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COMMONWEALTH OF PENNSYLVANIA
HOUSE OF REPRESENTATIVES
HOUSE HEALTH COMMITTEE
* * * * *

IN RE: LYME DISEASE AND TICK-BORNE ILLNESSES

PUBLIC HEARING
* * * * *

BEFORE: KATHY L. RAPP Chairman
Marcia M. Hahn, Rosemary M. Brown, Whitney
Metzler, David H. Zimmerman, Brad Roae, Mary
Jo Daley, Pamela A. DeLissio, Paul Schemel,
Jerry Knowles, Dawn W. Keefer, Michael H.
Schlossberg, Johnathan D. Hershey, Wendy Ullman
Members

HEARING: Monday, September 9, 2019
Commencing at 10:00 a.m.

LOCATION: East Stroudsburg University
562 Independence Road
East Stroudsburg, PA 18301

WITNESSES: Nicole Chinnici, MS; Commissioner Matthew
Osterberg; Michele Cassetori; Harriet Loizeaux, MSN,
FNP-BC; Jeffrey Jahre, M.D.; Dr. Donald Eggen

Reporter: Karissa Kross

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P R O C E E D I N G S

CHAIRMAN: Thank you, ladies and gentlemen, for attending today to hear about this very important topic that affects many, many of our citizens in the State of Pennsylvania. I'd like to say a special thank you to the University for having us here, for all the work that they have done in the research lab. And a special thank you to Representative Brown, for helping us arrange this hearing here today.

My name is State Representative Kathy Rapp. I hail from Warren County. I represent the 65th Legislative District. It's the fourth largest district geographically in the state. I represent all of Warren County, half of Forest, and parts of Crawford County.

So again, welcome. I don't have - Representative Rosemary Brown, if you want to say a few remarks, and then we'll have the rest of the members. And to my right is my staff person, Executive Director Whitney Metzler, from Harrisburg. So thank you, Whitney.

It's the staff that usually does a lot of the work here, so that - putting the agenda and the testifiers together. So I always like to thank my staff for all the hard work that they do. And Nicole Sidle, who was my research analyst and who just became one of our new Executive Directors for the

1 Professional Licensure Committee in Harrisburg.

2 So congratulations, Nicole.

3 So Rosemary?

4 REPRESENTATIVE BROWN: Thank you, Chairman Rapp.

5 Again, thank you very much for coming into Monroe County
6 and bringing the Health Committee members here. I know you
7 traveled far. I know there's many members here on this
8 panel that traveled far to be here.

9 So I thank you all for your attention to the Lyme
10 disease and the tick-borne illness, and being open to the
11 information that's going to come forth today, and hopefully
12 offer us some additional ideas on how we may be able to
13 better support this issue that we're having in
14 Pennsylvania.

15 And you will hear today that - and many of you
16 know that are here already that we have a number one
17 ranking for Lyme disease in the country of reported cases.
18 So we are at a significant risk. Our people are very much
19 concerned about this. We are concerned about this. So
20 that's why the focus is here. So again, that's really a
21 thank you for the House Health Committee for being here and
22 all the members.

23 We have done a lot of work. Right now we have
24 major numbers on here supporting. It's \$3,000,000 that's
25 been appropriated to the Department of Health for Lyme

1 disease and tick-borne illnesses. \$500,000 of that is
2 something that I started back about three years ago when my
3 son had a tick on him. And I had pulled the tick off of
4 him and brought it to the tick lab here at East Stroudsburg
5 University.

6 And my background is a little bit of in the
7 pharmaceutical world, so in antibiotics. So I have a
8 little bit of an idea of some of the pathogens and some of
9 the medical side of things. So they said to me, what would
10 you like tested? And I said, well, definitely Lyme
11 disease. Okay. And there was a cost for a Lyme disease
12 test. And then additional pathogens were an additional
13 cost.

14 And so it wasn't cheap, but I understood the
15 value and the importance of having that test done to my
16 son's health. But I did walk away that day as I left the
17 tick saying, boy, I don't want to see anybody have to walk
18 away and - because this is a tool. This is a tool for
19 health, for the patient, and for their doctor. And I
20 couldn't help but think how much we don't know about what's
21 inside these ticks. So the epidemiology or what we call
22 the pathogens is the really importance piece in there.

23 And so I came up with the idea of possibly
24 subsidizing the tick testing. It started with a grant,
25 with \$500,000 that the members supported. And then we went

1 further to have that \$500,000 included this year in the
2 Department of Health budget. And many of the members are
3 very excited, have been utilizing the paperwork here from
4 East Stroudsburg. And we'll hear more testimony. But I
5 think that's a really important, piece of the information
6 that everyone should be aware of, that the legislature and
7 the State has supported, it's worked very hard on.

8 And you'll see some other pieces of legislation
9 that I have and I'll put those out later on. But I just
10 want to say thank you for being here. And I hope that we
11 garner some additional ways that we can assist in this
12 disease.

13 Thank you very much, Chairman.

14 CHAIRMAN: Thank you, Representative Brown. And
15 thank you for all your hard work on this lyme issue. So we
16 will move down to -.

17 REPRESENTATIVE KEEFER: I'm Representative Dawn
18 Keefer. I'm a member of the Health Committee and I'm from
19 York County and part of Cumberland County. And I represent
20 the 92nd State Legislative District.

21 REPRESENTATIVE HAHN: I'm Marcia Hahn, from the
22 138th District in Northampton County. Like Rosemary said,
23 a lot of constituents come in. We had the pamphlets from
24 ESU in the office, so people have them. And it's a great
25 tool for us to have and to use. So thank you.

1 CHAIRMAN: Representative Zimmerman, would you
2 like to -?

3 REPRESENTATIVE ZIMMERMAN: Yeah. I'm
4 Representative Zimmerman from the Northeast part of
5 Lancaster County. It's kind of the New Holland, Ephrata
6 area, and also part of the northern county.

7 REPRESENTATIVE ROAE: Good morning. I'm
8 Representative Brad Roae. I'm a member of the Health
9 Committee and I'm also on the PASSHE Board of Governors.
10 So I took an opportunity to drive around the campus. Very
11 beautiful campus. I really liked what I saw.

12 REPRESENTATIVE DALEY: Good morning. I'm
13 Representative Mary Jo Daley and I am a member of the House
14 Health Committee. And I represent an area in Montgomery
15 County right outside of Philadelphia. Nice to be here.

16 REPRESENTATIVE DELISSIO: Good morning. Pam
17 DeLissio. I represent the 194th parts of Philadelphia,
18 Montgomery Counties. And I've been on the Health Committee
19 for eight and a half years.

20 REPRESENTATIVE SCHEMEL: Good morning. I'm Paul
21 Schemel. I represent a portion of Franklin County, which
22 is down in the south central portion of the state, right
23 against the Maryland line.

24 REPRESENTATIVE KNOWLES: Good morning. I'm
25 Representative Jerry Knowles, 124th District. I represent

1 a portion of the Berks, Schuylkill and Carbon Counties.

2 REPRESENTATIVE SCHLOSSBERG: Good morning,
3 everyone. Mike Schlossberg, 132nd District, City of
4 Allentown and South Whitehall Townships in Lehigh County.

5 CHAIRMAN: Okay. Thank you, members. Now,
6 formally I will ask my Executive Director to take the
7 rollcall of the hearing.

8 MS. METZLER: Representative Rapp?

9 CHAIRMAN: Here.

10 MS. METZLER: Bernstine? Borowicz? Cox?
11 Gaydos? Hahn?

12 REPRESENTATIVE HAHN: Here.

13 MS. METZLER: Hershey? Kaufer? Keefer?

14 REPRESENTATIVE KEEFER: Here.

15 MS. METZLER: Klunk? Knowles?

16 REPRESENTATIVE KNOWLES: Here.

17 MS. METZLER: Owlett? Roae?

18 REPRESENTATIVE ROAE: Here.

19 MS. METZLER: Schemel?

20 REPRESENTATIVE SCHEMEL: Here.

21 MS. METZLER: Zimmerman?

22 REPRESENTATIVE ZIMMERMAN: Here.

23 MS. METZLER: Chairman Frankel? Daley?

24 REPRESENTATIVE DALEY: Present.

25 MS. METZLER: Dawkins? DeLissio?

1 REPRESENTATIVE DELISSIO: Here.

2 MS. METZLER: Fiedler? Gainey? Innamorato?
3 Kinsey? Schlossberg?

4 REPRESENTATIVE SCHLOSSBERG: Here.

5 MS. METZLER: Ullman?

6 CHAIRMAN: Thank you. Thank you, Whitney. And
7 if you have a copy of the agenda - and I think there are
8 some extra ones here on the front table. Please feel free
9 to walk up and take one.

10 The agenda today, if you have the agenda in front
11 of you, many times when we have hearings, we will ask
12 questions after each testifier. But today, when we're
13 looking at the time frame, I am going to ask for a flow of
14 all of the testifiers to speak. And then we will have
15 questions and comments from the legislators at the end of
16 the time.

17 So at this point in time, I would ask that the
18 Laboratory Director of the University Innovation Center,
19 Nicole Chinnici, please present to us and welcome. And we
20 are very much looking forward to everyone's testify -
21 testimony today. So thank you and you may proceed.

22 MS. CHINNICI: Good morning. I'm Nicole
23 Chinnici, Director of the PA Tick Research Lab of East
24 Stroudsburg University, just downstairs. And thank you
25 guys for all making the trip out here today to talk about

1 ticks and tick-borne diseases.

2 Just a little background. You may have already
3 heard this a little bit today, but Lyme disease is the most
4 common infectious disease that we have in the United
5 States. It's a rapidly growing health concern and it needs
6 immediate attention. The topic that you're addressing
7 today is very important. It's important for our
8 Commonwealth. As Pennsylvania, since 2011 - since 2011,
9 we've been the leading state for tick-borne disease and
10 Lyme disease specifically.

11 So since 2005 - a little background of the tick
12 research lab downstairs. Since 2005, we've been testing
13 ticks for a fee from the public. As Representative
14 Rosemary Brown talked about, she brought a tick in from her
15 son that we tested. And it was just in 2018 that we
16 received a half a million dollars from the Health and Human
17 Services Committee to start the free tick testing.

18 We started April 1 of 2019 testing ticks for free
19 for Pennsylvania residents. Since we started this grant
20 just five months ago, we've tested 6,700 ticks from
21 Pennsylvania. We've collected a lot of important data from
22 these ticks. And I'm going to present a lot of that data
23 to you today.

24 All of our information we track live on our
25 website. So if at any point in time if you want to get

1 this information offline, you can go and it's ticklab.org.
2 We have it live for the public. We have it live for the
3 government. Anybody who would like to get our data, it's
4 all there for you.

5 This service provides important information.
6 It's giving the physicians important information on the
7 tick bite. It's a diagnostic tool that they can use to
8 help diagnose these symptoms before they occur. So sending
9 the tick in within - we are very proud, within 36 hours of
10 us receiving their tick, we have a report back to you.
11 We're sending it via e-mail and we're sending a text
12 message.

13 So physicians can then use that information to
14 guide that treatment and even to look further into what
15 human diagnostic tests that there are, because it's not
16 just Lyme disease in our state. And I'll give you
17 information on that as well.

18 So now I would like to take the time just to talk
19 a little bit about our data. And this is the most
20 important thing. Everyone in your little folder, I've
21 given you a little summary. I'm going to present it in the
22 back for the public of all of the data that we've
23 collected. So first I want to start with the tick activity
24 in Pennsylvania. So we collected tick activity across the
25 state, to really see what ticks were getting most common.

1 And no surprise, the Blacklegged deer tick is the
2 most common tick that we had submitted for testing with
3 68.4 percent. Next was the American dog tick. We had 27
4 percent of the ticks submitted American dog ticks. And
5 then four percent of them were Lone Star ticks. So Lone
6 Star ticks are starting to move in the northern states.
7 They started in the southern states and have started to
8 move north, especially even as far north as Maine. So
9 we're keeping track of that tick because there's a lot of
10 diseases associated with it.

11 In these ticks we have an average infection rate
12 of 51.8 percent. So that means over half of the ticks that
13 we're testing are infected with a disease. So now we're
14 looking at whether or not we're exposed to - it's not even
15 just Lyme disease. It's any tick-borne disease.

16 The highest infection rate was identified in
17 North central PA, at 59 percent of ticks were infected.
18 The lowest was in Northwestern PA, but not too much lower,
19 at 47.7 percent of those ticks.

20 We're also able to track the activity of ticks.
21 And why is this important? If we're tracking the activity
22 of ticks, we can give out public health alerts on which
23 ticks that they're looking for. Each tick has different
24 colors on them. They have different identification.

25 They're also associated with different diseases.

1 So giving this information to the public helps them give
2 another layer for protection. So we're tracking this. And
3 you can see here on the back, there's a little graph there
4 showing the activity. And it even shows when the adult
5 Blacklegged tick and the nymph tick change in their
6 lifecycle -.

7 So the most common disease that we identified was
8 Lyme disease, which is no surprise. And we split the
9 infection rates between the adult ticks at 46.4 percent and
10 tracking them within the nymph ticks at 30.7 percent.

11 So you're probably asking why did we look at the
12 different life stages to see the infection rate. It's
13 really important when you're coming to diagnose Lyme
14 disease and other tick-borne diseases, it's suspected that
15 the tick has to be attached for 18 to 24 hours in order to
16 transmit a disease.

17 So the nymph tick is the size of a poppy seed.
18 It's very tiny. The average engorgement on the nymph tick
19 was 26 hours. So that's over 24 hours. So over 24 hours
20 was the average amount of time that this tick was engorged
21 on our residents in Pennsylvania, and 30 percent of them
22 are infected.

23 On the adult ticks, their average engorgement
24 rate was 22 hours and their infection rate was 46 percent.
25 So almost 50 percent of the time these ticks will be

1 carrying a disease like Lyme disease.

2 In dog ticks and Lone Star ticks, the most common
3 tick-borne disease that we saw was Rickettsial species.
4 And Rickettsial species are potential agents of Rocky
5 Mountain spotted fever. And I know it's named Rocky
6 Mountain spotted fever, so you're thinking it's Rocky
7 Mountains, but we have the highest rates of Rocky Mountain
8 spotted fever on the East Coast of the United States. We
9 had 11 percent of our ticks tested positive for these
10 diseases.

11 So really understanding the prevalence of these
12 diseases is important for physicians when diagnosing
13 tick-borne diseases. They should understand what diseases
14 are in their county and that's the data that we're
15 collecting.

16 We have adopted the county level. And like I
17 mentioned earlier, we tested ticks from every county of
18 Pennsylvania. And we're almost at a hundred ticks per
19 county. Sometimes we get a lot more of them, at least a
20 hundred. The symptoms among diseases may present the same,
21 but without proper and accurate diagnostics, it's going to
22 be hard to identify what it is. And as you're seeing from
23 our charts, it's not just Lyme disease. We have high rates
24 of Anaplasmosis at 19 percent. We have Powassan Virus at
25 three percent, Babesiosis at 2.7 percent.

1 So what does this mean? We have co-infection
2 rates of 12.6 percent. So that's saying that our ticks,
3 12.6 percent of them are carrying more than one disease.
4 So if you're exposed to more than one disease, it can
5 become very complicated in getting diagnosed and even
6 treated. Especially if these diseases are different in -
7 if they're bacterial, viral, or protozoan, because you
8 can't treat a virus or protozoan infection with antibiotic.

9 So this becomes more complicated for patients for
10 recovery and for treatment. And even further for
11 physicians to diagnose them because they keep having
12 symptoms, they're sicker, and they're typically sick for
13 longer.

14 So through this program we're also tracking a lot
15 of important information on exposure, so where people are
16 being exposed to in the environment.

17 And why is this important? This all leads to
18 educational information for our residents. A lot of people
19 really think going to State Parks and hiking is probably
20 where they're going to get their ticks. But when we
21 collected our data, just through the survey, we found over
22 50 percent of the people submitting ticks were submitting
23 ticks from residential areas.

24 So that means people are being exposed to them in
25 their own back yard. And they're not usually aware of

1 this. They don't really understand that just mowing their
2 lawn is where your greatest risk for a tick bite is going
3 to occur.

4 So based on all of the research that we've
5 collected - oh, sorry. I missed one thing. Ages two to
6 ten - my apologies - are at greatest risk. So we collected
7 age groups over what activities they're doing. And ages
8 two to ten were at highest risk. And what activity they
9 were doing, why they were outside was playing in the yard.
10 So we have children ages two to ten playing in the back
11 yard at greatest risk for ticks and tick-borne diseases.

12 So with that now, the recommendations and the
13 data that we've collected, I summarized some things that we
14 can do moving forward with some of the funding.

15 The first one is to continue funding this tick
16 testing program. Why? It's giving important information
17 to our physicians and our residents, as well as information
18 to our public Health Departments on what's inside of our
19 ticks. We're tracking it because it will change, and it's
20 changing dramatically each year. And so we're tracking
21 that.

22 The second would be to start to bridge that gap
23 and develop some healthcare provider program. So training
24 our physicians, our nurses, our health practitioners,
25 anybody who's certified in Pennsylvania, so that they

1 understand what is Lyme disease, what the symptoms are,
2 what they should be looking for, and that it's not just
3 Lyme disease and that there are coinfections; how they
4 should get a human diagnostic testing. We had a meeting
5 request diagnostics last week and we've come to the
6 conclusion how hard it is to pinpoint that 24-hour time
7 when you should actually get that testing done. So there's
8 a lot of information our physicians don't know.

9 Develop some educational and funding strategies
10 for schools in high-risk areas. So we're identifying these
11 high-risk counties, what the infections are. So what
12 strategies can we have to protect our children from two to
13 ten? Sometimes if a tick's missed by their parent, the
14 school nurse or the teacher might find it. So they should
15 be aware of what they should do and how they can protect
16 their child.

17 And begin funding some integrated pest management
18 strategies. So what I mean by that is looking at how we
19 can treat the environment or the animals in the environment
20 to maybe reduce those risks. And I'm thinking small
21 studies, local studies.

22 There's some studies going on at University of
23 Maryland and - some research down there in one county
24 looking at maybe treating the white-tail deer population to
25 decrease our ticks. Or potentially vaccinating our mice,

1 so that would help to decrease the Lyme disease that we
2 have in our mice.

3 So there's a lot of different things that we do,
4 but we're just not a hundred percent sure on what would
5 work for our state, because each state has different
6 geography. We have different wildlife populations and
7 different ecology associated with them. So we would have
8 to pick a strategy that would work best for our state.

9 So in conclusion, based off my expertise and
10 everything that I've done with Pennsylvania and across the
11 state, going through education, I think that these are some
12 really good strategies really help reducing the numbers
13 that we have. This tick testing program has really given a
14 benefit for our residents to really understand what they've
15 been exposed to. And give them a piece of tool to advocate
16 for themselves.

17 But we don't want to see our individuals showing
18 up to a physician when their first response is their
19 doctor, and their doctor is who they trust. And they go
20 there with a tick bite and the doctor may pull it off and
21 throw it in the trash can, when that tick bite can really
22 give us important information from the early diagnostics
23 and exposure, to even collecting information about our
24 state and infections that are there.

25 So I want to thank you for your time. I'm going

1 to end my testimony with that and questions at the end.

2 CHAIRMAN: Yes. Thank you, Nicole. That was
3 very informative and I'm sure that there will be members
4 who possibly will have questions for you at the end.

5 So our next testifier is Matthew Osterberg, who
6 is Pike County Commissioner. Commissioner, you may proceed
7 when you are ready.

8 COMMISSIONER OSTERBERG: Thank you. First, let
9 me thank Rosemary Brown and the Committee for allowing me
10 to testify and talk to you about the Pike County Tick Borne
11 Disease Task Force. And welcome to Northeastern
12 Pennsylvania.

13 Although we're in Monroe County, I hail from a
14 little bit further north in Pike. My county has
15 experienced a significant increase in confirmed cases of
16 Lyme disease in recent years, from 13 in 2012 to 114 in
17 2016.

18 To proactively address this issue, in July of
19 2013, some concerned citizens, spearheaded by retired
20 educator Mikki Weiss, formed the Pike County Lyme Disease
21 Task Force, now known as the Tick Borne Disease Task Force.
22 The original intent was to bring awareness to local
23 residents on the complexities of the issue and ways in
24 which more effective medical treatment can be obtained.

25 From its onset, the Task Force was intended to be

1 a model initiative that could be replicated in other
2 communities facing our same challenges. And we continue to
3 share our story and educational resources so they might
4 assist other counties and communities seeking to build
5 their own responses to this very serious health issue.

6 In your packet today you'll see several examples
7 of outreach pieces that we have found to be effective in
8 Pike County. I'll talk more specifically about a few of
9 these later in my presentation.

10 Regarding the formation of the Task Force as
11 first staffed with the help of Mikki Weiss and founding
12 volunteers, the Task Force identified a comprehensive
13 network of community groups, business people, and
14 professionals, educational institutions, and targeted
15 segments of the local population to activate and engage in
16 productive dialogue.

17 The idea was to share information between the
18 Task Force and these groups so that they would become
19 articulate on the issue of tick-borne diseases and would be
20 ready to implement practices or recommendations as they
21 became available from Pennsylvania Department of Health
22 Lyme Disease Task Force.

23 Since its inception, the Task Force has worked to
24 increase the number of tick-borne illnesses to public
25 awareness about the prevalence and dangers of tick-borne

1 diseases, as well as proactive steps that people can take
2 to protect themselves from infection while enjoying the
3 outdoors.

4 In June of 2014, the Task Force held an
5 educational seminar on tick-borne diseases for our county's
6 Alliance of Community Associations. An article about the
7 seminar in the Pike County Dispatch newspaper prompted
8 microbiologist local resident Dr. Robert Ollar to contact
9 the Task Force to offer his expertise. Dr. Ollar became
10 involved with the Task Force and presented an overview of
11 tick-borne diseases to the Commissioners. From there, we
12 recognized the seriousness of this crisis and embraced it
13 as an important county issue.

14 In May of 2015, the County Commissioners passed a
15 resolution that appointed the Pike County Tick Borne
16 Disease Task Force as a volunteer committee of the county
17 to provide up-to-date information on prevention, diagnosis
18 and treatment. The Task Force is currently administered by
19 our county Planning Office, under the direction of Michael
20 Mrozinski and community planner Brian Snyder.

21 Throughout 2016, the Task Force focused on
22 outreach presentations forming collaborative partnerships.
23 And some highlights included creation of a Task Force
24 landing page on the county web page, where educational
25 resources and upcoming events can be shared, a public

1 service announcement called What You Don't Know About Lyme
2 Disease Can Kill You. Various meetings and workshops with
3 community groups, such as the Pike County Council of
4 Wellness, the Milford Riding Club, the Wayne Memorial
5 Hospital State Health Insurance Program prevention
6 initiative breakfast.

7 The Task Force worked with local Penn State
8 cooperative extension on tick suppression symposiums. A
9 county-wide survey was conducted via the county's website
10 to help determine the extent that tick-borne diseases are
11 impacting our residents and visitors.

12 Dr. Ollar gave testimony to the Pennsylvania
13 Legislative Health Committee in Harrisburg. And the Task
14 Force developed a model prevention protocol at Delaware
15 Valley School District.

16 To date, outreach has resulted in productive
17 partnerships with Pocono Environmental Education Center,
18 Delaware Valley School District, Pennsylvania Department of
19 Health, East Stroudsburg University, Wayne Memorial Health
20 Systems, Hemlock Farms Conservancy and Penn State
21 Extension, among others.

22 A cornerstone of the educational outreach by the
23 Task Force is an easy to understand Tick 101 brochure,
24 which is included in your packets. The brochure contains
25 basic information about ticks and tick-borne diseases. It

1 was produced from the funding from the Pike County
2 Conservation District and the Commissioner's Office. Among
3 - approximately 8,000 copies have been distributed to
4 local residents.

5 In collaboration with Delaware Valley School
6 District, a protocol was developed for school nurses to use
7 when a student reports an embedded tick. Prior to the
8 protocol, a nurse would remove the tick and dispose of it
9 without informing a parent or a guardian. Through

10 The new protocol, guidance is provided on proper
11 tick removal and treatment of the affected area of the
12 skin. Nurses are also instructed to contact a parent or
13 guardian to share the Tick 101 brochure and to inform the
14 parents that he or she may take the tick to be tested.

15 One of the major achievements of the Task Force
16 is the completion of scientific research that has given
17 insight into the type of ticks and diseases present
18 locally. The Task Force commissioned a pilot study of the
19 county seat of Milford Borough, funded by the Tick Borne
20 Disease Support Network and the Pike County Commissioners.

21 Northeastern Wildlife DNA Laboratory of East
22 Stroudsburg University tested a hundred Black-legged ticks
23 collected at three sites. The study, which was completed
24 in June 2018, showed that 51 percent of the collected ticks
25 carried at least one tick-borne disease, and 11 percent

1 were coinfecting in two or three tick-borne diseases. The
2 highest infection rate identified was Lyme disease at 37
3 percent. A primary recommendation included screening for
4 all possible tick-borne diseases by local doctors to ensure
5 accurate diagnosis.

6 These results prompted the Task Force to call for
7 a county-wide study, which is again being conducted by
8 Northeast Wildlife DNA Laboratory of East Stroudsburg
9 University. This study, which is in progress, is funded by
10 the Delaware Valley Educational Foundation, Lyme Disease
11 Association and the Pike County Commissioners. It divides
12 Pike County approximately 546 square miles of land into
13 nine collection grids, from which 100 to 200 ticks from
14 each grid will be collected and tested.

15 In addition, ticks will be collected from Milford
16 Borough to compare pathogen changes over time and to test
17 for the Powassan virus, which was not included in the pilot
18 study.

19 The Task Force maintains open lines of
20 communication with elected officials, such as Michael
21 Peifer, Representative Rosemary Brown and Senator Lisa
22 Baker. These relationships have fostered an ongoing
23 dialogue on legislation surrounding issues such as
24 continuing education for doctors and mandates that require
25 health insurance companies to pay for tick-borne disease

1 treatments.

2 An exciting recent development is the
3 collaboration with Wayne Memorial Hospital, which
4 established a tick-borne disease wellness center in Lords
5 Valley; a first of its kind in the Commonwealth. Here,
6 Lyme literate healthcare provider Harriet Loizeaux provides
7 evidence-based treatment, diagnostic testing and
8 verification of tick-borne diseases, and advice for
9 management of symptoms for previously diagnosed patients.

10 Finally, the Task Force was recently honored with
11 a 2019 Northeastern Pennsylvania Environmental Partner
12 Award, which recognizes its strong partnership with
13 numerous organizations to raise the level of awareness and
14 education regarding ticks and tick-borne diseases through
15 school nurse tick removal protocols, legislation and
16 testing.

17 The Task Force meets monthly and continues to
18 work to educate Pike County residents and visitors and to
19 share resources with others seeking to tackle the
20 tick-borne diseases challenge in their own communities.
21 Soon we will be developing a document on suppression to be
22 presented when the surveillance study is completed.

23 The role of educator on this public health issue
24 is one that needs to be handled delicately. While we want
25 to alert our neighbors and friends and visitors to be aware

1 of ticks, we do not want to alarm them. Pike County's
2 major industry is tourism and we want people to enjoy the
3 outdoors, but we also want them to be prepared. So our
4 mission will continue with education being our top
5 priority. We'll also advocate for the state to develop
6 legislation that stresses programs to schools and doctors.

7 So thank you very much for this time. So you
8 know, those members that meet once a month on the Task
9 Force are just residents of our community that felt so -
10 that this issue was so important that they continually meet
11 every month. This is doctors, and some attorneys, there's
12 educators.

13 There's people from every aspect of Pike County
14 and the like. But they realize that their friends and
15 families who are suffering from this. So I thank you for
16 the time to give you this important information about Pike
17 County and what we're doing moving forward.

18 There's lots of information in here you'll see
19 about support groups. Along with Wayne Hospital, there's
20 suppression programs. As was just spoken about, about the
21 most people that are affected by ticks and diseases in
22 their back yard. So in Pike County, we're realizing that
23 we need to teach and educate the residents of how they can
24 eliminate that in their own back yards. So thank you.

25 CHAIRMAN: Thank you, Commissioner. That was a

1 very nice presentation. And I think we are all impressed
2 with the tick remover in the packet. I've never seen one
3 before. So thank you for that.

4 And you'll be staying for the questions?

5 COMMISSIONER OSTERBERG: I will, yes.

6 CHAIRMAN: Thank you. Our next presenter at this
7 time is Michele Cassetori, who is the Director of Education
8 and Outreach, Pennsylvania Lyme Resource Network.

9 Michele, proceed when you are ready.

10 MS. CASSETORI: Okay. Thank you. Good morning.

11 CHAIRMAN: Good morning.

12 MS. CASSETORI: I just want to point out that I
13 included this colorful infographic in your packets this
14 morning, which my testimony is attached to that. And there
15 are some extras up here for the public attendees as well.
16 So I just wanted to bring that to your attention.

17 Thank you, Chair Rapp and Representative Brown,
18 and all the House Health Committee members for allowing me
19 to speak this morning. It's really a critical Pennsylvania
20 health issue.

21 My name is Michele Cassetori and I'm an
22 occupational therapist with 29 years of experience. I work
23 as a Director of Occupational Therapy for a provider
24 serving four counties. I'm an adjunct faculty member at
25 Misericordia University and I'm a Pennsylvania Lyme

1 Resource Network Board member. We know now that
2 Pennsylvania is number one in the nation for confirmed
3 cases of Lyme disease. But I think it's also important to
4 note that 30 percent of the Lyme disease cases in
5 Pennsylvania are children, our most impacted group.

6 As an occupational therapist, I've seen the
7 effects of illness on patients. But truly, it was seeing
8 the suffering of my own children at home that had the
9 greatest impact on me as a mother and as a healthcare
10 provider.

11 I can tell you that in the past year in my
12 practice I've seen an increase in the number of patients
13 referred for therapy due to the effects of Lyme disease.
14 Many of them diagnosed late, which led to significant
15 health issues.

16 A woman in her 40s, now wheelchair-bound,
17 desperately trying to keep her clerical job, but struggling
18 due to extreme fatigue, muscular coordination difficulties,
19 and cognitive struggles.

20 And there are my own two daughters. My oldest at
21 the age of 20, a conditioned college distance runner
22 suffering from very scary cardiac symptoms; chest pain,
23 shortness of breath, just from walking across campus to
24 class.

25 And then there is my younger daughter, who was

1 yet to complete a full traditional year of high school due
2 to debilitating fatigue and neurological symptoms.

3 In 2018 I think it's important to note that the
4 World Health Organization, whose job it is to study the
5 science, to review the science; they added several ICD-11
6 diagnostic codes that represent the progressive
7 manifestation of Lyme disease. Diagnoses like carditis,
8 dementia and many others.

9 I've seen at home and in the clinic the effects
10 of Lyme disease, physically, a loss of mobility, strength,
11 and coordination. Cognitively, deterioration with
12 difficulty concentrating, memory problems, difficulty with
13 problem solving, even direction following and speech can
14 become impaired.

15 Psychologically, this leads to depression,
16 anxiety with panic attacks. I've even seen obsessive
17 compulsive disorder and anger issues. Socially, this leads
18 to isolation, due to an inability to engage in
19 conversation, difficulty attending social events and
20 activities, a loss of role identity.

21 As a professional, I know from experience that
22 the most successful treatment plans are those designed that
23 are based on the patient's stage of illness, level of
24 dysfunction and input from the patient, the physician and
25 that are covered by insurance.

1 The treatment approach for patients with Lyme
2 disease should be no different. Alison DeLong, a
3 biostatistician from Brown University, concluded a careful
4 statistical analysis of the four National Institute of
5 Health treatment trials for Lyme. And she concludes,
6 quote, for some patients with Lyme disease, retreatment
7 can, in fact, be beneficial, end quote.

8 Dr. Ying Zhang, a professor from John Hopkins
9 University, has recently started studying Lyme disease.
10 He's a world expert on infections, persistent infections,
11 specifically tuberculosis. And in line, he found that the
12 more prolonged the infection or delayed the diagnosis, the
13 more likely a persistent, difficult-to-treat infection
14 would develop.

15 So it's just like with TB. The longer it goes
16 untreated, the much more difficult it is to get rid of. He
17 also studied the antibiotic recommendations for Lyme. And
18 he found that they are unable to kill the persistent forms
19 of Lyme.

20 He concludes that the guidelines are too simple
21 and only address early infections. They are not effective
22 in treating the persistent forms of the disease.

23 In the spirit of Act 83, patients and healthcare
24 providers should be educated and have access to a broad
25 spectrum of treatment options for all stages of Lyme

1 disease, not just acute early stages. A spectrum of
2 treatment options with insurance coverage would allow
3 patient choice and opportunity for best patient
4 outcomes.

5 We know when it comes to Lyme disease that many
6 patients with Lyme are often diagnosed late. When caught
7 early, 20 percent of those treated do not recover with
8 short-term treatments. And those that are diagnosed late,
9 40 percent do not recover with short-term treatment.

10 That leaves a lot of people chronically ill
11 without insurance coverage for the longer treatment they
12 need. Just as with other diseases that have progressive
13 stages, doesn't it make sense that the course of treatment
14 for those patients with late persistent symptoms should be
15 different and longer than those with an acute early stage
16 of Lyme disease?

17 Without adequate treatment, chronic illness most
18 certainly will develop. For children, our most impacted
19 group in the State of Pennsylvania, it can mean a loss of
20 educational opportunities, a loss of play leisure for our
21 children. And even a loss of the very basic self-care
22 skills that they need to take care of themselves.

23 For adults, it is a loss of work, financial
24 devastation, a loss of parenting skills, a loss of role
25 identity.

1 In my experience, I can tell you that effective
2 treatment can work. The woman in her 40s began walking
3 short distances and kept her job as a productive employee.

4 My now 21 year old daughter is back to running 12
5 miles a day, captain of her cross-country team, and
6 beginning her senior year of college doing very, very well.

7 These cases that I'm referencing here today were
8 diagnosed late. And short-term treatment failed them.

9 They treated beyond the original round of antibiotics
10 recommended by the CDC guidelines at a very high personal
11 cost uncovered by their insurance. They incurred out of
12 pocket expenses.

13 So in summary, what I want to point out today is
14 that we need healthcare practitioner education on the broad
15 spectrum of treatment options. We need more focus on
16 prevention and treatment with research investments, as
17 Nicole mentioned earlier. That is critical.

18 And we most certainly need House Bill 629
19 legislation to ensure that insurance coverage for physician
20 visits, diagnostics and longer treatment when short-term
21 treatment fails. And it does.

22 Insurance should no longer be a barrier to
23 treatment access for patients and should no longer prevent
24 many patients from restoring their quality of life. But
25 instead let's help them reverse this illness and have a

1 productive life.

2 Thank you very much for your time today.

3 CHAIRMAN: Thank you, Michele. If you want to
4 come back to the table and - somebody can pull up another
5 table. We had the first three presenters.

6 The members - we have like 15 minutes that we're
7 ahead of time. So we can have a very short time frame here
8 for some questions to the presenters.

9 And by the way, thank you for your testimony.

10 Commissioner, if you'd like to come up. And
11 Commissioner, I had just one question for you. I can think
12 of a couple, but I'm going to allow the other members to
13 ask questions, which I'm sure that because we only have a
14 brief period of time.

15 Have you addressed this with the CPAC
16 organization?

17 COMMISSIONER OSTERBERG: Yeah.

18 CHAIRMAN: Is this - is this becoming a priority
19 issue for County Commissioners?

20 COMMISSIONER OSTERBERG: I'm going to say it's
21 more of a priority with District 7 that I addressed it
22 with, which is the northern tier of counties. But it's
23 been a discussion at CPAC.

24 CHAIRMAN: Okay. Thank you. And members?
25 Representative Daley? Please be mindful that we have a

1 brief window here to ask questions.

2 REPRESENTATIVE DALEY: Thank you very much.

3 So I'm really interested in one of the things
4 that Nicole mentioned in her testimony. And that is
5 related to the ticks are carriers of bacterial protozoan
6 environmental diseases.

7 They all have their own specified treatment
8 strategies based on recommendations that are existing right
9 now from the CDC. And that sometimes one treatment does
10 not work for all kinds of treatment.

11 So where are we in the stage of identifying? So
12 a person's been diagnosed with a Lyme - and I'm almost
13 hesitating whether we should use Lyme, because I think you
14 said that Lyme was only 37 percent of the diagnoses. So
15 maybe if we're thinking tick-borne illnesses would be more
16 precise.

17 And so my question is, are doctors getting that
18 information? If they're not even always keeping the tick
19 and getting it tested, what ways do they have of diagnosing
20 what the illness is, and then what the appropriate
21 treatment would be?

22 MS. CHINNICI: So there are tick-borne disease
23 diagnostic panels. So that would cover more than just Lyme
24 disease. The unfortunate part is physicians aren't always
25 aware. They just think Lyme disease.

1 They don't understand that our ticks in the state
2 are carrying more than one disease and it could be a
3 disease that can't be just treated with antibiotics. So
4 these other diseases like Powassan Virus or Babesiosis,
5 they need their own treatment. So if the ticks in question
6 with one of those and these patients are ill, they're not
7 going to see any recovery with just antibiotics. They need
8 different treatment.

9 And that's all on CDC's website. It's also in
10 our brochure that we hand out what those guidelines are for
11 the CDC. But unfortunately, the physicians aren't aware of
12 that and they're not testing for those diseases. Some are.
13 Some are very good. Some are not.

14 REPRESENTATIVE DALEY: So is more work needed to
15 identify or is it just more education of the practitioners
16 and the healthcare providers?

17 MS. CHINNICI: There's definitely a lot of need
18 for better diagnostics. But the current diagnostics is
19 helpful. It's a tool that's there. But the physician
20 education is very important. Without the physician's
21 understanding and the patients really trusting their
22 physician on getting them diagnosed, it's that education
23 that's lacking.

24 If a physician knows to at least get a tick-borne
25 disease panel and understands that if it comes back

1 negative, it's coming back negative maybe because it was
2 tested at the wrong time, or maybe it's something else, or
3 it's just not built up in the system yet for them to
4 suspect it.

5 REPRESENTATIVE DALEY: And I think this is a
6 quick follow-up. So are there groups that are actually
7 studying the ticks?

8 I mean, you're identifying. Are there other
9 groups that you're working with that are looking at that?
10 Because I know how prevalent it is in Pennsylvania and it's
11 a serious issue.

12 MS. CHINNICI: Yeah. There are other labs in the
13 United States that are doing testing. The University of
14 Massachusetts has a very similar program to what we're
15 doing. There's a couple other small laboratories that are
16 actually testing the ticks to see what diseases are in
17 them.

18 CHAIRMAN: Thank you, Representative.

19 Representative DeLissio, I believe you had your
20 hand up.

21 REPRESENTATIVE DELISSIO: Thank you, Chairman.
22 Thank you, Chairman. In reference - this is also for
23 Nicole.

24 In reference to the healthcare providers and
25 information summation, does the lab that you oversee do

1 anything with any of the associations like the Medical
2 Society, the nurse practitioners who interface regularly
3 with their members who are, in fact, licensed healthcare
4 providers about this? Or is that also a couple of dots
5 that need to be connected and/or strengthened?

6 MS. CHINNICI: That is definitely a couple dots
7 that need to be strengthened. We are working on that
8 process now. We've been contacting a lot of clinics and
9 different physicians offices with getting them information
10 on the brochures and trying to set up educational
11 workshops. I know the PA Lyme Resource Network is also
12 working on a lot of educational programs for these
13 physicians.

14 They also do a CMPD once a year in April to get
15 that information out to physicians, but it's not a
16 requirement for physicians, and that's the issue. It
17 should be a requirement when this is the leading state for
18 these diseases.

19 CHAIRMAN: Thank you, Nicole.

20 Representative Hahn?

21 REPRESENTATIVE HAHN: Thank you, Chairman. If
22 someone had a tick bite as a child 20 years ago, now
23 they're in their early 20s and are showing symptoms, will
24 that - if you have a Lyme disease test, will that show now?

25 And then how are they going to treat that?

1 So I have a family member who's going through
2 something similar and I insisted they get tests for Lyme
3 disease, but the doctor said, well, that's really not
4 necessary, but they're doing it anyway. So I'm just
5 wondering, you know, is that something we should be doing?

6 MS. CHINNICI: Yes, it can be. It's not - the
7 current test for Lyme disease is looking at your antibody
8 response. And unfortunately, the IGM, which determines if
9 it's an active infection is only present for the first
10 couple weeks of infection, and then it converts to IGT.

11 So over time, you'll always test positive for
12 Lyme disease if you've been exposed to it. They just don't
13 know if it's active based off that. And they're not sure
14 at which point in time if that ever drops off. And that's
15 the antibody response.

16 REPRESENTATIVE HAHN: I mean, you're looking at a
17 lot of different symptoms that can mimic other diseases.
18 So you know, the one thing was MS.

19 Right?

20 So - and no, they don't test positive for MS. So
21 well, then what? Like what? So I'm like find something,
22 right. Like I need to know why this is happening. So you
23 know, doctors don't seem to be very quick on offering a lot
24 of tests, unless you insist on it.

25 MS. CHINNICI: Yes, exactly.

1 REPRESENTATIVE HAHN: And then we just need to
2 make sure they start doing that.

3 MS. CHINNICI: Absolutely.

4 COMMISSIONER OSTERBERG: I think it's important,
5 though, that we recognize that it should be called
6 tick-borne diseases. I think that's the confusion.

7 I had just gone through this personally. And
8 when you go to a doctor, immediately they just want you to
9 be tested for Lyme. I didn't want to be just tested for
10 Lyme. I wanted to be tested for all of them and I had to
11 force him to do it.

12 So I think that word really needs to be taken out
13 of this conversation. Tick-borne diseases- .

14 MS. CHINNICI: So I need to go back and change to
15 tick-borne diseases?

16 COMMISSIONER OSTERBERG: I really think it's
17 important that you do that. And that's why you'll see
18 everything we do in Pike County is called tick-borne
19 diseases. We took the word Lyme out of there because it's
20 so easy to get lost with just that one word.

21 MS. CASSETORI: If I could just chime in on that.
22 I think it's also important to note that, and Nicole
23 referenced this, that sometimes the diagnostic tests for
24 these diseases, particularly with Lyme, can be unreliable.

25 And I think it's really important that we do

1 educate physicians on the clinical signs and symptoms and
2 the presentations of Lyme disease. Particularly if they've
3 ruled out other diagnoses that they can mimic, as you
4 mentioned, MS.

5 So if a person is testing negative for everything
6 else, yet continues to present with clinical symptoms that
7 are in line with a tick-borne disease, I think that's a
8 piece of critical education that needs to be brought forth
9 to our physicians.

10 Nicole mentioned we do, through PA Lyme, have a
11 medical conference every year. We'll be having that again
12 in April. And we are seeing a growing interest in
13 physicians across the State of Pennsylvania who want this
14 information.

15 But it is not yet a requirement for them for
16 CEUs. I do think a push for that would be extremely
17 helpful to get them educated and aware, so they can make
18 quicker clinical diagnoses and get a quicker regiment of
19 treatments started for these individuals to prevent this
20 progressive deterioration and development of chronic
21 illness.

22 CHAIRMAN: Thank you. And thank you,
23 Representative Hahn.

24 The Chair would just like to recognize that
25 Representative Hershey has joined us. Welcome

1 Representative.

2 And our next question is from Representative
3 Keefer.

4 REPRESENTATIVE KEEFER: Thank you. My question
5 falls in line with what you were just discussing here.

6 How do we effectively- I don't know if it's an
7 area of legislation, because we're also teetering the line
8 of CDC and what protocol is there. So you know - with what
9 their diagnosis are for the tick-prone disease.

10 How will you match that up and not stall research
11 in advancing this? If we're going to say, well, if the
12 disease presents this way or if they have these symptoms,
13 you know, mandating XYZ action when you said there's
14 different responses that you have.

15 How do you approach that, you know, and be
16 effective, and not that you're suffocating and alienating
17 other research and advancements in this area?

18 MS. CASSETORI: I think that the research piece
19 is critical. I think we need investments in research so
20 that we can better clarify for physicians what should be
21 the proper protocol and develop those. But I also don't
22 think that should be a reason to delay the treatment when a
23 physician makes a decision that ongoing treatment is
24 medically necessary, and it's monitored, and they're seeing
25 patient response to the treatment.

1 I think it's really important. You know, the
2 CDC, I have it on the infographic, that the CDC did a study
3 and they found that actually 56 percent of patients are
4 treated longer by physicians. So clearly there's
5 indication that physicians are recognizing that patients
6 are responding to treatment.

7 Part of the issue, though, comes back to the lack
8 of insurance coverage. And I can tell you, I run a support
9 group out of Misericordia University. I have for the past
10 three years, a Lyme disease support group. And the number
11 of attendees is just growing every year.

12 In some cases, it's parents and children that are
13 coming that are all impacted by progressive Lyme disease.
14 And to have to make the heartbreaking decision as a parent
15 in terms of whose treatment can you afford to pay for, who
16 is most ill in your family at this time, because it's
17 uncovered by insurance.

18 And I think that's a real issue in terms of from
19 a patient advocacy perspective and keeping the residents of
20 Pennsylvania well and healthy.

21 REPRESENTATIVE KEEFER: Ms. Chairman, if I may
22 just follow up on that.

23 So you're getting back to formularies is what-
24 and we always seem to be behind the eight ball on this,
25 though. So by the time, legislatively, that we do

1 something that impacts the formularies, that's old and
2 we're on to the next thing. So it's like trying to get the
3 timing of that is really I think, how do you do that as a
4 legislature. That's my concern.

5 CHAIRMAN: Thank you, Representative. And I
6 think the House Committee and the House, we've done our due
7 diligence in the Pennsylvania House. We've passed
8 legislation and we're waiting on the Senate to act. So if
9 you could call a couple of your Senators, that would be
10 very much appreciated.

11 Representative Schlossberg?

12 REPRESENTATIVE SCHLOSSBERG: Thank you, Madame
13 Chair.

14 Commissioner Osterberg, a question for you.

15 The Task Force is clearly a very robust engaged
16 effort to try to tackle a pressing issue. Any advice for
17 those of us who are from other counties on what we can pass
18 along to our county officials on how they can potentially
19 replicate your successes?

20 COMMISSIONER OSTERBERG: Well, I think the way to
21 do that is to engage with the professionals in the
22 community as we've done.

23 You know, I'm a County Commissioner. I'm not a
24 Lyme disease expert or a tick-borne disease expert. But
25 what we did was we heard from the community. I'm sure if

1 you reach out to your community like we've done with a
2 survey on our county website, where we just asked the
3 question, who in our community is suffering?

4 And we got back responses. And we not only got
5 responses back, but we got volunteers back. We received
6 information from individuals that said, I want to help
7 address this issue and educate the community and reach out
8 to the schools.

9 So I think that's one way to start. We certainly
10 can share with you all of the information that we have
11 gathered.

12 I mentioned a woman's name in here by the name of
13 Mikki Weiss. Mikki Weiss comes to us as a Superintendent
14 of Schools from the City of New York. She's a professional
15 educator. She knew how to put together a program like
16 this, so that we could help initiative it within our
17 community.

18 REPRESENTATIVE SCHLOSSBERG: Thank you very much.

19 COMMISSIONER OSTERBERG: You're welcome.

20 CHAIRMAN: Thank you, Representative. Thank you,
21 Commissioner.

22 Representative Brown, quickly.

23 REPRESENTATIVE BROWN: So you know I always have
24 lots of questions, but I'm going to keep it to one. Thank
25 you, Madame Chair.

1 Nicole, you were with me last week and you
2 mentioned it in your testimony about the State of Maryland
3 vaccinating the mice. And I remember saying well, how do
4 you do that? How do you - garner up all mice and - you
5 can't do that. So we were sort of joking about it.

6 But a critical aspect of getting way ahead of the
7 problem, which is how it's built. And so can you just give
8 a little bit more insight to that? And I'm going to look
9 at it more, but a little more insight for everybody just on
10 that vaccination piece on the mice.

11 MS. CHINNICI: Absolutely. So I did mention it a
12 little bit in the testimony. I mentioned small scale
13 because of the geographical location and how cost-effective
14 it could be.

15 There's a lot of integrated pest management
16 strategies out there for tick-borne diseases, but we're not
17 sure which one's the best. And it might be a bundle of
18 them together. So what the vaccination program is, it's
19 actually setting out bait boxes that have a bait in them
20 and the vaccine for mice.

21 And the mice will go in and eat the bait and get
22 vaccinated in the process. It's very similar to the
23 raccoon rabies vaccination that they do along the
24 Ohio-Pennsylvania border to avoid the expansion of rabies.
25 It's the exact same thing and it's in the mice.

1 There's just not a lot of data yet on how
2 effective it is over time and how cost-effective it is
3 because of the cycle of mice every two years. So it would
4 be something you would want to start small scale to really
5 see if that over time is helping an area. Since we have
6 that based on data with the tick-testing program now, we
7 can evaluate that over time.

8 CHAIRMAN: Thank you so much. And the Executive
9 Director of the House Committee has a question.

10 MS. METZLER: I'll keep this very quick. The -
11 when you take your child or someone goes to the doctor's
12 after they have a tick bite and they get the blood test
13 done, were you talking they only get a Lyme disease test or
14 is it standard protocol to get the entire thing?

15 MS. CHINNICI: For the most part, they're just
16 given a Lyme disease test. And most physicians are not
17 aware that the Lyme disease test has to occur, because it's
18 based off of your immune response to that bacteria. So if
19 you're getting - if you have a tick, you go to the doctor.
20 You say you have a tick bite and they say, okay, go get a
21 Lyme disease test.

22 It takes four to six weeks for that immune
23 response to build up. So it's going to come back negative.
24 You might get lucky and it comes back positive, but for the
25 most part, though, it's going to come back negative.

1 So then you have the patient that thinks they're
2 okay. Their doctor says they're okay. And then two months
3 later they have these symptoms and they think it's
4 something else at this point and it delays that treatment
5 process.

6 CHAIRMAN: Thank you, presenters. I think this
7 has been very, very informative. And we certainly, as
8 legislators, have a lot to learn, you know, still. And we
9 look to those of you in the professions to give us this
10 information.

11 You've done a great job of doing that this
12 morning. And I'm hoping that we can have a continual
13 dialogue with all of you down the road. So my thanks to
14 all of you. And at this time I will ask Harriet Loizeaux,
15 who is with the Tick-Borne Disease Wellness Center, come
16 forward.

17 And Harriet, you may proceed when you're ready.

18 MS. LOIZEAUX: Thank you, Chairman.

19 My name is Harriet Loizeaux. I'm a National
20 Board Certified Family Nurse Practitioner. Before coming
21 to Pennsylvania -.

22 HOUSE MEMBER: Use the microphone, ma'am. Hit
23 the button.

24 MS. LOIZEAUX: Sorry. Sorry. Okay. Sorry about
25 that. Hi. My name is Harriet Loizeaux. I'm a Board

1 Certified - Nationally Board Certified Family Nurse
2 Practitioner. I served in the United States Navy and I
3 later went on to work in the New York State Department of
4 Health, communicable disease supervisor.

5 We've been working - I should say I've been
6 working with Lyme disease and tick-borne diseases since the
7 '80s. It is for that reason that when Wayne Memorial
8 Hospital and Wayne Memorial Community Health Centers began
9 their collaborative agreement with Pike and Wayne County
10 Task Forces to open a tick clinic originally in Lords
11 Valley, CEO Frederick Jackson asked me to look at the team
12 for the tick clinic.

13 The first thing I did was to say that the - the
14 name of the clinic was wrong. And I argued with them that
15 it needed to be a tick-borne disease wellness center, not a
16 clinic. You know, it's a different connotation.

17 So we did open on April 10th, 2019. And I was
18 told to report to Lords Valley one day a week. They don't
19 - I don't think they realized the response that we had. I
20 gave them a couple of examples of when I, you know, had
21 been at a variety of different clinics over the years in
22 New York State and how people would line up around corners
23 when they heard a new clinic or a new wellness center was
24 opening. And that's exactly what happened to us in Pike
25 County.

1 Rosemary Brown was quick to come up and see us
2 and talk to us about what was going on. The first day, we
3 had over 125 calls. I'm still booked out until November.

4 After the first four to six weeks of being open,
5 I went back to administration and said that we definitely
6 needed more than one day a week to accomplish our goals.
7 And I was approved to have staffing and to work three days
8 a week in Lords Valley, which was still very busy.

9 I would like to thank Matt, Michele and Nicole
10 for their great information and their statistical data, who
11 spoke before me.

12 But I'm going to take a little different twist
13 now, because being in the trenches and being in the front
14 line, it's a little different than being, you know, in
15 epidemiology, which I worked in, in New York State.

16 We are collecting data. And it one, does show
17 that what we have here - I asked the hospital to run it.
18 So they ran my personal data of the patients that I had
19 seen. And they ran the data of the remaining providers in
20 the Community Health Center.

21 So in my personal data, I have seen and treated
22 one patient with Bartonella disease. It was a little
23 challenging, because I had to - I'm not only seeing the
24 patients, I'm creating this whole wellness center as we go
25 along as the administrator. So kind of wearing two hats

1 and then going in and trying to keep up with the statistics
2 three days a week.

3 So what we showed is we were able to create a
4 liaison with the infusion clinic in the hospital to
5 administer people who needed intramuscular, but I'm working
6 on the IV infusions to be given there. Currently, we are
7 giving intramuscular injections antibiotics when needed for
8 the acute processes in the clinic, in the center.

9 Let me tell you a little bit about how the
10 patient flow goes there. I have about 45 to 60 minutes for
11 every new patient, which is a good thing.

12 You usually don't get that in a PCP's office
13 nowadays. But we felt it was very important after all the
14 work that the Task Forces did together that we needed to
15 get a lot of information from each patient. So we have a
16 variety of patients coming in.

17 Some have ticks on them. Some have a tick that
18 they have removed in the past several days. Some people
19 have been diagnosed for many years from Lyme literate
20 physicians or from some of my colleagues in New York State
21 who've been working with tick-borne diseases for years.

22 We don't turn anyone away. And for basically
23 everyone who comes in, we do a complete panel that includes
24 an ANA rheumatoid factor, lupus screening, SAID rate,
25 western blot, and molecular DNA PCR, which tests for four

1 other coinfections automatically. Every patient walking in
2 the door gets that.

3 As the treatment goes on, if they are found to be
4 positive in any one of those diseased processes, if they
5 have not been back for their revisit, they're called
6 immediately and we send medication to their pharmacy, which
7 is listed in their chart.

8 Every patient I see back four to six weeks after
9 completion of the treatment for a tested cure. As far as
10 we know, no one's doing testing cures out there.

11 So how do you know if the patient has improved?
12 So the tested cure, like any other laboratory test, is a
13 tool, but it's also based on the person's physical
14 symptoms. Are they improving? Are they not improving?
15 Have they gotten worse?

16 And some people, unfortunately, have, by the time
17 they get back to me, have been re-bitten again. So then
18 you're starting all over from square one. We are seeing
19 neurological Lyme, cardiac Lyme, arthritic Lyme, people
20 debilitated, people trying to get disability.

21 In New York State for the past ten years, you can
22 get New York State disability based on the fact you have
23 Lyme disease. That doesn't exist over here. I'm filling
24 out forms for people who are severely disabled from
25 long-term Lyme/tick-borne diseases and all they have to

1 depend on is short term or long-term disability that
2 they're paying through for their particular employment
3 place.

4 I have noticed that most of the insurances that
5 we are dealing with in Lords Valley are covering the bulk
6 of the lab testing and on behalf of healthcare visits. We
7 have expanded our lab testing also to offer patients MDL
8 labs out of Hamilton New Jersey. They're a great lab.

9 The reps came and met with me two weeks ago. And
10 they've made us a tailor vector-borne panel sheet just for
11 our clinic, because we have just so many different requests
12 coming out. If I have a patient in front of me who's still
13 making complaints, who has symptomology, especially the
14 neurological, cardiac, or arthritic diseases, I keep doing
15 testing.

16 And nine times out of ten, we do find the
17 organism. Rocky Mountain spotted fever carrying is a
18 leader in one of our coinfections.

19 And I think of the stats - it's just grouped as
20 Rocky Mountain spotted fever, Rickettsia, and unspecified.
21 So bear with me. These - these stats are not 100 percent
22 reflective of what I've been seeing, because I depended on
23 someone scanning in the information so that can be
24 retrieved.

25 So I say what is on our stats for myself and for

1 the rest of the providers at CHC, we're missing about a
2 third of that information to date.

3 Babesiosis we're seeing and treating quite a few
4 people. Some people have - would have to be pretty
5 creative with their treatments because of either their
6 comorbidities or they're allergic to what the treatment may
7 be.

8 So we're kind of - we're kind of like the MASH
9 unit in tick-borne diseases. I work collaborative in -
10 collaboratively with Dr. James Kruse, who's our Medical
11 Director, who's been very supportive of the process we're
12 doing in Lords Valley. And has encouraged us to keep
13 moving forward and do as much as we can for the care of the
14 patients.

15 Frederick Jackson basically has said, well, you
16 just keep doing what the patients need because that's what
17 we're here for. So I think we have a very good supportive
18 administration backbone going on.

19 In terms of provider education, I just finished
20 completing - I created an educational module, which I'll
21 actually be starting to take out to the different sites in
22 the Wayne Memorial Community Health Center Clinics. I will
23 be in Hamlin at 7:30 on Wednesday morning to spend an hour
24 with that staff and go over how to do an intake, how to get
25 the testing done, and how to do your follow-up care.

1 And every different office will be getting the
2 same education. So we're trying, as a small northeast
3 hospital, Community Health Center, to do the best we can to
4 make sure everyone in our area has the availability and the
5 access to the care.

6 Under the Community Health Providers, you can see
7 where unspecified Lyme disease, they did diagnose 141
8 cases. And I think that's pretty significant just from
9 knowing about that our clinic has -.

10 That has nothing to do with the Wellness Center.
11 That just has to do with the different clinics that are
12 associated with Wayne Memorial Hospital. So they are
13 starting to test more. When they first opened up the
14 Wellness Center, I sent out a memo to all the providers.
15 You can call me. You can text me. I gave them my
16 cellphone number.

17 And I have an ongoing stream of questions coming
18 in from the providers. So to me, that's a great sign
19 because without provider education, we're never going to
20 have a healthy population. Thank you for your time.

21 CHAIRMAN: Thank you, Harriet. Very informative.
22 I was impressed with the 125 folks that came in the first
23 day. And you'll be staying for questions after.

24 And the Chair would like to recognize
25 Representative Ullman, who is over here who is joining us

1 today. Thank you, Representative.

2 And at this time, Dr. Jeffrey Jahre. Doctor, I
3 hope I'm -.

4 DR. JAHRE: Jahre, but it's quite all right.

5 CHAIRMAN: I apologize.

6 DR. JAHRE: No.

7 CHAIRMAN: And you're with St. Luke's University
8 Network?

9 DR. JAHRE: I am, indeed.

10 CHAIRMAN: All right. Please proceed when you're
11 ready.

12 DR. JAHRE: Thank you. Good morning. First of
13 all, I, too, would like to thank -.

14 HOUSE MEMBER: Mic up, please.

15 DR. JAHRE: Is my mic - is it on?

16 CHAIRMAN: You might have to get a little closer.

17 HOUSE MEMBER: Push the button.

18 DR. JAHRE: The button.

19 HOUSE MEMBER: It should be a green light. Green
20 light.

21 DR. JAHRE: How's that?

22 First of all, I'd like to thank Rosemary Brown,
23 Representative Rosemary Brown for inviting me to address
24 this distinguished audience on a topic that I think, as
25 you've already heard, is important to us all.

1 I'm Dr. Jeffrey Jahre. And I'm currently the
2 Senior Vice President for Medical and Academic Affairs for
3 the St. Luke's University Health Network. It is a health
4 network that has ten hospitals, nine of which are in
5 Pennsylvania. Many of the hospitals are in your
6 representative areas, including St. Luke's Monroe Hospital
7 right here.

8 I'm also professor of medicine at the Lewis Katz
9 School of Medicine at Temple University. But the reason
10 why I am here today is because I am a Board Certified
11 Infectious Disease Specialist and I've practiced in this
12 state for the last 42 years. And I've seen the development
13 of Lyme disease become the number one vector-borne diseases
14 in this country.

15 And obviously as you heard, Pennsylvania does
16 lead the way in terms of numbers of cases. And what is
17 most important is that there's also an emergence of other
18 important tick-borne diseases. And that is a
19 continually-evolving story.

20 In this regard, my colleagues and I published the
21 first reports in 2013 of the tick-borne disease Babesiosis,
22 that you heard a little bit about, that arose in
23 Pennsylvanians who had not traveled. Previously, that
24 disease, you might be familiar, was primarily in Nantucket
25 and Martha's Vineyard and affected the residents there.

1 But obviously with the tourists, it has gradually worked
2 its way westward.

3 And now, as you've seen from the reports of the
4 tick studies, it is not uncommonly identified in our ticks.
5 And we are certainly, as you've heard, seeing it more as an
6 actual disease.

7 In addition, next month we have a report that
8 will be published in the American Journal of Medicine about
9 another tick-borne disease of increasing importance, known
10 as Anaplasmosis, that I'm sure you'll be hearing more
11 about. And that oftentimes not only can exist alone, but
12 coexist in many cases with Lyme disease and has to be
13 tested for.

14 Nevertheless, Lyme disease represents the biggest
15 threat. And any comments that I have that pertain to Lyme
16 disease for the most part will also apply to the other
17 diseases that we'd be talking about that are tick-borne.

18 Lyme disease is present in all 67 counties of
19 Pennsylvania. And I'm certain, if I poll any of you or
20 anybody in the audience, you would have either direct
21 experience with Lyme disease or know someone who does.
22 When you actually hear about numbers, keep in mind that
23 numbers represent the proverbial tip of the iceberg. Most
24 cases of Lyme disease are probably either undiagnosed or
25 not reported. So they act as a guideline, but keep in mind

1 that there are probably many more than what you actually
2 can see.

3 While Lyme disease and other tick-borne disease
4 rarely result in mortality - and that makes it different
5 obviously than things like cardiac disease or heart disease
6 or more flagrant recent opioid epidemic. I think you can
7 all appreciate that it is a major issue that affects our
8 residents and visitors. And it affects them in many ways,
9 both in short and long-term disability, medical
10 expenditures, and in many cases can affect their actual
11 livelihood.

12 I believe that if the right steps are taken, and
13 we can do reasonable control measures, that we might be
14 able to achieve more success with this than with most of
15 our eight other major healthcare challenges. You are
16 probably familiar that the Pennsylvania legislature
17 authorized a Lyme disease task force that published
18 recommendations to the Department of Health in 2015. It
19 was an excellent task force. They did excellent work.

20 And although progress has been made, these
21 recommendations can be added to many others that will
22 address the disease's current evolution. And I'd like to
23 go through some of those recommendations that you can
24 consider in this regard.

25 First of all, prevention. I think we can all

1 agree that prevention is always better than cure. You've
2 heard about the many laudatory educational efforts that
3 have been undertaken by the previous speakers. And they
4 are indeed laudatory.

5 However, they would all agree, and I certainly
6 would agree that much, much more has to be done in order to
7 get it out to our public and also practitioners. And we
8 have to increase the knowledge of personal protective
9 measures that deal with proper outdoor clothing, tick
10 avoidance, repellants, removal and environmental risk
11 factor reduction. Some of these factors, some of these
12 examples would be, for instance, proper inspection.

13 Finding the tick is not always easy. It
14 oftentimes hides in areas that we might not look at, like
15 our groin or, you know, our armpits. And what's quite
16 important is that in most cases if you can remove that tick
17 properly within 24 hours, you're not going to come down
18 with a disease. So we've got to get that out there,
19 because there's still a lot of misinformation regarding
20 that.

21 In addition, there has to be additional studies
22 on natural based tick repellants that appear to be
23 effective to supplement the four currently approved
24 repellants. Those repellants, I think most of you are
25 familiar with DEET. There are different concentrations.

1 The concentration that probably should be used is somewhere
2 between 20 and 35 percent. There are people who use a
3 hundred percent. There are people who use ten percent.
4 And neither of those is really the sweet spot, or they may
5 not even be successful.

6 In addition to DEET, there's oil of eucalyptus,
7 picaridin, and IR3525 or 3535. And again, there are many
8 others out there that need investigation that could be used
9 and available to our public.

10 There should be further support for an effective,
11 safe vaccine. There was a vaccine briefly. And then it
12 was pulled off the market, because they were having
13 problems.

14 For those of you who have a veterinary
15 background, you know that there is a vaccine for animals.

16 We do not have a vaccine right now for humans.
17 This has to change. And we need further research into
18 developing a safe, effective vaccine. There should also be
19 more research into tick eradication programs and some of
20 the environmental controls in that regard. You've heard a
21 little bit about that. But trust me, much, much more could
22 be done.

23 The diagnosis. Again, I listened carefully to a
24 lot of the questions that you had regarding the diagnosis.

25 I think it's fair to say that the diagnostic

1 tests that we have right now are useful, but they don't
2 represent an absolute end all of the different stages. And
3 we need better diagnostic testing, not only for Lyme
4 disease, but for the other tick-borne diseases that have
5 been mentioned. There's a critical gap of a gold standard
6 test for Lyme and other tick-borne diseases that can
7 accurately diagnose active disease.

8 And I want to point out active is important,
9 because as you've already heard, in many cases, these tests
10 can be positive lifelong. They do not necessarily
11 demonstrate activity. If they're done very early on when
12 you have a rash, you'll get a false negative. If you do it
13 on a normal population, you will get false positives. So
14 we need better testing.

15 There should be enhanced efforts to improve the
16 public's education to identify the cause of the deer tick.
17 Again, you've seen some of the literature that's available.
18 And also the classical Lyme disease lesions.

19 It's amazing how many times I see confusion
20 regarding - if any of you have ever had a tick bite, you
21 know that oftentimes there's an area of irritation around
22 that tick bite, a reddened area. That is often, and should
23 be, less than the size of a quarter. That is not, and I
24 repeat is not the lesion of Lyme disease, but it's often
25 misidentified as so.

1 The lesion of Lyme disease is greater than a half
2 a dollar and it expands. And you can see that. If you
3 went back historically in Lyme disease patients, anywhere
4 between 70 and 90 percent of the time, and it's called
5 Erythema migrans.

6 You need to be able to tell the difference. I'm
7 amazed at how many times not only does the public, but
8 physicians do not know that.

9 The educational efforts should also include the
10 importance of coinfections. And again, I think we've heard
11 of that. That it is not unusual to have more than one
12 disease at one time.

13 I support the mandatory education for physicians
14 and other advanced practitioners to obtain licensure in
15 this state. You know that you are in demand, that we have
16 continuing education in child abuse and now the opioid
17 epidemic.

18 I believe that this merits equal importance or at
19 least importance enough to do on a periodic basis. Not
20 necessarily every two years, but periodically because there
21 are advances and other things that need to be put out to
22 our practitioner population.

23 Treatment. There are many common drugs, or I
24 should say there are common drugs that are primarily
25 generic that appear to be effective for the treatment of

1 Lyme and other tick-borne diseases. Thus far, resistance
2 that you've heard about with other bacterial diseases
3 hasn't really been an issue for Lyme disease.

4 Enhanced educational efforts should also be used
5 to increase not only the knowledge of tick identification,
6 but also the likelihood of disease based on exposure time
7 that can lead to simple prophylaxis and timely treatment.

8 I certainly agree with all of the previous
9 speakers that if you're going to treat, early is better.
10 And you can prophylax to actually prevent disease.

11 And so if you know that you had an engorged tick
12 or a tick that's been on for more than 36 hours and have
13 not developed the signs of Lyme disease, a simple dose of
14 Doxycycline, one dose, can be effective in preventing the
15 later development of this disease.

16 There should be current, effective evidence-based
17 standardized treatment protocols for Lyme disease in its
18 various stages. We do have some guidance from the CDC.
19 And although I think as one of the previous speakers
20 indicated, there may be some controversies surrounding
21 that, I'd be happy to answer questions regarding this. I'm
22 a firm believer in what's known as evidence-based medicine.

23 We have to have a standard that starts someplace.
24 We have to give some latitude for individual -
25 individuality, in terms of our practitioners, but it can't

1 be all over the place. And we also have to acknowledge
2 that evidence-based treatment does change over time. What
3 was standard a few years ago is obviously different now.
4 And what's now may be different in a few years.

5 There is a huge issue with drug shortages and
6 pricing variability. And that particularly affects generic
7 drugs. I've seen the price of Doxycycline vary within a
8 few days by 1,500 percent.

9 Although there has been some recent legislation
10 that addresses these issues, much remains to be done.
11 Governmental intervention is required to increase pricing
12 competition and to decrease some of the pharmaceutical
13 shenanigans that have taken place that I think may be
14 familiar to you.

15 Some of those shenanigans are buying up generic
16 drug companies or actually bribing them not to come out
17 with a specific drug. The filing of unnecessary lawsuits
18 that helps to prevent them from coming out. Extension of
19 patents for ridiculous reasons, the differences in
20 packaging or adding an indication. This is not sensible
21 and needs to change.

22 We also in some cases, when we do have real
23 shortage, not the imagined shortages, need to be able to
24 import drugs from reputable sources overseas. This needs
25 to be done.

1 And I also believe, that when appropriate, there
2 should be certain pricing caps to prevent total free for
3 all in the market. But obviously these caps have to take
4 into account cost and development of drugs.

5 So there's also controversy in the role of
6 antibiotic treatment for persistent Lyme disease or
7 sometimes what's known as chronic Lyme disease. Again, I
8 certainly acknowledge that there is controversy. And as
9 previously mentioned, if we can have a good goal standard
10 test, that would help us to determine who and how long
11 patients need to be treated.

12 So with that, I'm going to stop. Thank you very
13 much for your attention. I'd be happy to answer questions
14 later.

15 CHAIRMAN: Thank you, Doctor. And our last
16 presenter today is Donald Eggen - I hope I'm pronouncing
17 your name right - who is the Chief for the Forest Health
18 Division of the Department of Conservation and Natural
19 Resources. And sir, you may begin.

20 DR. EGGEN: Thank you for having me here today.
21 I'm not a deer tick expert. I'm not a disease-borne
22 expert. But I am an expert on integrated pest management.
23 I've been doing it for 40 years. I also deal with the
24 staff that deals with exposure to ticks all the time. It's
25 the number one Workers' Comp issue in the Bureau of

1 Forestry. And we continue to get staff that still has -
2 they get deer ticks and get Lyme disease. And we actually
3 know what we're looking for and do the treatments and the
4 preventative stuff. So that's an issue.

5 On a more personal note, my wife was originally
6 from Hamden, Connecticut. And my mother-in-law years and
7 years ago used to go paint meadows in Lyme, Connecticut.
8 And for years, she had degrading health, et cetera. And
9 this being - looking at the list of all of her symptoms, we
10 are for sure that she had Lyme disease. So it's an
11 important issue.

12 My written testimony deals with a couple
13 different areas. One is I'm going to look at this from the
14 standpoint -. I'm glad to hear some of the previous
15 speakers talk about vaccinating the mice and the deer and
16 tick eradication. So I'm going to talk about why do we
17 have an abundance of ticks?

18 From a pest management standpoint, to me, that's
19 my target. And also the pathogens. I'm glad to hear about
20 the research on pathogens, vaccinating the deer and the
21 mice, but also getting at the deer tick population.

22 Why do we have so many deer ticks and tick
23 expansion of others in Pennsylvania? Well, it's due to a
24 variety of reasons. Deer populations, weather, small
25 mammal populations, coyote range expansions into fox

1 territory. I'll get to that point. Urbanization and
2 fragmentation of forest, and invasive plants, especially
3 something like Japanese barberry.

4 As you know, the life cycle of the deer tick
5 moves from small mammals to large mammals. So that's your
6 target. That's the reservoir of the pathogens.

7 Foxes prey on very small mammals, while coyotes
8 have a different food. Their range - when they expand
9 their range, they kick out foxes. And so you'd have
10 actually increases in small mammal populations. So there's
11 one issue.

12 The other is something like Japanese Barberry.
13 When that gets established in an area and it becomes a huge
14 thicket, it has thorns on it and stuff like that, small
15 mammals like to hide there. Deer tick populations increase
16 whenever you have Japanese Barberry infestations.

17 And then the whole issue of too many deer and
18 invasive plants on a landscape basis is - and it's a
19 complicated thing. It's not just point A to point B.

20 Dr. Bernard Blossey at Cornell University has a
21 very good study looking at deer, invasive plants, native
22 plants. Deer like to feed on the native plants. They
23 don't feed on the invasive plants.

24 But there's always a seed reservoir there. So
25 when you have high deer populations, they reduce the native

1 plants. Invasive plants take over. And when you get in an
2 area like that, and after a while the seed bank can't
3 reproduce that natural vegetation, the deer actually move
4 on.

5 So you actually might have less deer in that
6 location, but that means they're more abundant some place
7 else. So deer populations are a big factor in having high
8 deer tick populations.

9 Pesticide spraying. I'm glad to hear some talk
10 about tick eradication. It'd be kind of hard to do that
11 state-wide, because if someone said it's in all 67
12 counties, and kind of hard to spray everywhere where you
13 have deer populations.

14 But spraying can be done on the ground. You
15 heard that the highest incidents of people in their back
16 yards. You walk out in your back yard, you get a deer
17 tick. There are treatments that you can do to your
18 property.

19 Also putting out traps. I like the idea about
20 the trap to pick up the vaccine. But you can also put
21 small tubes with Permethrin on the cotton balls. The mice
22 go in there, take the - take the cotton ball for the
23 nesting material, and now all of a sudden those ticks are
24 exposed to Permethrin.

25 But treatment, that's a short-term solution.

1 You're not going to get rid of the problem. You're still
2 going to be surrounded by deer, other small mammals in that
3 kind of situation. Especially in the urban environment.

4 There's less deer hunting in urban environments.
5 I live just outside West Chester and we have 40 acres of
6 open space in our development. And I have one of our
7 foresters and three of his buddies come and they do archery
8 deer hunting in our area to help reduce deer populations.

9 So there is an avenue there. Deer hunting in
10 urban areas is not illegal. You just have to have
11 permission. And archery can be used to help control -. If
12 you live in an urban environment, you've got some open
13 space and there's - it's not unusual to see 16, 17, 18, 20
14 deer walk around. Deer populations are very high in urban
15 situations.

16 So while practical spraying for deer ticks
17 statewide might be impractical, getting information - all
18 the information I heard about getting outreach to the
19 public, there are ways that you can treat your yards for
20 short-term solutions for ticks in your yards.

21 Areas with lower sustainable deer populations
22 have been shown to have fewer deer ticks. But urban areas
23 are especially vulnerable, as I mentioned, because deer
24 hunting tends to be less in those areas.

25 One thing that's popped up that we get questions

1 about, the Bureau of Forestry and Game Commission, we have
2 prescribed fire for forest regeneration. Yes, prescribed
3 fire will reduce the deer tick population in that area
4 short-term. I mean, the entire rest of the area is
5 surrounded by more deer and more small mammals along with
6 the ticks.

7 And they'll still come into an area. All
8 information that you've heard today, all the prevention
9 stuff are key factors. I think all the comments about
10 research, every time I give a talk on invasive species and
11 stuff, I always say my talk would be really, really short,
12 and it would probably be over if it wasn't for research.

13 Everything that I use in my profession in forest
14 health comes from research. So the more than you can do to
15 support research into, either through universities, grants,
16 or what have you, the tick lab here, trust me, my staff has
17 utilized this. It seems every time I go out into the
18 field, I do my tick check and everything.

19 And I find them and I get them off me. And at
20 the end of the day, I take care of my clothes and I get
21 back in the car later, I almost always gets my deer ticks
22 because they're on the car seat. And I get them the next
23 day. And as I find them on my hairline or something like
24 that, and I said, you little bugger. It's there.

25 And it always gets me when I get back into the

1 car. But we're looking for those. We know what we're
2 doing, but we still get deer ticks.

3 So that prevention is key. The tick lab here is
4 important. I'm glad to see the support for that and I hope
5 that continues. And I'll try to keep it short, so that you
6 can catch up on your time.

7 I'm available for questions.

8 CHAIRMAN: Thank you. Yes, thank you. And the
9 last two presenters, if you would like to come to the
10 table, please come on up.

11 And members, if you have a question for the other
12 previous presenters, just, it'll all be pending, of course,
13 on our time.

14 I would just like to thank, you know, everyone.
15 And I'm pretty much going to defer to the members. I can
16 speak at the end, if I have any questions. So if members,
17 anyone have a question that -?

18 Representative Hahn?

19 REPRESENTATIVE HAHN: Thank you for your
20 testimony. Sorry. I thought I had that on.

21 Doctor, I just want to ask a question. You had
22 mentioned about the size of it being more than a half
23 dollar. But if it's in places where you can't - say
24 between your toes. Maybe I haven't noticed it. So is it
25 really going to get the size of a half dollar?

1 I mean, I think I've had people you said, that
2 have come in the office and said that they had, were
3 diagnosed with Lyme disease. Never saw the rash or the
4 bullseye that we talk about.

5 So I think you said it's most always or said it's
6 always there. But it's not always there.

7 Correct?

8 DR. JAHRE: You're absolutely correct. The
9 statistics actually vary. The general statistic, at the
10 low end of the scale, it's about two-thirds of individuals
11 with bonafide Lyme disease who had a history of a rash.

12 But I've actually seen some other estimates that
13 go as high as 90 percent we were actually talking about
14 absolute bonafide Lyme disease.

15 But the bottom line is it isn't always there. It
16 may be in areas that are less visible. It might be on your
17 back and you don't see it. And the rash can be somewhat
18 protean in the way that it displays itself, you know.

19 We'd like to think about that everything is
20 always this classical target that expands. It isn't always
21 that way. Sometimes it looks like bands. And that's why,
22 you know, education is very important. But usually it does
23 expand and it is visible when present.

24 REPRESENTATIVE HAHN: But not always?

25 DR. JAHRE: Not always.

1 REPRESENTATIVE HAHN: What is St. Luke's doing so
2 - as far as educating the doctors there?

3 So do you have a class for all the doctors at St.
4 Luke's to educate them on this, and maybe the health
5 network mandates rather than we as a state mandate?

6 DR. JAHRE: Well, the answer to that is yes. In
7 fact, we do this - are involved in both undergraduate and
8 graduate medical education. We have a branch at Temple
9 Medical School on our campus. And just last week a lecture
10 to those individuals was exactly on that topic, on Lyme
11 disease and other tick-borne diseases.

12 We also have periodic educational efforts to help
13 our practitioners. Getting everyone together in one place
14 is not an easy thing anymore, you know. At one time the
15 hospital was the centerpiece for all practitioners and
16 physicians.

17 Today, many of our advanced practitioners and
18 physicians never even set foot in the hospital, because
19 they're basically outpatient. So we have to have different
20 ways of getting to the population. And we do that. But I
21 certainly would not want to tell you that it's perfect.
22 And a lot more to be done in a lot of different ways.

23 REPRESENTATIVE HAHN: We could probably use
24 telemedicine for that, too. Thank you.

25 CHAIRMAN: Thank you, Representative. Thank you,

1 Doctor.

2 Representative Zimmerman?

3 REPRESENTATIVE ZIMMERMAN: Thank you, Madame
4 Chairman. And thanks for the testimonies this morning.
5 Question for the doctor.

6 So how many, how many various tests are out
7 there? One of the things we hear is, you know, from the
8 insurance side, is that there's so many tests and none of
9 them are really that accurate. So if there one of them
10 that kind of stands out that's maybe a little better than
11 others?

12 And to follow up on that then is kind of a second
13 question and that's on vaccines. I know on the animal
14 side, we have it.

15 Is there any conversation on the human side for a
16 vaccine?

17 DR. JAHRE: Both are excellent questions. Again,
18 as far as the testing, the classical testing that revolved
19 around what we call the two tier or two-stage testing of
20 which a type of test that was fairly simple to do, called
21 an ELISA test was done. And then it would be confirmed by
22 a Western blot.

23 There are now some changes that are likely to be
24 made with only two types of ELISA tests, because they can
25 be done much more simply in a laboratory or hospital

1 setting than having those sent out.

2 As I had indicated, if you do those tests during
3 the earliest stages, for instance a rash, it would likely
4 be negative. That's an issue.

5 The other issue is that the test, once positive,
6 will oftentimes persist for a lifetime. There isn't a good
7 way right now of re-dating activity. Although some of the
8 newer testing with the two-touch might be helpful in that
9 regard.

10 And unfortunately, if you test a low-risk
11 population, tested everybody in this room with those two
12 tests, unfortunately a number of you people would become
13 positive.

14 There's also what's known as PCR testing that is
15 only approved in certain fluids. So what you have is - and
16 there are laboratories that are skilled in doing these
17 tests. And then there are laboratories that are not. I
18 can tell you there are certain laboratories that I can send
19 a test to and I know I'm going to get a positive whether I
20 should or shouldn't. And some people take advantage of
21 that.

22 So what we need is a better unequivocal gold
23 standard test. I don't think there's any doubt of that.
24 That's not to say that the test is useless.

25 The second part about the vaccine, there are

1 people certainly that are working on it. It has been a
2 major topic of conversation. There are a number of
3 individuals who felt that the withdrawal of the initial
4 vaccine might have been premature.

5 There were a number of issues related to that,
6 that, you know, I don't think we need to go into over here,
7 but a lot of them involve medical legal issues.

8 Further support, as with any vaccine, this has to
9 come really from I think a governmental legislation, some
10 protection for the company. Because it's - you know,
11 vaccination, when you start giving it to a lot of people,
12 it's a high risk area.

13 And there's not a lot of profit in it. And
14 that's why there are not many companies right now that
15 makes vaccines altogether. I think currently the last time
16 I looked there were only three or four of these. So this
17 is where people like you can help.

18 REPRESENTATIVE ZIMMERMAN: Good. Thank you.
19 Thanks, Madame Chair.

20 CHAIRMAN: Thank you, Representative. Thank you,
21 Doctor.

22 Representative Daley?

23 REPRESENTATIVE DALEY: Thank you, Chairman. So I
24 want to just say thank you to all of you for your
25 testimony. It was really interesting. But my question

1 that I think goes to Dr. Eggen related to the test
2 management.

3 And I live in Montgomery County right outside of
4 Philadelphia. And a lot of the yards that I passed in my
5 travels have signs out that the property is being sprayed
6 for mosquitos and for ticks. Now, I've had my yard sprayed
7 for mosquitos. It's a garlic spray, so it smells bad for -
8 or it smells like garlic for a little bit, but then it goes
9 away.

10 But it really actually decreases the number of
11 mosquitos that I have, unless there's really heavy rain.
12 So I'm curious about the tick spray, because we look at the
13 other information we got, that playing in the yard and yard
14 work are the most common activities for exposure. And that
15 children ages two to ten are the - you know, at the
16 greatest risk.

17 So it seems like recommendations for getting the
18 yard sprayed, because you've said that. But are they safe?
19 Like what's - like the garlic spray, I feel we can kind of
20 live with that. That's a good kind of thing.

21 DR. EGGEN: Correct. Some - that - just to do
22 over the whole yard, something that's, you know, mechanical
23 or some other kind would be fine.

24 Typically what I see is that okay, you've got a
25 yard and you've got an edge to that yard. That's where you

1 use the chemical, -

2 REPRESENTATIVE DALEY: Right.

3 DR. EGGEN: - along the edge, because if you keep
4 the grass mowed and you don't have tall vegetation.

5 REPRESENTATIVE DALEY: Yeah.

6 DR. EGGEN: It's the tall vegetation that's the
7 issue. So it doesn't mean that you can't get ticks. So it
8 can be a combination of that, where you use the hard
9 insecticide along your perimeter. And that's where you put
10 the traps as well.

11 You want to get the traps out in the high
12 vegetation. Like for example, in my yard I got a tree line
13 there that's just off my property, but that's got high
14 vegetation.

15 Now, my yard's mowed. My dog rarely gets ticks,
16 rarely. And it's got a fence there, so he doesn't get into
17 the high vegetation. So yeah. So yeah, you don't want
18 your kind crawling around picking up Permethrin on -. But
19 there are other things like that that can be used, yes.

20 REPRESENTATIVE DALEY: Okay. So the other thing
21 is, I think we all learned that it was really essential
22 that we put sunscreen on. You're supposed to wear
23 sunscreen all the time. You always see parents putting
24 sunscreen on their kids.

25 Are there safe things to put on kids?

1 DR. EGGEN: Some of the botanicals can be used,
2 if you don't want to use DEET. Also treating the clothing
3 is probably more important.

4 REPRESENTATIVE DALEY: Uh-huh (yes).

5 DR. EGGEN: You treat - that's what we do.
6 We'll go in the field. I'll take my field pants, put them
7 out in the yard and I spray it with the good stuff. It
8 dries and actually can go through about three, four or five
9 washings. That's what we use.

10 So you're not putting it on you. And actually,
11 there is the non-chemical stuff that I actually use then on
12 my exposed skin surfaces.

13 Now, some people, staff, you know, no, just give
14 me the DEET. I want the good stuff, et cetera. So that's
15 what we do.

16 So you can treat clothing that way. Let it dry
17 and you can do it that way. But yeah, the yard work, the
18 greatest - the reason why that's a high number is because
19 that's a high frequency of use. And you have a lot of deer
20 in the urban environment. So lower deer lowers that tick
21 population.

22 So that's a big issue in urban areas is high deer
23 populations.

24 REPRESENTATIVE DALEY: You are so right about
25 that, because it is, it's a huge issue. I think I had

1 deer in my yard because my house is almost like a chute
2 down through the woods.

3 DR. EGGEN: Our deer hunters for our
4 development's open space over the last year have taken out
5 about 62 deer. And trust me, we still have a heck of a lot
6 of deer.

7 REPRESENTATIVE DALEY: Well, thank you very much.

8 CHAIRMAN: Thank you, Representative Daley.
9 Representative DeLissio?

10 REPRESENTATIVE DELISSIO: Thank you, Chairman.
11 Harriet, is your wellness center unique in the
12 Commonwealth or are there other similar wellness centers
13 that are focused on tick-borne illnesses, diseases?

14 MS. LOIZEAUX: I don't think they're - I don't
15 think there are any other in the Commonwealth, that I'm
16 aware of.

17 REPRESENTATIVE DELISSIO: And what was the
18 genesis of establishing that center that so recently
19 opened?

20 MS. LOIZEAUX: It was a collaborative approach
21 between Wayne Memorial Hospital, Pike County Task Force,
22 which- .

23 REPRESENTATIVE DELISSIO: So that task force and
24 the Commissioners spoke?

25 MS. LOIZEAUX: - that Matt spoke about, and the

1 Wayne County Task Force. Yes, ma'am.

2 REPRESENTATIVE DELISSIO: And then a quick
3 question. You mentioned a test of cure. What was - is
4 that another type of diagnostic test that determines what
5 stage somebody's at? I was just curious of -.

6 MS. LOIZEAUX: No. That's just a repeat of the
7 prior test that was done. In other words, the Western Blot
8 is divided into two sections, so to speak, the IGGs and the
9 IGMs.

10 So if the patient has two IGMs, they're
11 considered to be positive. So then we do treatment and
12 then they come back later and they do what we call the test
13 of cure, to see if those IGMs have been eradicated.
14 Sometimes they're completely eradicated or sometimes they
15 still might have one IGM and no symptoms, or one IGM and
16 still significant symptoms.

17 So that's how we determine which direction we're
18 going to go in treatment or nontreatment of the patient.

19 REPRESENTATIVE DELISSIO: And then Dr. Jahre,
20 very quickly.

21 Of that, you mentioned the 2015 task force and
22 its recommendations. Of those recommendations, how many -
23 are there still recommendations to be implemented that are
24 not -?

25 DR. JAHRE: I think the main recommendations,

1 which again involve prevention, diagnosis and treatment,
2 there's been a major start. But as you already heard,
3 there's so much more than can be done.

4 So I think I would characterize it as an
5 incomplete effort right now. But the recommendations as a
6 whole were valid then and they remain valid now.

7 I might just also want to quickly add a couple
8 things about Permethrin. When you do apply that to
9 clothing, it's very important to put it on the top of your
10 shoes and socks, because oftentimes that's where deer come
11 on.

12 And it does last for about a half a dozen
13 washings once it's on your clothing. And it's inexpensive.

14 I would also want to add to Harriet's test of
15 cure. What I think she was trying to say is that you can
16 certainly use those tests as a helpful thing. But there
17 isn't any substitute for your - right now, you have to use
18 your clinical judgement, because there isn't an absolute
19 test that tells you, no, you need to stop therapy right
20 now. And that is part of the problem.

21 REPRESENTATIVE DELISSIO: Thank you, Madame
22 Chairman.

23 CHAIRMAN: Thank you, Representative and thank
24 you, Doctor.

25 Representative Jerry Knowles.

1 REPRESENTATIVE KNOWLES: Thank you, Madame Chair.
2 Thank you all who come to testify. Doctor, I have a couple
3 of questions and I think they should be pretty simple to
4 answer.

5 DR. JAHRE: I'll try to do it quickly.

6 REPRESENTATIVE KNOWLES: There are always the
7 scary ones.

8 Right?

9 DR. JAHRE: Right.

10 REPRESENTATIVE KNOWLES: You have described
11 yourself as a tick-borne disease expert or specialist.

12 How many are there throughout the Commonwealth?

13 DR. JAHRE: I'm an infectious disease specialist.
14 And because this is such an important infectious disease
15 that virtually anyone involved in infectious disease has to
16 have major knowledge of this. There are people who
17 totally, I think, devote their entire career to this one
18 disease.

19 The person who discovered Lyme disease, a fellow
20 named Allen Steere at Yale, and he's done so. But for most
21 of us, we do a variety of different things. And there are
22 several hundred of us throughout the Commonwealth.

23 REPRESENTATIVE KNOWLES: Okay. I am familiar
24 with the D.O. And on his website, he identifies himself as
25 a tick-borne disease expert.

1 Does he have to have anything beyond being an
2 M.D. or a D.O. to identify himself as such?

3 DR. JAHRE: No. And so again, it's like
4 information that you get off the internet. There's valid
5 information and there's invalid information.

6 And I think the public has to be aware of where
7 they're going. That's not to say that there are people who
8 have truly become highly educated and who are aware of what
9 the current situation is, and they are reliable. And they
10 may not be the infectious disease specialists. I would
11 certainly agree with that.

12 But there are also many, many other people out
13 there who call themselves, quote, Lyme disease experts.
14 And I think you would have to look at that kind of and be
15 aware.

16 REPRESENTATIVE KNOWLES: Okay. So if I go to an
17 infectious disease specialist or a credible tick-borne
18 disease expert, is there a strong likelihood that the
19 treatment that I get will be the same?

20 DR. JAHRE: I would hope so. I mean, again,
21 that's where we get to what is known as evidence-based
22 medicine. There are absolute recommendations that have
23 come out through very reputable bodies, such as the CDC and
24 also the Society of the Infectious Disease Society of
25 America.

1 Those recommendations are currently actually
2 being revised right now. So it goes to show you what a
3 dynamic situation that we're in. Any good physician who
4 calls themselves an expert should be aware of those
5 recommendations.

6 REPRESENTATIVE KNOWLES: Okay. Just for the -.
7 The reason I say that is one of our colleagues had a family
8 member that had Lyme disease and they really spoke very
9 highly -. And it just seems like - it seems like there are
10 people in the medical field who agree with you that we need
11 to very carefully judge them, who the experts are.

12 So thank you very much, Madame Chair. Thank you,
13 Doctor.

14 CHAIRMAN: Thank you, Representative Knowles.
15 Representative Hershey?

16 REPRESENTATIVE HERSHEY: Thank you, Madame
17 Chairman. Mike, excuse me, Representative Knowles, I have
18 to lean over again.

19 So for Dr. Eggen, you talked a lot about the
20 Permethrin tubes and the spray. But you said that those
21 are short-term solutions for land owners because the land
22 is surrounded by ticks.

23 Do land owners have long-term solutions for
24 population control or what does that look like?

25 DR. EGGEN: Shoot more deer.

1 REPRESENTATIVE HERSHEY: Okay.

2 DR. EGGEN: That's kind of a funny, quick
3 response, but when you look at population dynamics or
4 reason why we have high deer when Pennsylvania is - we've
5 got the climate. We've got the conditions.

6 We have deer populations that are - in a number
7 of areas that are too high. And then the whole, like I
8 said, invasive plants. So we have high tick populations.

9 To get at that problem with high tick
10 populations, you have to deal with the source. You have to
11 deal with the small mammals and you have to deal with the
12 deer.

13 So no, you don't have a long - a homeowner does
14 not have a long-term solution until you start doing what
15 we're trying to do in our neighborhood is have archers come
16 in and shoot more deer.

17 REPRESENTATIVE HERSHEY: So are there other
18 plants other than barberry that are a problem and where is
19 that plant a problem?

20 DR. EGGEN: That's the principal one with regards
21 to small mammals, because they do utilize that. They've
22 got thorns on it, so predators of the small mammals can't
23 get in there.

24 So a number of states, especially like in State
25 Parks and things like that, will go in and control Japanese

1 Barberry. And as soon as you do that, small mammal
2 populations go down. So controlling the Japanese Barberry
3 is a valid way to reduce small mammal populations and then
4 therefore reduce tick populations.

5 REPRESENTATIVE HERSHEY: Thank you.

6 DR. EGGEN: And just one more comment I had on
7 preventative care that we've noticed on our staff, where
8 people pick up fewer deer ticks is - and this is for folks
9 that do work outdoors.

10 We actually had tick gaiters. You wrap it. It's
11 like velcro. You wrap it around your pant leg and it's
12 impregnated with the insecticide and it's got like little
13 barbs on it. And since everybody has started using that,
14 we've picked up fewer deer ticks.

15 Because as the doctor pointed out, they crawl up
16 your - you don't tuck your pants - your socks into your
17 boots, your socks over your pant leg, and then you put the
18 gaiters around that. The deer ticks can't get on you
19 unless it's really tall vegetation and they're up - and
20 they're up high.

21 So that's another preventative thing for people
22 who work in the woods.

23 CHAIRMAN: Thank you, Representative. Thank you,
24 Mr. Eggen.

25 And Representative Rosemary Brown?

1 REPRESENTATIVE BROWN: Thank you, Madame Chair.
2 Thank you all for your testimony.

3 And Dawn, I really appreciate - you've done
4 something that I've really been trying to think about is
5 how do you help all those aspects to control the
6 population.

7 So I think one of the first things that I'm going
8 to do, even for the residents, is put out something that
9 talks about in their back yard, based on also connecting it
10 to the stats that the AHU lab has provided, and why that
11 plays such a critical role in prevention just around your
12 house.

13 So I thank you for that. So I'll be following up
14 with you.

15 Quick question. There's two quick questions.

16 First, Doctor, thank you. You have always been
17 very accessible and you have been working very strongly
18 with me. And as an infectious disease doctor, as
19 Representative Knowles sort of alluded to, you get the
20 patient that's been missed. You get the patient that we
21 can't figure out what's going on with and everybody says
22 okay, you figure it out.

23 Right? Pretty much?

24 DR. JAHRE: Pretty much.

25 REPRESENTATIVE BROWN: So - and I thank you for

1 your realistic comments supporting the continuing medical
2 education for physicians. It is a piece of legislation
3 that I have that I've been working very hard on with some
4 very strong resistance, for the reasons you mentioned.

5 But I think your realistic notations of why it's
6 needed is important. So one of the aspects that I put in
7 the legislation was a five-year sunset, which basically in
8 the legislative world means in five years, if it was to go
9 into law, the legislature would have to revisit it to see
10 if it was still of critical importance.

11 And because there are different things that could
12 come up. So you want to make sure that what you do makes
13 sense. We thought that might be something that would help
14 the medical community be attracted to it.

15 But where do you feel, if there's a physician
16 population, do you believe it's all physicians that need to
17 get this continued medical education or do you believe
18 there's a certain internal medicine?

19 Where do you believe that it should start if it
20 can't be all, if we're getting some of that resistance?
21 And I understand this is your personal opinion. I don't
22 mean to put you on the spot, but I thank you for your
23 honesty.

24 DR. JAHRE: It's okay. I'm used to being on the
25 spot. Actually, I do believe that it should be all

1 physicians and all advanced practitioners or other
2 healthcare providers.

3 Why do I say that? Because oftentimes when
4 someone has a tick bite or an exposure, they're going to go
5 to the nearest source. That could be a podiatrist. It
6 could be a urologist. It could be a pathologist.

7 And this is so ubiquitous right now that I
8 believe that we all need to know about it. If we're saying
9 the general public should know about it, why shouldn't
10 healthcare providers be a special part of that?

11 So I certainly commend your efforts to do that.
12 I mean, clearly it's not possible and I do recognize the
13 realities of the situation. Then you're dealing with what
14 you would call frontline providers, which are the primarily
15 primary care practitioners to a large degree.

16 REPRESENTATIVE BROWN: Thank you very much. I
17 appreciate that.

18 And Madame Chair, one quick question to Harriet.

19 Harriet, the Center, when you get a patient and
20 you're giving them the intramuscular antibiotics, are you
21 getting any problems or concerns on the antibiotic usage
22 through the Center for that treatment at all from the
23 federal level, the CDC, anything like that with your
24 antibiotic usage? Just is there anything there that is an
25 issue?

1 MS. LOIZEAUX: No, there's not, because we're
2 following accepted guidelines that Dr. Cruse has approved.
3 So it's very rare that we're doing that. But occasionally
4 with the neurological Lyme, he's recommended Rocephin, one
5 gram. And they do that anywhere from three to six weeks.

6 REPRESENTATIVE BROWN: Great. And then the test
7 of cure, does that have any reimbursement issues at all,
8 the second test?

9 MS. LOIZEAUX: We haven't seen that so far. We
10 haven't seen that so far. And we have patients who are
11 Medicare. Patients, some of their insurance goes to
12 LabCorp. Some goes to Quest. So there's a pretty good
13 variety up in our area.

14 And of course, we have some patients who are
15 coming from New York and New Jersey, just because of, you
16 know, the proximity of where we're located. So we haven't
17 had any issues yet.

18 REPRESENTATIVE BROWN: All right. Thank you all
19 very much.

20 Thank you, Madame Chair.

21 CHAIRMAN: Thank you. Thank you, Representative
22 Brown.

23 Whitney, did you have a follow-up question?

24 MS. METZLER: Doctor, you mentioned something
25 about - and I'm not even sure how to frame this question

1 about lab testing, testing for certain labs, where you can
2 pretty much determine what the results are going to be.

3 Is there something that needs to be legislatively
4 or something that we, as the Pennsylvania General Assembly,
5 should be doing, looking into about labs and the way things
6 are being conducted as far as lab testing?

7 DR. JAHRE: The short answer to that is yes. And
8 a lot of these labs that I have some questions about are
9 not located in the state. So if you have a practitioner
10 that wants to get a positive result, that practitioner
11 oftentimes knows that they can send it to this kind of
12 laboratory and they'll get the result that they're looking
13 for.

14 Obviously labs need to be certified. Some of the
15 tests that they've done are not certified tests. They're
16 doing what we call PCRs on certain fluids, with reasonable
17 validity.

18 So I think all of this is really ripe for some
19 kind of oversight legislation.

20 CHAIRMAN: Thank you very much. Representatives,
21 members, any other questions? Any other questions from the
22 other presenters?

23 If not, I believe that President Marcia Welsh has
24 some comments for us. And my thanks to all of you. You've
25 done a wonderful job informing us. And I think the members

1 asked some very good questions basically based on the
2 information that you have given us. So thank you very much
3 for your time and effort and putting all of your comments
4 together. We truly, truly appreciate it.

5 And Representative Brown, thank you for your
6 hospitality here and getting the Committee here. So thank
7 you. My thanks to all the presenters.

8 And President Welsh, if you'd like to come
9 forward.

10 PRESIDENT WELSH: Thank you very much for coming.
11 I really appreciate that the House Health Committee has
12 given ESU the opportunity to host this important hearing.
13 A special shout-out and thank you to Representative
14 Rosemary Brown for all of her support of our Pennsylvania
15 tick research lab.

16 ESU is a comprehensive public university. We
17 really do have, as part of our mission, serving our region.
18 And a good example, Friday, we had an economic outlet
19 summit with 300 members of our community on our campus
20 talking about the past, present and future of economic
21 development in Monroe County.

22 And then today I think we've demonstrated quite
23 well, through what we are doing with the tick epidemic, the
24 tick-borne disease epidemic.

25 We have in this building, and you'll be able to

1 tour it after lunch, we have the Dr. Jane Huffman Wildlife
2 Genetics Institute, which in and of itself is a mouthful.
3 But it offers wildlife forensic services, population
4 genetic services, and as you learned, tick diagnostics
5 testing through the tick research lab.

6 As we all know, tick-borne diseases are at an
7 epidemic level in Pennsylvania. ESU has demonstrated a
8 commitment and the ability to be a significant part of the
9 solution.

10 Nicole Chinnici is at the forefront of tick
11 testing and research. And I know will continue to be a
12 phenomenal resource to you as you determine what you want
13 to do going forward.

14 We also want to be much more aggressive as an
15 institution in our role for increasing educational
16 opportunities for the medical community.

17 She forgot to mention it, but this is a coloring
18 book and activity book that was done through the lab, along
19 with new mind design, which is our student design group on
20 campus. And it is an educational opportunity to teach
21 young people about ticks.

22 It isn't just old people that need to know what a
23 tick looks like, but making sure our children are educated,
24 so if they see a tick, they will come forward and talk to
25 their parents about it or say what is this?

1 So we do - Nicole, I think, is becoming the mouse
2 pied piper. I'm a little worried about that.

3 Anyway, again, thank you so much for being at ESU
4 and I hope you enjoy your stay with us.

5 CHAIRMAN: Thank you so much for your
6 hospitality.

7 Thank you, ladies and gentlemen here in the
8 audience. And I'd also like to say thank you to our video
9 crew here from Harrisburg. They'll be putting this up
10 probably on our website. So if you want to check in and
11 rewatch everything, you're welcome to do that. And all the
12 testimony, we still have copies of testimony available here
13 on the front table. Thank you very much.

14 * * * * *

15 HEARING CONCLUDED AT 12:05 P.M.

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