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7 EXAMINING PUBLIC HEALTH LEGISLATION:

8 H.R. 2820, H.R. 1344, AND H.R. 1462

9 THURSDAY, JUNE 25, 2015

10 House of Representatives,

11 Subcommittee on Health

12 Committee on Energy and Commerce

13 Washington, D.C.

14 The Subcommittee met, pursuant to call, at 10:10 a.m.,
15 in Room 2322 of the Rayburn House Office Building, Hon. Joe
16 Pitts [Chairman of the Subcommittee] presiding.

17 Members present: Representatives Pitts, Guthrie,
18 Barton, Murphy, Lance, Griffith, Bilirakis, Ellmers, Brooks,
19 Collins, Green, Capps, Schakowsky, Butterfield, Castor,

20 Matsui, Schrader, Kennedy, and Pallone (ex officio).
21 Staff present: Clay Alspach, Chief Counsel, Health;
22 Noelle Clemente, Press Secretary; Katie Novaria, Professional
23 Staff Member, Health; Graham Pittman, Legislative Clerk;
24 Chris Santini, Policy Coordinator, Oversight and
25 Investigations; Adrianna Simonelli, Legislative Associate,
26 Health; Heidi Stirrup, Health Policy Coordinator; Traci
27 Vitek, Detailee, Health; Greg Watson, Staff Assistant;
28 Christine Brennan, Democratic Press Secretary; Jeff Carroll,
29 Democratic Staff Director; Waverly Gordon, Democratic
30 Professional Staff Member; Tiffany Guarascio, Democratic
31 Deputy Staff Director and Chief Health Advisor; Ashley Jones,
32 Democratic Director of Communications, Member Services and
33 Outreach; Una Lee, Democratic Chief Oversight Counsel; and
34 Samantha Satchall, Democratic Policy Analyst.

|
35 Mr. {Pitts.} Our guests can take our seats. We are
36 voting on the Floor right now, so we are going to try to
37 expedite this a little bit, get through our opening
38 statements on the panel. I would ask the Members to
39 abbreviate their opening statements so that we can go to the
40 Floor and come back after the votes to hear the testimony and
41 do the Q&A.

42 I have a UC request. I would like to submit the
43 following documents for the record: a statement from
44 Representative David Jolly, Florida 13; a letter of support
45 from American Academy of Pediatrics, American Congress of
46 Obstetricians and Gynecologists, March of Dimes, and Society
47 of Maternal-Fetal Medicine. Without objection, those will be
48 entered into the record.

49 [The information follows:]

50 ***** COMMITTEE INSERT *****

|
51 Mr. {Pitts.} The Chairman will now call the
52 subcommittee to order and recognize himself for an opening
53 statement.

54 Today's hearing will examine three bipartisan public
55 health bills to improve health care for newborns, infants and
56 children. As many of you know, one of this subcommittee's
57 top priorities has been helping and protecting children and
58 families. These bipartisan bills that are the subject of
59 today's hearing represent our ongoing effort to work together
60 to strengthen public health and solve problems in our
61 Nation's health care system.

62 H.R. 2820, the Stem Cell Therapeutic and Research
63 Reauthorization Act, introduced by Representative Chris Smith
64 of New Jersey and Doris Matsui of California, reauthorizes
65 the Stem Cell Therapeutic and Research Act of 2005, which
66 provides federal support for cord blood donation and research
67 essential to increasing patient access to transplant.

68 H.R. 1462, the Protecting Our Infants Act of 2015,
69 authored by Representatives Katherine Clark of Massachusetts
70 and Steve Stivers of Ohio, will combat the rise of prenatal
71 opioid abuse and neonatal abstinence syndrome. The bill will
72 address the growing problem of overdose deaths involving
73 heroin and help protect newborns and infants. Additionally,

74 this bill has a Senate companion bill, S. 799 sponsored by
75 the Senate Majority Leader Mitch McConnell.

76 Finally, H.R. 1344, the Early Hearing Detection and
77 Intervention Act of 2015, authored by Health Subcommittee
78 Vice Chairman, Brett Guthrie and Representative Lois Capps,
79 amends the Public Health Service Act to reauthorize a program
80 for early detection, diagnosis and treatment regarding deaf
81 and hard-of-hearing newborns, infants, and young children.

82 I would like to welcome all of our witnesses here today.
83 We look forward to your testimony.

84 [The prepared statement of Mr. Pitts follows:]

85 ***** COMMITTEE INSERT *****

|
86 Mr. {Pitts.} I now recognize the ranking member, Mr.
87 Green, for his opening statement.

88 Mr. {Green.} Thank you, Mr. Chairman. I have a
89 statement I would like to put in the record.

90 I want to welcome our panels.

91 These bills are all very bipartisan, and I appreciate
92 the Chair and the Majority setting them for today, but I
93 would like to ask unanimous consent to place my statement
94 into the record and yield--

95 Mr. {Pitts.} Without objection, so ordered.

96 [The prepared statement of Mr. Green follows:]

97 ***** COMMITTEE INSERT *****

|
98 Mr. {Green.} --my time to my colleague from California.

99 Mrs. {Capps.} Thank you, Mr. Chairman, and thank you,
100 Mr. Green for yielding time, and I appreciate the hearing on
101 these important bills.

102 I am particularly pleased that H.R. 1344, the Early
103 Hearing Detection and Intervention Act, will be discussed
104 here today. As a co-author of that bill along with my
105 colleague, Representative Guthrie, I thank you for including
106 this reauthorization in today's hearing.

107 Since the program received its authorization in 2000, we
108 have seen how vital it is for babies and their families. As
109 a school nurse, this hits home for me too. Back in 2000,
110 only 44 percent of newborns were being screened for hearing
111 loss. Now we are screening newborns at a rate of over 98
112 percent before they leave the hospital and linking them to
113 follow-up care, which is the critical piece, and we know that
114 early intervention is key in helping children with hearing
115 loss achieve academically and developing in line with their
116 peers.

117 Our work isn't done. As a school nurse, I had a lot of
118 interaction with students who were already behind lagging
119 from their classmates due to undiagnosed and/or untreated
120 hearing loss. We can prevent more children from suffering in

121 the classroom through better investment in follow-up and
122 intervention as part of a successful hearing screening
123 program for newborns and infants. We need to ensure that
124 every newborn is screened, every family has access to follow-
125 up care. Early identification and intervention are key to a
126 child's well-being, and that is what this bill would support.

127 I am hopeful we continue to work in a bipartisan way to
128 move this and other bills that we are examining today and
129 bring them all to the Floor this year.

130 So thank you, witnesses, for being here, and I yield
131 back.

132 [The prepared statement of Mrs. Capps follows:]

133 ***** COMMITTEE INSERT *****

134 Mr. {Pitts.} The Chair thanks the gentlelady.

135 Chairman Upton has asked to yield his time to

136 Representative Guthrie, so the Chair recognizes

137 Representative Guthrie at this time.

138 Mr. {Guthrie.} Thank you very much. In the interests

139 of time, Congresswoman Capps had a lot of statements that I

140 was going to make, so I am pleased to be here to support 1344

141 that I am pleased to have co-authored with Congresswoman

142 Capps. And I have been interested in this issue, early

143 detection and screening, since I was in the State

144 legislature. I did research when a bill was going through

145 the legislature and learned if a newborn--at the early stages

146 if you have hearing loss and you don't have the opportunity

147 to hear correctly, you can never gain that back, even if you

148 learn it as a young adult or a teenager or whatever. You can

149 never gain it back.

150 The current law is set to expire September of 2015, a

151 mere 3 months from now, and these services will go away and

152 we will lose the opportunity to catch these early screenings.

153 So I am pleased that Chairman Pitts has put this on the

154 agenda for today. This bill appears to be moving forward,

155 and I appreciate working with Congresswoman Capps, and I

156 appreciate your time, Mr. Chairman, and I yield back.

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

158 ***** COMMITTEE INSERT *****

|
159 Mr. {Pitts.} The Chair thanks the gentleman. I thank
160 him for expediting as well.

161 The Chair now recognizes the Ranking Member of the full
162 committee, Mr. Pallone, for his opening statement.

163 Mr. {Pallone.} Thank you, Mr. Chairman.

164 Did you have a statement on the other side?

165 Mr. {Pitts.} Yes, we did.

166 Mr. {Pallone.} Okay. I know you are trying to get it
167 done fast here.

168 Let me thank Chairman Pitts and Ranking Member Green for
169 holding this hearing on important pieces of legislation that
170 will surely improve the health of our Nation. I am pleased
171 that all three bills have robust bipartisan support and
172 continue this committee's tradition of a thoughtful,
173 collaborative approach to public health legislation.

174 I am not going to read all the bills. I mean, obviously
175 H.R. 2820, the Stem Cell Therapeutic and Research
176 Reauthorization Act, it continues the highly successful Be
177 The Match Registry for bone marrow, and this bill ensures
178 that this critically important program continues to operate.

179 As far as H.R. 1344, the Early Hearing Detection and
180 Intervention Act of 2015 introduced by Representatives Capps
181 and Guthrie, obviously this is important for newborns who now

182 are regularly screened for hearing loss, and so this is
183 something that we support.

184 And finally, H.R. 1462, the Protecting Our Infants Act
185 of 2015, is a greatly needed piece of legislation to address
186 a sad reality of our country's opioid epidemic. This bill
187 rightly recognizes the immediate need for a comprehensive
188 national strategy to address prenatal opioid abuse. So I
189 also thank Representative Clark. She has talked to me about
190 this in the past. I look forward to working with you and our
191 colleagues on these important public health bills.

192 I yield the remainder of my time to Representative
193 Capps--she already spoke.

194 I yield back. Thank you.

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

196 ***** COMMITTEE INSERT *****

|

197 Mr. {Pitts.} The Chair thanks the gentleman, and the
198 Chair recognizes Mr. Green for a UC request.

199 Mr. {Green.} Mr. Chairman, I ask unanimous consent to
200 place into the record a statement by our colleague, Doris
201 Matsui, in support of the bills.

202 Mr. {Pitts.} Without objection, so ordered.

203 [The prepared statement of Ms. Matsui follows:]

204 ***** COMMITTEE INSERT *****

|
205 Mr. {Pitts.} I have someone monitoring the Floor with
206 the number of minutes and Members not voting, so I will keep
207 you updated on that.

208 At this time I will introduce our panel. We have one
209 panel today, and thank you all for coming. I will introduce
210 you in the order of your presentations and ask if you can
211 abbreviate them somewhat. At some point if we don't get
212 through them, we will have to go to the Floor and return to
213 hear the rest.

214 But first Dr. Jeff Chell, Chief Executive Officer,
215 National Marrow Donor Program; Dr. Joanne Kurtzberg,
216 President of the Cord Blood Association; Dr. Patti Freemyer
217 Martin, Ph.D., Director of Audiology and Speech and Language
218 Pathology, Arkansas Children's Hospital; Dr. Stephen Patrick,
219 Assistant Professor of Pediatrics and Health Policy,
220 Department of Pediatrics, Vanderbilt University School of
221 Medicine; and finally, Dr. Mishka Terplan, Medical Director
222 of Behavior Health Systems of Baltimore.

223 Thank you for coming today. Your written opening
224 statements will be made a part of the record as will all
225 Members' written opening statements as usual. You will be
226 given 5 minutes to make your summary. If you can abbreviate
227 that, we would appreciate it.

228 So at this point, the Chair recognizes Dr. Chell for 5
229 minutes.

|
230 ^STATEMENTS OF JEFFREY W. CHELL, M.D., CHIEF EXECUTIVE
231 OFFICER. NATIONAL MARROW DONOR PROGRAM; JOANNE KURTZBERG,
232 M.D., PRESIDENT, CORD BLOOD ASSOCIATION; PATTI FREEMYER
233 MARTIN, PH.D., DIRECTOR OF AUDIOLOGY AND SPEECH LANGUAGE
234 PATHOLOGY, ARKANSAS CHILDREN'S HOSPITAL; STEPHEN W. PATRICK,
235 M.D., M.P.H., M.S., ASSISTANT PROFESSOR OF PEDIATRICS AND
236 HEALTH POLICY, DEPARTMENT OF PEDIATRICS, VANDERBILT
237 UNIVERSITY SCHOOL OF MEDICINE; AND MISHKA TERPLAN, M.D.,
238 M.P.H., FACOG, MEDICAL DIRECTOR, BEHAVIOR HEALTH SYSTEM
239 BALTIMORE

|
240 ^STATEMENT OF JEFFREY W. CHELL

241 } Dr. {Chell.} Good morning, Mr. Chairman and other
242 distinguished Members of the Committee. Thank you so much
243 for inviting us today.

244 As you have heard, I serve as the CEO of the National
245 Marrow Donor Program and Be The Match. We have operated the
246 C.W. Bill Young Cell Transplantation Program since its
247 inception, and that includes a single point of access, the
248 Office of Patient Advocacy, the Bone Marrow Coordinating
249 Center, as well as the Cord Blood Coordinating Center, and
250 with the Medical College of Wisconsin, we hold a contract for

251 the Stem Cell Therapeutics Outcome Database through our
252 research entity, the CIBMTR. I serve as Executive Director
253 of that entity.

254 I would like to thank you all and members of the
255 subcommittee for inviting us to speak on behalf of our 565
256 network partners all over the world, and at the NMDP, we
257 deeply appreciate your support of helping us fight blood
258 cancers through transplantation, often, the only potential
259 cure for these deadly diseases. I would also like to thank
260 Representatives Chris Smith, Doris Matsui, David Jolly, and
261 Chaka Fattah for their leadership in introducing H.R. 2820.

262 As I testify before you today, I am reminded of a
263 hearing in 1987. On that day, the late Congressman Bill Young
264 called on Congress to establish the national registry where
265 children and adults with leukemia and other fatal blood
266 disorders could find a donor. Congress heard that call at
267 that point and established the national registry.

268 Congressman Young's vision was inspired by a child, 11-
269 year-old Brandy Bly, who was fighting leukemia. No one in
270 her family was a suitable match, and without access to a
271 transplant, she would not survive. At that time there was no
272 registry available, and it was the simple statement from her
273 physician that really stimulated Congressman Young to take
274 action, and he said ``Wouldn't it be great if there was a

275 registry of donors that we could tap in to help save a life
276 like this this?" and that really became the basis of our
277 national registry.

278 Since that hearing in 1987, we have made great progress.
279 The NMDP is now the global leader in providing cellular
280 therapy, which is often the only treatment available that can
281 cure some of these life-threatening blood disorders and other
282 significant diseases like sickle cell disease. We also
283 educate healthcare professionals, conduct research, and offer
284 support and education in multiple languages to help patients
285 lead healthy lives after transplant. Today, children like
286 Brandy have a much better chance for a lifesaving transplant.

287 We have been honored to serve as the steward of this
288 critical resource for the last 28 years. During that time,
289 the growth of transplant has increased significantly, and
290 even since 2005, transplants overall have grown 200 percent,
291 and for minorities it has grown 250 percent. We now have
292 over 12 million donors in our registry and over 200,000 cord
293 blood units, but we partnered with 66 registries all over the
294 world to provide a total of 25 million donors and over
295 600,000 units of cord blood, and it is as easy to find a
296 donor and make that transplant happen if that donor was
297 halfway across the world or across the street.

298 Outcomes for transplant for have also improved as well

299 as the number of transplants, so your survival has gone from
300 40 percent to over 70 percent in the last 10 years. But we
301 are especially proud--if we could show the first slide--of
302 our work fighting diseases afflicting children.

303 In 2014, we facilitated 1,200 unrelated transplants for
304 patients 18 years and older, and the first slide shows how
305 important the source not only bone marrow but also umbilical
306 cord blood is in fighting transplants. Dr. Kurtzberg and
307 other pioneers in this field introduced cord blood in the
308 late 1990s, and those truly are helping patients that we
309 would have otherwise not been able to help.

310 But your ongoing commitment has made these advances
311 possible and turned the tragic loss of Brandy into hopes for
312 tens of thousands of Americans. One of those is Hadley
313 Mercer. She was just 6 months old when she was diagnosed
314 with acute myeloid leukemia. After two rounds of
315 chemotherapy, her parents and physicians agreed that a bone
316 marrow transplant was likely her only chance as well as her
317 best chance of survival. We found a perfect match for her, a
318 young man in his 20s. Now almost 2 years old, she is going
319 to have a normal and healthy life because of her donor angel.
320 She is also alive because of your continued support for the
321 C.W. Bill Young Cell Transplantation Program.

322 The NMDP has never forgotten the importance of that

323 physician's simple statement that inspired Congressman Young,
324 and every day we are inspired by people who we meet, young
325 and old, who are seeking to find that match. If we could
326 show the next slide?

327 [Slide]

328 It shows us that even though we have made tremendous
329 progress, we are meeting less than half the need of the
330 pediatric population, and in this slide you can see the
331 lighter-colored areas are areas where we are only meeting 25
332 percent or more of the total need, and as we get darker
333 colors, you can see that there is more and more. So there is
334 many, many more children we can help. So thank you very much
335 for your time and attention.

336 [The prepared statement of Dr. Chell follows:]

337 ***** INSERT A *****

|
338 Mr. {Pitts.} The Chair thanks the gentleman, and we are
339 out of time on votes for the Floor. At this point the Chair
340 recognizes Dr. Kurtzberg.

|
341 ^STATEMENT OF JOANNE KURTZBERG

342 } Dr. {Kurtzberg.} Mr. Chairman, Ranking Member Green,
343 and members of the subcommittee, thank you for inviting me to
344 discuss H.R. 2820, the Stem Cell Therapeutics and Research
345 Reauthorization Act of 2015. My name is Joanne Kurtzberg,
346 and I am the President of the Cord Blood Association of
347 Pediatric Transplant and I am the Founder and Director of the
348 Carolinas Cord Blood Bank, which is a public cord blood bank
349 at Duke.

350 I want to thank both Congressman Chris Smith and
351 Congresswoman Doris Matsui for their leadership and the
352 introduction of this legislation. I also want to acknowledge
353 the subcommittee's bipartisan commitment to the creation and
354 support of the NCBI, or National Cord Blood Inventory, a
355 public cord blood banking network which began when this bill
356 was introduced in 2005.

357 I am talking about a network of banks that save cord
358 blood, which is the baby's blood remaining in the placenta,
359 or afterbirth, after the baby is born. In the past, this
360 cord blood was discarded as medical waste, so it has never
361 been a controversial source of stem cells. Cord blood
362 contains stem and progenitor cells of the blood and other

363 tissues, and it can be collected without harming the mother
364 or the baby and banked for future use, and I put a picture up
365 there of what the bag looks like that we save cord blood in.
366 We save it in less than an ounce of fluid in two compartments
367 with little pigtails so we can test it later and make sure it
368 is appropriate for a patient for transplant.

369 [Slide]

370 If I could have the next slide, it shows you a picture
371 of the very first recipient of cord blood transplant in the
372 world, who is a little boy from North Carolina with a fatal
373 disease called Fanconi anemia. His sister was a match and
374 not affected, and when he was 5 years old he went to France
375 for this transplant, and you can see him 27 years later doing
376 well, a happy, healthy, working, married adult with me. He
377 reached the benchmark of being taller than me, which is what
378 many of my patients like to do post-transplant. But most
379 importantly, he is fully engrafted with his baby sister's
380 cells, and that proved that cord blood contains stem cells of
381 the blood.

382 [Slide]

383 Next slide. Briefly, after that transplant, unrelated
384 donor cord blood banks were established, first at the New
385 York Blood Center, later through support from Congress to
386 establish at NHLBI the COBLT program at Duke and two other

387 sites, and as you know, the first legislation was passed in
388 2005 establishing the National Cord Blood Inventory as part
389 of the C.W. Bill Young Cell Transplantation program. This
390 stem cell source is unique because FDA has issued guidance to
391 license cord blood, and there are now five licensed cord
392 blood banks in the United States. In 2014, we also created
393 the Cord Blood Association to represent both public and
394 private cord blood banks and the cord blood community.

395 [Slide]

396 Next slide, you can see just the milestones in cord
397 blood transplantation. It has been pioneered in children
398 with inherited metabolic diseases. It has been used with two
399 cord blood or double cord blood transplantation at the
400 University of Minnesota, and there have been over 35,000 cord
401 blood transplants performed worldwide and 160 banks
402 established worldwide since it started.

403 [Slide]

404 This just shows you--next slide--some of the research
405 that is going on, so we now have ways to expand cord blood in
406 the red line, so that the patient is in graft in 6 to 10 days
407 instead of 20 to 30 days, and if you would go to the next
408 slide, you will see some just facts about the NCBI. There
409 are 13 members, five licensed banks, and not all the money
410 appropriated has actually been--authorized has been

411 appropriated over the past 10 years, but with the funding we
412 have had, 90,000 high-quality, diverse cord blood units have
413 been stored.

414 [Slide]

415 The next slide shows you a kit that we can send out to
416 moms who want to donate anywhere in the country so the cord
417 blood can be stored in the national inventory.

418 [Slide]

419 The next slide shows you just an example of a little boy
420 with Hurler syndrome. This is a fatal disease where children
421 die by age 5. With a cord blood transplant, you can see on
422 the right, this child is a healthy adolescent with normal
423 intelligence, and many children with these kind of diseases
424 have been helped.

425 [Slide]

426 The next slide lists some of the exciting regenerative
427 medicine trials that are emerging for uses of cord blood
428 beyond treating patients with leukemia and other diseases,
429 and that includes autism, hearing loss, stroke, and cerebral
430 palsy.

431 [Slide]

432 The next slide shows you some data showing that babies
433 with birth asphyxia have had their outcomes improved when
434 they receive a cord blood infusion in the first 2 days of

435 life.

436 [Slide]

437 The next slide shows you our data from Duke showing that
438 a cord blood infusion can actually help children with
439 cerebral palsy regain function and regain normal performance,
440 and the next slide shows you just how the brain can, in the
441 lower left, actually re-form connections after a cord blood
442 infusion.

443 So I thank you for your attention and for your support,
444 and we will be able to entertain questions later.

445 [The prepared statement of Dr. Kurtzberg follows:]

446 ***** INSERT B *****

|
447 Mr. {Pitts.} The Chair thanks the gentlelady, and I
448 apologize for the interruption here but we must now go to the
449 Floor to vote. We are going to vote for three bills and then
450 we will recess for that and come back immediately for the
451 rest of the hearing.

452 So without objection, the subcommittee stands in recess.

453 [Recess]

454 Mr. {Pitts.} The time for our recess having expired, we
455 will reconvene the subcommittee, and we are now ready for Dr.
456 Martin. You are recognized for 5 minutes for your opening
457 statement.

|
458 ^STATEMENT OF PATTI FREEMYER MARTIN

459 } Ms. {Martin.} Good morning, Mr. Chairman and members of
460 the committee. I want to express ACH's and my appreciation
461 to Congressman Guthrie and Congresswoman Capps for their
462 leadership in introducing H.R. 1344, the Reauthorization of
463 the Early Hearing and Detection Intervention Act for
464 Children.

465 This important bill provides assistance to States in
466 identifying hearing loss in infants and young children and
467 places an emphasis on ensuring that those identified with
468 hearing loss receive appropriate intervention.

469 Hearing loss is the most commonly occurring condition
470 that newborns are screened for. Three babies per thousand
471 are born with hearing loss, and this number almost triples by
472 the time children enter kindergarten.

473 When hearing loss is detected early, children can learn
474 sign language, be fit with hearing aids for cochlear implants
475 and/or receive early intervention services that enable them
476 to achieve on par with their hearing peers. If it is not
477 detected early, it can be devastating to children's academic
478 and psychosexual development. There is now abundant
479 scientific evidence that the brain develops in response to

480 early visual and/or auditory stimulation, which is critical
481 for children with hearing loss. Almost 30 years ago, a
482 report commissioned by Congress showed that the average deaf
483 child at that time had a 4th-grade reading level when they
484 were old enough to graduate from high school, in large part
485 due to the fact that these children were not identified until
486 they were 2-1/2 years to 3 years old. Since newborn hearing
487 screening has been implemented, we have seen the average age
488 of identification drop to 2 to 3 months. More importantly,
489 deaf children who are diagnosed early and receive appropriate
490 early intervention often achieve on the same level with their
491 hearing peers by the time they reach 1st grade.

492 H.R. 1344 is the reauthorization of a very successful
493 program, which has been in place for 15 years. Because of
494 this initiative called EHDI, 98 percent of babies are now
495 screened for hearing loss before they are discharged from the
496 hospital. Most of these babies go home to families where it
497 never even occurred to their parents to wonder if they could
498 hear them sing or whisper or cool mommy loves you or daddy's
499 big boy. Early screening allows those infants who do not
500 need assistance to be connected with services--who need
501 assistance to be connected with services, to learn to
502 communicate with their families using sign language and/or
503 hearing technology and start on the path to prepare them for

504 school readiness. Of babies who need follow-up, we know that
505 95 percent of those are born to hearing parents, often with
506 little or no exposure to individuals who are deaf or hard of
507 hearing. They find themselves in a situation that was
508 unanticipated and for which their roadmap on parenting and
509 all their how-to guides may not really apply. A great
510 resource for many of these parents is having access to adults
511 who are deaf or hard of hearing or other forms of parent-to-
512 parent support and family-to-family support as stipulated in
513 this bill.

514 There is much to be proud about this previous
515 legislation that has captured in the reauthorization. The
516 EHDI program has enabled unprecedented collaboration between
517 public and private agencies and across all levels of
518 government. The EHDI program is often cited as a model of
519 how government at different levels and private and public
520 entities should and can work together. The reauthorization
521 continues to emphasize the partnerships among HRSA, CDC and
522 the NIH, and includes language for those agencies for further
523 collaboration.

524 I want to call your attention to a couple of sections in
525 the bill. First, it focuses on continuing to provide limited
526 federal support to programs already in place for infants. In
527 the previous version of the bill, the focus was exclusively

528 on babies. This bill reauthorizes services for babies and
529 extends it to young children. This is critical because now
530 we know that by the time children are 5 years of age, we will
531 almost triple the number of children who have hearing loss,
532 and we need to intervene with this group early so that they
533 are ready to learn when they hit school age.

534 Another important aspect is the focus on families being
535 involved and empowered in the process for their children in a
536 timely way. So engaging and enabling these families is not
537 just desirable but critical. Family involvement is described
538 as the tipping point for children having full access to
539 language, whether it is visual, spoken or a combination of
540 both, and involvement with families is described as family-
541 to-family support and from a variety of professionals
542 including deaf and hard-of-hearing consumers in this bill.

543 It is about more than just screening for hearing loss.
544 We do screening really well but there is work to be done on
545 getting appropriate services for many infants and young
546 children. We have the basis in place but systems to ensure
547 that infants with hearing loss receive the appropriate
548 follow-up for diagnosis, for medical care, and early
549 intervention services from providers that have the knowledge
550 and skills to help them communicate with their families needs
551 to be refined and improved.

552 Because of previous funding for the EHDI programs, loss
553 to follow-up has been reduced by half over the last 10 years,
554 but there is much more work to be done.

555 Thank you.

556 [The prepared statement of Ms. Martin follows:]

557 ***** INSERT C *****

|
558 Mr. {Pitts.} The chair thanks the gentlelady and now
559 recognizes Dr. Patrick 5 minutes for your opening statement.

|
560 ^STATEMENT OF STEPHEN W. PATRICK

561 } Dr. {Patrick.} Chairman Pitts, Ranking Member Green,
562 and honorable members of the committee, my name is Stephen
563 Patrick. I am a Neonatologist and Researcher at Vanderbilt
564 University School of Medicine.

565 It is a privilege to speak with you today about the
566 rising number of infants being born diagnosed with drug
567 withdrawal in the United States. The bill before you, H.R.
568 1462, the Protecting Our Infants Act of 2015, makes positive
569 steps to improve the health of women and infants impacted by
570 opioid use and misuse.

571 A few months ago, I was caring for a 2-day-old baby in
572 the neonatal intensive care unit at Vanderbilt Children's
573 Hospital. At just 48 hours of life, the infant became fussy
574 and jittery. Over the next 24 hours, the infant continued to
575 worsen with diarrhea, sneezing and increased fussiness. Each
576 of these signs are classic for drug withdrawal. However, as
577 mother denied use of any drugs that may cause withdrawal,
578 until the baby's drug screen came back positive for
579 prescription opioids. Once I informed the mother of the
580 baby's drug screen, she reluctantly admitted that she had
581 been using pain pills without a prescription. The baby

582 remained in the hospital for a bit undergoing treatment.

583 And as I reflected on this case, I began to wonder, what
584 if the infant had been discharged to home at the typical 24
585 hours of life only to have drug withdrawal at home. Would he
586 have been brought back to the hospital critically ill, and
587 with systems may help his mother be more knowledgeable and
588 forthcoming about her drug use, and how do we connect her
589 with drug treatment, particularly during pregnancy. This
590 situation unfortunately is increasingly common.

591 Neonatal abstinence syndrome is a drug withdrawal
592 syndrome that infants exposed to opioids experience shortly
593 after birth. Opioids pass from the mother through the
594 placenta to the fetus. At the time of birth when the supply
595 is stopped, the infant is at risk of developing drug
596 withdrawal within the first few days of life. Infants with
597 neonatal abstinence syndrome have difficulty feeding and are
598 more likely to have breathing problems, tremors, increased
599 muscle tone, fever, difficulty sleeping, and inconsolability.
600 Severe neonatal abstinence syndrome requires treatment with
601 an opioid like morphine or methadone and an average hospital
602 stay of about 3 weeks. Watching an infant have drug
603 withdrawal is distressing for doctors, nurses, and for
604 parents.

605 According to the Centers for Disease Control and

606 Prevention, the number of prescription opioids used in the
607 United States quadrupled over the last decade, and by 2012,
608 there were 259 million prescriptions written for an opioid,
609 more than one for every American adult. This rapid increase
610 in opioid use and misuse impacted nearly every population in
611 the United States including women of childbearing age and
612 pregnant women, and a study our group published in May using
613 data from the Tennessee Medicaid program, we found that of
614 110,000 pregnancies in a 3-year period, nearly 30 percent
615 filled a prescription for an opioid pain reliever during
616 pregnancy.

617 Throughout the country, as prescription opioid use grew,
618 so did the incidence of neonatal abstinence syndrome. Using
619 billing data from the Nation's hospitals, our research team
620 conducted a series of studies to determine national rates of
621 neonatal abstinence syndrome. From 2000 to 2012, the number
622 of infants diagnosed with the syndrome grew nearly fivefold.
623 By 2012, one infant was born every 25 minutes on average in
624 the United States with neonatal abstinence syndrome,
625 accounting for an estimated \$1.5 billion in healthcare
626 expenditures, 80 percent of which are paid for by Medicaid.

627 The scope of the problem is staggering in some
628 communities. For example, some areas of my home State,
629 Tennessee, reported one in 20 infants born in their community

630 have neonatal abstinence syndrome, and in some NICUs, nearly
631 50 percent of their total annual hospital days are dedicated
632 to treating this one condition. This rapid increase has
633 largely caught communities and providers off guard. Today
634 there are no well-researched standard treatment protocols for
635 infants with NAS, and as a result, treatment and clinical
636 outcomes vary widely throughout hospitals in the United
637 States.

638 Addressing the complexity of perinatal opioid use and
639 neonatal abstinence syndrome requires a thoughtful public
640 health approach. Our goal should be to promote healthy
641 mothers and infants by supporting prevention and recovery,
642 and this must begin with primary prevention--engaging public
643 health measures to prevent opioid misuse even before
644 pregnancy including bolstering prescription drugs monitoring
645 programs, improving access to contraception, ensuring opioid
646 prescribing is necessary and appropriate, especially among
647 pregnant women; and secondary prevention--improving screening
648 for drug use in pregnancy and ensuring that drug treatment is
649 available when it is needed and that it includes medication-
650 assisted treatment when appropriate; treatment should be
651 comprehensive, gender-specific, and inclusive of obstetric
652 care; and tertiary prevention--improving identification and
653 treatment of infants suffering with neonatal abstinence

654 syndrome and working to improve post-discharge outcomes.

655 Mothers and infants impacted by the prescription of
656 opioid and heroin epidemics are in desperate need of a public
657 health approach to address this problem. We cannot wait any
658 longer to respond, and the status quo is simply unacceptable.

659 The Protecting Our Infants Act takes the necessary and
660 important steps forward to improving research and service
661 care delivery. For the patient I described in my
662 introduction and for the thousands like him, we need the
663 tools to learn how to treat him better, and perhaps even more
664 importantly to prevent him from being there in the first
665 place.

666 As a neonatologist and researcher, I applaud the bill's
667 authors and the committee's interest in this critical public
668 health problem and this issue that affects so many vulnerable
669 mothers and infants in the United States today.

670 Mr. Chairman, I thank you for the opportunity to speak
671 today and I look forward to your questions.

672 [The prepared statement of Dr. Patrick follows:]

673 ***** INSERT D *****

|
674 Mr. {Pitts.} The chair thanks the gentleman and now
675 recognizes Dr. Terplan for 5 minutes for an opening
676 statement.

|
677 ^STATEMENT OF MISHKA TERPLAN

678 } Dr. {Terplan.} Good morning, Chairman Pitts, Ranking
679 Member Green, and distinguished members of the subcommittee,
680 and thank you for having me here today.

681 My name is Mishka Terplan, and I am an OB/GYN and
682 Addiction Medicine Specialist and the Medical Director of
683 Behavioral Health System Baltimore. I am pleased to testify
684 on behalf of the American Congress of Obstetricians and
685 Gynecologists in support of H.R. 1462, the Protecting Our
686 Infants Act. I would like to thank Representatives Katherine
687 Clark and Steve Stivers for their leadership in introducing
688 this legislation and the eight cosponsors on the Health
689 Subcommittee, and I urge the committee to act swiftly in
690 reporting out this bill.

691 H.R. 1462 represents a bipartisan, bicameral effort to
692 address the critical problem of opioid addiction and neonatal
693 abstinence syndrome facing pregnant women from all
694 socioeconomic backgrounds. NAS refers to medical issues
695 associated with drug withdrawal in newborns following
696 prenatal opioid exposure and is expected and treatable with
697 no long-term negative outcomes documented in the literature.

698 While I want to stress the importance of the mother-

699 infant dyad, my testimony will focus primarily on the woman
700 and how passage and implementation of this bill would improve
701 access to quality treatment and care for this population.

702 Specifically, the bill would commence three important
703 initiatives that address the following: One, prevention and
704 treatment of prenatal opioid use disorders. Preventing
705 inappropriate opioid use among pregnant women and women of
706 childbearing age is crucial. Quality preconception care and
707 family planning optimize a woman's health and knowledge
708 before conceiving a pregnancy, improving the likelihood of
709 having a healthy pregnancy and a healthy baby. Among women
710 with opioid addiction, almost 90 percent of their pregnancies
711 are unplanned. All pregnant women are concerned for the
712 health of their baby-to-be and are motivated to change
713 unhealthy behaviors. Most pregnant women who use substances
714 including opioids quit or cut back. Those who cannot stop
715 using by definition meet criteria for having a substance use
716 disorder. In other words, continued use in pregnancy is
717 pathognomonic for addiction, which is a chronic relapsing
718 brain disease.

719 When treating pregnant women with opioid addiction,
720 withdrawal or detoxification are rarely clinically
721 appropriate. Detox results in relapse, and any abrupt
722 discontinuation of opioids can result in preterm labor, fetal

723 distress, or fetal demise. Safe prescribing during pregnancy
724 includes opioid-based medications such as methadone or
725 buprenorphine, which are standard of care for pregnant women
726 with opioid addiction. However, pregnant women continue to
727 face access issues and most do not receive opioid agonist
728 therapy. Denying pregnant women evidence-based treatment in
729 order to prevent NAS is discriminatory.

730 Additionally, opioid medication should be accurately
731 labeled to ensure appropriate access to medication for women
732 who are addicted and for whom the alternatives such as heroin
733 or withdrawal during pregnancy are much more dangerous.
734 Specifically, the FDA boxed warning related to pregnancy
735 should be removed or updated to remove the inaccurate
736 information linking opioid use during pregnancy with ``life-
737 threatening neonatal opioid withdrawal syndrome,`` a claim
738 with no scientific evidence.

739 Number two: Gaps in research and programming.
740 Additional research is needed on effective and non-addictive
741 pain treatment, and any such research should include women of
742 childbearing age and pregnant women. However, it is
743 important to note that medically appropriate opioid use in
744 pregnancy is not uncommon, and opioids are often the safest
745 and most appropriate treatment for a variety of medical
746 conditions and severe pain during pregnancy. Pregnant women

747 with substance use disorders need access to comprehensive
748 services including prenatal care, drug treatment, and social
749 support. Punishing pregnant women with substance use
750 disorders by targeting them for criminal prosecution or
751 forced treatment is inappropriate and will drive women away
752 from care. Innovative treatment models are needed and should
753 be tailored to pregnant or parenting women and should provide
754 priority access.

755 Number three: Improved data collection and
756 surveillance. Opioid addiction has become more widespread
757 geographically and demographically. In communities with high
758 opioid prescription and addiction rates, there will be higher
759 rates of pregnant women with opioid addiction and subsequent
760 NAS. Access to national and State-specific NAS data would
761 enable trend analysis and foster greater sharing of best
762 practices and treatment strategies. Improved data collection
763 would also help us better track and understand the long-term
764 outcomes of infants with NAS. For those purposes, data
765 endpoints need to be of both clinical and sociological
766 significance.

767 Thank you for the opportunity to testify at today's
768 hearing. The committee's attention to and interest in
769 reducing maternal opioid addiction and NAS are crucial, and
770 the Protecting Our Infants Act represents a positive step

771 forward in addressing this growing issue I welcome your
772 questions. Thank you.

773 [The prepared statement of Dr. Terplan follows:]

774 ***** INSERT E *****

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775 Mr. {Pitts.} The chair thanks the gentleman. That
776 concludes the opening statements of our panel. We will now
777 begin questioning. I will recognize myself for 5 minutes for
778 that purpose.

779 Dr. Chell, we will start with you. In what patient
780 population do you see the number of transplants rising the
781 fastest, if you can give us sort of a--

782 Dr. {Chell.} Yes. The group that is rising the most
783 quickly is the elderly population, the senior population, and
784 that is growing by double digits every year, and the reason
785 for that is, the medical conditions for which transplant is
786 often the only cure tend to occur in older populations,
787 diseases like acute myeloid leukemia, myelodysplastic
788 syndrome, myelofibrosis, and others.

789 Mr. {Pitts.} Dr. Kurtzberg, while the cord blood and
790 the bone marrow donor programs have enjoyed great success
791 over the past 10 years, what, if any, are the barriers you
792 face to realizing the full potential of these programs?

793 Dr. {Kurtzberg.} There are two major barriers I would
794 cite. The first is that cord blood grows slower than bone
795 marrow when you first give it for a transplant, and so there
796 is a big need for more research to develop ways to expand
797 cord blood in the laboratory before it is infused, and I

798 showed one slide showing that there is promising work being
799 done in that area.

800 The second is that the cost of a cord blood transplant,
801 and that is for procuring the donor and also taking care of
802 the patient, is higher than some other types of
803 transplantation, and part of that is due to the fact that
804 with licensure of cord blood, the costs of manufacturing have
805 gone up while the market-bearing price for reimbursement
806 cannot change because really, it is already too expensive to
807 have a transplant. So we are really struggling for cord
808 blood to be able to be subsidized through programs like this
809 so that the patient can afford to use the donor.

810 Mr. {Pitts.} Thank you.

811 Dr. Martin, can you elaborate on the importance of
812 medical intervention for and follow-up with medical services
813 for deaf individuals? Why is a public health-based approach
814 important at this time?

815 Ms. {Martin.} Children with hearing loss need follow-up
816 for medical intervention because sometimes hearing loss will
817 be coexisting with other conditions. We want these children
818 to be evaluated for what other coexisting morbidities might
819 occur with hearing loss. What we do know is about a third of
820 children with hearing loss also have another disability as
821 well, and so that medical pace is really critical for them.

822 It makes it a very important public health program. The
823 American Speech and Hearing Association, the National Center
824 for Hearing Assessment and Management, the American Academy
825 of Pediatrics, and American Academy of Otolaryngology have
826 all worked really well on this to ensure that these children
827 get the type of medical care that they need to assist them in
828 having improved outcomes.

829 Mr. {Pitts.} Thank you.

830 Dr. Patrick, you have performed extensive research on
831 neonatal abstinence syndrome. In your written testimony, you
832 state that Medicaid spent \$1.2 billion for NAS
833 hospitalizations in 2012. In February of 2015, the GAO
834 released a report that showed gaps in research funded by the
835 Federal Government in this area. Where should future
836 research focus to close those gaps?

837 Dr. {Patrick.} Well, we have research gaps throughout
838 the continuum of neonatal abstinence syndrome. We need
839 better measures to identify patients at risk of drug
840 withdrawal. We need better systems to diagnose drug
841 withdrawal. The current way we diagnose drug withdrawal is
842 if we have an infant that we know has been exposed to an
843 opioid, so we have to know that first, and then we score them
844 on a system that can be pretty subjective. Basically it's an
845 observation of the infant, and we go through a checklist of

846 what they look like. That was developed decades ago. We
847 need better systems that are more objective and perhaps use
848 technology to aid in that, and we also don't have great
849 mechanisms to understand what is the most effective way to
850 treat these infants, how can we be most efficient, how can we
851 ensure that we can keep mom and baby together when we can.
852 There is a lot that we have to learn, and I think there are
853 gaps throughout the continuum of our treatment of infants.

854 Mr. {Pitts.} Thank you.

855 Dr. Terplan, can you provide more background on the
856 statement in your testimony that the FDA boxed warning
857 related to pregnancy is incorrect and is not validated with
858 scientific evidence? What problems has this caused? To your
859 knowledge, is the FDA in the process of addressing this?

860 Dr. {Terplan.} So the statement on the box is that use
861 of methadone can cause life-threatening neonatal opioid
862 withdrawal syndrome. The likelihood of death from NAS is no
863 different from the likelihood of death for other infants born
864 at matched gestational age. So it does not contribute in
865 excess mortality risk to newborns, neonatal abstinence
866 syndrome. So that is scientifically inaccurate.

867 The FDA has convened a panel to discuss the labeling of
868 this medication that both ACOG and the American Society of
869 Addiction Medication testified at a couple weeks ago, so they

870 are working towards that.

871 Mr. {Pitts.} All right. Thank you. My time is
872 expired.

873 The Chair recognizes the Ranking Member, Mr. Green, 5
874 minutes for his questions.

875 Mr. {Green.} Thank you, Mr. Chairman. Again, I would
876 like to thank our witnesses for being here today and also for
877 your understanding of our unusual schedules to run and vote
878 on the Floor.

879 I would like to ask about the treatment that is
880 available to women with opioid use disorders during
881 pregnancy. The GAO report released earlier this year cited
882 numerous gaps in the treatment of NAS as well as into the
883 treatment of women with opioid use disorders. One of the
884 major barriers the GAO identified was the stigma and
885 criminalization of pregnant women who struggle with substance
886 use during pregnancy. For instance, some State laws require
887 healthcare providers to report substance use during pregnancy
888 to State or local law enforcement officials. One State,
889 Tennessee, defines drug use during pregnancy as criminal
890 assault. According to Guttmacher Institute, 18 other States
891 treat substance abuse during pregnancy as child abuse under
892 civil child welfare statutes.

893 Dr. Terplan, what is the impact of such laws on the

894 incentive for pregnant women to seek treatment for addiction
895 as well as prenatal care?

896 Dr. {Terplan.} Thank you very much for asking that
897 question. Criminalizing or punishing pregnant women for
898 substance use during pregnancy is a disincentive for them to
899 seek prenatal care or seek substance treatment services or to
900 continue with them. I know anecdotally from colleagues of
901 mine who practice in Tennessee, which is the only State that
902 has explicitly criminalized substance use during pregnancy
903 that they are seeing women who are entering prenatal care
904 late, going across State lines to deliver, delivering at
905 home. One colleague of mine had a patient who delivered at
906 home out of concern for being reported. She started
907 bleeding, and the infant had something going on. They went
908 to the emergency room, and that point in time she was
909 arrested, so her concern, her actual concern with avoiding
910 healthcare because of a fear of being caught up in the
911 criminal system was realized.

912 Mr. {Green.} How do these--Dr. Patrick, how do these
913 laws impact the diagnosis of treatment of NAS?

914 Dr. {Patrick.} Well, I think in part, beginning with
915 women avoid care, they are more likely to not seek care in a
916 hospital, and that alone is a disincentive. It creates a
917 barrier to improving infant outcomes. The other piece is

918 that we have to know about the exposure. If there aren't
919 systems that allow women to be forthcoming about their drug
920 use and seek treatment, then we don't know about the
921 exposure. So the infant that I described in my introduction,
922 if we didn't know about it and that infant didn't have a
923 rapid weight loss within the first 2 days of life, that
924 infant would have been discharged home because we wouldn't
925 have known about it, having to withdraw at home and
926 potentially having complications at home including severe
927 dehydration.

928 So I think that is why these systems, public health
929 systems and public health approach, is much preferred to a
930 criminal justice approach.

931 Mr. {Green.} Well, and I understand the legislature and
932 people are being shocked by a mother having a child that is a
933 user. What would you recommend as effective alternatives to
934 address the issue of the prenatal drug use and improve health
935 outcomes for both the mother and the child?

936 Dr. {Patrick.} Well, I think it begins with a lot of
937 what the bill is doing, to begin to get people at the table,
938 to understand what are the knowledge gaps, how do we
939 coordinate things better. It begins with a public health
940 approach to improving access to treatments and to
941 understanding how we curb opioid use and misuse overall, even

942 before pregnancy. I think the easiest way to prevent an
943 infant having drug withdrawal in my unit is to prevent opioid
944 misuse even before pregnancy. So I think those public health
945 measures are critical.

946 Mr. {Green.} Dr. Terplan, you had identified a number
947 of additional treatment gaps for pregnant women with
948 substance use disorders. You mentioned, for instance, a lack
949 of access to medication-assisted therapy for pregnant women.

950 Dr. Terplan, is medication-assisted treatment the
951 standard of care for pregnant women with opioid use
952 disorders?

953 Dr. {Terplan.} Yes, and not just for pregnant women.
954 It would be for men and non-pregnant women. Medication-
955 assisted treatment would be the standard of care for opioid
956 use disorders.

957 Mr. {Green.} What are the barriers to women accessing
958 medication-assisted therapy and what can the Federal
959 Government do to address these barriers?

960 Dr. {Terplan.} There seems to be--we did some research
961 on this. Only 40 percent of pregnant women who are admitted
962 into drug treatment for an opioid use disorder receive
963 medication-assisted treatment in the United States. Some of
964 that has to do with context of treatment. There are many
965 abstinence-only treatment modalities and treatment programs

966 so they are not getting access to it in the treatment
967 context. I know in my State of Maryland, I hear a lot of
968 questions from providers throughout the State. There are
969 large counties in Maryland where there is not a single
970 buprenorphine provider who will take pregnant women. So I am
971 in the process of going around the State and educating the
972 substance treatment providers on how to care for the pregnant
973 women, and one of the concerns that people have is that
974 misperception and perhaps a medical legal liability, lack of
975 knowledge in how to care for the pregnant woman, and
976 oftentimes a lack of good, integrated care between the
977 prenatal care providers and the addiction treatment
978 providers.

979 Mr. {Green.} Okay. Thank you, Mr. Chairman. I know I
980 am out of time.

981 Mr. {Pitts.} The Chair thanks the gentleman and now
982 recognizes the Vice Chairman of the subcommittee, Mr.
983 Guthrie, 5 minutes for questions.

984 Mr. {Guthrie.} Thank you very much

985 Before I get to my questions, Dr. Patrick, I am from
986 Bowling Green, Kentucky, so a lot of people have been to the
987 NICU at Vanderbilt, and it has been a blessing to have such a
988 world-class facility that close. We do have a NICU in my
989 area, and my cousin, Scott Guthrie--I am not sure if you have

990 ever practiced with him--he is from Jackson, Tennessee, but
991 does cover the NICU in Bowling Green.

992 Dr. {Patrick.} Yes.

993 Mr. {Guthrie.} So thanks for what you do.

994 So I want to talk to Dr. Martin. I am the sponsor of
995 the early detection hearing bill, so I want to focus on that.
996 Universal newborn screenings work very well, the newborn
997 side. Could you help the committee understand why it is
998 important to expand to early childhood screening? You know,
999 I can see where a parent would not understand if their
1000 newborn wasn't listening, particularly if it is your first
1001 one and you are not sure exactly what they are supposed to
1002 communicate, but wouldn't a parent know if a child was 3 or 4
1003 and they couldn't hear?

1004 Ms. {Martin.} Well, one of the things that we see is
1005 that children who have what is called light-onset hearing
1006 loss like that that were born with normal hearing and
1007 acquired hearing loss in the first 3 to 5 years of life, that
1008 really they are pretty good at hiding out from their parents.
1009 So they read lots of visual cues that go on in their
1010 environment. There is lots of redundancy in how we tell kids
1011 to do things at that age, and parents want their kids to be
1012 typically developing, so it really flies under the radar a
1013 lot with that age child. We know from the statistics that we

1014 will almost triple the number of kids who are identified. So
1015 if it is three per thousand at birth, we are going to have
1016 two to three times that number of kids who enter
1017 kindergarten, and even a mild, moderate to severe hearing
1018 loss in a child can be missed until they enter school age,
1019 and we want to intervene with them early. We have got great
1020 programs in place that can help them be ready to learn when
1021 they enter school. So it is important to expand it.

1022 Mr. {Guthrie.} Okay. Thank you. Also, there seems to
1023 be a sense of urgency about deciding how to communicate with
1024 your child once they are diagnosed with a hearing issue and
1025 some strong opinions about whether families should use
1026 American Sign Language or spoken language. How does the
1027 early detection bill address this issue?

1028 Ms. {Martin.} One of the important decisions that
1029 families have to make when their child is diagnosed with
1030 hearing loss is how they want to communicate with them, so
1031 they are making decisions about technology use, they are
1032 making decisions about the best way to communicate with their
1033 child or not. One of the stipulations in this bill is that
1034 families be given all the information about all the options
1035 that are available to them. So we want for families is for
1036 them to have the opportunity of informed choice, so we want
1037 to give them the information and help them weigh that in

1038 their family situation with their family dynamics, what their
1039 desired outcomes long term are for their child, with their
1040 culture and traditions and beliefs and their family and make
1041 a decision about what sort of communication mode they choose.
1042 So it might be ASL, American Sign Language. It might be
1043 listening and spoken language. It might be some combination
1044 of both.

1045 The good news is that there is not a right choice. The
1046 right choice is the choice that a family makes for their
1047 child, and we know that the EHDI bill has provisions in it
1048 that help us engage and equip families to make those
1049 decisions and to follow through with whatever decision that
1050 the make.

1051 Mr. {Guthrie.} Well, thanks, and I was involved in
1052 creating and expanding the Governor's initiative involved in
1053 getting it passed when I was in the State legislature, and so
1054 a lot of States are doing this. What is the role of the
1055 Federal Government in this?

1056 Ms. {Martin.} Well, the federal funding really primes
1057 the pump for this. It is a great example of the Federal
1058 Government seeing something that could take place and really
1059 be beneficial to families and to children, and stepping in
1060 and setting that program up, and so basically it is money
1061 that primes the pump for States to do what needs to be done

1062 to identify these children and get them enrolled in services
1063 and helps them continue that process. So the States are all
1064 implementing it in different ways, in lots of different
1065 successful ways. The federal money helps us be able to share
1066 information back and forth and to be able to move towards
1067 best practice and evidence-based practice as we move forward
1068 in helping these kids attain their full potential.

1069 Mr. {Guthrie.} Well, thank you very much. When I was
1070 involved, I did research on the bill, and I remember talking
1071 to a researcher at Vanderbilt--that is where I went down to
1072 really understand what was moving forward and whether to move
1073 forward or not, how much government do you get involved in--
1074 and they told me that if a newborn child, even if it is
1075 healthy, put them in a room where they couldn't hear, by the
1076 time they were 3, they would never be able to develop the
1077 proper speech patterns. So what if a child could get
1078 corrected or get on the right path in the earliest stages?

1079 The other thing they did was eye screening, and the only
1080 reason I bring that up is because they said the normal
1081 pediatric screening would catch you going into kindergarten
1082 almost all the time except for about 1 or 2 percent, and so
1083 do you increase this program for 1 or 2 percent? Well, if
1084 you are one of those parents, you do, and it turned out when
1085 we passed the bill, my child had to go to an optometrist

1086 before kindergarten at 5, and he was one of the 1 or 2
1087 percent. So these are important programs, and I am pleased
1088 to be involved and pleased to work with Congresswoman Capps
1089 on this, and thank you for coming from Arkansas.

1090 Ms. {Martin.} Thank you very much.

1091 Mr. {Guthrie.} I yield back.

1092 Mr. {Pitts.} The Chair thanks the gentleman and now
1093 recognizes the gentlemen from Oregon, Mr. Schrader, 5 minutes
1094 for questions.

1095 Mr. {Schrader.} No questions, Mr. Chairman.

1096 Mr. {Pitts.} All right. We will go to Mr. Kennedy.

1097 Mr. {Kennedy.} Thank you, Mr. Chairman. I want to
1098 thank the witnesses for attending today and your testimony,
1099 and I really want to recognize the Chairman for calling a
1100 very important hearing.

1101 I am going to focus my comments a bit on the opioid
1102 epidemic, which has been devastating for parts of
1103 Massachusetts and for expanding communities across our
1104 country. One thing that I know the entire group can agree on
1105 is with regards to the opioid crisis that is devastating in
1106 its reach, as we have heard from your testimony so far this
1107 morning. It does not discriminate, not by race, gender, age,
1108 demographics, income, or any other metric. The breadth and
1109 depth of this epidemic is particularly painful when it comes

1110 to its youngest victims--newborns--and the rise of neonatal
1111 abstinence syndrome, NAS.

1112 In the United States, the rate of opiate-dependent
1113 births has nearly tripled since 2009. In my home State of
1114 Massachusetts, the Department of Children and Families
1115 received 2,376 reports of substance use-exposed newborns
1116 between March of 2014 and March of 2015. In Tennessee, a
1117 recent study of the State's Medicaid program found that over
1118 a quarter of all women in the program were prescribed opioid
1119 pain relievers during pregnancy. Of the infant born there
1120 with NAS, 65 percent were born to mothers who were legally
1121 prescribed opioids. These statistics make it clear: We are
1122 falling far short in our efforts to protect the youngest
1123 among us from an epidemic and we are failing to provide
1124 reliable, appropriate care to pregnant women. We need to
1125 start researching today to protect our children tomorrow.

1126 I want to recognize and congratulate and celebrate the
1127 efforts of our Congress, Congresswoman Katherine Clark from
1128 Massachusetts, and Congressman Steve Stivers, whose efforts
1129 will help address this dangerous failure to grasp the reach
1130 of NAS, and I thank them both for their leadership on this
1131 critical issue.

1132 With that said, I wanted to focus my first question to
1133 both Dr. Patrick and Dr. Terplan. Can you expand on the gaps

1134 in research in NAS, particularly around prevention and
1135 treatment, and what evidence-based medical guidance is
1136 currently available to doctors and nurses who treat mothers
1137 and newborns? I know you both touched on it a little bit in
1138 some of the questions but I would like to flesh it out a
1139 little bit more.

1140 Dr. {Patrick.} Well, I think the gaps--we talked a
1141 little bit about some of the issues with diagnosis. We can
1142 go on throughout the spectrum in understanding how we send
1143 these kids home safely. We have--infants with neonatal
1144 abstinence syndrome are about two and a half times as likely
1145 to be readmitted to the hospital within 30 days after
1146 discharge. We really need systems, both service care
1147 delivery as well as research into the best mechanisms to ease
1148 that transition home. It is a complicated time for families,
1149 and you can think about an infant who is already a bit more
1150 fussy than usual and how this can be a challenging time for
1151 families. And so part of it is supporting families in that
1152 transition, perhaps using things that we know work well with
1153 the evidence that exists for childhood like home visitation
1154 programs. There really needs to be more targeted evidence
1155 towards this population and perhaps using evidence that we
1156 have garnered from other places.

1157 And as far as prevention, I think the committee's work

1158 that the committee has been working on more broadly on the
1159 heroin and prescription drugs epidemics, I think bolstering
1160 programs like prescription drugs monitoring programs and
1161 targeting special populations is really important, and
1162 ensuring that they are well funded at the State level and
1163 perhaps even targeted towards special populations such as
1164 women of childbearing age.

1165 Mr. {Kennedy.} Thank you.

1166 Doctor?

1167 Dr. {Terplan.} So I am going to focus my comments more
1168 on women. Identifying women with substance use disorders at
1169 the time of labor and delivery is 9 months too late. So we
1170 need to be doing universal screening for substance use during
1171 prenatal care, and that should be done not just with
1172 toxicology testing, which is the most common way we test for
1173 things with a urine test, which is not a test for a
1174 behavioral disorder that addiction is but with an instrument,
1175 a validated instrument, and we actually need to have more
1176 good comparison between what is the right set of questions to
1177 ask. There is a CDC-funded study that just--I don't know if
1178 it started yet but it just got approved--to compare different
1179 screening instruments during pregnancy. So we will have
1180 better data for that in the future.

1181 Really, for me, the research question is one about

1182 implementation. We know what treatment modalities work. The
1183 issue is that women aren't getting access to them, and so it
1184 becomes not a hypothesis question of what is, you know, best
1185 practice per se but how to deliver what we know to a
1186 population.

1187 Mr. {Kennedy.} I have got 25 seconds, Doctor. I want
1188 to push a little bit. What are the barriers to access? What
1189 can we do to alleviate those?

1190 Dr. {Terplan.} I think there is a knowledge deficit. I
1191 think that also criminalizing of pregnant women for substance
1192 use disorders discourages adherence with treatment or access
1193 and care, and so they are showing up on labor and delivery
1194 rather than during treatment or during pregnancy, and I think
1195 there is also some federal barriers in terms of dissemination
1196 of methadone and also we don't have enough prescribers for
1197 buprenorphine in the United States.

1198 Mr. {Kennedy.} Thank you both. I yield back. I thank
1199 the Chairman.

1200 Mr. {Pitts.} The Chair thanks the gentleman and now
1201 recognizes the gentleman from Pennsylvania, Dr. Murphy, 5
1202 minutes for questions.

1203 Mr. {Murphy.} Thank you. I will try and rush through
1204 these.

1205 First, Dr. Kurtzberg, as an experienced cord blood

1206 banker and cord blood transplanter, what is your definition
1207 of a high-quality cord blood unit?

1208 Dr. {Kurtzberg.} That is a great question. So a high-
1209 quality cord blood unit needs to be sterile. It needs to be
1210 checked incapable of transmitting genetic or infectious
1211 diseases, and most importantly, it needs to be potent, and
1212 potency can be measured by the number of cells that are in
1213 the unit, and we know now that we need a certain dose of
1214 cells to transplant individual patients and that many of the
1215 units that are collected are too small and don't contain that
1216 number of cells.

1217 Mr. {Murphy.} So do you think the current HRSA
1218 contracting policies optimize the collection of high-quality
1219 cord blood units?

1220 Dr. {Kurtzberg.} No, I think HRSA needs to help the
1221 banks to be incentivized to collect bigger units with more
1222 cells, and right now their policy does not do that.

1223 Mr. {Murphy.} And you mentioned that among the
1224 potential uses for cord blood are in regenerative medicine.
1225 You have initiated trials using cord blood to treat brain
1226 disorders including autism. Could you please explain for the
1227 committee the current status of that project and insight you
1228 have about the future of that research?

1229 Dr. {Kurtzberg.} Sure. So we think this research has

1230 enormous potential in autism, cerebral palsy and other brain
1231 disorders in children that are probably acquired and not
1232 genetic, and in these cases, we have initiated studies
1233 predominantly funded through the Marcus Foundation or the
1234 Robertson Foundation where we are looking at the role of cord
1235 blood infusions in those children.

1236 In autism, we have completed a 25-patient study for
1237 children ages 2 to 6 where we are looking at endpoints at 6
1238 months and changes in symptoms of ASD, and we have shown that
1239 children who get a higher dose of cord blood cells similar to
1240 the dose we would give a patient with leukemia or another
1241 malignant diagnosis benefit and have improvement in the
1242 symptoms with decrease in autistic symptoms. We think and we
1243 have evidence on MRI that this is due to a normalization of
1244 the connectivity in the brain that is coming from signaling
1245 of the cord blood cells to cells in the child's brain, which
1246 helps repair these conduction pathways.

1247 Mr. {Murphy.} That is fascinating. I want to follow up
1248 with you in the future.

1249 But let me ask Dr. Terplan and Dr. Patrick, I used to
1250 work in an NICU as a psychologist and would follow up
1251 children with developmental disorders, and I would be correct
1252 in saying that maternal opiate use has increased risk for
1253 developmental problems in a child either directly or also

1254 related to such things as low birthweight, prematurity,
1255 decreased head circumference? Am I correct in that
1256 continuing to be a concern?

1257 Dr. {Patrick.} I am happy to address that. I think the
1258 literature is difficult. There have been several studies
1259 demonstrating some issues with behavior, particularly some
1260 other issues, lazy eye, strabismus has also been described.
1261 But one of the things that we need is more research to follow
1262 these infants long term.

1263 Mr. {Murphy.} Well, let me ask this too, and also
1264 concern for increased risk for mortality if a physician is
1265 not aware of some of these problems during pregnancy and
1266 increased risk for fetal demise. Am I correct with those?

1267 I am going to ask this question. I believe, Dr.
1268 Terplan, you mentioned one of the issues is information. I
1269 also chair the Oversight and Investigation Subcommittee here,
1270 and many of my colleagues have been part of that. We have
1271 looked at the issue of the concern for if someone is in
1272 treatment, those medical records are not there, so you can't
1273 find out, an OB/GYN cannot find out because it is not in the
1274 record, and we have tried to address it, should it be wholly
1275 within the record, should it be under the patient's approval.
1276 This was based on 1970s law and regulations. Should the
1277 patient say, well, put a 1-year waiver in to allow that

1278 information in there? We had testimony just a week ago where
1279 one of our former colleagues had said, you know, it is in the
1280 chart if he has an allergy to penicillin, why can't it be in
1281 the chart that he has a reaction to opiates, please don't
1282 prescribe it, or if I am on there, to know those things. I
1283 wonder if you can comment on this 42 C.F.R. part 2, the thing
1284 that we tried to deal with. Do you want access to those
1285 records?

1286 Dr. {Terplan.} So the reason for that legislation was
1287 just because individuals with substance use disorders are
1288 prejudiced against in our society and to protect them--

1289 Mr. {Murphy.} But I understand, but we have already
1290 established it is the neonates that suffer.

1291 Mr. {Terplan.} Yes, and so I think that the law which
1292 had a reason in the past actually does serve as a barrier to
1293 effective communication between parties. What I stressed
1294 when I talk about this is that there needs to be close
1295 collaboration between prenatal care providers and drug
1296 treatment providers and that consent forms need to be signed
1297 to get around that so that information can be easily shared.

1298 Mr. {Murphy.} I just want to make sure we are not
1299 making behavioral medicine and physical medicine separate but
1300 equal.

1301 Dr. {Terplan.} Correct.

1302 Mr. {Murphy.} And if these are--you can have toxic and
1303 higher mortality rates. We know the mortality rate has
1304 skyrocketed to 42,000 deaths from drug overdose last year.
1305 We know there is a huge problem with neonatal abstinence
1306 syndrome. I hope you will respond more to this committee
1307 with your insights. I am fascinated by them and I want to
1308 hear more, because we want to make sure that you as providers
1309 have the information you need to know when you are dealing
1310 with a baby so you can deal with it effectively.

1311 I thank you very much. I yield back.

1312 Mr. {Pitts.} The Chair thanks the gentleman and now
1313 recognizes the Ranking Member of the full committee, Mr.
1314 Pallone, 5 minutes for questions.

1315 Mr. {Pallone.} Thank you, Mr. Chairman.

1316 I think it is important to understand neonatal
1317 abstinence syndrome, or NAS, in the context of the public
1318 health challenge of the overprescribing of opioid painkillers
1319 in the United States. Between 2000 and 2010, there was a
1320 fourfold increase in the use of prescribed opioids for the
1321 treatment of pain. In 2012, healthcare providers wrote 259
1322 million prescriptions for opioid painkillers, enough for
1323 every adult American to have a bottle of pills.

1324 So my questions. Dr. Patrick, first, can you describe
1325 what has happened with the incidence of NAS in the past

1326 decade? In your opinion, is this phenomenon tied to the
1327 issue of the overprescribing of opioid painkillers for pain?

1328 Dr. {Patrick.} Well, over the last decade, we know that
1329 neonatal abstinence syndrome has grown fivefold, and by 2012,
1330 one infant was born every 25 minutes on average with the
1331 syndrome. When we look at specific studies, there have been
1332 several studies looking at what is happening in generally
1333 prescribing, as you described, it has increased, but it has
1334 also increased among women of childbearing age as well as
1335 pregnant women over time. In a recent study we conducted in
1336 Tennessee, we looked specifically at opioid prescribing in
1337 pregnancy, and we found that nearly a third of pregnant woman
1338 had an opioid pain reliever prescribed in pregnancy, and most
1339 of those, 96 percent, were short-acting opioids. So yes, I
1340 think there is compelling evidence that what we have seen in
1341 our neonatal intensive care units and in labor and delivery
1342 is a result of the broader prescription opioid epidemic and
1343 it is the downstream effect that we are seeing negatively
1344 impact both women and infants.

1345 Mr. {Pallone.} I think I was going to ask some
1346 questions about the Tennessee Medicaid program but I think
1347 you just answered them, so let me move on.

1348 I was surprised by the prevalence of opioid prescribing
1349 in pregnant woman. It is eye-opening, to say the least, and

1350 I think most of us associate NAS with illicit opioid use
1351 including heroin. While it is certainly important to ensure
1352 that pregnant women have access to treatment for pain, it is
1353 also important for patients and providers to understand that
1354 medical use of opioids during pregnancy presents a risk of
1355 NAS.

1356 So do you think there needs to be more research
1357 conducted to inform us on when it is indicated to prescribe
1358 opioid painkillers during pregnancy?

1359 Dr. {Patrick.} So from my perspective as a
1360 neonatologist, yes, I think guidelines would be helpful. I
1361 think the nuance here is that we have in one population
1362 perhaps overprescribing but we also have difficulty accessing
1363 medication-assisted treatment. So one thing that is
1364 important to know is that neonatal abstinence syndrome is not
1365 the worst complication of pregnancy; preterm birth is. And
1366 in some women with substance use disorder, accessing
1367 medication-assisted treatment is vital.

1368 So we have this group of patients who have difficulty
1369 accessing medication-assisted treatment and we have another
1370 group of patients who are likely being overprescribed opioid
1371 pain relievers and another group of patients who are now
1372 using heroin, and so we need more research to understand this
1373 diverse population and how we improve outcomes based upon all

1374 of them, and I think that is why the goal needs to be overall
1375 to improve health for moms and babies because they are tied
1376 so closely together.

1377 Mr. {Pallone.} Thanks. In your paper, you conclude,
1378 and I quote, ``Prescription opioid use in pregnancy is common
1379 and strongly associated with neonatal complications.'' Could
1380 you just elaborate on that statement? In other words, what
1381 are the neonatal complications associate with NAS and how are
1382 they linked to prescription opioid use during pregnancy?

1383 Dr. {Patrick.} Well, in that study, we looked at two
1384 different groups of people. We looked at--or three,
1385 actually--where there were no opioids prescribed, where there
1386 were opioids prescribed but neonatal abstinence syndrome did
1387 not occur, and when neonatal abstinence syndrome occurred.
1388 For infants that were exposed to opioids and for infants with
1389 neonatal abstinence syndrome, they are more likely to be born
1390 preterm and low birthweight, more likely to have respiratory
1391 complications, have things like jaundice and feeding
1392 difficulty. That was much more common among those infants,
1393 and I think, again, that is why primary prevention aimed at
1394 both moms and babies is really where we should target.

1395 Mr. {Pallone.} All right. I want to thank you for your
1396 good work on this issue and for bringing much-needed public
1397 attention to the issue of NAS. I also want to thank

1398 Representatives Clark and Stivers for their work on
1399 Protecting Our Infants Act of 2015, which will hopefully
1400 focus our efforts to address NAS at the federal level.

1401 You were pretty fast in answering those questions so we
1402 can get it within our 5 minutes. Thanks again.

1403 Dr. {Patrick.} I am a fast talker. Thank you.

1404 Mr. {Pitts.} The Chair thanks the gentleman and now
1405 recognizes the gentleman from New Jersey, Mr. Lance, 5
1406 minutes for questions.

1407 Mr. {Lance.} Thank you very much, Mr. Chairman, and
1408 good morning to the distinguished panel.

1409 To Dr. Patrick, opiate abuse is a growing problem across
1410 the country obviously including in New Jersey. As a result,
1411 about 5 years ago, the Children's Specialized Hospital in New
1412 Jersey developed a neonatal withdrawal and rehabilitation
1413 program. When a baby is admitted, the hospital evaluates the
1414 child's symptoms using a 21-point checklist to determine how
1415 much medicine needs to be administered as the baby is weaned
1416 from its opiate, and a course of therapies designed to
1417 address many of the symptoms associated with neonatal
1418 abstinence syndrome, NAS, which has been discussed here this
1419 morning.

1420 For example, the hospital uses a special stimulation
1421 device on the baby's throat to teach the infant how to

1422 swallow, and the hospital also teaches the mother massage and
1423 calming techniques. Can you discuss the role that these
1424 types of rehabilitative therapies play in a child's recovery
1425 and how will H.R. 1462 help to ensure that more children
1426 receive the comprehensive care that they receive at a
1427 wonderful hospital in New Jersey, the Children's Specialized
1428 Hospital?

1429 Dr. {Patrick.} Well, one of the things that we need to
1430 learn are more innovation such as the things that you have
1431 described where the literature may not be as robust, and so I
1432 think that is one thing that this bill provides. It outlines
1433 potential gaps. You know, I think that is one of the targets
1434 and one of the potential ways that this bill helps. What was
1435 the second part of your question?

1436 Mr. {Lance.} I think you have answered it. We want to
1437 make sure that the bill is effective in developing techniques
1438 that will save the child's life.

1439 Are there similar programs--I am sure that our program
1440 in New Jersey is not the only program that is trying to
1441 develop techniques in this area. Are there other programs
1442 across the Nation, and what are some of the methods used in
1443 other programs?

1444 Dr. {Patrick.} Well, one of the most important things
1445 that we have seen grown up over the last several years are

1446 States building perinatal collaboratives focused on improving
1447 care to moms and babies, and nationally, a group called the
1448 Vermont Oxford Network that we have been involved in that--
1449 Mr. {Lance.} The Vermont Oxford--
1450 Dr. {Patrick.} Network, yes, sir.
1451 Mr. {Lance.} That is Oxford in England or--
1452 Dr. {Patrick.} It initially started that way. But this
1453 program involves at the start 200 NICUs, mostly in the United
1454 States but in a couple other countries, focused on improving
1455 the care to infants with neonatal abstinence syndrome. One
1456 of the first things that we needed to do was just standardize
1457 the care that occurred because there's great variability from
1458 place to place, and hospitals like the hospital that you
1459 described where they have a standard approach, were focused
1460 on this one population and we know that we treat this
1461 population the same way every time, that alone is associated
1462 with improved outcomes. And so that is part of where we have
1463 been working over the last several years. There are a few
1464 hospitals that have popped up specifically focused--West
1465 Virginia is one specifically called Lily's Place just to
1466 treat infants with neonatal abstinence syndrome, and those
1467 innovations, to be able to allow rooming in where moms and
1468 babies stay together--because the NICU environment can be a
1469 chaotic environment where we have ventilators and all kinds

1470 of machinery, places where there can be a dark, quiet
1471 environment where healing can occur as you have described.

1472 Mr. {Lance.} Thank you. Is there anyone else on the
1473 panel who would like to comment?

1474 Very good. Mr. Chairman, I yield back 1-1/2 minutes.

1475 Mr. {Pitts.} Excellent. Thank you, Mr. Lance.

1476 The Chair now recognizes Mr. Butterfield 5 minutes for
1477 questions.

1478 Mr. {Butterfield.} Thank you very much, Mr. Chairman,
1479 and I thank all of the panelists for their willingness to
1480 testify today.

1481 I will start off by apologizing for being late for the
1482 hearing. I have been trying to watch some of it on
1483 television while I have been trying to read the Supreme Court
1484 decision in the Burwell case a few moments ago, the 6-3
1485 decision that for the second time affirms the Affordable Care
1486 Act, which was the historic law that we debated in this
1487 committee some years ago, and I was part of that debate, and
1488 our committee passed it, it passed the Congress, and now it
1489 is the law of the land and it is working, and I just wanted
1490 to make that statement for the record. I realize that is not
1491 the subject of today's hearing but I could not go back to my
1492 office without saying it. I am not gloating, Mr. Chairman.
1493 I am not gloating. I am not. I am not. I am not gloating.

1494 I just wanted to reach across the aisle and say to my
1495 colleagues that the law is working and let us make it work
1496 and let us get healthcare to all Americans because they
1497 deserve it.

1498 I welcome the witnesses and I am happy to recognize Dr.
1499 Joanne Kurtzberg, who is testifying today in her capacity as
1500 President of the Cord Blood Association. She is a Professor
1501 of Pediatrics and Pathology at Duke University School of
1502 Medicine. Duke is one of the world's premier healthcare
1503 providers. That is undisputed. It educates and employs the
1504 world's top doctors and nurses and researchers, and I am
1505 proud to represent Duke Med here in the Congress.

1506 Mr. Chairman, I support these three bills that we are
1507 discussing today. I encourage their expeditious
1508 consideration. As Chairman of the Congressional Black
1509 Caucus, I know that many of the conditions which can be
1510 treated using cells from cord blood like sickle cell anemia
1511 disproportionately impact African Americans, and also as a
1512 member of Gallaudet University Board of Trustees, I care
1513 deeply about preventing hearing loss and supporting the deaf
1514 and hard-of-hearing community.

1515 Equally concerning is the marked increase in
1516 prescription opiate abuse among pregnant women and its impact
1517 on infants.

1518 Mr. Chairman, H.R. 1462 addresses this important issue
1519 and will identify ways to reduce neonatal abstinence
1520 syndrome, and so I appreciate the opportunity to discuss
1521 these very important topics.

1522 Now, Dr. Kurtzberg, it is no surprise that I am going to
1523 go to you first with the time that I have. What are some of
1524 the diseases which impact African Americans
1525 disproportionately and are treatable by using cells from cord
1526 blood?

1527 Dr. {Kurtzberg.} So the first disease we all think of
1528 is sickle cell anemia, which can be cured with hematopoietic
1529 stem cell transplant, and children and adults with sickle
1530 cell often have a hard time finding a match donor in their
1531 family or in the registry. Cord blood has the advantage of
1532 not having to be completely matched and therefore it has
1533 become one of the optimal donor sources for patients with
1534 sickle cell disease.

1535 Mr. {Butterfield.} Can you elaborate on the need for
1536 racially diverse units in the NCBI?

1537 Dr. {Kurtzberg.} Yes. So, you know, it is kind of a
1538 debate because we need big units, and biologically, patients
1539 with sickle cell--I am sorry--patients who are African
1540 American have sticky cells and their cells stick to the walls
1541 of their blood vessels. So when you do a blood test or a

1542 cord blood collection, you actually get a fewer number of
1543 cells per volume of blood than you would from a Caucasian,
1544 and so it makes it more challenging to collect high-quality
1545 units from African American patients because you have to
1546 collect more to get big enough ones.

1547 Having said that, the match, which is somewhat related
1548 to ancestry, will be better often if a patient receives a
1549 unit from someone of their own race. So really, the program
1550 is challenged to collect probably twice as many units from
1551 African American patients and donors in order to have a high-
1552 quality inventory for those patients.

1553 All in all, we need more African American donations and
1554 collections, and they will provide better matches to African
1555 American patients, but they have to also be targeted to be
1556 big enough to serve those patients well.

1557 Mr. {Butterfield.} I am also interested in the
1558 potential for new applications using cord blood and some of
1559 the cutting-edge breakthroughs that are being made in your
1560 field. Can you describe how your discovery of using
1561 unrelated cord blood for transplant benefits patients and how
1562 it could lead to future breakthroughs?

1563 Dr. {Kurtzberg.} So we have specifically studied at
1564 Duke the use of unrelated cord blood in children with certain
1565 genetic diseases that affect the brain. These are

1566 leukodystrophies like adrenal leukodystrophy, Krabbe disease,
1567 and diseases like Hurler syndrome and many others, and from
1568 that work, we have also learned that cord blood cells go to
1569 the brain and facilitate repair of various abnormalities in
1570 the brain like demyelination or abnormal connections, and we
1571 are now using that observation to treat children with birth
1572 asphyxia, cerebral palsy, autism, and then adults with
1573 stroke, and I think we are just at the beginning of seeing
1574 the opportunity for cord blood to also treat patients with
1575 adult demyelinating diseases like M.S. or others.

1576 Mr. {Butterfield.} Thank you very much. I yield back.

1577 Mr. {Pitts.} The Chair thanks the gentleman and now
1578 recognizes the gentlelady from North Carolina, Mrs. Ellmers,
1579 5 minutes for questions.

1580 Mrs. {Ellmers.} Thank you, Mr. Chairman, and thank you
1581 to our panel for being here today discussing this very
1582 important issue.

1583 Dr. Martin, I am going to start with you. Can you talk
1584 about the early hearing detection and intervention program
1585 that has led to unprecedented collaboration between the
1586 public and private agencies across all levels of government
1587 and what has made this model so successful?

1588 Ms. {Martin.} I think that the previous legislation--
1589 and this is carried on in the reauthorization--really

1590 outlines the role of HRSA, the role of CDC, the role of NIH,
1591 and we have just had great success in working together to
1592 improve outcomes for children. We have also partnered at the
1593 State level across departments of health, departments of
1594 education. We have accessed resources in the private sector
1595 as well, and this seems to be an issue that people have been
1596 able to come together around and really show how that has
1597 been done, so that has been an excellent outcome for us.

1598 Mrs. {Ellmers.} That is great. That is a great model
1599 for us to use into the future.

1600 And Dr. Terplan, I know this question was posed to Dr.
1601 Patrick a little earlier in the subcommittee hearing, but I
1602 would like to get your take on the type of innovative
1603 treatment models that are needed to close the gaps in
1604 research and programming for pregnant women who are addicted
1605 to opioids.

1606 Dr. {Terplan.} So I think we know a lot of the pieces
1607 that work: medication-assisted treatment for opioid-
1608 dependent women, which is methadone or buprenorphine. We
1609 need to think about there is a third medication that exists.
1610 Vivitrol is the brand name, and that has not really been
1611 studied in the United States in pregnant women, and having
1612 options is key. I think we get a little hung up one versus
1613 the other as if having a choice is an impediment rather than

1614 actually something that is great and liberating clinically
1615 and allows us to actually be able to individualize therapies.

1616 I think we also have to work on, it is not just the
1617 medication, it is also the other associated services.
1618 Pregnant women with substance use disorders are a unique
1619 population in addiction medicine and come with a whole host
1620 of needs--psychosocial needs, transportation needs, childcare
1621 needs and things like that--and we have to find ways to
1622 integrate those into treatment and find ways to reimburse for
1623 some of those things, which aren't traditional medical
1624 services.

1625 Mrs. {Ellmers.} Thank you, Dr. Terplan.

1626 And Dr. Kurtzberg, again, thank you for being here
1627 representing Duke Medicine and the Core Blood Bank. Now,
1628 with the Cord Blood Bank at Duke and the Carolina Cord Blood
1629 Bank and the licensing that the FDA put forward in 2012, can
1630 you tell us what the impact of that licensure has made on the
1631 Cord Blood Bank?

1632 Dr. {Kurtzberg.} Yes. The licensure process has been
1633 challenging, in large part because this is the first
1634 hematopoietic stem cell source that has been licensed, and it
1635 has been a learning process on both sides of the fence. But
1636 the bottom line is that licensure has increased costs of
1637 running a bank, and because of that, banks are using more of

1638 their limited resources to comply with some of these
1639 regulations as opposed to put more cord blood units in the
1640 bank and collect more units from donors. So we are hoping
1641 there could be some conversation with the FDA to help
1642 optimize the guidelines to apply to cells since most of these
1643 guidelines are really written for drugs, and to both keep the
1644 high quality of cord blood units but enable more resources to
1645 go into collection and storage.

1646 Mrs. {Ellmers.} And again, you know, I just truly
1647 appreciate you being here testifying with our subcommittee
1648 here today on H.R. 2820, and there again, can you just talk a
1649 little bit about the difference between the cord blood stem
1650 cells and the embryonic stem cells and what that means to the
1651 future of research and the role that you are playing?

1652 Dr. {Kurtzberg.} Well, cord blood cells are not
1653 embryonic cells. That is the first important thing to say.
1654 And cord blood cells can be collected without any risk to the
1655 mother or the baby, and in fact, they used to be discarded as
1656 medical waste. So we are literally recycling something that
1657 used to be thrown in the trash to save lives, so there is no
1658 real common or similarity between the two cells. Cord blood
1659 cells cannot give rise to every cell in the body. Cord blood
1660 cells are blood stem cells and progenitors, and they help
1661 reconstitute bone marrow after a transplant.

1662 Mrs. {Ellmers.} Well, thank you very much, and I yield
1663 back the remainder of my time.

1664 Mr. {Pitts.} The Chair thanks the gentlelady and now
1665 recognizes the gentlelady from California, Mrs. Capps, 5
1666 minutes for questions.

1667 Mrs. {Capps.} Thank you, Mr. Chairman, and thank you to
1668 each of our witnesses for your testimony. I appreciate this
1669 opportunity that we have to come together to talk about these
1670 important public health bills. I want to especially focus,
1671 as I did earlier in my remarks, on a program near and dear to
1672 my heart, the Early Detection Hearing and Intervention Act,
1673 to reauthorize this important program. It is one as a school
1674 nurse I have worked on for over 15 years.

1675 Each year, more than 12,000 infants are born with a
1676 hearing loss, and since the first authorization of this bill
1677 in 2000, we have seen a tremendous increase in the number of
1678 newborns who are now being screened for hearing loss. Back
1679 in 2000, only 44 percent of newborns were being screened for
1680 hearing loss and now it is over 89 percent before they leave
1681 the hospital. That is pretty astounding.

1682 We have also seen an increase in the surveillance and
1683 tracking of hearing screens and examination. The
1684 reauthorization bill I have introduced with Representative
1685 Guthrie would not only ensure this program is there for the

1686 children who need it in the future but it would also
1687 strengthen the program based on lessons we have learned over
1688 this time.

1689 Once such area where reauthorization would improve the
1690 program is the way in which it clarifies CDC's role in
1691 conducting surveillance on early hearing detection and
1692 interventions. I want to focus three questions on our
1693 audiologist on the panel, Dr. Martin. You are the
1694 Audiologist at Arkansas Children's Hospital, and I am going
1695 to ask you three questions, and if you could be fairly brief
1696 so we can hopefully get these in.

1697 What is an example of the surveillance conducted by CDC
1698 in which we have now seen gaps in addressing hearing loss?
1699 What has come out that reveals areas that we need to work on?

1700 Ms. {Martin.} So one of the things that the CDC is
1701 helps us set benchmarks of what we want to try to track among
1702 States and then compare those, and so one of the most
1703 important numbers that we have seen come out of that work has
1704 been the loss to follow-up rates, and we have made really
1705 tremendous strides in the last few years because there has
1706 been funding available to help States look at loss to follow-
1707 up. We have reduced that number by 50 percent. There are
1708 still babies who are lost to follow-up and we are continuing
1709 to work on that.

1710 Some of those lost-to-follow-up babies are not actually
1711 lost to follow-up. The EHDI program coordinators know those
1712 babies. They know where they are and their families have
1713 opted not to follow up for some reason, either financial or
1714 access.

1715 Mrs. {Capps.} Let me push that a little further just to
1716 entice you to talk a bit more about it. While we are
1717 screening babies at a higher rate and we are doing better at
1718 follow-up, there still is a challenge, as you say, so follow-
1719 up care for newborns diagnosed with a hearing loss, this is
1720 such a critical time to get that intervention. How does this
1721 bill increase the likelihood that they are going to receive
1722 the appropriate follow-up care?

1723 Ms. {Martin.} One of the things that it does is, it
1724 expands the way that we can share information among States
1725 and among providers, and it guarantees that we--ensures that
1726 we really make access for families easier to find. We have
1727 had some programs put in place that have been collaborative
1728 between American Speech and Hearing Association, the American
1729 Academy of Pediatrics that helps primary care physicians and
1730 parents find audiologists so that they can get good follow-up
1731 and be connected to services more quickly.

1732 Mrs. {Capps.} And maybe you said this sufficiently, but
1733 if you could, there is a minute and a half left to elaborate

1734 on the importance of these programs, focusing now on the
1735 parents, because many of the parents are hearing parents and
1736 so this is all totally new territory to them.

1737 Ms. {Martin.} Absolutely brand-new territory to theme.
1738 Ninety-five percent of children who are born with hearing
1739 loss are born to hearing parents, and so they have really
1740 little or no contact prior to that time with anyone who has
1741 been deaf or hard of hearing, and so the great thing about
1742 the reauthorization is, it really recognizes the role of the
1743 family. So we figure that the family is the expert about
1744 their child. It puts the family in the driver's seat to make
1745 decisions. It sets up programs and systems where we provide
1746 information to these families so that they can make informed
1747 choice, and it helps engage them in the process. So it helps
1748 them be their child's first teacher, the expert on their
1749 child, and really help them partner with the different
1750 agencies in ensuring that their desired outcome for their
1751 child is the one that they get.

1752 Mrs. {Capps.} Well, if that isn't reason enough for us
1753 all to support this legislation and the reauthorization. I
1754 appreciate your answering these questions.

1755 I do, Mr. Chairman, wish to submit for the record a
1756 letter from the American Academy of Pediatrics supporting the
1757 reauthorization of the Early Hearing Detection and

1758 Intervention Act. I will submit that for the record.

1759 And I will yield back my time.

1760 Mr. {Pitts.} Without objection, so ordered.

1761 [The information follows:]

1762 ***** COMMITTEE INSERT *****

|
1763 Mr. {Pitts.} The Chair now recognizes the gentle lady
1764 from Indiana, Mrs. Brooks, 5 minutes for questions.

1765 Mrs. {Brooks.} Thank you, Mr. Chairman, and thank you
1766 for calling this important hearing on public health issues.

1767 The Indianapolis Star--and I represent Indianapolis and
1768 to the north--a columnist by the name of Matt Tully has been
1769 doing quite a bit of series on the opioid and heroin
1770 addiction plaguing our country, and a recent article cited
1771 some startling statistics the epidemic is having on hospitals
1772 in Indiana, so I am very, very pleased that you are here.

1773 At Eskenazi Health, a hospital in downtown Indianapolis,
1774 officials say the hospital is on track to see a 22 percent
1775 increase this year in the number of newborns experiencing
1776 narcotic withdrawal. A doctor at St. Vincent's, a north side
1777 Indianapolis hospital, said between 20 and 30 percent of the
1778 babies admitted to the NICU suffer from drug dependency--20
1779 to 30 percent. And obviously, and as Matt Tully has written,
1780 wrote of a 5-day-old at Franciscan St. Health on the south
1781 side of Indianapolis--so this knows no geographic boundaries
1782 in our community or in our districts--who was receiving
1783 morphine treatments because his body was shaking so bad and
1784 he was wracked with diarrhea so bad that it was affecting his
1785 skin and it was just horrible watching the withdrawal, which

1786 actually this columnist was seeing, but I think what I
1787 learned today, Dr. Terplan, you indicated the babies can stay
1788 in the hospital for an average of 3 weeks when they are going
1789 through this type of withdrawal, and I must say that
1790 Representative Kennedy and I just recently introduced a
1791 companion bill to the Senate to Senators Donnelly and Ayotte
1792 of the Heroin and Prescription Opioid Abuse Prevention,
1793 Education and Enforcement Act, and it is a multipronged
1794 approach, and it focuses on a number of things including
1795 interagency task forces to try to get better prescribing
1796 practices specifically, focusing on prescription drug
1797 monitoring programs, but I have to tell you one thing. I am
1798 a former U.S. Attorney. I have been involved in the criminal
1799 justice system most of my career, and I appreciate that
1800 punitive approaches aren't appropriate, as you say. However,
1801 many of these women are in the criminal justice system or
1802 find themselves in the criminal justice system, and I am
1803 curious what you think our approaches should be with those
1804 who are in the criminal justice system. They are in there,
1805 in all likelihood, for other crimes they are committing
1806 during this time or maybe for being arrested for dealing or
1807 for possession, and so what approach do you think should work
1808 specifically for our children in our jails and our prisons
1809 with respect--because there are a lot of them, and so this is

1810 the hospitals, but I think if we talk to our sheriffs around
1811 the country, they are experiencing these issues too. What is
1812 the best approach that we should have for the so many
1813 pregnant women in our jails and prisons?

1814 Dr. {Terplan.} That is a great question, and our jails
1815 and prisons are the largest behavioral healthcare systems in
1816 the United States, unfortunately, and there are--I mean, I
1817 have spoken of barriers to access to medication-assisted
1818 treatment amongst pregnant women in general. Those barriers
1819 are far higher in prisons. So some of it has to do with how
1820 prisons are financed and the cost of medications, even though
1821 cheap, methadone across a huge population of prisoners who
1822 need it is a costly thing. So I think what we really need is
1823 access to prisoners and people in detention need access to
1824 behavioral healthcare in general and for opioid use disorders
1825 to medication-assisted treatment in particular.

1826 In addition, we need better linkages from release into
1827 the community. So right now in the State of Maryland, only
1828 individuals who are arrested and are on methadone receive
1829 methadone in the jail. People who have an opioid use
1830 disorder come to jail and they withdraw. We know withdrawal
1831 for pregnant women is dangerous to the fetus, and we need to
1832 find ways to provide medication and other counseling services
1833 and then linkage upon release into the community.

1834 Mrs. {Brooks.} Dr. Patrick, do you have any thoughts on
1835 our jail and prison issues with pregnant women?

1836 Dr. {Patrick.} I would just echo the access to
1837 medication-assisted treatment when it is needed for pregnant
1838 women. It is really the standard of care and improves infant
1839 outcomes as well.

1840 Mrs. {Brooks.} Have you done any work with our drug
1841 treatment courts? Because a lot of times those judges who
1842 are presiding in the drug treatment courts see the same
1843 women. They may or may not be in jail or prisons, people who
1844 are in the drug treatment courts, and I know that we have
1845 struggled with learning whether or not--some believe in
1846 abstinence as the best method but certainly have you done any
1847 work in following drug treatment courts or advising drug
1848 treatment courts?

1849 Dr. {Terplan.} A little bit in Baltimore City, and
1850 mostly around educating, not just the staff but especially
1851 the judges and also the judges who aren't drug court but
1852 might be subbing for somebody else around the importance of
1853 the evidence base for treatment for substance use disorders.

1854 Mrs. {Brooks.} Thank you. I yield back.

1855 Mr. {Pitts.} The Chair thanks the gentlelady. We are
1856 about to see another vote series, so we will try to move this
1857 along.

1858 The Chair recognizes Ms. Matsui of California 5 minutes
1859 for questions.

1860 Ms. {Matsui.} Thank you, Mr. Chairman, and thank you to
1861 the witnesses for being here today and a special thank you to
1862 Dr. Chell and Dr. Kurtzberg for testifying today about the
1863 importance of the National Marrow Donor Program and cord
1864 blood banking.

1865 Every 4 minutes, someone is diagnosed with blood cancer
1866 or another blood disorder. Often, the only cure for these
1867 fatal diseases is a bone marrow or a cord blood transplant.
1868 Congress has recognized the national need for bone marrow
1869 transplant since 1987, and 10 years ago formally added the
1870 National Cord Blood Inventory to the C.W. Bill Young Cell
1871 Transplantation Program.

1872 A big part of the Stem Cell Therapeutic and Research Act
1873 is the national registry known as Be The Match, which matches
1874 as many patients as possible to bone marrow or cord blood
1875 donations that they need, and during the last 30 years, the
1876 registry has grown to include over 12 million adult volunteer
1877 donors and over 200,000 cord blood units donated by moms
1878 after the birth of their children.

1879 The growth of the registry over the last decade is
1880 promising but we know we must continue our efforts to
1881 encourage donors.

1882 Dr. Chell, as you mention in your testimony, some of the
1883 roles that the National Marrow Donor Program plays in
1884 addition to running the national registry. Can you elaborate
1885 a bit on all the work that Be The Match and NMDP does?

1886 Dr. {Chell.} So we are responsible for a network of
1887 centers all over the world that help recruit donors and
1888 recruit moms to donate their cord blood, to create that
1889 inventory, and yet that inventory, despite having 25 million
1890 donors worldwide and over 600,000 cord blood units, is really
1891 only meeting less than half the need in the United States and
1892 only 5 percent of the need worldwide, and that is because the
1893 population of the United States as well as the world becomes
1894 more diverse, and so that diversity requires us to continue
1895 to add more donors to the registry.

1896 But we also advocate for patients from the time of
1897 diagnosis through survivorship through multiple languages so
1898 they can get the education and the information they need.
1899 Through the SCTOD portion of the contract, we create the
1900 infrastructure and the reporting mechanism so that we can
1901 collect data on every single transplant done in the United
1902 States and 60 percent of the transplants done worldwide so
1903 that researchers from all over the world can enter that
1904 database and help us define new ways of using these therapies
1905 and rapidly turn those discoveries into use throughout the

1906 world. We also work with a cord blood coordinating center to
1907 manage the relationships with the cord blood banks as well as
1908 multiple centers that recruit adult donors.

1909 Ms. {Matsui.} Okay. Thank you.

1910 Dr. Kurtzberg, as you know, the goals in creating the
1911 NCBI were to create a network of high-quality, diverse cord
1912 blood units and to make cord blood units available for
1913 research. Can you elaborate on the work that you do to meet
1914 these goals?

1915 Dr. {Kurtzberg.} Sure. I have run a public cord blood
1916 bank named the Carolinas Cord Blood Bank at Duke and work
1917 every day to collect cord blood units from moms who donate
1918 their baby's cord blood after a healthy pregnancy and
1919 delivery. We also work to develop new models to increase the
1920 opportunity for cord blood donation from moms of minority
1921 backgrounds. We have opened a program recently at Grady
1922 Hospital to do that. We are looking at ways to decrease cost
1923 of cord blood donation and banking, which is always an issue
1924 in the field, and we are looking at ways to apply cord blood
1925 transplantation to new diagnoses.

1926 Ms. {Matsui.} Okay. Thank you.

1927 Dr. Chell, you mentioned that the number of transplants
1928 for racial and ethnic minority patients has increased
1929 substantially from the year 2000 to today, and I just want to

1930 follow up on what my colleague, Mr. Butterfield, was talking
1931 about because he mentioned the African American population.
1932 I know that the Asian American population is feeling a great
1933 need, and you see the individual-type activities more forward
1934 trying to find a match. What efforts can Be The Match make
1935 to continue to increase the diversity of the registry to
1936 ensure that minority patients can find matches, understanding
1937 that this country itself is such a diverse country that we
1938 need to figure out a system. There is a lot going on, but
1939 what do you think you can do to help increase the diversity
1940 of this?

1941 Dr. {Chell.} I think it is important also to raise
1942 awareness. If we were to take a Caucasian patient as well as
1943 an Asian American patient, if they are in the right
1944 healthcare system and get access to a search, the likelihood
1945 to move on to transplant is equal. The challenge is, many
1946 Asian Americans don't have access to that first initial step
1947 of doing a search, being in a healthcare system to do that
1948 search. But with that, we need to across all ethnic groups
1949 significantly increase the diversity of the registries. For
1950 Asian Americans, we also benefit from having partnerships
1951 with China, Japan, Korea, Hong Kong and other countries to
1952 allow us to increase the diversity. For African Americans,
1953 we don't have partners in African companies that help us with

1954 diversity.

1955 Ms. {Matsui.} Well, I know my time is up, so thank you
1956 very much.

1957 Mr. {Pitts.} The Chair thanks the gentlelady.

1958 We have less than 10 minutes left. We are going to try
1959 to conclude the hearing.

1960 The Chair recognizes Mr. Bilirakis 5 minutes for
1961 questions.

1962 Mr. {Bilirakis.} Thank you, Mr. Chairman. I appreciate
1963 you very much holding this very important hearing on some
1964 really good bills.

1965 Dr. Martin, in the interests of time, I really have a
1966 lot of questions but we will start with the hearing loss
1967 screening. You stated that the number of individuals who
1968 have lacked follow-up care from their initial screening has
1969 been reduced by half over the past 10 years. H.R. 1344
1970 states that one purpose for which States can use funds is to
1971 develop models that will ensure babies identified as needing
1972 follow-up care receive those services.

1973 My first question is, what are the challenges for a
1974 child who does not receive follow-up care with an early
1975 intervention provider and how is it harmful to the child?

1976 Ms. {Martin.} There is this critical period for
1977 children to acquire communication that really, birth to 3 is

1978 the most critical time period, and so we have seen rapid
1979 improvements in the outcomes for children when they enter the
1980 educational system and their long-term outcomes if they have
1981 been identified early within the first year of life as
1982 compared to children who are identified after that. So kids
1983 who are lost to follow-up fail their newborn screen and then
1984 show up at a pediatrician's office at 3 or 4 or fail a
1985 kindergarten screening, they are already significantly behind
1986 their typically hearing peers and are really going to have a
1987 difficult, if not impossible, time catching up with a
1988 language linguistics sort of base and from a psychosocial
1989 base as well.

1990 Mr. {Bilirakis.} Thank you.

1991 A question for Dr. Patrick and Dr. Terplan. Counties
1992 within my district were found to be suffering from some of
1993 the highest numbers of babies born with neonatal abstinence
1994 syndrome. What practices have been successful at addressing
1995 this issue in other regions? How would this legislation help
1996 those at-risk populations?

1997 Dr. {Patrick.} Well, as far as treating infants with
1998 neonatal abstinence syndrome, the practices that have been
1999 most effective have really been around standardizing care and
2000 working together through networks of hospitals and neonatal
2001 intensive care units. That has really been effective in

2002 making sure that we are treating these infants the same
2003 collectively. I mean, the bill brings together data and
2004 evidence. It also brings together a multidisciplinary group
2005 of people who think about how we attack every part of the
2006 problem including before pregnancy, in pregnancy and in the
2007 treatment period for the infant. So I think we will see a
2008 positive effect in communities like yours and mine as well.

2009 Mr. {Bilirakis.} Thank you, and Mr. Chairman, I will
2010 submit the questions for the record because I want everyone
2011 to have an opportunity. Thank you.

2012 Mr. {Pitts.} The Chair thanks the gentleman and now
2013 recognizes Ms. Castor 5 minutes for questions.

2014 Ms. {Castor.} Thank you, and I thank Mr. Bilirakis as
2015 well, and I want to thank our witnesses for being here today
2016 to testify on these important public health bills. I want to
2017 thank Representatives Clark and Stivers for their work on
2018 H.R. 1462 especially, Protecting Our Infants Act of 2015. I
2019 am a cosponsor of the bill, and I think it is clear that we
2020 need additional efforts and resources to address the
2021 challenges of neonatal abstinence syndrome, and the bill
2022 before us does that in many critical ways. Mr. Bilirakis and
2023 I share the counties, and I just want to get this on the
2024 record. In 2007, our counties had 67 reported cases; 2008,
2025 108; and by just 2011, about 280 reported cases. So we have

2026 got to do more.

2027 These are the questions I would like you to answer for
2028 the record. According to the GAO report, there are a number
2029 of existing research gaps relating to best practices in the
2030 screening, diagnosis and treatment of NAS. You have
2031 discussed them, and if you would also discuss them in more
2032 detail in written testimony.

2033 Dr. Patrick, what do we know about the best practices
2034 and screening and diagnosis and treatment, and what are the
2035 most pressing research gaps? How does the Protecting Our
2036 Infants Act help to address the gaps? And then if you could
2037 also share in written response, are we underinvesting in
2038 research related to NAS, given the significant public health
2039 burden that it presents?

2040 Thank you all again for being here today, and I look
2041 forward to your written response.

2042 Dr. {Patrick.} Well, your first question was about best
2043 practices, and I think it begins with identifying the
2044 infants, so it begins with that transition from pregnancy to
2045 the infant being cared for. We have to know the infant has
2046 been exposed, and so screening, universal screening through
2047 both standardized verbal screenings as well as diagnostic
2048 screenings, using the same scoring system to identify and be
2049 consistent with that. Treatment--it is clear from the

2050 evidence that using an opioid like methadone or morphine is
2051 the most effective though we see some hospitals using other
2052 drugs like phenobarbital that may actually have some long-
2053 term harm. And--

2054 Ms. {Castor.} I am going to cut you short so Mr.
2055 Collins can do it, but I do want to express my gratitude to
2056 All Children's Hospital and St. Joseph's Children's Hospital
2057 and all of the medical professionals across the country who
2058 are tackling this issue, and I yield back the balance of my
2059 time.

2060 Mr. {Pitts.} The Chair thanks the gentlelady, and you
2061 can respond more fully in writing to that question. We will
2062 provide the questions to you in writing. Thank you.

2063 Dr. {Patrick.} Thank you.

2064 Mr. {Pitts.} Mr. Collins, you are recognized. We have
2065 2 minutes left on the Floor.

2066 Mr. {Collins.} Well, I will be quick. Luckily they
2067 always hold votes over, and also if you could, I will direct
2068 this to Dr. Patrick perhaps answer in more detail.

2069 I am one of the cosponsors on H.R. 1462. Your testimony
2070 here has done a great job in showing the importance of
2071 reauthorizing these. What I would like you to perhaps
2072 respond in writing is, some of the differences between NAS
2073 and fetal alcohol syndrome. We know about those. If you

2074 could maybe compare and contrast what is going on in those
2075 two fields, I think that would be helpful to truly show the
2076 importance on the opioid abuse, which we have had several
2077 Oversight hearings on, and maybe simply--also, could you just
2078 confirm verbally now, is a child born with NAS impaired for
2079 life or are the treatments in fact moving them into what
2080 could be a normal life?

2081 Dr. {Patrick.} There is no evidence that the infants
2082 are impaired for life. There has been some subtle evidence
2083 of some behavioral issues. It is definitely an area that
2084 needs to be more well studied but I think it would be very
2085 unfair to say that the infant is affected significantly for
2086 life.

2087 Mr. {Collins.} Well, and that is what I would hope you
2088 were saying so the treatments in fact are life-changing, and
2089 that is what we are all about here.

2090 So Mr. Chairman, I yield back, and I guess we will go
2091 down and vote.

2092 Mr. {Pitts.} The Chair thanks the gentleman.

2093 We will provide questions in writing from those of us
2094 who were here and those who were in other hearings. We would
2095 ask that you please respond promptly.

2096 We thank you very much for your patience, for all the
2097 interruptions, really a very interesting, very important

2098 hearing.

2099 I have a unanimous consent request. I would like to
2100 submit for the record statements of Doris Matsui, Gene Green
2101 and the American Academy of Pediatrics. Without objection,
2102 so ordered.

2103 [The information follows:]

2104 ***** COMMITTEE INSERT *****

|
2105 Mr. {Pitts.} I remind Members they have 10 business
2106 days to submit questions for the record. I ask the witnesses
2107 to respond promptly. Members should submit their questions
2108 by the close of business Thursday, July 9th.

2109 Thank you very much for this very important testimony
2110 today. Without objection, this hearing is adjourned.

2111 [Whereupon, at 12:23 p.m., the subcommittee was
2112 adjourned.]