minor use minor  
534 species, on the progress they're making on the efficacy  
535 requirements.

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536           And then if they do not meet it, they need to come in at five  
537 years for the full standard for efficacy, which means substantial  
538 evidence of efficacy at the end of that five periods.

539           If not, the way the MUMS Act works and what we would hope  
540 in any future one is that product is no longer allowed to be  
541 marketed.

542           So it gives them time to do the efficacy studies -- those  
543 challenging efficacy studies that are meeting unmet veterinary  
544 medical needs.

545           Mr. Butterfield. Dr. Solomon, I appreciate the work that  
546 the FDA has done to expedite the process of approval for animal  
547 drugs and I really appreciate your testimony earlier about how  
548 it was 28 years ago when the trucks would back up to your building.  
549 I can just envision that now.

550           In your testimony, you mentioned that the agreement  
551 recommends that 100 percent of the applications be submitted  
552 electronically and only 58 percent of applications were submitted  
553 in fiscal year 2017 that way.

554           Will the FDA provide any support to help with that transition  
555 to electronic applications, what I call 21st century technology?

556           Mr. Solomon. Yes. So we recognize that on the pioneer  
557 side, most of the submissions are coming in on electronic on the

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558 generic side. There is -- these are generally smaller companies,  
559 newer companies.

560 We want to provide assistance to try and get there, and it  
561 also includes some IT enhancements in the funding to help CVM  
562 support making that transition over so we can get everyone to the  
563 100 percent submission goal.

564 Mr. Butterfield. And are the sponsors ready to make that  
565 transition or do they have some anxiety about it?

566 Mr. Solomon. I think they're generally anxious to try and  
567 do it. I think they see the efficiencies in it. But I think it's  
568 a great question for the panel coming up.

569 Mr. Butterfield. All right. All right. Thank you.

570 I yield back, Mr. Chair.

571 Mr. Burgess. Gentleman yields back. Chair thanks the  
572 gentleman.

573 Chair recognizes the gentleman from Kentucky, the vice  
574 chairman of the committee, Mr. Guthrie.

575 Mr. Guthrie. Thank you very much.

576 Actually, I can't let the chairman's comment of the wisdom  
577 of Solomon this morning go. I know you probably hear that all  
578 the time and I apologize.

579 But trying to be a little more disciplined myself, as Solomon

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580 talked about, and trying to read the proverbs of the day -- of  
581 the chapter of the month, and so today being the 14th Proverbs  
582 -- and if you read Proverbs every day there's always something  
583 you're going to face.

584 So Proverbs 14:4 says where there are no oxen, the manger  
585 is empty but from the strength of an ox comes abundant harvest.  
586 So what we are doing here goes back to understanding we have to  
587 have a good agriculture, even back in the Bible times --

588 [Laughter.]

589 -- and from -- and proclaimed by Solomon, which is the  
590 standard of wisdom.

591 And some of the questions they've already -- I guess some  
592 of your testimony piqued all of our interest because I am going  
593 to kind of touch on it again because I was going to ask that.

594 But first, can you please explain ADUFA IV performance goals  
595 specifically around shortening the review time frame for  
596 combination medicated fee?

597 Mr. Solomon. Sure.

598 So this was an agreement under -- that we worked on during  
599 the previous time frame. So there's a number of medicated fees  
600 that combine various different drugs, usually for different type  
601 conditions.

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602           So there might be some combination that there might be a need  
603 for an anti-parasitic drug, for, say, conidia. At the same time  
604 they may be treating an bacterial infection type area.

605           So in the medicated feed area we wanted to not subject each  
606 of them to a separate approval requirement when each drug had  
607 already gone through an approval combination.

608           When we put these two combinations together, we need to make  
609 sure that they're not interfering with each other -- the two drugs  
610 together.

611           Putting drugs in the feed supply is often the most efficient  
612 way to get it into food-producing animals.

613           So we worked with the industry to come up with a shortened  
614 time frame to evaluate these drugs when they combine them together  
615 in medicated feeds.

616           Mr. Guthrie. Okay. Thanks.

617           And the second question I was going to talk about the  
618 electronic submission and it was kind of asked but at the very  
619 end you said that would be a good question for the next panel why  
620 we haven't gotten a higher percentage from 58 to 100 percent, and  
621 we'll do that -- ask them that.

622           What kind of challenges are you seeing from -- for some  
623 reason, they're not -- obviously, I don't know if it's all their

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624 issues for not getting the 100 percent but what kind of challenges,  
625 from your perspective, do you think the next panel should be  
626 looking at to address?

627 Mr. Solomon. So I think my understanding is this is mainly  
628 some of the newer companies. Often, we have companies that are  
629 new on the generic side to this and just simply haven't developed  
630 the structure for all the electronic pieces.

631 We give lots of guidance on what we expect in a submission,  
632 how to put it together, how to facilitate the electronic entry.  
633 We have a pathway for moving it.

634 We are going to try and provide, you know, help desk  
635 assistance for anyone that needs assistance in getting that  
636 electronic review.

637 So we all benefit from getting the electronic review process  
638 and we want to work with the industry to get to that objective.

639 Mr. Guthrie. Do you think 100 percent is attainable by 2019?

640 Mr. Solomon. We will work closely with them to try and meet  
641 that goal.

642 Mr. Guthrie. That's a good answer.

643 So and Dr. Burgess talked a little bit about the  
644 U.S.-European Union good manufacturing practices for animal drug  
645 facilities. What is the time frame for this agreement?

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646           And I know you said they're doing the human and then the  
647 animal. But what's the time frame for the agreement and when do  
648 you expect to see that?

649           Mr. Solomon. So the way the agreement is drafted, the  
650 agreement got signed on the human side in March of 2017 and they're  
651 still going through the assessment. A number of the E.U.  
652 countries have already been reviewed and are now part of the  
653 agreement.

654           In December, we met with the European Union to lay out our  
655 goals and objectives for trying to move it on the animal side and  
656 we have an objective by making a determination by July of 2019  
657 whether we are going to be successful in trying -- moving that  
658 agreement forward in the time frame for meeting that assessment  
659 so we can evaluate the GMP conditions on the animal side of the  
660 house.

661           Mr. Guthrie. Okay. Well, thank you very much and that  
662 concludes my questions. I appreciate your testimony.

663           I yield back.

664           Mr. Burgess. Chair thanks the gentleman. Gentleman yields  
665 back.

666           Chair recognizes the gentleman from Oregon, Dr. Schrader,  
667 five minutes for questions, please.

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668 Mr. Schrader. Thank you very much, Mr. Chairman. I  
669 appreciate it.

670 Welcome, Dr. Solomon.

671 Mr. Solomon. Thank you.

672 Mr. Schrader. Very impressive, the results you guys have  
673 gotten as a result of the previous ADUFA agreements. The  
674 performance measures speak for themselves -- 95 to 100 percent  
675 success in all the different areas.

676 Most agencies would die to have that sort of track record  
677 at the end of the day and you're stepping up and willing to reduce  
678 time lines and do some more with a little assistance from industry.

679 I guess the comment I would make is that it's just great to  
680 see these public-private partnerships. I mean, that's ideally  
681 the way things are supposed to work. We are in this together.  
682 It's not one versus the other but helping one another get the job  
683 done for humans and, in this case, for our animal friends.

684 As a veterinarian, I am very interested in the conditional  
685 use approval process. Frankly, in the animal field we are a  
686 smaller population, usually not quite as remunerative as it is  
687 with our human medical colleagues and as a result the conditional  
688 use process is critical for us to be able to access some of these  
689 medications in a more timely manner and make them available to

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690 our patients and, frankly, some of the work that's done on our  
691 patients benefits our human colleagues, at the end of the day.

692 So I am very interested in the potential expansion of the  
693 conditional use process, you know, when you were before the Health  
694 Committee you indicated that you felt that at least for the minor  
695 species -- minor use it was working pretty well.

696 But we are getting a little behind the time line. It was  
697 2015 I think at one point and looking at the expansion of the scope  
698 you alluded to it, I think, in your comments both to the chair  
699 and to Mr. Butterfield.

700 But when do you think we are going to be finishing this  
701 expansion and hopefully getting to full conditional use for the  
702 major species as well as the minor?

703 Mr. Solomon. So thank you for your interest in our issues.  
704 So, once again, it needs statutory language to expand it for the  
705 additional approval in major species.

706 Once again, this is not for all uses. This is for  
707 significant serious disease conditions, unmet veterinary or  
708 medical needs.

709 We certainly could see this for certain zoonotic diseases  
710 that may arise where you need to get a drug out. You want to show  
711 that the product is safe, which needs to be shown beforehand.

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712 Some of the efficacy requirements may come later but in critical  
713 public health issues, which I am sure you recognize, it might be  
714 about there.

715 So we met earlier this year with the drug industry. We  
716 shared the interest in moving this forward. Our staffs have been  
717 working really closely on this issue over the past month and a  
718 half.

719 And if Congress is interested in the conditional approval  
720 we would love the opportunity to provide some technical assistance  
721 on that issue.

722 Mr. Schrader. Great. I would like to see that move forward  
723 because there are unmet needs and there are some difficult  
724 processes. Neither one of those, I think, would be a good  
725 justification for some of the -- some of the changes in the  
726 conditional approval process to be very helpful.

727 Getting back to the -- to the minor uses major species and  
728 minor species piece, there are -- my understanding from the  
729 testimony there's only been four, really, applications and only  
730 one been approved.

731 What's the -- is there a problem in the process here or do  
732 you need some more help from us?

733 Mr. Solomon. So it is a little disappointing. We'd hoped

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734 that we'd have -- that incentive would be more products out there.  
735 Of the four products one was an aquiculture product that got  
736 approved -- clearly, a needed area of resources.

737 Two of them demonstrate some of the challenges. So two were  
738 cancer-causing -- drugs to fight cancer. One drug, simply the  
739 firm withdrew it because it was not demonstrating efficacy. They  
740 didn't have the right doses so they determined -- let me take this  
741 off the market, go do some more work and come back.

742 One just couldn't get the efficacy standard and therefore  
743 had to be withdrawn, and we have another one that's currently in  
744 the pipeline that looks promising.

745 Mr. Schrader. You're seeing the incentives seem to be okay?  
746 It's just maybe a company is getting used to the process or getting  
747 familiar with the opportunity?

748 Mr. Solomon. Once again, firms that are looking for the --  
749 usually in the minor species are generally small firms, and while  
750 the economic incentives for major species are often a challenge  
751 compared to the human side, it's even more challenging on the minor  
752 species side.

753 Mr. Schrader. Okay.

754 And then ADUFA III accelerated the process quite a little  
755 bit, replaced the end review amendment process and shorter second

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756 round reviews.

757 Any problems with safety as a result of doing those things?  
758 Any problems crop up as a result of making the process more  
759 efficient?

760 Mr. Solomon. No. I think safety is always a paramount  
761 concern and, once again, our process doesn't just stop with the  
762 approval process.

763 We have post-marketing activities that monitor the safety  
764 of drugs. We have the largest adverse event database in the  
765 world.

766 We work with other countries on harmonizing that data and  
767 we use that data if we ever have to make adjustments to a product  
768 and work with industry to continue to ensure the safe use of animal  
769 drugs.

770 Mr. Schrader. Very good. Thank you, and I yield back.

771 Mr. Burgess. Chair thanks the gentleman. The gentleman  
772 yields back.

773 The chair recognizes the gentleman from Indiana, Dr.  
774 Bucshon, five minutes for questions, please.

775 Mr. Bucshon. Thank you, Mr. Chairman.

776 This year's ADUFA includes a new goal for tissue residue  
777 method validation.

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778 First, can you explain what this is, in layman's terms, and  
779 then describe how this validation of tissue residue methods may  
780 have led to delays in approval of new drugs in the past?

781 And then could you walk us through how you plan to meet the  
782 new review goal of 120 days for this measure?

783 Mr. Solomon. So thank you.

784 So a tissue residue method is for a animal drug that's going  
785 to be used in food-producing animals. We need to develop a method  
786 -- industry needs to develop a method and then we need to do  
787 validation of the method to make sure that any -- the levels and  
788 the determination of the safety in meat, milk, or eggs has been  
789 determined and this is the method that would be used to evaluate  
790 that in the food supply once the products go on the market.

791 We work -- we have an office of research as part of CVM that  
792 does this work. This is the first time we actually put a goal  
793 time period to be able to meet the objective of developing the  
794 tissue residue method and validating that method and because of  
795 the agreement we are now able to hire additional resources and  
796 people that -- research scientists that can work out in our office  
797 of research to be able to support the tissue residue method.

798 Mr. Bucshon. So protecting the public health and providing  
799 the best animal health and welfare can only be achieved through

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800 continued advancements in innovation.

801 I hear of a need for more innovation in animal health due  
802 to the unmet medical needs. What are some of the ways the agency  
803 can spur innovation to meet some of these needs?

804 Mr. Solomon. So we are doing a lot of different work to  
805 communicate with firms early and be able to get new products on  
806 the market.

807 One of the ways is we do different surrogate end points. One  
808 example is there's a disease of Addison's disease which is a low  
809 level of cortisol. Cortisol levels are hard to measure because  
810 they're a natural hormone in the body. So we've used surrogate  
811 end points to measure sodium and potassium ratios rather than  
812 looking at the end point. We use different clinical designs.

813 So I talked earlier about use of the drugs in food producing  
814 animals. So if you're trying to reduce pain you can't ask the  
815 cow, you know, on a score of zero to 10 how painful are you.

816 So we actually worked on it in designing a method with the  
817 firm that the animals have a foot lameness problem and we actually  
818 figured out how to use pressure mats to determine how much weight  
819 they're putting on it.

820 If they're less painful, these pressure mats will be able  
821 to weigh the difference about how much weight they're putting on

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822 those mats. So we use those methods.

823 We use data from foreign countries so we approved a drug for  
824 noise aversion. Dogs -- some animals get very scared when there's  
825 thunder or fireworks, and so we use data actually gathered in  
826 European studies, transferred that data because we work closely  
827 with our international colleagues to try and get that data to be  
828 able to suffice and reduce the number of animals that are used  
829 in studies.

830 We use other methods such as -- we approved a drug for a  
831 follicle-stimulating hormone, which is a drug for super  
832 ovulation. We did that review using literature review and  
833 meta-analysis without having to use clinical studies.

834 We used every technique that we can to try and get innovative  
835 products to market by early communication with the firm in  
836 designing how these studies should look.

837 Mr. Bucshon. Great. Thank you.

838 I yield back, Mr. Chairman.

839 Mr. Burgess. Chair thanks the gentleman. Gentleman yields  
840 back.

841 Chair recognizes the gentlelady from Indiana, Mrs. Brooks,  
842 five minutes for questions, please.

843 Mrs. Brooks. Thank you, Mr. Chairman, and thank you for

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844 being here.

845 Can you talk a little bit about the improved wait times and  
846 what the average wait times are for pioneer drug review responses  
847 and generic drug review responses, respectively?

848 Mr. Solomon. So there's two ways that a firm can put drugs  
849 onto the market. One way is to wait and put all their submissions  
850 of all their technical sections -- their target animal safety,  
851 their efficacy studies, their environmental review, their human  
852 food safety if it's for food-producing animals, and submit that.

853 We determined a long time, working with industry, a much  
854 better way is to do a phase review process where the firms come  
855 in much earlier in the developmental process, meet with us early,  
856 talk about those kind of design of the studies there, and therefore  
857 work on each section as they have the appropriate resources and  
858 they're gathering the data, submit that data to us, and then that  
859 technical section gets a review.

860 So the wait times are a little -- it's not the same way as  
861 it is on the human side because most of these are phased review  
862 processes.

863 We are working with the firm as they're doing the studies,  
864 submitting those pieces, and we are continuing to meet our --  
865 that's the way that the performance goals are written to have the

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866 time frames.

867 As mentioned now several times, we've been very successful  
868 in achieving our time frame for each of those actual submission  
869 time frames.

870 Mrs. Brooks. I understand, though, that prior to the ADUFA  
871 fee process and user fee programs that there used to be, like,  
872 500 days average wait time, 700 for generic. What have you gotten  
873 those down to, on average, now? And I appreciate it's an average  
874 but --

875 Mr. Solomon. Right.

876 Mrs. Brooks. -- what kind of time frame are we looking at  
877 now?

878 Mr. Solomon. So we are getting closer towards these 180-day  
879 time frames. You know, it depends how many times -- what the work  
880 looked like, the quality of the submissions.

881 But we've dramatically reduced the time frames from where  
882 we used to be prior to the use fees.

883 Mrs. Brooks. And congratulations. Anything else you need  
884 with respect to either the process or resources to increase that  
885 wait time -- or to decrease that wait time, rather?

886 Mr. Solomon. The user fee agreements and our work with  
887 industry are important to get reauthorized. So we are anxious

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888 to get that done.

889 Mrs. Brooks. Can you talk to us a little bit about what are  
890 some of the unmet needs in animal medicines? And I am sure there  
891 are many.

892 Mr. Solomon. Right.

893 Mrs. Brooks. Some of the most concerning ones to you.

894 Mr. Solomon. So continued oncology treatment for cancer  
895 treatments. As our pets are living longer we are getting more  
896 cancers in our companion animals. Right now, a lot of the drugs  
897 used are human oncology treatments. We would -- the  
898 veterinarians would greatly appreciate the opportunity to be able  
899 to have drugs that have been demonstrated for the efficacious --  
900 for the canine or equine or the horse or the dog or the cat-type  
901 tumors.

902 The chronic renal diseases, as our pets are living longer  
903 they're getting more care. We are seeing more osteoarthritis,  
904 arthritic conditions, the same thing we see at our older ages.

905 We'd love to have drugs for renal disease, congestive heart  
906 disease problems that we see. There's no shortage of unmet  
907 veterinary medical needs out there.

908 Mrs. Brooks. And finally, can you talk to us a little bit  
909 about the conditional approval process and hearing more about how

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910 that will impact the industry?

911 Mr. Solomon. So, once again, we think conditional approval  
912 for those type diseases I just talked about where, once again,  
913 they come in with their package as normal for safety.

914 They come in for the same package for the environmental  
915 controls, human food safety -- all those conditions. It's only  
916 on the efficacy. So it changes the requirement from a reasonable  
917 -- substantial evidence of efficacy, too.

918 They have to show reasonable expectation and they need to  
919 meet that standard within the next five years and with the current  
920 proposals that we are looking at.

921 So it gives them time for those diseases that are more chronic  
922 insidious diseases that are harder to measure during a clinical  
923 trial because you're monitoring these conditions over a much  
924 longer period of time.

925 Mrs. Brooks. Thank you. I yield back.

926 Mr. Burgess. Chair thanks the gentlelady. The gentlelady  
927 yields back.

928 The chair recognizes the gentlemen from New York, Mr.  
929 Collins, five minutes for questions, please.

930 Mr. Collins. Thank you, Mr. Chairman. Thank you, Dr.  
931 Solomon. I am going to step back just a second. As we added these

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932 user fees, I am assuming all that money goes towards personnel  
933 in your office?

934 Mr. Solomon. Correct.

935 Mr. Collins. And whether percentage of your budget or the  
936 number of folks, how significant is this to your staffing levels?

937 Mr. Solomon. So on the -- on the pioneer side on animal drug  
938 it supports 28 percent of our animal drug review costs -- what  
939 our costs are to run the program -- and on the generic drug it's  
940 62 percent. So there are significant contributions to our  
941 overall --

942 Mr. Collins. But absolutely a direct result, this money is  
943 what's bringing our wait times down?

944 Mr. Solomon. Absolutely.

945 Mr. Collins. So when you mentioned, you know, some  
946 veterinarians are using human drugs, is there an approval process  
947 they have to go through, cancer or otherwise, to take a human  
948 cancer treatment and use it in an animal? Do they have to come  
949 to your agency to get approval to do that?

950 Mr. Solomon. They do not. So that -- there is  
951 authorization for extra label use and veterinarians can use human  
952 drugs in animals without a review. That preference would be from  
953 the veterinary community to have drugs that are specifically

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954 approved for animals. And so that's why the conditional  
955 approval, for example, would be advantageous.

956 Mr. Collins. If they do this, I mean, I would think it would  
957 helpful to the industry if they also compile data at some point  
958 so other veterinarians could have a better feel whether this drug  
959 is working or not.

960 Is that just option -- it's not mandatory that they do so  
961 as they're using --

962 Mr. Solomon. So many of these drugs approved in humans may  
963 have gone through animal studies. So a lot of times veterinarians  
964 will take a look at those animal studies and, in fact, we've had  
965 drugs that have been approved.

966 Much of the work was done during the human approval. We had  
967 some drugs for pain in animals. We had some drugs for appetite  
968 stimulation in dogs. Much of the work, when they came in with  
969 a submission, was done for those drugs when they were approved  
970 on the human side and that information was transferred over,  
971 submitted to the approval process, and we went through approval.

972 Mr. Collins. Although I think a lot of the animal portions  
973 of human drug trials are more for safety issues than efficacy?

974 Mr. Solomon. That's correct.

975 Mr. Collins. So, now, I am very familiar with the human

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976 side. But on the animal side is there the equivalent of a phase  
977 one, a phase two, a phase three or is it just a lot more data driven  
978 -- they do their work, they come to you with a submission? Or  
979 do they have to go through anything remotely resembling what we  
980 do in human trials?

981 Mr. Solomon. So there are some similarities about the type  
982 of data that they need to submit. We use a different process than  
983 the phased process.

984 But they do go through those same type of aspects. So they  
985 do clinical trials on a small number of animals to evaluate safety.  
986 They look at safety issues by giving various doses of the drug  
987 to determine the safety.

988 Then they -- once safety is looked at then they start doing  
989 efficacy trials and that may be both clinical trials and field  
990 trials that may be done throughout the --

991 Mr. Collins. But, I mean, that's almost exactly the way we  
992 do human trials. But is it as formalized or is folks developing  
993 animal drugs have a lot more latitude in all those areas to bring  
994 a drug to market and then -- is your involvement more of a review  
995 of that data that they've built without being quite under the same  
996 scrutiny as human trials?

997 Mr. Solomon. So we don't put them through the phases in the

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998 same way the same type data is collected. But we work very closely  
999 with them on each of those aspects.

1000 So they come in early in the developmental process, sit down  
1001 with us, what's it going to demonstrate to show the target animal  
1002 safety -- what are we going to need for the clinical efficacy?

1003 Each drug is unique because once again we are using different  
1004 approaches. Are we using different surrogate end points? Are  
1005 we using data from human trials? Are we --

1006 Mr. Collins. Well, my time is almost up. But is the patent  
1007 protection similar for this development as it is and then generics  
1008 can come on board after 17 years or whatever it happens to be?

1009 Mr. Solomon. So I need to get back to you on the patent  
1010 issues. We do have exclusivity issues where the drugs are either  
1011 for three years or five years when a pioneer comes on before a  
1012 generic product can come on the market.

1013 Mr. Collins. So significantly reduced time compared to  
1014 human drugs?

1015 Mr. Solomon. On the exclusive marketing, yes.

1016 Mr. Collins. Very good. Well, thank you. This is very  
1017 informative.

1018 I yield back.

1019 Mr. Burgess. Chair thanks the gentleman. The gentleman

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1020 yields back.

1021 The chair recognizes the gentleman from Florida, Mr.  
1022 Bilirakis, five minutes for questioning.

1023 Mr. Bilirakis. Thank you, Mr. Chairman. Appreciate it.

1024 Dr. Solomon, would you briefly explain how ADUFA and AGDUFA  
1025 improved FDA regulations as far as the public health is concerned  
1026 and how the most recent proposed changes will benefit FDA and  
1027 public health?

1028 Mr. Solomon. So by getting new products, new animal drugs  
1029 to the market, many of these drugs are very important for  
1030 food-producing animals, which directly affects public health.

1031 When we get a new antimicrobial, for example for use for  
1032 treating a disease in food-producing animals, we have the  
1033 resources to try and do the human food safety aspect of that  
1034 review.

1035 That review includes all the toxicology review, the residue  
1036 review, which I talked about before with the tissue residue  
1037 method. But it also looks the microbial review process.

1038 Is this a product that could affect humans and is medically  
1039 important in humans and therefore could cause antimicrobial  
1040 resistance? So that's all part of the review process that  
1041 directly affects public health.

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1042 Mr. Bilirakis. Okay. Very good.

1043 How has consolidation in the industry impacted the review  
1044 process?

1045 Mr. Solomon. So on the pioneer side, there's been  
1046 considerable consolidation that's taken place. From our  
1047 perspective, they become more familiar with it and therefore the  
1048 submissions -- they understand better the products out there.

1049 It also has an effect that sometimes it reduces the number  
1050 of applications. So when a company has had mergers in several  
1051 drugs, they often look at their portfolio and it may result in  
1052 some products being withdrawn from the market.

1053 Mr. Bilirakis. Okay. What are the consequences of not  
1054 reauthorizing these user fee programs?

1055 Mr. Solomon. So I hope no one wants to go down that path  
1056 because it's significant.

1057 Mr. Bilirakis. Tell us why.

1058 Mr. Solomon. Again, we've achieved these timely review  
1059 processes. It would create instability in the industry. We've  
1060 become very predictable on the time frames and the pathways for  
1061 these products.

1062 It would be significant in terms of our staff. We have 115  
1063 staff that are currently employed using the user fees. Depending

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1064 on the timing of when reauthorization would look we would have  
1065 to give notices, and it would make great challenges for our future  
1066 staffing.

1067 People who not want to come to work for the Center of  
1068 Veterinary Medicine where we have outstanding scientists and  
1069 reviewers -- veterinarians that come on if there was uncertainty  
1070 about this pathway.

1071 Mr. Bilirakis. Well, thank you.

1072 Mr. Chairman, I yield back the balance of my time. Thank  
1073 you.

1074 Mr. Burgess. Chair thanks the gentleman. The gentleman  
1075 yields back.

1076 The chair recognizes the gentleman from Virginia, Mr.  
1077 Griffith, five minutes for questions, please.

1078 Mr. Griffith. Thank you very much.

1079 All right. So what can we do to help to bring some of these  
1080 ideas that you talked about, the antimicrobials that are being  
1081 used and trying to make sure that we have drugs for the animals  
1082 but that they don't affect humans?

1083 What can we do to move that process along to make it a little  
1084 quicker?

1085 Mr. Solomon. So we are working very closely on the

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1086 antimicrobial resistant issue. It's a significant public health  
1087 issue.

1088 We work on judicious use policies, both on the human side  
1089 -- my counterparts work on the human side, we work on the animal  
1090 side of that issue.

1091 We work closely with industry to withdraw all the claims for  
1092 use that was production uses for feed efficiency and growth  
1093 promotion. Industry worked over the past there years. As of  
1094 January of last year all those were withdrawn.

1095 We continue to work at monitoring both sales of  
1096 antimicrobials and monitoring through our national antibiotic  
1097 resistance monitoring system antibiotic usage.

1098 Our colleagues at the American Veterinary Medical  
1099 Association put out to the veterinary profession principles of  
1100 good stewardship of antimicrobial use and principles about how  
1101 to apply that and the definitions associated with that. Our  
1102 American Association of Veterinary Medical Colleges has developed  
1103 curriculum to be able to educate the new generation on what  
1104 judicious use looks like.

1105 We continue to need to work both domestically and  
1106 internationally on getting better data to monitor antimicrobial  
1107 resistance over time.

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1108 Mr. Griffith. All right, and I am going to shift gears on  
1109 you, and feel free to tell me that not my department, but I had  
1110 some folks come to me recently, and I represent the part of  
1111 Virginia that has Virginia Tech where a lot of research is being  
1112 done, and they were talking about genetically modified calves.

1113 And when they finished with their testing on, you know,  
1114 rearranging the genes in the calf, they have to kill the mother.  
1115 I am trying to figure out why. Do you have any help -- can you  
1116 help me there?

1117 Because why would the mom be affected by a genetically  
1118 modified calf when the -- when the calf is placed there out of  
1119 a test tube and it has nothing to do with her other than she's  
1120 the vehicle in which the calf is being --

1121 Mr. Solomon. So I don't think I can answer the question on  
1122 the mother.

1123 Mr. Griffith. And that's fair. I thought that might be the  
1124 case.

1125 Mr. Solomon. But in a genetically modified animal they do  
1126 need to go to a review process to make sure these animals are safe  
1127 and is someone's going to eat them that the modification makes  
1128 it safe for people to eat.

1129 Mr. Griffith. And just -- and I recognize it's not

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1130 necessarily your field but it's something we might want to look  
1131 at at some point, Mr. Chairman, is that they get that with the  
1132 genetically modified calf and so when they finish their experiment  
1133 they understand they have to kill the calf. But I can't figure  
1134 it out.

1135 Now, you know, it's not my field. So maybe there's a small  
1136 country lawyer -- there's some obvious answer. But if you could  
1137 maybe see if you could find me the right person to answer that  
1138 question -- why does the mother have to be killed because, you  
1139 know, the mama is a valuable asset and when you're doing research  
1140 and you suddenly have to start killing off assets that -- I can't  
1141 figure out nor could this individual who brought this to me figure  
1142 out why the mother also has to be killed.

1143 The calf, I get -- you don't want to put that calf into the  
1144 marketplace and maybe you don't want to put mom in the marketplace  
1145 but you could use her again if she's able to have more than one.  
1146 They're not able to do that right now. But I appreciate it.

1147 Mr. Solomon. We are happy to take a look into the issue.

1148 Mr. Griffith. And I appreciate that.

1149 And with that, Mr. Chairman, most of my questions having  
1150 previously been asked I yield back.

1151 Mr. Burgess. Chair thanks the gentleman. Gentleman yields

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1152 back.

1153 Chair recognizes the gentleman from Illinois, Mr. Shimkus,  
1154 five minutes for questions.

1155 Mr. Shimkus. Thank you, Mr. Chairman. Sorry I am late. We  
1156 were at another hearing. I am sure you have heard that before  
1157 and I wish I would have been here for Kurt Schrader's questions,  
1158 since he's a veterinarian, and I would have loved to hear. Maybe  
1159 I will check his questions for the record.

1160 But the last -- we started going into this antimicrobial  
1161 resistance discussion and the only thing I wanted to raise was  
1162 -- and I know you have all talked about the conditional approval  
1163 authority extensively, which is good.

1164 How might you in this antimicrobial resistance can expand  
1165 and improve your antimicrobial resistance provision as we move  
1166 to -- I call it AGDUFA -- AGDUFA III?

1167 Mr. Solomon. So I think there's opportunities under -- if  
1168 conditional approval for serious medical conditions that are  
1169 treating public health issues there's opportunities for  
1170 alternatives to antibiotics to be potentially used under  
1171 conditional approval and I think we'd welcome those  
1172 opportunities. We have approved a drug that's an alternative to  
1173 antibiotics. It's given to dairy cows to try and prevent

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1174 mastitis. It increases the number of neutrophils in the bone  
1175 marrow to be able to fight infections. I think we are looking  
1176 for other innovations that could be used as alternatives to  
1177 antimicrobials and I think conditional approval may be another  
1178 incentive to try and get those products to the market.

1179 Mr. Shimkus. Yeah, and I should have asked this question  
1180 first to set up the second one, but what are the barriers you have  
1181 right now under current law on this debate?

1182 Mr. Solomon. So the conditional approval Congress approved  
1183 for only minor use in major species or minor species.

1184 In order to use it in major species under the unique  
1185 conditions that we've defined it needs new statutory authority  
1186 because it was -- right now, efficacy needs to be demonstrated  
1187 at the same time as target animal safety, human food safety, the  
1188 environmental review process.

1189 The conditional approval allows all the human food safety.  
1190 The other pieces -- the technical sections to be reviewed allows  
1191 the product on the market five years. Industry can demonstrate  
1192 the efficacy, comes back in and gets the full approval.

1193 Mr. Shimkus. Do you agree with that, Schrader?

1194 Mr. Schrader. Yes. Yes, I do. I mean, he outlined a  
1195 current process and stuff. But we do need to expand the

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1196 conditional use opportunities for major species. I think --

1197 Mr. Shimkus. Good enough for me. Yield back my time.

1198 Thank you.

1199 Mr. Burgess. Chair thanks the gentleman. Gentleman yields

1200 back.

1201 The chair recognizes the gentleman from Oklahoma, Mr.

1202 Mullin, five minutes for questions, please.

1203 Mr. Mullin. Well, that is good timing. Thank you, Mr.

1204 Chairman, and Dr. Solomon, thank you so much for you taking the

1205 time to be with us.

1206 A couple -- a couple questions that I have -- what is -- what

1207 is the timing? We've been talking a lot about conditional

1208 approvals. What's the timing on this? Do we know what we are

1209 looking at, how we can -- how we can more predict in the industry

1210 level?

1211 Mr. Solomon. So, once again, I think we've worked very hard

1212 with industry over the long period of time but more expeditiously

1213 recently to try and get a common understanding of conditional

1214 approval.

1215 I think there's a good understanding of the scope that we've

1216 describe here about its use for challenging efficacy issues,

1217 serious medical conditions.

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1218           So we'd be interested in, you know, if Congress wants to take  
1219 this on we'd be -- welcome the opportunity to give some technical  
1220 assistance to it.

1221           There may be some remaining issues that would need to be  
1222 worked through either a guidance or a regulatory process. But  
1223 getting the statutory authority while ADUFA/AGDUFA would be an  
1224 opportunity.

1225           Mr. Mullin. Do you know what you would need from Congress?  
1226 Because I am committed to working with you and the industry is  
1227 wanting to work with you.

1228           We are wanting to see this move forward, I mean, because under  
1229 -- I mean, as we know underneath the idea, which passed in 2004,  
1230 we've only seen, what, four different drugs that's actually been  
1231 able to come out of it, and I don't think that was the intent.

1232           Originally, the intent was to help incentivize the industry  
1233 on coming up with new ways and new paths to build -- to be able  
1234 to produce and enhance the treatment for the animals.

1235           So what would you need from Congress? How could I work with  
1236 you? Because in all seriousness, I really want to see this go  
1237 as far as what Congress I think first intended in 2004 for it to  
1238 go to.

1239           Mr. Solomon. So once again, in 2004 it was for the minor

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1240 species and minor uses.

1241 Mr. Mullin. Right.

1242 Mr. Solomon. We are now having discussions can we expand  
1243 that to major species-under unique conditions. We would welcome  
1244 the opportunity to work on technical assistance to try and --

1245 Mr. Mullin. Who needs to be at the table on that?

1246 Mr. Solomon. The industry is, clearly, at the table.

1247 Mr. Mullin. Right.

1248 Mr. Solomon. American Veterinary Medical Association, a  
1249 lot of people that are sitting here today.

1250 Mr. Mullin. Are we the ones missing at that table then? I  
1251 mean, if you said you're welcome to work with Congress on this.  
1252 I am just looking for a path. How do we need to inject ourselves  
1253 into this conversation without confusing it?

1254 Mr. Solomon. I think technical assistance for some language  
1255 that I think has been floating around -- once again, this is a  
1256 recent development.

1257 We recognize this. We've recognized time frames are  
1258 challenging but we welcome the opportunity to try and get this  
1259 important piece added.

1260 Mr. Mullin. Well, we worked with industry some as far as  
1261 looking for language that's needed. Have you -- have you had a

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1262 time to look at it yet?

1263 Mr. Solomon. So we've had staff working very closely with  
1264 the industry on that piece.

1265 Mr. Mullin. But you haven't got a look at it yet?

1266 Mr. Solomon. We would like the opportunity, sort of taking  
1267 that language if we get requested by Congress and be able to  
1268 provide formal agency review of it.

1269 Mr. Mullin. I guess that's where I am confused. Is it  
1270 simply me saying, I want you to look at it, or is there -- and  
1271 I am confused here -- does it take actual legislation for us to  
1272 give you --

1273 Mr. Solomon. I think its only request that if Congress is  
1274 -- which sounds, you know, a lot of interest here on conditional  
1275 approval, if you came to us we'd be happy to provide technical  
1276 assistance to give a formal agency position to try and have it  
1277 in front of you to decide to include it in the ADUFA/AGDUFA --

1278 Mr. Mullin. Well, let me -- let me talk with the committee  
1279 so I am not stepping in front of the chairman on this and find  
1280 out for sure what the committee wants.

1281 But I was under the understanding that 's where we are wanting  
1282 to move to. But I will get back to you personally and then I look  
1283 forward to working with you, moving forward with it.

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1284 Mr. Solomon. We welcome that opportunity. Thank you.

1285 Mr. Mullin. Thank you, sir.

1286 And with that, Mr. Chairman, I will yield back.

1287 Mr. Burgess. Gentleman yields back.

1288 The chair would observe that the gentleman might want to work  
1289 with the primary author of the bill. Oh, that is the gentleman.  
1290 So yes.

1291 [Laughter.]

1292 But we will work with you, Mr. Mullin.

1293 Mr. Mullin. I don't want to overstep the committee because  
1294 you have been very gracious to me.

1295 Mr. Burgess. We will -- we will -- we will work with you,  
1296 absolutely.

1297 Chair now recognizes the gentleman from Texas, Mr. Green,  
1298 five minutes for your questions, please.

1299 Mr. Green. Thank you, Mr. Chairman. I apologize for being  
1300 late.

1301 Thank you, Dr. Solomon, for being here today and as you  
1302 explained in your testimony, over the last two years FDA has been  
1303 working to finalize recommendations for reauthorization of the  
1304 animal drug user fees and has held negotiations with regulated  
1305 animal drug and generic animal drug industries in order to reach

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1306 an agreement on both financial and performance goals for the next  
1307 five years.

1308           These recommendations were finalized and transmitted to  
1309 Congress for consideration early this year. Dr. Solomon, you  
1310 noted that the FDA is currently delivering predictability -- high  
1311 levels of performance against the ADUFA and AGDUFA goal  
1312 commitments for a timely review.

1313           Under ADUFA IV and AGDUFA III, do you believe this high level  
1314 of performance will continue?

1315           Mr. Solomon. With the additional resources that have been  
1316 negotiated and put forward, yes, we are committed to continue to  
1317 meet the high levels of performance.

1318           Mr. Green. Is this why the performance recommendations for  
1319 most of the submission types for pioneer drugs remains consistent  
1320 with the current goals?

1321           Mr. Solomon. That's correct.

1322           So once again, we've reduced time frames for most of those  
1323 submissions. We added four new areas this time, of particular  
1324 importance to some of those commitments for early communication  
1325 with the industry early in the development process.

1326           Mr. Green. For generic animal drug submissions, FDA's  
1327 performance goal review times have been shortened. Can you

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1328 explain how the FDA plans to meet those new time frames?

1329 Mr. Solomon. So there was significant new resources  
1330 associated with the generic drug. The industry really wanted to  
1331 be able to get the generic drugs to the market sooner and so they  
1332 committed additional resources.

1333 We plan on hiring the scientific support staff to be able  
1334 to conduct those reviews. There has been a tremendous increase  
1335 in generic drug submissions over the past couple years.

1336 The workload has increased tremendously. In fact, we had  
1337 over a 50 percent increase in the last year on generic drug  
1338 submissions.

1339 Mr. Green. Thank you.

1340 Can you explain how the financial recommendations in the  
1341 AGDUFA III negotiated agreement have changed from AGDUFA II?  
1342 Additionally, can you explain the rationale for those changes?  
1343 Is it mainly just an increased funding?

1344 Mr. Solomon. So there's increased funding. We also made  
1345 the funds more readily available. So one of the conditions is  
1346 historically there used to be a process where if there's excess  
1347 collections of funds you'd have to wait to the last year of the  
1348 agreement in order to be able to use them.

1349 We negotiated with industry. They would like and we would

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1350 like to be able to use those funds earlier. There were some  
1351 changes in the inflation index that took place to make it a  
1352 variable inflation index and there was changing the base years  
1353 that we were using for the negotiations. So all agreed upon.

1354 Mr. Green. Are there any other performance and financial  
1355 recommendations from the new proposal that should be highlighted?

1356 Mr. Solomon. The tremendous changes on the generic drug  
1357 side dramatically reduce the time frames associated with those.  
1358 So I think the industry and FDA would be very excited about meeting  
1359 those new time frames because they're significant reductions.

1360 Mr. Green. I want to thank you, Dr. Solomon. These  
1361 performance and financial goals are critical aspects to the ADUFA  
1362 and the AGDUFA programs and will chart the course for the next  
1363 five years.

1364 I am pleased that the FDA and the animal health industries  
1365 have reached agreement and look forward to the swift  
1366 reauthorization of these important programs.

1367 And Mr. Chairman, I yield back.

1368 Mr. Burgess. Chair thanks the gentleman.

1369 The chair recognizes the gentleman from North Carolina, Mr.  
1370 Hudson, five minutes for your questions, please.

1371 Mr. Hudson. Thank you, Mr. Chairman. Thank you, Dr.

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1372 Solomon for your time today.

1373 In my home state of North Carolina, agriculture is the  
1374 number-one industry. Poultry is the number-one sector, making  
1375 up 40 percent of our state's total farm income.

1376 All told, it's about \$4 billion a year, or 10 percent of our  
1377 total state product. An issue -- one issue that pops up  
1378 continually for our chicken and turkey farmers is blackhead  
1379 disease.

1380 This highly transmittable disease can wipe out an entire  
1381 turkey flock in weeks, disrupts breeding cycles for chickens,  
1382 causes millions of dollars in damage to my farmers back home.

1383 This disease occurs sporadically but has a high impact every  
1384 time it strikes a farmer's flock. Unfortunately, no medication  
1385 exists at this moment to treat or cure this disease, making --  
1386 meaning that if your flock is hit it's guaranteed to hurt.

1387 Because this disease requires a spontaneous biological event  
1388 to occur, it's almost impossible to create controlled trials to  
1389 study the disease or the efficacy of the drug.

1390 One thing my colleagues, Markwayne Mullin and Dr. Bucshon,  
1391 noted earlier and I've been examining is the conditional approval  
1392 that's gotten a lot of attention here in this hearing -- a pathway  
1393 for major use major species.

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1394           Blackhead disease is just one disease of many where a  
1395 conditional approval pathway would help drug makers get  
1396 medications to farmers and pet owners that are currently unviable  
1397 for the traditional approval pathway.

1398           So in your testimony you note that the CVM is committed to  
1399 continuing to explore conditional pathways. Do you agree that  
1400 the conditional approval pathway for major use in major species  
1401 would help bring innovative therapies that can treat diseases like  
1402 blackhead disease to market?

1403           Mr. Solomon. I do. It is -- we've done a lot of work on  
1404 blackhead. We've recognized that's one of those unmet veterinary  
1405 medical needs out there.

1406           We've asked for the industry -- in the turkey industry that  
1407 suffers from this the most that they may be eligible under our  
1408 minor use minor species but we need data presented to try and do  
1409 that.

1410           If they're unable to meet that, then this new conditional  
1411 approval proposal would be welcome. It's a challenging disease  
1412 to treat because of many of the sporadic conditions seasonal  
1413 nature of it.

1414           It would be one that, you know, demonstrating efficacy over  
1415 a longer period of time could be valuable tool in the arsenal.

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1416 Mr. Hudson. Right. Well, I appreciate that, and my  
1417 colleague, Markwayne Mullin and others, have I think clearly  
1418 established that we want to work with you on this and, you know,  
1419 we welcome any feedback you have on any requirements that make  
1420 conditional approval pathway feasible -- you know, what you mean  
1421 from us to move forward on this, and rather than continue to beat  
1422 that dead horse, I would just ask do we have your commitment that  
1423 we'll move as quick as we can together to find a way forward on  
1424 this?

1425 Mr. Solomon. We are ready, willing, and able to work with  
1426 you on that issue.

1427 Mr. Hudson. Great. I appreciate that very much.

1428 Unrelated to conditional use, but just out of curiosity for  
1429 me, off the top of your head, what's the longest amount of time  
1430 that CVM has spent reviewing a single drug?

1431 Mr. Solomon. That's probably the genetically-engineered  
1432 salmon, which went on for a significant period of time for a lot  
1433 of different reasons.

1434 Mr. Hudson. What do you think just in general the reasons  
1435 for long review cycles are?

1436 Mr. Solomon. So for that particular review, that was unique  
1437 -- the first genetically engineered animal for food-producing

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1438 animals. You need to develop how are you going to evaluate the  
1439 safety, the efficacy of something that's so new and novel.

1440 It was one also of great concern from an environmental area,  
1441 which is part of our requirement -- you know, what's the potential  
1442 for a genetically-engineered animal to get loose -- either get  
1443 into the wild.

1444 Even though they're sterile animals poses lots of different  
1445 challenges -- looking at our typical review process with something  
1446 unique.

1447 Now that we've been through those processes we've answered  
1448 many of those questions.

1449 Mr. Hudson. Well, just in a more typical review process,  
1450 you know, what are -- what are some of the reasons that these  
1451 sometimes take longer?

1452 Mr. Solomon. So data quality is an important issue for us.  
1453 We constantly are working with the industry -- the more higher  
1454 quality the data then we'd have to go back to these issues.

1455 Efficacy requirements in certain disease conditions can be  
1456 very challenging. We've been challenged, for example, on  
1457 heartworm disease. We try and -- as there's been resistance to  
1458 various new -- some of the different parasites it becomes more  
1459 difficult to demonstrate efficacy over a period of time.

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1460           So it's kind of evolution of some of the disease conditions  
1461 over time poses challenges on proving efficacy.

1462           Mr. Hudson. Well, I appreciate your testimony very much.

1463           Mr. Chairman, I will yield back.

1464           Mr. Burgess. Chair thanks the gentleman.

1465           Chair recognizes the gentleman from Georgia five minutes for  
1466 your questions, please.

1467           Mr. Carter. Thank you, Mr. Chairman.

1468           Thank you, Dr. Solomon, for being here. Appreciate that  
1469 very much.

1470           Let me ask you something. It's my understanding in a new  
1471 animal drug application that the drug sponsors are responsible  
1472 or submitting information and it's quite detailed and quite  
1473 thorough.

1474           From what I understand, they -- in the application it's going  
1475 to include information on the drug's chemistry, the composition,  
1476 the component ingredients, manufacturing methods, facilities and  
1477 controls, proposed labelling -- on and on and on.

1478           And not only that, but also if the drug product is intended  
1479 for use in a food-producing animal, that it also has to be proven  
1480 for human use, and I am just -- and all this falls -- all this  
1481 burden falls on the drug sponsors.

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1482           And it just appears that it's more than even what -- the  
1483 guidelines for animal drug are more than -- more stringent than  
1484 they are for human drug applications. And I am just interested  
1485 to know, first of all, do you think that's true and secondly, if  
1486 it is, why is that?

1487           Mr. Solomon. So just to take a step back, so with all due  
1488 respect to my human colleagues on review, they have one species  
1489 to deal with.

1490           Often we have to deal with multiple species. So many of the  
1491 applications they don't want to market it in multiple species at  
1492 the same time.

1493           And that's a challenge because there's different  
1494 pharmacology versus pharmacokinetics in different species out  
1495 there. We also have the responsibility in food-producing animals  
1496 to make sure that this is going to be safe for humans.

1497           So, once again, I think our safety and efficacy and  
1498 environmental reviews are very similar to the human side. But  
1499 when it comes to either multiple species or the human food safety  
1500 issues they're unique to the animal side.

1501           But that's part of our responsibility to the American public  
1502 to make sure that the food is safe.

1503           Mr. Carter. Fair enough. Good answer. Thank you.

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1504 I want to talk to you about animal drug compounding. This  
1505 is certainly something that the FDA has -- or drug compounding  
1506 period is something the FDA has been involved in here recently,  
1507 and rightfully so.

1508 But when it comes to animal drug compounding it's my  
1509 understanding that it's legal only in very specific  
1510 circumstances, according to the FDA, and as a result of the Drug  
1511 Quality Security Act, there were some changes that were made and  
1512 from what I understand the FDA rescinded their initial guidelines  
1513 and that they are now looking at and coming up with new guidelines.

1514 Are you familiar with that and what kind of time line are  
1515 we looking at here?

1516 Mr. Solomon. So we did have a guidance of compounding. As  
1517 you're very well aware, it's a challenging issue to find the right  
1518 balance.

1519 There is some need for compounding out there. We don't want  
1520 that to either prove a safety issue to animals and we don't want  
1521 that to undermine the approval of pioneer or generic drugs.

1522 So compounding within a veterinary-client-patient  
1523 relationship is something important because veterinarians need  
1524 access to that. So our previous guidance there was confusion  
1525 about applying the DQSA -- the Drug Quality Security Act -- which

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1526 does not apply to the animal side of the house.

1527 Mr. Carter. Right.

1528 Mr. Solomon. We wanted to clarify that it was never intended  
1529 to apply to that.

1530 Mr. Carter. Thank you.

1531 Mr. Solomon. It also -- back to my multiple species issues,  
1532 the previous guidance only addressed compounding for companion  
1533 animals, and as I've sort of talked about several times now, we  
1534 have the challenge of compounding for food-producing animals,  
1535 companion animals, and minor species.

1536 So we decided to rescind that compounding guidance. We are  
1537 working on it. We expect over the next several months to be able  
1538 to issue a new compounding guidance where it would be, once again,  
1539 cover the whole spectrum of the species, be clear about not  
1540 applying the DQSA, trying to apply that right balance of where  
1541 compounding is appropriate and we'd welcome the opportunity once  
1542 that's out to come brief Congress.

1543 Mr. Carter. Okay. Have you -- are you soliciting the input  
1544 of the animal drug compounders while you're formulating this?

1545 Mr. Solomon. We are talking to lots of stakeholders and,  
1546 once again, this will be another proposal. So we welcome the  
1547 opportunity when this comes out for a proposal to continue to

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1548 engage with folks.

1549 Mr. Carter. Well, thank you for mentioning accessibility  
1550 because that's extremely important. I can tell you as a  
1551 practising pharmacist for over 30 years before I became a member  
1552 of Congress this was something we typically worked with our  
1553 veterinarians and, you know, it was very detailed.

1554 So the accessibility part of it is very important as well.  
1555 Good. Thank you very much, and I yield back, Mr. Chairman.

1556 Mr. Burgess. Gentleman yields back. The chair thanks the  
1557 gentleman.

1558 I believe that concludes questions from members for your  
1559 panel, Dr. Solomon. We do, again, want to thank you for being  
1560 with us and providing your expert testimony today and, certainly,  
1561 as we work through this we will take what you have shared with  
1562 us today to heart.

1563 And we are going to have the briefest of transitions to our  
1564 second panel. Dr. Solomon, you're excused and we'll ask our  
1565 second panel to take their places.

1566 Mr. Solomon. Thank you very much.

1567 [Pause.]

1568 Mr. Burgess. So I thank our second panel of witnesses and  
1569 I want to thank you for being here today, taking time to testify

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1570 before the subcommittee.

1571 We are going to give each of you an opportunity to give an  
1572 opening statement and that will be followed by questions from  
1573 members.

1574 So today we are going to hear -- on our second panel we are  
1575 going to hear from Dr. Rachel Cumberbatch, the director of  
1576 regulatory affairs, animal drugs, at the Animal Health Institute;  
1577 Mr. Bill Zollers, chairman of Generic Animal Drug Alliance; and  
1578 Dr. Michael Topper, president of the American Veterinary Medical  
1579 Association.

1580 We appreciate each of you being here with us today.

1581 Dr. Cumberbatch, you're now recognized for five minutes to  
1582 summarize your opening statement.

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1583 STATEMENTS OF DR. RACHEL CUMBERBATCH, DIRECTOR, REGULATORY  
1584 AFFAIRS, ANIMAL DRUGS, ANIMAL HEALTH INSTITUTE; DR. BILL ZOLLERS,  
1585 CHAIRMAN, GENERIC ANIMAL DRUG ALLIANCE; DR. MICHAEL TOPPER,  
1586 AMERICAN VETERINARY MEDICAL ASSOCIATION

1587

1588 STATEMENT OF DR. CUMBERBATCH

1589 Ms. Cumberbatch. Thank you, Mr. Chairman.

1590 I am a veterinarian here today on behalf of the Animal Health  
1591 Institute, a trade association that represents companies that  
1592 make medicines for animals.

1593 I am here to ask Congress to reauthorize the animal drug user  
1594 fee program, also known as ADUFA, and to provide a pathway for  
1595 sponsors to meet unmet medical needs by enhancing opportunities  
1596 for innovation.

1597 The animal health industry makes important contributions to  
1598 the American economy. Fueled by \$9.9 billion in sales of  
1599 medicine, the U.S. animal health industry employs over 21,000  
1600 workers and generates more than \$1.2 billion in wages.

1601 It accounts for \$1.2 billion in taxes and maintains a  
1602 positive trade balance. Furthermore, animal health products  
1603 directly contribute to the economy of other industries, including  
1604 veterinary services, animal production, meat and dairy

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1605 production, and pet services.

1606 Combined, these four industries generated \$548 billion in  
1607 output, created more than 1.4 million jobs, and paid over \$52  
1608 billion in wages in 2016 alone.

1609 These contributions extend to every state in every  
1610 congressional district where people own pets and families rely  
1611 on the availability of safe food.

1612 The animal health institute strongly supports the ADUFA  
1613 program. This new agreement builds on the success of this  
1614 program. Funding will increase from \$118 million in ADUFA III  
1615 to a total of \$150 million in this five-year agreement.

1616 This includes a one-time influx of funds that will be devoted  
1617 to information technology so that CVM can transition to electronic  
1618 filing of new animal drug submissions and can eliminate all paper  
1619 submissions.

1620 Current inflation and workload adjustment factors remain as  
1621 they are while AHI has agreed to allow FDA to reinvest surplus  
1622 funds into the program.

1623 Existing sentinel time frames will remain the same or be  
1624 slightly reduced and all current review process changes from the  
1625 previous ADUFA agreement will remain in place.

1626 There is one important piece of business from ADUFA III which

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1627 we are asking Congress to help us complete. ADUFA III contained  
1628 a provision that FDA and AHI would enter into discussions on how  
1629 to more broadly extend the conditional approval process.

1630 Conditional approval is currently available only for minor  
1631 uses and minor species products. These efforts aim to find a way  
1632 to expand a pathway to major species applications.

1633 Those discussions took place and were productive, bringing  
1634 each side to near agreement on an approach. However, when we got  
1635 to the ADUFA IV, CVM was precluded from discussing this issue as  
1636 part of the agreement.

1637 More than a year ago, this committee commendably came  
1638 together and approved the 21st Century Cures Act to spur  
1639 innovation in human therapies. But all indications, it is  
1640 working and now we ask that you include in this legislation a  
1641 measure to similarly spur innovation in animal health.

1642 Conditional approval for animal health products exist at the  
1643 EPA as well as the U.S. Department of Agriculture and, as we said,  
1644 it also exists for minor use minor species at the FDA.

1645 Expanding the current authority to major species would drive  
1646 innovation and most importantly it would lead to the approval of  
1647 new products for serious diseases which there are no available  
1648 treatments and which it is difficult for clinical effectiveness

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1649 to be proven via controlled studies.

1650 Thank you for holding this hearing on this important piece  
1651 of legislation and thank you for the opportunity to speak to you  
1652 today about how keeping animals and humans safe using medicines  
1653 also helps with public health.

1654 Thank you.

1655 [The prepared statement of Dr. Cumberbatch follows:]

1656 \*\*\*\*\*INSERT 2\*\*\*\*\*

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1657

Mr. Burgess. Thank you for your testimony.

1658

Dr. Zollers, you're recognized for five minutes for a summary

1659

of your opening statement, please.

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1660 STATEMENT OF DR. ZOLLERS

1661

1662 Mr. Zollers. Thank you.

1663 Good morning. My name is Bill Zollers and I serve as the  
1664 chairman of the Generic Animal Drug Alliance, also known as GADA.

1665 We are an independent professional trade organization that  
1666 represents the interests of the generic animal drug industry. We  
1667 represent sponsors, manufacturers, distributors, suppliers, and  
1668 service providers of generic animal drugs.

1669 Our products and processes are regulated by the FDA Center  
1670 for Veterinary Medicine. Our members are focussed on the  
1671 development, regulatory approval, and marketing of high-quality  
1672 generic drugs for livestock and pets.

1673 I would like to thank the committee for inviting me to testify  
1674 today on behalf of GADA in support of the reauthorization of the  
1675 Animal Generic Drug User Fee Act.

1676 The GADA has previously provided testimony to the this  
1677 subcommittee in support of AGDUFA I in 2008 and AGDUFA II in 2013.

1678 Just like with human generic drugs, generic animal drugs  
1679 provide cost-effective alternatives to pioneer drugs. Lower  
1680 cost generic animal drug options help contribute to the safety  
1681 of the nation's food supply, the treatment of diseases in animals,

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1682 and the ability of owners to provide care to their pet family  
1683 members.

1684           However, the potential cost savings from generic animal  
1685 drugs cannot be achieved without broad availability. It is  
1686 critical that the CVM regulatory review and approval process for  
1687 generic drugs is both efficient and predictable.

1688           Prior to the implementation of AGDUFA I, a CVM review cycle  
1689 of a generic application could take as long as two years. In most  
1690 cases, multiple review cycles are needed. So if an application  
1691 required three review cycles, it could easily take more than six  
1692 to eight years to receive approval.

1693           In the time it took to get an application approved, the market  
1694 for a generic drug could change, making it no longer cost  
1695 effective. This created a disincentive for companies to pursue  
1696 generic animal drug approvals and denied the public cost effective  
1697 generic drugs.

1698           The industry remembers this time in our history. No one  
1699 involved in the approval process for generic drugs wants to see  
1700 these conditions return. Therefore, the industry is stepping up  
1701 again to support reauthorization of AGDUFA.

1702           Since AGDUFA began, CVM has reduced the review time of an  
1703 application to a more predictable 270 days. We believe the

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1704 shorter review times are helping contribute to the growth of our  
1705 industry.

1706 As part of the current reauthorization of AGDUFA III, the  
1707 industry has agreed to significantly increase our financial  
1708 contributions so that generic submissions could receive even  
1709 shorter review periods that are equivalent to pioneer drug  
1710 submissions.

1711 As currently written, AGDUFA III will further shorten some  
1712 critical submission review times from 270 days to 180 days.

1713 The industry is comprised of many small companies and product  
1714 markets that are much smaller than those for human generic drugs.

1715 Therefore, it remains vital that congressional  
1716 appropriations continue to be provided to the Center for  
1717 Veterinary Medicine to significantly support the review of  
1718 generic drug applications.

1719 Appropriations must continue at an increased level that  
1720 enables CVM to meet its public health mission and the important  
1721 public policy goal of providing generic drug options for farmers  
1722 and pet owners.

1723 We believe AGDUFA III provides the review time targets that  
1724 industry requires to counterbalance the financial investment  
1725 being made in support of CVM's needed resources to build capacity

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1726 and balance realities of a small but growing generics industry.

1727           The proposed AGDUFA III enhancement concerning  
1728 e-submissions should make the approval process more efficient.  
1729 Also, the proposed revisions to the overcollections that offset  
1730 provisions will more immediately reduce the financial burden if  
1731 overpayments are made by the industry.

1732           Overall, we are hopeful that the reduction and review times  
1733 will lead to a shortened time from project initiation to approval,  
1734 allowing generic products to come to market sooner.

1735           In conclusion, the GADA supports the proposed legislation  
1736 for reauthorization of AGDUFA.

1737           Thank you.

1738           [The prepared statement of Dr. Zollers follows:]

1739

1740 \*\*\*\*\*INSERT 3\*\*\*\*\*

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1741 Mr. Burgess. Chair thanks the gentleman.

1742 Dr. Topper, you're recognized for five minutes for a summary  
1743 of your opening statement, please.

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1744 STATEMENT OF DR. TOPPER

1745

1746 Mr. Topper. Thank you, and good morning.

1747 Like was stated, I am Dr. Mike Topper. I have the privilege  
1748 of being the president of the American Veterinary Medical  
1749 Association, on behalf of the AVMA I appreciate the opportunity  
1750 to discuss the importance of reauthorizing the Animal Drug User  
1751 Fee Act and the Animal Generic Drug User Fee Act.

1752 The AVMA was founded in 1863 and we represent over 91,000  
1753 individual member veterinarians engaged in the many segments of  
1754 professional veterinary medicine including private practice,  
1755 public health, biomedical research, and many others.

1756 The FDA Center for Veterinary Medicine's collection and  
1757 effective utilization of user fees are important to  
1758 veterinarians.

1759 By providing new animal drugs with a predictable pathway to  
1760 market, these fees help provide veterinarians with access to new  
1761 and additional tools that can potentially improve treatment  
1762 outcomes, provide alternatives to existing therapies, fill unmet  
1763 medical needs in veterinary medicine, and ultimately improve  
1764 patient care, which is the center of veterinary practice.

1765 The AVMA supports user fees for new animal drug applications

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1766 when the fees are supplemental to appropriations and directed  
1767 toward expediting the review process for new animal drug products.

1768           There simply are not enough approved drugs for use in  
1769 animals. Comparisons of FDA data show there are 23 times the  
1770 number of approved labeled indications for human use as there are  
1771 for animal use, and when comparing animal drug products approved  
1772 for minor use and minor species to its human model, which is the  
1773 orphan drug program, that number increases to 26 times.

1774           Thankfully, through the Animal Medicinal Drug Use  
1775 Clarification Act of 1994 and its extra-label drug use provision,  
1776 veterinarians are provided with greater prescribing options.

1777           Of course, there are necessary and appropriate restrictions  
1778 of extra-label drug use in food producing animals.

1779           In instances where extra-label drug use is allowed in food  
1780 and companion animals, it is a vital tool that allows  
1781 veterinarians to use animal and human medications labeled for  
1782 certain indications for other clinical instances in which that  
1783 therapy may be effective but for which it is not labeled.

1784           Our veterinary medical education, clinical training, and  
1785 understanding of the pharmaceutical products we use enable us to  
1786 navigate these uncertain waters. But driving innovation and  
1787 increasing the number of improved educations will ultimately lead

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1788 to better patient care, especially in instances where extra-label  
1789 drug use is prohibited.

1790 Some diseases and conditions lack treatment options due to  
1791 the extended course of the disease or the difficult nature of  
1792 study.

1793 Examples in which human drugs are used in an extra-label  
1794 manner in animals include treatments for heart disease, pain  
1795 management, gastrointestinal disorders, diabetes,  
1796 immune-mediating diseases, and cancer.

1797 While university studies, data collected in foreign  
1798 countries, anecdotal evidence, and other alternative information  
1799 all assist in selecting appropriate extra-label therapies, the  
1800 knowledge that a drug used for therapy has been fully evaluated  
1801 by the FDA and shown to be safe and effective is invaluable.

1802 We have also been encouraged by recent attention given to  
1803 the topic of expanding conditional approval beyond minor use and  
1804 minor species.

1805 Extending its applicability to major uses and major species  
1806 would increase the tools in a veterinarian's pharmaceutical tool  
1807 box.

1808 A greater number of approved animal drugs helps to ensure  
1809 that veterinary patients receive the best care, and this is the

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1810 goal of clinical veterinarians across the country.

1811           So thank you for the opportunity to speak on this important  
1812 topic today. We appreciate the attention the subcommittee is  
1813 giving to this issue and the commitment to addressing the unmet  
1814 needs in veterinary medicine.

1815           Timely passage of this legislation is needed to continue  
1816 programs that increase the availability of pharmaceutical  
1817 resources in the treatment of animal diseases.

1818           We look forward to working to increase the number of approved  
1819 animal drugs for the benefit of our patients, their owners, and  
1820 our communities.

1821           Thank you again, and I am happy to answer any questions.

1822           [The prepared statement of Dr. Topper follows:]

1823

1824 \*\*\*\*\*INSERT 4\*\*\*\*\*



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1825 Mr. Burgess. Thank you, Dr. Topper, and I want to thank each  
1826 of you for your testimony and we'll move into the second round  
1827 of questions from members. Let me begin by recognizing myself  
1828 for five minutes.

1829 And let me just ask in a very general sense and I will ask  
1830 it to each of you how the adoption of the user fees, going back  
1831 to their initiation, how does it fundamentally change the  
1832 industry.

1833 So I realize that's pretty broad and you have already  
1834 addressed that to some degree. But give me the sound bite, and  
1835 Dr. Cumberbatch, we'll start with you and then we'll come down  
1836 the line.

1837 Ms. Cumberbatch. Thank you very much for the question.

1838 The user fee programs has helped with consistency. Sponsors  
1839 now know when they will hear back from FDA. Also, as Dr. Solomon  
1840 mentioned, it has allowed them to hire and to increase the number  
1841 of reviewers, which has been very important for helping them meet  
1842 the goals of the time lines.

1843 Thank you.

1844 Mr. Burgess. Yes, Dr. Zollers.

1845 Mr. Zollers. Yes. As Dr. Solomon indicated, on the generic  
1846 side of things we've seen a tremendous increase in workload on

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1847 the CVM side and I think that in itself talks to the success of  
1848 the user fee program.

1849 Ten years ago when we had two-year review cycles and we had  
1850 12 or 14 members of GADA at that time and now today we have 270-day  
1851 review cycles, an increased workload, and over 30 members of GADA.  
1852 So that is all indicative of the growth of our industry.

1853 Mr. Burgess. Dr. Topper.

1854 Mr. Topper. Yes, sir. I agree with my colleagues. It has  
1855 really helped in bringing new animal drugs to the market faster  
1856 and we need to continue with this because that's what our patients  
1857 need.

1858 Mr. Burgess. So, now, we've been through -- I guess this  
1859 is the fourth iteration for the animal drug user fee and the third  
1860 for the generic animal drug user fee.

1861 How has that evolved over time? Do you think that is  
1862 something where we've been able to build on the previous levels  
1863 and increase the availability and timeliness of products?

1864 And, again, Dr. Cumberbatch, we'll start with you and then  
1865 come down the line.

1866 Ms. Cumberbatch. Thank you.

1867 In ADUFA I, we began with decreasing the backlog and now we  
1868 are moved on to looking at how we can improve efficiency. From

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1869 here, we will look at how communication can be improved and work  
1870 towards ADUFA goals not just during negotiations for this  
1871 agreement but all through the five-year -- the five-year agreement  
1872 and able to work together to look at how do we best review products  
1873 and ultimately get additional tools for veterinarians onto the  
1874 market.

1875 Mr. Burgess. Yes, Dr. Zollers.

1876 Mr. Zollers. Yes, I would agree with a lot of what Rachel  
1877 just said.

1878 Again, for AGDUFA I, getting through that shock and awe of  
1879 the two-year review cycle and now getting it down to something  
1880 manageable, now we are focused on how do we reduce the time frame  
1881 from the time we initiate the project until it's actually  
1882 approved.

1883 And we are having very good conversations and good  
1884 communication with CVM throughout this process and we'll continue  
1885 to so we can try to improve this process even more before we get  
1886 to AGDUFA IV five years from now.

1887 Mr. Burgess. Yes, sir. Dr. Topper.

1888 Mr. Topper. And, yes, sir, we have been building up all  
1889 along and we look forward to this new one building even better,  
1890 moving things faster, and if we build different things into this,

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1891 as we heard earlier, it'll just make it better.

1892 Mr. Burgess. To that end, and we'll start with you this  
1893 time, Dr. Topper, and move back the other way. The electronic  
1894 submission -- do you see that as being -- ultimately that's going  
1895 to be helpful, correct?

1896 Mr. Topper. Yes, sir. It should speed it up. It should  
1897 decrease the cost to a -- somebody who's providing because it's  
1898 electronic and they don't have to back up that truckload or send  
1899 a computer or a hard drive in.

1900 So it will be readily available to the reviewers and they  
1901 will not have to transcribe it from paper to their own electronic  
1902 means.

1903 Mr. Burgess. Dr. Zollers.

1904 Mr. Zollers. Yes. We are totally in favor of the  
1905 electronic system.

1906 Mr. Burgess. Dr. Cumberbatch.

1907 Ms. Cumberbatch. As Dr. Solomon mentioned, a majority of  
1908 sponsors of pioneers drugs use the electronic submission system  
1909 already.

1910 What we do see is a need to look at the efficiency -- how  
1911 much data are we -- are we putting in. Electronic submissions  
1912 are very helpful for CVM in getting those to the reviewers.

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1913           What we are trying to find is a good way for sponsors to be  
1914 able to get this information in an efficient way.

1915           Mr. Burgess. Well, I want to thank each of you for your  
1916 testimony today and Dr. Topper, in your testimony you talked  
1917 about, you know, the -- kind of the differences between humans  
1918 and animals, having spent a lifetime in practising medicine to  
1919 think that you have got those -- both the major and minor classes  
1920 of animals to consider.

1921           You give the anti-inflammatory that you gave to your dog to  
1922 your cat and you're in big trouble. I am sensitive to the problems  
1923 that you face and we want you to be able to do -- we want you to  
1924 be able to do your best work. So thank you each for testifying  
1925 today.

1926           Mr. Green, I will recognize you for five minutes for  
1927 questions, please.

1928           Mr. Green. Thank you, Mr. Chairman. I hope you didn't have  
1929 any patients that would bite you.

1930           [Laughter.]

1931           Mr. Burgess. How much time do you have?

1932           [Laughter.]

1933           Mr. Green. He was an OB/GYN. Thank you, Mr. Chairman.

1934           Dr. Topper, I am interested in your perspective as a

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1935 veterinarian on the use of antimicrobials in food-producing  
1936 animals and the growing public health concerns regarding  
1937 antimicrobial resistance.

1938 I understand that the use of the medically important  
1939 antimicrobial drugs in treating food-producing animals is  
1940 necessary but I also have concern over the overuse and what steps  
1941 both the FDA and the animal health providers should be taking to  
1942 reduce the risks of resistance.

1943 Can you explain how these antimicrobial resistance happens  
1944 and what impact it can have on both the animal and human health?

1945 Mr. Topper. Yes, sir. I can talk to the first part for sure  
1946 about how the AVMA along with other of our colleagues are very  
1947 much concerned about antimicrobial resistance and we are taking  
1948 as many steps for our members and providing them with information  
1949 about the judicious use of antimicrobials as you heard Dr. Solomon  
1950 talk about, and we have just developed a stewardship for our  
1951 members to follow in looking at these.

1952 So we have been taking an active role in working with the  
1953 Centers for Veterinary Medicine for the veterinary fee directive  
1954 so that all antimicrobials that are put in food have to be under  
1955 the direction of a veterinarian-client-patient relationship and  
1956 they have to have that fee directive.

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1957           Most of the other veterinarians we know through their  
1958           judicious use of the antimicrobials. They are working to reduce  
1959           the number that are being used. So we support that.

1960           To talk about how antimicrobial resistance happens would  
1961           probably be a lot longer than we would have here. And so we can  
1962           probably provide you with plenty of literature as to how that  
1963           antimicrobial resistance occurs. But I am not ready to talk about  
1964           it at this time, if that's okay.

1965           Mr. Green. How has greater data collection improved  
1966           veterinarian awareness regarding the overuse of the antimicrobial  
1967           drugs and what additional steps should the FDA be taking to address  
1968           the concerns?

1969           Mr. Topper. Well, the FDA is monitoring. We do the disease  
1970           -- we do the residue, like Dr. Solomon talked about, during the  
1971           formulation and the approval process of the drug. They have to  
1972           be able to detect it in the meat products. And so as they approve  
1973           those methods that will help detect the antimicrobial uses, as  
1974           they go forward.

1975           Mr. Green. Okay. Do you know what the American  
1976           Veterinarian Medical Association is doing to educate its members  
1977           on the importance of addressing these antimicrobial resistance  
1978           and how can veterinarians be good stewards of antimicrobials when

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1979 treating food-producing animals?

1980 Mr. Topper. Yes, sir. Like I said, we do have and along  
1981 with our industry partners -- that's the bovine practitioners,  
1982 the swine veterinarians, and the avian pathologists -- have  
1983 developed therapeutic guidelines for the judicious use of  
1984 antibiotics and we have just approved in our AVMA's house of  
1985 delegates our stewardship policy and the core principles of  
1986 antibiotic use.

1987 So we are very much educating our members and they do  
1988 understand that there is this great need in public health.

1989 Mr. Green. Well, part of our other jurisdiction on this  
1990 committee is the need to do medical research and looking at the  
1991 next, you know, vaccinations, the next treatment, because we do  
1992 have a growing resistance of -- both in humans and I was going  
1993 to see if that happens with animals that you use these  
1994 antimicrobials and then they -- over a period of time they develop  
1995 a resistance to them. Does that happen in animals as well as we  
1996 see in humans?

1997 Mr. Topper. Yes, sir, it does happen in animals also.  
1998 Again, as we talked about different species react to different  
1999 antibiotics in different ways. So it is a problem in animals  
2000 also.

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2001 Mr. Green. And the concern about growing antimicrobial  
2002 resistance is a real one and further compounded by the need for  
2003 the development of new antibiotics and will still be effective  
2004 in the face of the resistance, and I hope we continue to work  
2005 closely with the CVM and the CDR to ensure that safe and effective  
2006 antibiotics are available when needed.

2007 Mr. Topper. Yes, sir.

2008 Mr. Green. Mr. Chairman, I will yield back my time.

2009 Mr. Burgess. Chair thanks the gentleman. Gentleman yields  
2010 back.

2011 Chair recognizes the gentleman from Oklahoma five minutes  
2012 for your questions, please.

2013 Mr. Mullin. Thank you, Mr. Chairman, and I want to thank  
2014 the panel for the great work and the time and dedication you have  
2015 spent to bring us to this point.

2016 Working with the agency and industry I know is no easy task.  
2017 But that's how we -- as you can see, that's the best way -- the  
2018 easiest way for us to move forward with any type of legislation.  
2019 So thank you both -- everybody for being here.

2020 Dr. Cumberbatch, I want to -- I want to ask you a question.  
2021 Can you explain the difference between the animal market and the  
2022 human drug market and elaborate on some of the differences and

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2023 the challenges that we face?

2024 Ms. Cumberbatch. Absolutely. Thank you.

2025 You know, as Dr. Solomon said, size is one of the differences  
2026 in the animal market and the human market. Also, as a  
2027 veterinarian, when I talk about a treatment protocol, price has  
2028 to be one of the topics that we talk about and what the availability  
2029 is of the medication and what my expectation is as a veterinarian  
2030 that this is going to work for your particular situation.

2031 And it is important to have very good data so that I can share  
2032 that with an animal owner, and that is why it's important to have  
2033 new innovative well-studied drugs on the market for veterinarians  
2034 to use.

2035 Mr. Mullin. So what do you think are some of the unmet needs  
2036 that are in the animal market that we need to try to address?

2037 Ms. Cumberbatch. We've had the opportunity here about a  
2038 number, but osteoarthritis is one that I know we see every day.  
2039 I hear stories where the cat's hiding under the bed or my dog  
2040 doesn't want to play ball anymore -- he seems more tired, or my  
2041 horse won't jump.

2042 You know, these seem like changes in behavior but that's  
2043 sometimes pain, and it's -- osteoarthritis can happen over a  
2044 period of time and it's difficult to study because it does take

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2045 that time.

2046 In cattle, we have chronic diseases as well like Johne's  
2047 disease that eventually is fatal, and most importantly, it  
2048 decreases production and can spread throughout a herd, and that's  
2049 devastating to our small farmers.

2050 Mr. Mullin. Well, as a -- as a cattle owner which, you know,  
2051 we -- I don't think we could quite make a living off our cattle  
2052 because I still think the fastest way to become a millionaire  
2053 running cattle is start with two million -- you will get to a  
2054 million.

2055 [Laughter.]

2056 But I am glad I have other things that can help offset the  
2057 ranch. But it's still a way of life. It's the way I was raised.  
2058 It's the way we raise our kids.

2059 You know, the biggest traffic jam coming out of our house  
2060 is usually the cattle that want to, for some reason, hang around  
2061 the driveway and use the bathroom on it. But that's a whole  
2062 another thing.

2063 But there is issues that we run about -- -my colleague from  
2064 Texas was talking about the antibiotics and the overuse of it.

2065 But there has to be a common area that's reached here, because  
2066 I can tell you personally in our experience -- and I am surrounded

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2067 by other cattle owners -- when we took away the ability to actually  
2068 by medicated feed, it actually cost the consumers more and, in  
2069 my opinion, can be even more devastating, moving forward, because  
2070 unlike children, you're not out there watching your cattle  
2071 necessarily every day on a one-on-one basis.

2072 When you buy cattle out of a stockyard or a sale barn, you  
2073 buy a trailer full of them. Before you mix them into your herd,  
2074 you want to be able to make sure that they've got -- they're not  
2075 carrying something that is going to infect the herd.

2076 We've seen an increase, especially in my area this year,  
2077 because we have such high swings with temperatures from low to  
2078 high with pneumonia coming in.

2079 And used to -- when we would bring our cattle back from the  
2080 barns, which is very common for them to develop a cough, as you  
2081 guys are aware of, or a runny nose, we could catch a lot of that  
2082 before we'd turn them out into the pastures because we would feed  
2083 them some medicated feed.

2084 Now we are running into a situation where we have a choice.  
2085 Instead of sending them just medicated feed, which we are not going  
2086 to overuse because it's too expensive to use all the time, we have  
2087 to vaccinate them to be pre-emptive on this by having to give them  
2088 a shot that they may not need or we take the chance of infecting

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2089 the entire herd.

2090 So which one is -- as us, which one do we decide to do? It's  
2091 very expensive to sit there and time consuming to give everybody  
2092 a shot when you're buying them in pot bellies, which pot bellies,  
2093 by the way, for us are those big trailers, and you're dumping them  
2094 to the lot.

2095 So when we are having this conversation about over  
2096 medicating, I understand the concerns -- me too. But there has  
2097 to be some common area to work with. And so while we've been  
2098 working with the panel, make sure you're not leaving out the  
2099 stakeholders like myself or other cattle producers or the  
2100 stockyards because I know you have been hearing from the  
2101 stockyards on this, too.

2102 So I want to work, moving forward, with this. But I don't  
2103 know that what we've done right now is the right approach.

2104 So with that, Mr. Chairman, I will yield back.

2105 Mr. Burgess. Gentleman yields back. Chair thanks the  
2106 gentleman.

2107 Chair recognizes the gentleman from Oregon, Dr. Schrader,  
2108 five minutes for your questions, please.

2109 Mr. Schrader. Thank you very much, Mr. Chairman.

2110 I will kind of jump on Markwayne's discussion a little bit

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2111 because I think there's a lot of misinformation out there over  
2112 the use of antimicrobials and their contribution to human  
2113 resistance to drugs.

2114           There certainly could be a factor. I spent a lot of time  
2115 reading a lot of the studies that have been generated since the  
2116 '70s and there's lots of inference but no study that I've seen  
2117 there's any direct causation.

2118           That doesn't mean we shouldn't be judicious or smart about  
2119 how we use antimicrobials in veterinary medicine or on the ranch.

2120           I think every one of us wants to do the right thing and I  
2121 would applaud the CVM's recent suggestions that, you know, in  
2122 certain situations when there is the right climatic conditions  
2123 or whatever that under proper veterinary supervision that certain  
2124 therapeutic uses of antimicrobials could be used on a mass basis  
2125 to prevent more disease and, frankly, suffering to these animals  
2126 that Markwayne and others raise on our farms and ranches.

2127           So I just want us to be cognizant of that and I will tell  
2128 you this, in my veterinary practice there were times when, if I  
2129 did not use an antimicrobial at the appropriate time that the  
2130 disease spread would have been much bigger and there was also a  
2131 chance for a virulence to increase and these animals -- or these  
2132 bugs, if you will, to mutate and go stronger yet.

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2133           And to my good colleague from Texas, the real world of  
2134 resistance is called biology. You know, if you ever watched  
2135 "Jurassic Park" -- might have been a fun movie but one thing they  
2136 -- that is absolutely true there is the real world plants and  
2137 animals mutate over time. That could be for good things and it  
2138 could also be for bad things.

2139           So whether or not we get engaged at all in trying to prevent  
2140 that that things are still going to change. We should do our best  
2141 to, you know, fight resistance in the ways we can.

2142           But it's going to happen anyway and that's why drug  
2143 innovation -- the whole hearing we are having here today for our  
2144 animal friends -- speed these things to marketplace because we  
2145 are going to need ever newer and smarter ways to treat these  
2146 animals whether it's on an anti-inflammatory antimicrobial side.

2147           So ending my soliloquy here, Dr. Topper, do you see expanding  
2148 conditional approval as negatively affecting FDA safety and  
2149 efficacy standards in any way?

2150           Mr. Topper. No, sir, because, like Dr. Solomon said, they  
2151 will be doing this all along and it will just get some of these  
2152 drugs that are right now maybe out on extra-label drug use. But  
2153 we still have that great unmet medical need and this will help  
2154 very much if this is added to the bill.

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2155 Mr. Schrader. I would agree.

2156 Talking about extra-label use, a little different than  
2157 conditional use. How do the two processes work in synergy or how  
2158 are they different?

2159 Mr. Topper. I will do my best to my knowledge of them. The  
2160 extra-label drug use, again, are approved drugs that are already  
2161 on the market. They have met FDA efficacy. They may be for  
2162 humans or they may be for another animal species. So, hopefully,  
2163 they were safe in that species.

2164 This conditional would be specific for the species intended  
2165 for use. So it would then have the same safety studies done for  
2166 that species and the efficacy would be increased upon as time goes  
2167 along.

2168 So the difference would be that it will be -- in my knowledge  
2169 that it would be for the species intended for use and not just  
2170 using it -- something approved for a different --

2171 Mr. Schrader. And to your earlier comments, it's just  
2172 another tool in the toolbox for enabling veterinarians who, again,  
2173 the market -- real-world marketplace cost matters. Dr. Zollers,  
2174 say, can't yet take advantage of all these great new drugs  
2175 necessarily that are coming out.

2176 I think it was the chairman and others indicate or you had

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2177 indicated earlier, you know, 23 human products for every  
2178 veterinary product that's developed out there.

2179 So this is just a great way, a safe way, an efficacious way  
2180 for veterinarians to have access, hopefully, to some of the same  
2181 opportunities that we do in the human field and I would argue that  
2182 our food safety is critical to human safety -- the whole public  
2183 health aspect that Dr. Cumberbatch talked.

2184 Dr. Cumberbatch, if I could come to you. You know, again,  
2185 we talked earlier about very few conditional approvals have even  
2186 been requested, much less granted at this time.

2187 From your standpoint -- maybe Dr. Zollers, if you have an  
2188 opinion on this -- what -- you know, what are the barriers? Is  
2189 it just familiarity with this new process or are there some  
2190 barriers, given some of these companies are pretty small?

2191 Ms. Cumberbatch. Thank you, Dr. Schrader.

2192 You know, right now conditional approval is for minor use  
2193 minor species and by definition that is a very small market.

2194 And so by expanding this, it would allow -- it would allow  
2195 companies to bring forward products to a bigger market for that  
2196 unmet need and in no way would this be taking away or preventing  
2197 companies from coming forward and still utilizing MUMS as it  
2198 currently is.

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2199 Mr. Schrader. All right. Dr. Zollers, if I may, real  
2200 quick.

2201 Mr. Zollers. Yes. I would just say right now small  
2202 companies -- it comes down to how much money can they make in  
2203 revenue -- can they make with this process, and a lot of them --  
2204 a lot of times these just don't pan out.

2205 Mr. Schrader. Got you.

2206 Thank you, and I yield back, Mr. Chairman.

2207 Mr. Burgess. Chair thanks the gentleman. Gentleman yields  
2208 back.

2209 Chair recognizes the gentleman from Georgia five minutes for  
2210 your questions, please.

2211 Mr. Carter. Thank you, Mr. Chairman, and thank all of you  
2212 all for being here.

2213 Dr. Cumberbatch, I will start with you. Earlier, when Dr.  
2214 Solomon was here they asked him about the process by which the  
2215 new animal drug application process and how thorough it was and  
2216 how much information that the drug manufacturers had to submit  
2217 along with a new animal drug application.

2218 And I just wanted to ask you, from your perspective do you  
2219 think that's an impediment for new animal drug breakthroughs in  
2220 any way, that it's so detailed and so, for lack of a better word,

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2221 so laborious?

2222 Ms. Cumberbatch. Bringing a new product to market takes  
2223 time. It takes investment. In fact, we have a survey that shows  
2224 that it can take up to 10 years and \$100 million to bring a product  
2225 to market.

2226 Now, as we were talking about with Congressman Mullin as  
2227 well, at the end of the day it comes down to what can an animal  
2228 owner pay for this. These products need to be at a reasonable  
2229 price point as well.

2230 And so yes, having a long review, an expensive review,  
2231 ultimately can hinder our ability to get new products onto the  
2232 market.

2233 Mr. Carter. So you do believe that perhaps just a different  
2234 level of data might be sufficient and still provide the protection  
2235 that we need and -- because there is a balancing act.

2236 We all know there, and, quite honestly, from my perspective,  
2237 FDA, a lot of times, has -- not just FDA but all of federal agencies  
2238 have the tendency to overreact sometimes and over require. So  
2239 is it your feeling that it could be done safely with less  
2240 information?

2241 Ms. Cumberbatch. We are committed to working with FDA to  
2242 look at those efficiencies while making sure that we maintain

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2243 safety and quality in the products.

2244 Mr. Carter. Mr. Chairman, we don't have any kind of  
2245 abbreviated like we do with the drug approvals -- we don't have  
2246 any kind of abbreviated application in this area, do we?

2247 Mr. Burgess. In the generic space you certainly do.

2248 Mr. Carter. In the generic space for animal control?

2249 Mr. Burgess. Yes.

2250 Mr. Carter. We do? Okay. But not in the -- not for the  
2251 new drugs, and obviously that wouldn't work as well.

2252 Let me ask you, Dr. Cumberbatch -- I will start with you.  
2253 From what I understand, the electronic submission that the  
2254 applications are going to have to be submitted electronically  
2255 starting on October of 2018 -- do you think you're all going to  
2256 be prepared for that? Are you ready for that? Is that sufficient  
2257 time?

2258 Ms. Cumberbatch. The pioneer companies have been utilizing  
2259 the e-submitter and so I am confident, yes, AHI members will be  
2260 ready for that transition.

2261 Mr. Carter. Any recommendations in that process that, you  
2262 know, thus far you having input into that process?

2263 Ms. Cumberbatch. The communication is key -- developing the  
2264 templates that they use for the e-submission. The time that it

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2265 would take for a sponsor to put the data in that they collect is  
2266 important. It adds to that time and that administrative burden.

2267 And so increased communication, working together on what  
2268 those templates look like. They have also hoped to provide  
2269 webinars and training. These are all very important.

2270 Mr. Carter. Great.

2271 Dr. Topper, just very quickly I wanted to ask you -- you know,  
2272 one of the concerns and certainly one of the experiences I had  
2273 as a practising pharmacist was the price of some of these  
2274 medications, particularly for the companion animals and, you  
2275 know, unlike human patients where you have insurance and have a  
2276 co-pay, you know, there is no insurance or co-pay for these animals  
2277 and for these types of drugs particularly.

2278 Is there anything that you can really recommend that  
2279 manufacturers might be able to do to lower the cost of some of  
2280 these medications besides take a cut in profit?

2281 Mr. Topper. Well, you raise a very difficult issue and it's  
2282 a complex issue. To ensure that the drugs are safe and  
2283 efficacious then they have to go through this process.

2284 So anything we can do to speed up the process and make it  
2285 more efficient, hopefully, will result in drug-lowering costs and  
2286 especially as the drugs move to generic types then that should

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2287 lower the cost also. But it's complicated, as we know, even in  
2288 human medicine.

2289 Mr. Carter. Great. Well, I thank all of you for being here.  
2290 It's been a very interesting hearing today.

2291 Thank you, Mr. Chairman. I yield back.

2292 Mr. Burgess. Gentleman yields back. The chair thanks the  
2293 gentleman.

2294 Seeing no additional members wishing to ask questions, Mr.  
2295 Green, did you have anything on redirect?

2296 Mr. Green. No, Mr. Chairman. I think the job's been done  
2297 but I do have some concerns because our next half will be trying  
2298 to find, you know, the -- some of the solutions for the drug  
2299 resistance we have. But appreciate the efforts.

2300 Mr. Burgess. Very well.

2301 Again, seeing no further members wishing to ask questions,  
2302 I want to thank our witnesses for being here today. I would like  
2303 to submit statements from the following for the record -- he  
2304 Agriculture Value Chain Coalition.

2305 Pursuant to committee rules, I remind members they have 10  
2306 business days to submit additional questions for the record. I  
2307 ask that witnesses submit their response within 10 business days  
2308 upon receipt of those questions.

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2309

And without objection, the subcommittee is adjourned.

2310

[Whereupon, at 12:20 p.m., the committee was adjourned.]

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