

COMMONWEALTH OF PENNSYLVANIA
HOUSE OF REPRESENTATIVES

HEALTH COMMITTEE
joint with the
JUDICIARY COMMITTEE
PUBLIC HEARING

ALLEGHENY COUNTY COURTHOUSE
436 GRANT STREET
GOLD ROOM #410
PITTSBURGH, PA 15219

WEDNESDAY, APRIL 29, 2015
10:00 A.M.

PUBLIC HEARING ON MEDICAL CANNABIS

COMMITTEE MEMBERS PRESENT:

REPRESENTATIVE MATTHEW BAKER, HEALTH MAJORITY CHAIRMAN
REPRESENTATIVE RONALD MARSICO, JUDICIARY MAJORITY CHAIRMAN
REPRESENTATIVE JIM COX
REPRESENTATIVE RICK SACCONE
REPRESENTATIVE TEDD C. NESBIT
REPRESENTATIVE BARRY J. JOZWIAK
REPRESENTATIVE JOHN LAWRENCE
REPRESENTATIVE FLORINDO J. FABRIZIO
REPRESENTATIVE JOSEPH A. PETRARCA
REPRESENTATIVE PAMELA DeLISSIO
REPRESENTATIVE GERALD MULLERY
REPRESENTATIVE KRISTIN HILL
REPRESENTATIVE VANESSA LOWERY-BROWN
REPRESENTATIVE DANIEL L. MILLER
REPRESENTATIVE TIM KRIEGER
SARAH SPEED
ABDOUL BARRY
WHITNEY KROSSE
TOM DYMEK

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SUBMITTED WRITTEN TESTIMONY

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(See submitted written testimony and handouts online.)

P R O C E E D I N G S

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REPRESENTATIVE BAKER: Good morning, everyone. The hour of ten o'clock having arrived, the Joint Health and Judiciary Committee of the House of Representatives will come to order. We have a very tight schedule today, very ambitious line-up of testifiers.

Testifiers will kindly come to the table here. We do have a number of Skype presentations and testimony. We do want to try to move this along. If the questions become too voluminous, we are going to have to unfortunately limit those in order to get everybody in.

Some of us have traveled up to five hours to be here. We really need to move this ambitious agenda along. So I am going to waive any opening remarks and ask Chairman Marsico of the Judiciary Committee, Ron, if you have any opening remarks?

REPRESENTATIVE MARSICO: Thank you, Chairman. I just want to thank Allegheny County for having us here and all the testifiers to take the time to be here as well. I also want to recognize and welcome the students from Chartiers Valley High School Law and Governing class taking part. Dave did say that he's not related to Representative Dymek. I don't know if that's a good thing or a bad thing.

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1 Welcome class, and welcome to this hearing. We
2 appreciate the fact that you're taking the time to do
3 this. It's educational and a fact-finding informational
4 hearing, nothing about any particular legislation.

5 So testifiers are aware of that, and so we're
6 going to thank, once again, Allegheny County and all the
7 members that are here as well, and staff for putting this
8 together. Thank you.

9 REPRESENTATIVE BAKER: Also this morning we
10 have Minority Chairman Flo Fabrizio. Welcome Flo, any
11 remarks?

12 REPRESENTATIVE FABRIZIO: No. I'll defer to
13 you.

14 REPRESENTATIVE BAKER: We also have the
15 Minority Chairman Joe Petrarca with the Judiciary
16 Committee. Welcome Joe.

17 REPRESENTATIVE PETRARCA: Thank you, Matt,
18 Chairman. I'm glad to be here. I'd like to welcome
19 everyone, the citizens and the testifiers; and thank you
20 for being here. This is the third of three hearings. I
21 think our Committee, our combined Committee held the
22 Judiciary Hearing here.

23 I think we heard a lot of things. I think
24 we've seen some things that, to me, make a lot of sense,
25 and some other things that maybe are going on in other

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1 states that will help us draft legislation that will
2 work.

3 I personally think it's time that we get a
4 bill, a medical marijuana bill, before the legislation for
5 a vote, and I, again, thank everyone for being here
6 today. Thank you, Chairman.

7 REPRESENTATIVE BAKER: Thank you. We have a
8 good representation, cross-section of the Commonwealth
9 here. We have Members here at the front and also in the
10 -- we have some Members in the front row here as well.
11 We've run out of space up here.

12 But let's begin with our first testifier,
13 Jeremiah A. Daley, executive director of the Philadelphia
14 Camden High-Intensity Drug Trafficking Area. Welcome,
15 sir.

16 MR. DALEY: Good morning, Mr. Chairman.

17 REPRESENTATIVE BAKER: You may proceed when
18 you're ready.

19 MR. DALEY: Thank you. Good morning, again,
20 Chairman and Chairman Baker.

21 MR. DYMEK: Your mike is not on.

22 MR. DALEY: The mike is not on. I would say
23 it's on. Good morning, again, Chairman Marsico and
24 Chairman Baker, Minority Chairman Petrarca and Fabrizio,
25 and Members of the Judiciary and Health Committees.

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1 I am Jeremiah Daley, and I'm the executive
2 director of the Philadelphia Camden High-Intensity Drug
3 Trafficking Area. HIDTA, as it's known for short, is a
4 federally-funded program authorized under the Office of
5 National Drug Control Policy since 1989.

6 The office has established 28 regions around
7 the nation, regions that have been designated by the
8 director of ONDCP, the centers of illegal distribution,
9 production, cultivation, transportation, and abuse of
10 controlled substances.

11 There are three counties in Pennsylvania that
12 have been so designated by ONDCP: Philadelphia, Chester
13 and Delaware Counties, all in the south-eastern part.

14 I've submitted a written prepared testimony for
15 the Committee Members to peruse. And in the interest of
16 your time and allowing time for questions, I'll just
17 summarize the testimony that I've given in that written
18 statement this morning in the hope that we can get the
19 most information as possible.

20 I first and foremost want to thank the
21 Committee for allowing me to testify about this crucial
22 issue and the impact of compassionate youth programs where
23 medical marijuana programs in other states where either
24 legislation or voter referendum have permitted persons
25 effected by certain illnesses or conditions or those who

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1 care for them to cultivate, possess, consume, or
2 administer marijuana and products derived from marijuana
3 or infused with marijuana in an effort to curb or control
4 the effect of those maladies.

5 I'm not here to express any hard and fast
6 oppositions to the provisions of therapeutic use of
7 marijuana. Let me say that upfront. People with serious,
8 debilitating, life-impairing diseases and conditions need
9 whatever treatment is available.

10 But I will try to focus on some of the foibles
11 that have occurred in other states where medical marijuana
12 has been in effect and see if I can offer any insights to
13 the Committee that might benefit the Commonwealth if the
14 legislature should choose to go forward with the medical
15 marijuana law.

16 There's lessons to be learned, I guess, as well
17 as some best practices. Next slide, please.

18 REPRESENTATIVE BAKER: There are no slides.

19 MR. DALEY: Oh, okay. At this time, there's
20 23 states and the District of Columbia that have
21 established some provisions for possession and use of
22 marijuana for medical and therapeutic purposes.

23 It seems that no two of these provisions are
24 alike across the country. Some are very highly regulated
25 and restricted in their provisions. Some are pretty much

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1 a free-market state.

2 All, of course, are in contravention of federal
3 law, the Controlled Substances Act of 1970, which
4 prescribes marijuana and its components known as
5 "cannabinoids," and says, "A Schedule I controlled
6 substance has no proven medical value".

7 That said, in some regard, federal regulation
8 to marijuana has been in effect since the Pure Food and
9 Drug Act of 1906 when, at that time, over-the-counter and
10 patent medicines were raising increasing concerns about
11 product safety and efficacy-yielding legislatures across
12 the country to impose and increasingly restricted control
13 at the state level first and then subsequently at the
14 federal level.

15 And now it seems like that process is reversing
16 itself. The state legislatures are taking the vanguard in
17 legalizing and/or permitting medical marijuana exceptions
18 across the country.

19 Our first and probably worst example is
20 California. California has had a medical marijuana
21 provision since the passage of Proposition 215 in the
22 voter referendum in 1996 and has subsequently been amended
23 by Senate Bill 40 in 2003.

24 The medical marijuana program there is the
25 longest and possibly the largest and most contentious of

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1 them all. At this point, California's Department of
2 Public Health develops policy, procedures, protocols,
3 regulations, and forms and sets fees for the counties to
4 issue medical marijuana program participants' user IDs on
5 a voluntary basis.

6 It does not actively regulate the medical
7 marijuana growers, dispensaries, collectives, and
8 cooperatives. In fact, it divests itself of pretty much
9 all enforcement of the law, leaving that responsibility to
10 the state attorney general's office and to the various
11 county district attorneys and municipalities.

12 Since 2004, some 80,000 medical marijuana ID
13 cards, each allowed for one year, have been issued by the
14 state; and most of those have been renewed. In fact,
15 there are an estimated 572,000 medical marijuana users in
16 the state that has created a medical marijuana market
17 valued at \$1.8 billion annually despite the fact that the
18 law does not permit the for-profit commercial cultivation
19 of distribution of marijuana for that purpose.

20 As for those who are using medical marijuana,
21 research from the Golden State indicates that the average
22 user is 32 years old, started using marijuana at age 19,
23 and half or more of those medical marijuana users also use
24 cocaine or methamphetamine.

25 The conditions for which they've applied for

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1 and use marijuana, two percent have cancer, one percent
2 apply later to the symptoms related to HIV and AIDS, and
3 94 percent apply because of chronic or severe pain, a
4 condition for which cannabis is not particularly well-
5 known to be effective.

6 I won't call the situation in California a
7 return of the Wild, Wild West, but one thing seems
8 apparent. The absence of a clear regulatory process has
9 led to a chaotic marijuana marketplace there.

10 Since SB 40 was passed, a plethora of criminal
11 and civil actions seeking clarity on the law have been
12 filed and heard resulting in a quagmire of conflicting
13 decisions by courts at the state and federal levels.

14 What also seems clear is that the state's
15 decision permitting cannabis to be used upon a doctor's
16 recommendation are but the first steps to
17 commercialization, decriminalization, and, ultimately,
18 full legalization of marijuana for recreational use.

19 The huge profits generated by these stores and
20 the value of their inventory presented dangerous, that the
21 source has become a magnet for crime, which jeopardizes
22 the safety of nearby residents and especially children.

23 Adding to this issue, it's not exactly clear
24 what is a dispensary. In California, it does not have to
25 be in a fixed location. Mobile delivery of medical

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1 marijuana and products is permitted. And some dispensary
2 operators operate exclusively from vehicles.

3 This lack of clarity as to who is permitted to
4 do what with regards to medical marijuana in California is
5 also frustrating the district attorneys there.

6 When it comes to the enforcement of the state's
7 law, California's local prosecutors lack either the
8 support or resources to prosecute commercial operations,
9 according to one.

10 The federal government's somewhat schizophrenic
11 stance doesn't help matters either. In 2009, the recently
12 retired Attorney General Eric Holder issued guidance to
13 federal law enforcement. The DOJ would not aggressively
14 pursue criminal prosecutions for certain activities
15 involving marijuana and states that had medical marijuana
16 laws in effect.

17 With those on the ground in California, they've
18 found this permissive atmosphere conducive to
19 exploitation, and a crack-down by the four U.S. attorneys
20 in the state began.

21 Benjamin Wagner, the U.S. Attorney for the
22 Eastern District of California, put it well, "Large
23 commercial operations cloak their money-making activities
24 in the guise of helping sick people when, in fact, they
25 are helping themselves."

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1 So the more pernicious aspects of
2 commercialization have been reported following the release
3 of the sampling of Colorado's commercial marijuana
4 operations.

5 The 2014 examination of 600 strains of
6 marijuana cultivated by dozens of growers identified three
7 significant conclusions: Commercially-produced marijuana
8 is far more potent than naturally-occurring pot. The THC
9 levels, the component marijuana that creates the euphoric
10 psychoactive effects, upwards of 30 times as great.

11 At the same time, very low levels of
12 cannabimimetic, I will always mispronounce that word,
13 cannabimimetic, the component for which some evidence
14 exists of being a therapeutic value with persons with some
15 neurological, neuromuscular, and emotional disorders, were
16 detected in most samples, as low as one tenth of one
17 percent.

18 And lastly, much of the marijuana contains
19 significant levels of contaminants; specifically mold,
20 fungi, heavy metals, and pesticides. I don't find this
21 terribly surprising because it's all about making money.

22 The producers of marijuana, commercial
23 producers, are relying on growing techniques that maximize
24 harvest, maximize THC potencies that produce a good high,
25 and maximize profitability.

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1 Said another U.S. attorney in California,
2 "California is exploiting not just marijuana, but all the
3 serious repercussions that come with it, including a
4 significant public safety issue and, perhaps, irreputable
5 harm to our youth".

6 Among other states with some significant
7 history are Colorado, Oregon, and Michigan. My colleagues
8 at the Rocky Mountain High have undertaken an examination
9 of marijuana's impact in Colorado where medical marijuana
10 has been available since 2001.

11 Up until 2008, the medical marijuana in
12 Colorado was fairly limited. About 6,000 people had
13 applied for permits, and the impact was relatively
14 negligible.

15 But a 2007 court ruling looked at provisions
16 setting a maximum of five patients per caregiver combined
17 with federal government announcement that it would not
18 aggressively enforce federal laws set the stage for an
19 explosion of new medical pot applicants and dispensaries;
20 41,000 users registered at the end of 2009, 900 registered
21 as caregivers, one with 1,200 patients by himself by mid
22 2010.

23 Later that year, Colorado's legislature
24 authorized commercial dispensaries to act as medical
25 marijuana centers. And by year's end, 532 dispensaries

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1 were licensed; and 108,000 patients registered, 94 percent
2 reporting the major complaint being severe pain as a
3 qualifying reason.

4 As of October of last year, the first full year
5 of legalized recreational marijuana in Colorado, there
6 were nearly 112,000 registered medical marijuana users or
7 2.1 percent of the state's population.

8 Impacts of this enormous growth in the
9 marijuana industry on Colorado's traffic safety and youth
10 and children have been chronicled. Traffic fatalities
11 involving operators testing positive for marijuana have
12 doubled between '07 and '12. In that same period, most
13 drug-driving arrests involved marijuana with 25 to 45
14 percent involving marijuana alone.

15 Youth access to marijuana appears to have
16 increased as well. In 2012, Colorado youth between 12 and
17 17 years old have reported being current marijuana users.
18 1 in 10 were found to be 40 percent higher than the
19 national averages.

20 Drug-related school suspensions and expulsions,
21 a vast majority being from apparent marijuana violations,
22 increased fourfold between school years 2008 and 2011.

23 Even younger children are endangered. The
24 number of marijuana-related exposures of children from
25 zero to five years of age increased 268 percent from 2006

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1 to 2013.

2 The potency of marijuana has also skyrocketed
3 as THC levels soared from an average of 4 percent to over
4 12 percent on average between 1995 and 2013.

5 Consequences are also noted in the
6 increase of marijuana related to emergency room visits, up
7 57 percent from 2011, 2013, and hospital admissions up 82
8 percent from 2008 to 2013.

9 The impacts are not limited to
10 Colorado or California either. Highway interdictions of
11 Colorado and California medical marijuana destined for
12 other states increased almost 400 percent between 2008 and
13 2013, while partial treatment interdictions, those sent by
14 U.S. Mail alone, not FedEx, not UPS, jumped 1,280 percent
15 during that same period. Those parcels were destined for
16 33 other states, including Pennsylvania.

17 Two neighboring state's attorney
18 generals in Oklahoma and Nebraska are going so far as to
19 file suit against Colorado citing that the commercialized
20 medical marijuana system there violates the Supremacy
21 Clause of the United States Constitution, and the matter
22 is under review by the Supreme Court.

23 Other states with extended experience
24 and a significantly large percentage of their population's
25 registered medical marijuana users include Oregon,

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1 Washington, Maine, and Michigan.

2 All those states have experienced
3 similar issues with the operation and regulation of
4 dispensaries, the lack of consistent registration of
5 patients, and a diversion of product to nonapproved users
6 and other states, according to my fellow HIDTA directors
7 in those states.

8 Not much information is available yet
9 from our closest neighboring states, Delaware, Maryland,
10 New Jersey, and New York, who have been enacted, but in
11 most cases not implemented their medical marijuana
12 provisions.

13 Without getting into a whole lot of
14 detail, none of Delaware, Maryland, or New York is really
15 operational yet; but New Jersey's is. They registered
16 nearly 1,700 medical marijuana users. That law became
17 effective in 2010 but kind of stalled because of a dispute
18 between the governor and the legislature there and
19 licensing and placing alternative treatment centers.

20 As of late 2014, though,
21 three nonprofit alternative treatment centers are now
22 operating, and three more are pending. No additional
23 applications are being accepted at this point.

24 I would note that we have never seen
25 the diversion of New Jersey medical marijuana to our

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1 region, as closely regulated provisions of their program
2 limitations to two ounces of marijuana every 30 days.
3 Also, qualifying minors are allowed only to be dispensed
4 cannabis-infused edible projects, not actual leafy
5 marijuana.

6 In summary, I certainly want
7 Pennsylvanians who are impacted by diseases and conditions
8 that cause great degradation of their quality of life to
9 have access to the most effective forms of treatment
10 available.

11 However, at the same time, we also
12 have a responsibility to ensure that the quality of life
13 for all citizens of the Commonwealth is not adversely
14 impacted and to be especially careful to protect our
15 children from exposure to marijuana and its marketing.

16 To these ends, I have several
17 recommendations. First, grow operations and dispensaries
18 should be limited in number, widen geographically
19 dispersed, and nonprofit in nature with operators who are
20 carefully vetted and limited in the amount of marijuana
21 products that can be cultivated, stockpiled, and
22 dispensed.

23 Secondly, mobile delivery should be
24 prohibited, and caregivers should be limited in the number
25 of patients for whom they may act in such capacity.

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1 Third, municipalities, as well as the
2 Commonwealth, must be empowered to license and set zoning
3 requirements for such operations and any marketing or
4 advertising they conduct be regulated.

5 Next, physicians must receive
6 continuing education on the therapeutic uses for cannabis-
7 containing products on an ongoing basis and must have and
8 maintain a bona fide, ongoing doctor/patient relationship
9 of patients to whom referrals to a dispensary are made.

10 Mandatory registration of qualified
11 patients and the issuance of tamper-proof photo ID cards
12 must be included with annual renewal requirements that
13 include continuing physician certification of their
14 needs.

15 A defined list of illnesses and
16 conditions for which medical marijuana is permitted to be
17 dispensed and a defined maximum amount to be dispensed per
18 month should be established by the Commonwealth's
19 Physician General in concert with the Department of Drug
20 and Alcohol programs.

21 The Attorney General and the county
22 district attorney should be empowered to prosecute all
23 persons or entities who are in violation of the medical
24 marijuana provisions that may be enacted and established
25 and civil and criminal penalties for violations

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1 established as well.

2 Periodic reassessment of the law and
3 regulations must occur, and some subset provisions should
4 be built into the law that would require reauthorization
5 after no more than five years of being in effect.

6 Finally, any revenues collected from
7 taxes or fees that might be imposed should be used only to
8 provide the necessary implementation, administration,
9 enforcement, and monitoring the law; and any excess
10 revenues be appropriated for substance abuse prevention
11 and treatment purposes.

12 I would urge this Committee and our
13 legislation to continue the measured approach in
14 considering whether medical marijuana is right for
15 Pennsylvania and to give careful consideration to the
16 lessons learned from other states which have had such
17 difficult times with their programs.

18 With that said, I would welcome any
19 questions that the Committee's Members may have of me. I
20 thank you very much for your attention this morning.

21 REPRESENTATIVE BAKER: Thank you very much,
22 sir, for your testimony. I am particularly compelled to
23 comment on the impacts on Page 5 that you mentioned
24 regarding the enormous growth in Colorado's traffic
25 safety, youth and children traffic fatalities, and drunk

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1 driving arrests.

2 Youth access to marijuana appears to have
3 increased dramatically. I'm very concerned about the
4 unintended consequences that have resulted there in
5 Colorado. I presume you've been in contact with your
6 HIDTA counterparts in Colorado.

7 REPRESENTATIVE MARSICO: In Colorado,
8 California, Oregon, Washington, Michigan, and all the
9 other states. In pretty much everywhere that there is a
10 medical marijuana law in effect, there was also a High-
11 Intensity Drug Trafficking Area Urban. We communicate
12 regularly.

13 I want to make sure we don't confuse, you know,
14 coincidence and correlation and causation. The High-
15 Intensity Drug Trafficking Areas were, by and large, in
16 place long before the medical marijuana laws were. But
17 none the less.

18 REPRESENTATIVE BAKER: Thank you. I
19 appreciate your cautionary summation in terms of moving
20 forward with consideration of this. Thank you very much.
21 Any other questions? Representative DeLissio?

22 REPRESENTATIVE DeLISSIO: Thank you,
23 Mr. Chairman. Just quickly, if they're in here, if not,
24 maybe they can be submitted subsequently. Those
25 percentages, increases that you quoted, percentage

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1 increases in traffic deaths, what the Chairman was just
2 saying, are there numbers that go with that, please?

3 REPRESENTATIVE MARSICO: Yes. Most of that
4 information was derived from a report at the Rocky
5 Mountain High-Intensity Drug Trafficking Area dealing with
6 the impact from Colorado. That's the source of
7 information for them. And I will gladly provide the
8 Committee with a copy of that electronically.

9 REPRESENTATIVE DeLISSIO: Thank you. Because
10 you can have two instances that double to four, and that's
11 a 50-percent increase. So some of the percentages sounded
12 -- I'd be curious as to what the absolute numbers are.

13 MR. DALEY: Understood.

14 REPRESENTATIVE DeLISSIO: Thank you.

15 REPRESENTATIVE BAKER: If you would be so kind
16 to provide that information to us at your convenience, we
17 would love to see that.

18 MR. DALEY: Yes, sir.

19 REPRESENTATIVE BAKER: Thank you, sir.
20 Executive director of the Health Committee and legal
21 counsel, Whitney Krosse.

22 MS. KROSSE: I think this is a follow-up to
23 actually the line of questions that both Representatives
24 have asked you. Do you know if the marijuana-related
25 exposures for the children from zero to five has increased

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1 substantially, is that related to the use by children
2 after the development of -- I'm loud enough, anyway. Is
3 that related to compassionate use, the CBD oil exposure?
4 Is that what that's -- or --

5 MR. DALEY: From my understanding of it, the
6 majority of it extended from accidental exposures rather
7 than therapeutic exposures, primarily with edibles. You
8 know, the pastries, the cookies, the candies, things like
9 that that are attractive to children. I left some slides
10 here that show some illustrations of how it's being
11 marketed in California and Colorado and other places so
12 that it mimics candy.

13 MS. KROSSE: I think a lot of us have heard
14 those news reports. I just want to know if they were only
15 accidental exposures or these were marijuana-related
16 exposures.

17 MR. DALEY: These are primarily accidental
18 exposure. And just as an aside, one of the data points
19 that I didn't put in the report was that veterinary visits
20 have increased as well. Pets are consuming these edibles,
21 too, overdosing as well. And it has become a problem.

22 MS. KROSSE: Thank you.

23 REPRESENTATIVE BAKER: Any other questions?
24 Representative Miller, you can take a mike. That would be
25 great.

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1 REPRESENTATIVE MILLER: Thank you for your
2 testimony. I just wanted to be clear with what you were
3 saying. When I keep hearing "overdosing," of course, to
4 me, I'm thinking life-threatening, the person is, perhaps,
5 not going to make it.

6 And I'm wondering when you keep using
7 "overdosing," are you saying that the overdoses that
8 you're referencing, that people are dying from them?

9 MR. DALEY: No, sir, not at all. To my
10 knowledge, as a result of -- let's phrase it this way:
11 THC intoxication, okay, THC intoxication, to my knowledge,
12 has never been responsible for a death, itself.

13 (Applause.)

14 MR. DALEY: To that end, if I may --

15 REPRESENTATIVE BAKER: Excuse me, sir. We do
16 need to set some construct and rules in this room. We
17 will not -- we will be asking you to leave, or we will
18 have security escort you out of the room if there is
19 another outburst of that kind of applause, if there are
20 boos, if there's any kind of -- we're going to have a very
21 civil testimonial --

22 UNIDENTIFIED SPEAKER: Neanderthal,
23 Neanderthal.

24 REPRESENTATIVE BAKER: Please have this
25 gentleman removed. We will not have outbursts. We're

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1 going to have a civil construct hearing in terms of the
2 testimony.

3 THE SECURITY OFFICER: The gentleman here?

4 REPRESENTATIVE BAKER: Yes.

5 UNIDENTIFIED SPEAKER: Since you're taking him
6 out, I'll go, too. There's a conflict of interest here.

7 UNIDENTIFIED SPEAKER: There's no -- there is
8 absolutely no interest, no other testimony to contradict
9 this or any other point of view up here. This is
10 ridiculous. Get with the program. And look these kids in
11 the eye who need help now, and tell them that they can't
12 have this for their epilepsy. Look them in the eye. Go
13 ahead, applaud. Come on with me. This is a farce.

14 REPRESENTATIVE BAKER: I'm very, very sorry,
15 Mr. Daley. Yes, Representative Miller.

16 REPRESENTATIVE MILLER: Thank you,
17 Mr. Chairman. One last question. Sir, on Page 4 of your
18 testimony, you referenced a quote saying that "large
19 commercial operations cloak their money-making activities
20 and the guise of helping sick people when, in fact, they
21 are helping themselves."

22 In my mind, perhaps you can correct me, in many
23 cases, my thought is that's no different than many
24 pharmaceutical products and companies that are in the same
25 game of helping sick people. Can you tell me why,

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1 perhaps, I'm wrong and this quote would only be used in
2 the sentence that you meant it in relation to marijuana?

3 MR. DALEY: Well, that sentence, in fact, is a
4 quote from a United States attorney in California. It's
5 not my words. It's hers, but I thought they were pretty
6 telling words.

7 What we have seen in the states that have had
8 the longest history with medical marijuana as well as now
9 legal marijuana in a few of these states as well is
10 exploitation, basically, of the marketplace and the lack
11 of controls that were placed on it.

12 I am a capitalist. I do not have any issue
13 with people making money. I do have problems with people
14 making money that disregard the interests of others in the
15 community, and I think really that's what I want to
16 ensure, I hope that the legislature will ensure, is that
17 the Commonwealth's interest as a whole, the individual
18 community members of the citizens of the Commonwealth,
19 their interests are protected as well as any other
20 commercial interests that have evolved, and that the
21 appropriate level of regulation and oversight is put in
22 place to ensure that we don't have a Wild, Wild West kind
23 of market like is going on in Colorado and California.

24 REPRESENTATIVE MILLER: Thank you, sir.

25 REPRESENTATIVE BAKER: You're welcome,

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1 Representative Miller. Once again, I apologize for the
2 outbursts. If you could provide those statistics for us,
3 we would really appreciate it.

4 A particular concern I have is the traffic
5 fatalities involving operators testing positive for
6 marijuana that doubled between 2007 and 2012, very, very
7 concerned about that drunk-driving problem.

8 MR. DALEY: If I may, sir, that is I guess
9 counter-intuitive because overall, nationally and in
10 Colorado both, traffic fatalities as a whole are
11 declining. So those numbers probably, to some degree,
12 under represent the significance or the impact of the
13 drunk-driving effect involving marijuana in those states.

14 REPRESENTATIVE BAKER: Thank you very, very
15 much. Any other questions? Sara, Executive Director.

16 MS. SPEED: You may not have the answer to
17 this, but you touched on adulteration of the product that
18 was beginning. Are you aware of any states that are
19 arguing like quality control checks on the product,
20 itself? We heard a lot of testimony about who and how and
21 where but not a lot about checking the product before it
22 goes out to people.

23 MR. DALEY: From what I have read, New Jersey,
24 Connecticut, New York, and I can't swear to Michigan maybe
25 doing it, but certainly those three that I mentioned have

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1 implemented quality control requirements as part of the
2 regulations.

3 MS. SPEED: Thank you.

4 REPRESENTATIVE BAKER: Thank you. Thank you
5 very much, Mr. Daley. We appreciate your testimony and
6 your proffering any future documents in the future.

7 MR. DALEY: Thank you very much, Chairman.
8 Thank you, all.

9 REPRESENTATIVE BAKER: Thank you very much. I
10 want to applaud the rest of the folks in the room. The
11 other two hearings that we've had have been very civil and
12 very well-prepared, and we've had testimonies that have
13 been tremendous from all sides of this issue; and I want
14 to applaud every one of you for respecting the civil
15 process by which we seek information on many issues. So
16 thank you very, very much.

17 Our next testifier -- and the reason -- one of
18 the reasons why we, particularly today, we are trying to
19 stay on schedule is we have a number, six or seven Skypes,
20 and so we're -- people are around the country waiting to
21 make their presentations in a timely fashion.

22 And the next person we have will be Skyping
23 with us here. Hopefully everything is working fine.
24 Dr. Alan Shackelford. Dr. Shackelford, are you with us?
25 Hi, Dr. Shackelford. Can you hear us? We can't hear

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1 you. So please stand by, and hopefully -- is your mike
2 on, sir? I'm sorry. We're still not being able to hear
3 you. Dr. Shackelford? Please stand by. The visual is
4 good; the sound, nonexistent.

5 Due to technical difficulties, we are going to
6 try to move to the next testifier, hopefully be able to
7 come back to Dr. Shackelford.

8 The next person, when you're ready, will be
9 Dr. Amy Brooks-Kayal, President of the American Epilepsy
10 Society. I see you smiling. I hope we can connect with
11 the doctor. We cannot reach the second doctor,
12 unfortunately.

13 We have Karmen Hanson available or Deborah
14 Moss? Why don't we go to Deborah Moss since Deborah is
15 here. Thank you, Deborah. Deborah Moss, M.D., MPH,
16 Pennsylvania Chapter of the American Academy of
17 Pediatrics. Welcome. You may proceed.

18 DR. MOSS: Okay. Thank you. I do have slides
19 if they're ready. Otherwise, I can just --

20 MS. KROSSE: We can set them up.

21 DR. MOSS: I can get started. Thank you so
22 much for the opportunity to be --

23 REPRESENTATIVE BAKER: The computer is
24 crashing. I'm sorry. We don't have any slides. The
25 Members will be provided if they don't have them already.

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1 MS. KROSSE: They do. The slides are in the
2 testimony.

3 REPRESENTATIVE BAKER: The slides are here.
4 You may want to grab your presentation then. You may
5 proceed.

6 DR. MOSS: Thank you. My name is Dr. Deborah
7 Moss. I'm a pediatrician --

8 REPRESENTATIVE BAKER: Closer, please.

9 DR. MOSS: -- a pediatrician in the Division
10 of General Academic Pediatrics at Children's Hospital in
11 Pittsburgh. I've been in practice for over 20 years, and
12 I'm also speaking on behalf of the Pennsylvania Chapter of
13 the American Academy of Pediatrics. I sit on the
14 Executive Board for that Chapter.

15 I would like to refocus my comments
16 today on the sort of pediatric impact of potential
17 legislation around medical marijuana.

18 My first slide was really just showing
19 a picture of the states that had passed laws related to
20 medical marijuana just to highlight the issue. This is
21 sort of a national legislative concern that we're
22 grappling with as a country, and the next slide is really
23 showing the number of states and where they're located
24 that are considering laws related to medical marijuana.

25 So it's really a critical topic and a

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1 hot topic and something that is very important for us to
2 become informed and educated about. So that's what I
3 hope I can provide some information to you about and the
4 difficult decisions that you have to make.

5 I want to start with some definitions
6 and clarifications, because there's a lot of terminology
7 that's thrown around. Sometimes it's used inconsistently,
8 and it can be confusing when we're trying to think about
9 specifics.

10 So "marijuana" and "cannabis" are
11 terms used interchangeably to refer to the specific plant
12 called cannabis ativa -- sativa, excuse me. That is one
13 species of many species and subspecies of the cannabis
14 plant.

15 The cannabis plant, itself, is made up
16 of numerous, hundreds of chemical compounds and their
17 derivatives. One of which is tetrahydrocannabinol, which
18 is also known as THC, a medicine chemical compound within
19 the plant that has psychoactive effects and some of the
20 potential medicinal effects.

21 There are also -- I don't have it here
22 on the slide, but cannabinoidal is an oil extract from the
23 plant that is also thought to have medicinal effects. So
24 those are two of the chemical compounds.

25 And marijuana, the plant, has really

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1 been used for medicinal purposes and recreational
2 purposes, and I'll be sort of focusing on the medicinal
3 potentials.

4 The next clarification slide really
5 has to do with making sure we're clear on the difference
6 between medical marijuana and cannabinoids. Medical
7 marijuana is really the first use of the plant for
8 medicinal purposes for medical conditions. Its
9 availability for doctors to recommend is determined by
10 popular vote.

11 In contrast to cannabinoids, which are
12 pharmaceutical products, they're synthetic formulations of
13 the chemical compound THC, tetrahydrocannabinol. And
14 those products, which are synthetic, are FDA-approved. So
15 there's sort of one big difference.

16 The next set of differences is sort of
17 how they're used. Medical marijuana is primarily
18 delivered by smoke inhalation, although it can be used
19 orally; and cannabinoids typically are consumed orally.
20 There are two pill forms right now, Marinol and Cesamet,
21 that are capsular pill forms of the pharmaceutical
22 products of cannabinoids.

23 The important point there is that the
24 smoking, as the inhalation or delivery method of medical
25 marijuana, is complicated because it causes a variability

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1 of dosing. So the dosing is really dependent on the
2 inhalation strength of the individual smoking it. So you
3 can't really guarantee or know exactly what dose someone
4 is going to get by the smoking method. Again, medical
5 marijuana is recommended by a physician. Cannabinoids are
6 prescribed understanding the prescribing procedures.

7 The next point is really important
8 that I already alluded to, and that is that medical
9 marijuana is not only -- the dosing is not only an
10 inconsistent variable and unpredictable based on being
11 smoked, the delivery method, but also because it's a
12 plant. The way it's grown, the way it's bred, the way
13 it's cultivated, affects the concentration of the THC
14 component in the plant.

15 So, again, the dosing based on the
16 cultivation of the plant is a variable. So there's two
17 reasons why it's very hard to know what dose someone can
18 get, and it's hard to guarantee whether or not it's going
19 to be at a safe dose or an effective dose.

20 And the final major difference between
21 medical marijuana cannabinoids is that medical marijuana
22 has been difficult to study for a variety of reasons which
23 I'll touch on in a second. So that really its efficacy,
24 its effectiveness in a perfect situation, that's what
25 efficacy is, is really poorly defined because it hasn't

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1 been able to be studied. There are really no vigorous
2 randomized controlled trials of medical marijuana.

3 The cannabinoids, the pharmaceutical
4 products, have been studied; and we do know of their
5 efficacy for a number of medical conditions. In adults
6 only they've been studied, I should just say that.

7 I did want to touch on why it has been
8 so difficult to study marijuana, because this might come
9 up down the road. And partly, marijuana is a Schedule I
10 drug. That's based on the Federal Controlled Substance
11 Act.

12 And a Schedule I drug is classified as
13 such when it is determined that it has a high potential
14 for abuse, it has no currently accepted medical use in the
15 country, and it lacks safety for use as a drug under
16 medical supervision.

17 So for those reasons, it has been
18 determined or classified as a Schedule I drug. But as a
19 Schedule I drug, it's very difficult for researchers to
20 get access to it and study it. We have to sort of jump
21 through a lot of hoops, and so that has been a barrier for
22 our learning about the potential efficacy and safety of
23 medical marijuana.

24 I do want to just back up for
25 one minute and state that there have been a lot of studies

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1 in the cannabinoids, and there's also antidotal data about
2 why we're even having this discussion, that there are some
3 very strong proposed benefits, potential medicinal
4 benefits, of the plant-based, natural marijuana.

5 There's considerable interest in its
6 use as a strong antiemetic, especially when other
7 treatments have failed. It has been used in AIDS Wasting
8 Syndrome, severe pain management, and it has been thought
9 to improve seizure frequency in certain rare and severe
10 seizure disorders.

11 For these reasons, we really do want
12 to find out if it could be helpful to a number of
13 populations of patients who could use it. Unfortunately,
14 really, the data right now isn't in, that we have sort of
15 personal stories, self-reports, antidotes, and some
16 nonrigorous studies. So that really is, I think, our key
17 limiting factor right now.

18 I will state that we do have a
19 Pennsylvania researcher, Eric Marsh, at Children's
20 Hospital of Philadelphia who was just approved to study
21 medical marijuana for a seizure disorder, and he's doing
22 Phase III trials. So that really will give us some very
23 important information in the near future.

24 So I then want to move on to my final
25 few slides which really try to sort of pull out the issues

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1 from a pediatric perspective about some of the potential
2 risks of medical marijuana. A, we've already stated that
3 there are no published studies. So that's one concern.
4 We just don't know the efficacy of it as a medication in
5 children.

6 Secondly, while there have been some
7 studies done, they've all been done on adults; and we know
8 that children respond differently to medications.

9 One thing that's important to point
10 out, since THC has psychoactive effects, which is effects
11 on the brain, is that children's brains are still
12 developing and forming. So we really don't know how this
13 kind of a substance might impact either positively or
14 negatively the developing brain.

15 There has been some really interesting
16 recent work on adolescent brain development. There have
17 been MRI imaging studies looking at the structure and size
18 of the brain. It really has -- we've learned recently
19 that the prefrontal cortex, that's the front of the brain
20 that really has to do with impulse control, isn't fully
21 formed in its size and structure until the early 20's of a
22 child's life. So that's pretty late. So we really want
23 to be thinking about what could happen to the brain.

24 I will tell you that the American Academy
25 of Neurology put out a statement that I'll just read and

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1 quote saying that, "They did not advocate for legalization
2 of marijuana-based products for use in neurologic
3 disorders at this time, as further research is needed to
4 determine the benefits and safety of such products. This
5 is of paramount importance when marijuana-based products
6 are used in patients with underlying neurologic disorders
7 and particularly in children whose developing brains may
8 be more vulnerable to toxic effects of marijuana." So
9 that was their cautionary statement.

10 There have been other studies about
11 marijuana's use and its effect on attention, memory,
12 motivation. And most recently, there have been IQ studies
13 showing that there is a dose/relationship effect between
14 the duration of marijuana use, the intensity of use, and
15 the diminishment of IQ levels. So that has been a
16 concern.

17 And the last concern, again, the early
18 studies have raised questions about is that marijuana
19 usage in recreational use has been associated with
20 increased rates of supereffective disorder, so thought
21 disorders.

22 The other issues from a pediatric
23 perspective have already been raised by the previous
24 speaker. Just to reiterate, that marijuana, especially in
25 edible forms, has been associated with increased poisoning

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1 risks.

2 And the risk of poisoning, as the
3 previous speaker said, there have been no fatalities; but
4 there are situations in which case are attacks, if they
5 lose their balance, they have respiratory depression, they
6 have low blood pressure, and they have had to be treated
7 for that. And also, there have been some anxiety and
8 panic attacks and hallucinations as a result of
9 overdosing. So it's something to be mindful of.

10 And part of the issue is the
11 packaging, that unlike a medication that is under
12 regulation has to be in a safety-approved package. These
13 are not safety-approved packages, so the overdosing
14 potential is a bit greater.

15 The other two issues are that there is
16 a risk of smoking. In general, once you combust
17 something, the risk of smoking on the lungs is proven to
18 be negative. So just smoking marijuana has its own
19 pulmonary or lung effects. And there really haven't been
20 any FDA-approved medicines that are taken by inhalation
21 for that reason.

22 And really, to finish, I just wanted
23 to read the American Academy Pediatric's Physician
24 Statement to summarize the pediatric perspective. They
25 have three points. First, the American Academy of

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1 Pediatrics opposes medical marijuana outside the
2 regulatory process of the U.S. Food and Drug
3 Administration.

4 The second is that the Academy
5 recognizes that antidotal accounts have shown that certain
6 marijuana compounds could benefit some children of chronic
7 life-limiting debilitating conditions.

8 And for this reason, the American
9 Academy of Pediatrics strongly supports research and
10 development of pharmaceutical cannabinoids and supports
11 the review of policies promoting research on the medical
12 use of these compounds.

13 The AP further recommends changing
14 marijuana from a drug enforcement agency Schedule I to a
15 Schedule II drug to allow its more wide -- to allow
16 greater study of this substance.

17 And finally, in states where marijuana
18 is sold, either for medical or recreational purposes,
19 regulations should be enacted to ensure that marijuana in
20 all forms is distributed in child-proof packaging to
21 prevent accidental ingesting.

22 I think that's it for my comments, and
23 I thank you for your attention; and I welcome any
24 questions.

25 REPRESENTATIVE BAKER: We do have time for

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1 maybe one or two questions. Just to clarify your
2 position, really, the position of the American Academy of
3 Pediatrics and the American Academy of Neurology, it
4 sounds like you're on the same page with the same
5 position, that both the American Academy of Neurology and
6 the American Academy of Pediatrics oppose medical
7 marijuana legalization outside the FDA process. Is that
8 correct?

9 DR. MOSS: That is correct. And I'm not
10 stating a position. I just wanted to provide information.

11 REPRESENTATIVE BAKER: Thank you. Thank you
12 very much. Representative Saccone is recognized.

13 REPRESENTATIVE SACCONI: Thank you,
14 Mr. Chairman. Thank you for your testimony. I just want
15 to make sure I understand this, not being a medical
16 person. But you said in here that possible risks include
17 -- that marijuana has been associated with the decrease in
18 IQ and increased rate of supereffective disorders. Is
19 that based on studies that have been done, considering not
20 much studies happened?

21 DR. MOSS: Correct. That's based on adult
22 studies, and association doesn't prove causation. So it's
23 an early form of study in which a randomized controlled
24 child would need to be -- to further assess the strength
25 of that association.

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1 REPRESENTATIVE SACCONI: So some preliminary
2 studies have been done, and that's the risk associated
3 with that?

4 DR. MOSS: Correct. Those are the risks that
5 have been raised about medical marijuana.

6 REPRESENTATIVE SACCONI: Thank you very much.

7 DR. MOSS: You're welcome. I didn't mention
8 the diversion, which the previous speaker did. I will say
9 for adolescents, diversion is a risk because in states
10 where they have legalized medical marijuana, there have
11 been studies of adolescents in outpatient substance abuse
12 programs; and in anonymous surveys, they've recorded about
13 74 percent of those adolescents have used someone else's
14 approved or prescribed marijuana. And that is similar to
15 the rates of the diversion of opiates, even HD medicines.

16 I don't think it has been documented. But if
17 you talk to teenagers, they divert even acne medicines.
18 So they get it to find or sell it, sometimes to trade it.
19 So, again, the diversion is an issue that I forgot to
20 mention.

21 REPRESENTATIVE BAKER: Representative Saccone,
22 are you complete?

23 REPRESENTATIVE SACCONI: Yes. Thank you.

24 REPRESENTATIVE BAKER: Thank you, sir.
25 Representative Krieger.

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1 REPRESENTATIVE KRIEGER: Thank you,
2 Mr. Chairman. Thank you, Doctor. I'm interested in the
3 distinction you're drawing between cannabinoids and
4 medical marijuana. Let me just ask it this way: The
5 typical person comes into my office is often a person that
6 says I have a child that has a seizure disorder and this
7 will help.

8 Is there anything that medical marijuana will
9 produce a positive effect that the cannabinoids will not?
10 Maybe that's another way of asking. What is the
11 distinctions there, and how are they used differently?

12 DR. MOSS: Right. As I understand it, the THC
13 component of the plant has been formulated in a synthetic
14 product that has been studied and has been proven to be
15 safe and effective and, therefore, approved by the FDA.
16 That's THC.

17 The cannabidiol, CBD, which is the extract of
18 oil from the plant, I don't believe that has been formed
19 into a synthetic product yet; but it's being studied, and
20 like the study in Philadelphia, is looking at -- it's a
21 plant-based extract.

22 So it's not a -- there's no synthetic form of
23 that chemical compound of the plant, to my knowledge. So
24 they are studying the plant-based form of it, so not a
25 cannabinoid, which is synthetic, but a plant-based form of

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1 the oil for seizers, which is different from THC, which
2 has not been used for seizers. Did I clarify that? It is
3 a little bit confusing.

4 REPRESENTATIVE KRIEGER: I wish I understood
5 what you said.

6 DR. MOSS: I can try one more time.

7 REPRESENTATIVE KRIEGER: Maybe I could just be
8 more straightforward. If cannabinoids are available for
9 this parent that has this child with a seizer disorder, is
10 there any reason we should legalize marijuana for that
11 particular use?

12 DR. MOSS: The cannabinoids are the
13 pharmaceutical form of THC, which is not recommended for
14 seizers. It's the oil of the plant that is not in
15 synthetic form for the seizure. So if you use, let's say,
16 Marinol, which is a synthetic FDA-approved form, that
17 doesn't have the right chemical compound of what we think
18 works for seizures.

19 So I don't think somebody would prescribe an
20 FDA-approved synthetic THC form for a seizure disorder.
21 So there is no FDA-approved drug that is based on a plant
22 compound that is for seizure disorders yet.

23 REPRESENTATIVE KRIEGER: So as of right now,
24 there wouldn't be some efficacy in extending this to
25 medical marijuana for that particular use?

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1 DR. MOSS: Oh.

2 REPRESENTATIVE KRIEGER: Or is there research
3 being done to meet that as a synthetic?

4 DR. MOSS: Yes. Well, there's research being
5 done to see if medical marijuana in the form for seizures
6 is effective, yes.

7 REPRESENTATIVE KRIEGER: Thank you,
8 Mr. Chairman.

9 REPRESENTATIVE BAKER: Chairman Marsico.

10 REPRESENTATIVE MARSICO: Thank you, Doctor,
11 for being here. Going back to those studies that you
12 mentioned in Pediatric at Philadelphia Children's, do you
13 know when they started it and how long it will take for
14 those?

15 DR. MOSS: You know, I just talked to the
16 researcher in preparation for this, but I didn't ask that
17 question. I don't know the answer. I would have to get
18 it to you and send it to you. Would that be okay?

19 REPRESENTATIVE MARSICO: That would be great.

20 REPRESENTATIVE BAKER: Thank you.
21 Representative DeLissio.

22 REPRESENTATIVE DeLISSIO: Thank you. Doctor,
23 I beg your pardon. It's my understanding that even in
24 pharmaceutical studies -- we talk about research and
25 checking things out. It's my understanding even in

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1 pharmaceutical studies that they focus on adults. They
2 don't focus on older, older adults that are in long-term
3 care, and they don't focus on pediatrics. So do we have
4 any confidence that as they explore this, they're going to
5 focus on either of those groups that they benefit?

6 And I think that's one of the challenges that
7 medical providers have now, is that we really don't know,
8 for even existing approved FDA drugs, what these impacts
9 are, because they're not the age cohorts that are tested
10 historically and traditionally.

11 DR. MOSS: Yes. That is an excellent point,
12 and you're right, we cannot possibly test every drug for
13 every situation. So lots of medicines that we use are
14 off label from the standpoint of if I'm treating a
15 one-year-old and studies have been done for
16 one-and-a-half-year-olds and up, I mean, that's sort of
17 off label. So you have to make a medical decision if
18 that's -- if you have enough information and there's
19 enough risk/benefit ratio that you feel comfortable
20 prescribing that.

21 So in the case of medical marijuana, I think
22 the issue has come up because it is a CNS or a brain-
23 related effect and that the pediatric brain is like in
24 evolution, and I think that's what makes it sort of this
25 focus on kids as opposed to another drug that might have

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1 more like liver effects; and that's not so different from
2 kids to adults. So I think that has been the issue
3 raised, but that's one of my questions as well.

4 REPRESENTATIVE DeLISSIO: Thank you.

5 REPRESENTATIVE BAKER: Thank you.

6 Representative Cox.

7 REPRESENTATIVE COX: Thank you for your
8 testimony. As I've been reading and listening to these
9 hearings over the last few weeks, I've been in
10 Philadelphia, Harrisburg, and now here, we've heard from
11 different backgrounds, I think you're one of the only
12 individuals from the medical perspective testifying
13 today. I wanted to ask you this question for that
14 reason.

15 Patients are using this. I received a call
16 from someone yesterday on my way to Pittsburgh. Patients
17 are using this. Every doctor I say that to does what you
18 just did, nods saying, "Yes, we know".

19 Doctors have an increasing concern that their
20 patients are already using it, and doctors that I've
21 spoken to have had an increasing request that we do
22 something with this, even outside the boundaries of the
23 FDA in regards to packaging or other limitations, labeling
24 THC levels, something so that we at least have some
25 guidance, because right now, they're getting marijuana

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1 from wherever; and the make-up, the chemical make-up, the
2 THC levels vary.

3 An individual that I talked to yesterday said,
4 "I got a product first. They worked phenomenally. That
5 particular supplier disappeared, maybe arrested, who
6 knows." They had to find another source.

7 That source did not supply the same type of
8 product, could not find a way to make the new product
9 work; kind of gave up on it, and they had a product that
10 was working to reduce -- which is a mother with a child
11 with seizures -- reduce seizures from, like, 700 a day
12 down to less than 100 on a consistent basis for a three-
13 month period.

14 Again, antidotal, no real studies in that
15 sense. But all the other Members of the legislature are
16 hearing a lot of real-life stories. So my question is
17 this: If we found a way to allow cannabis to be grown in
18 Pennsylvania, produced in Pennsylvania, regulated, tested
19 for THC levels and other things like that, limited the
20 packaging as you and other testifiers have requested, not
21 allowed it to be packaged like other types of foods and,
22 you know, kind of the attractive nuisance kind of idea
23 that, hey, this is something that kids would look at and
24 say, this looks like a candy bar, it looks like something
25 tasty, if we take all those steps as a legislative body

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1 and we provide you, as physicians, with the ability to
2 know what it is you're giving individuals, do you think --
3 as a body of physicians, do you think that would be
4 something that would be beneficial regardless of the FDA's
5 stance or movement or not movement on this issue?

6 DR. MOSS: Right. I think that's a really
7 good question. I think that all of those measures would
8 reduce the potential of risk. And then we are sort of
9 left with the unknown of, you know, what happens after
10 five years of use, let's say.

11 The one thing about pediatrics patients, which,
12 again, I'm sort of in a difficult position, because I
13 also -- like you hear about patients, and I hear about
14 patients; but I need to respond to patient needs and give
15 them the very best treatment possible and don't want to
16 withhold treatment, of course, if it could be beneficial.

17 So I think we're just in an area of unknown,
18 that what if we used this treatment for a period of time
19 and it showed some short-term benefit but long-term had
20 some deleterious consequences.

21 So, I mean, again, to the degree that we can
22 provide evidence-based care, I think it's important.
23 There are obviously lots of situations where there's
24 compassionate use of medications before the evidence can
25 be revealed in extreme situations, and I think that's

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1 something we also need to carefully consider, because that
2 might be an important option in the interval while we're
3 waiting for more specific outcomes.

4 I don't have a great answer. I think that's
5 the challenge right here in this particular issue.

6 REPRESENTATIVE COX: The question I always ask
7 about --

8 REPRESENTATIVE BAKER: Mr. Cox, we're going to
9 try to limit one question per member. We are way behind
10 already.

11 REPRESENTATIVE COX: Mr. Chairman, I
12 understand. This is --

13 REPRESENTATIVE BAKER: Very quickly, one more
14 question.

15 REPRESENTATIVE COX: Because of the limitation
16 of -- I can't say one singular question. But because of
17 her particular background, I wanted to ask these
18 questions.

19 REPRESENTATIVE BAKER: We are trying to get
20 other doctors to testify if we can make that work,
21 though. Go ahead.

22 REPRESENTATIVE COX: So I guess what I keep
23 hearing from patients is, you know, we're not talking
24 about people who have a condition that they believe will
25 actually go away. We're talking about people with Crohn's

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1 Disease, we're talking about people with Parkinson's,
2 Alzheimer's. There's all kinds of conditions that there
3 are suggested. Nonofficial studies have shown there could
4 be some potential here.

5 So many of these are life-threatening or life-
6 altering. So what it's doing is not necessarily curing,
7 but creating a better quality of life.

8 And every single patient I talk to, whether
9 it's for severe pain because of shrapnel lodged next to
10 their spine or whatever, every single patient I talked to
11 said, "Listen, why can't I as a patient with my doctor
12 say, I don't care what the consequences are ten years down
13 the line, I probably am not going to live that long with
14 this condition"? Or like, "My child is having 700
15 seizures a day. What is the long-term effect of that
16 versus reducing that number significantly down to less
17 than 100 or even 50, or 30," I think was the number that
18 she actually used?

19 So that's my question. You know, I understand
20 the long-term drawbacks are unknown; but there's a list a
21 mile long of FDA-approved pharmaceutical products that
22 lawyers around the country have a field day going after
23 saying, "By the way, if you ever took this during the
24 1970s, contact us, and we'll get you a lot of money,
25 because the FDA never should have approved it," et cetera.

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1 So the FDA is not the magic wand of approval as
2 lawsuits around the country will show. Why should we not
3 move forward even without the long-term studies being
4 done?

5 DR. MOSS: Right. And I'll just say three
6 things. First, for the adult conditions that you
7 described, the synthetic pharmaceutical forms of the
8 medicine have been shown to be effective for many of them,
9 not all of them. So that is one. They're already on
10 medicines.

11 And then in terms of the seizure disorder
12 question in young children and why can't we do something
13 for individual patients, I think what the challenge is for
14 the legislators is to balance out what is best for
15 individuals and what is best for the population. So to
16 grapple with those risk/benefit ratios as a legislative
17 body, I think, is your challenge.

18 REPRESENTATIVE COX: Thank you. Thank you,
19 Mr. Chairman.

20 REPRESENTATIVE BAKER: Thank you. Thank you
21 very much, Doctor, for your time and physician statement
22 and all the documentation you provided to the Committee.
23 We really appreciate it.

24 We do have, I understand it's working, with us,
25 it is Karmen Hanson, Program Manager, National Conference

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1 of State Legislatures. Ms. Hanson, welcome. You may
2 proceed when you're ready.

3 MS. HANSON: Thank you, Representative Baker,
4 Representative Fabrizio, Representative Marsico,
5 Representative Petrarca, for the invitation and
6 opportunity to present to the Health and Judiciary
7 Committees today.

8 I am Karmen Hanson from the National Conference
9 of State Legislatures coming to you live from Denver. I
10 have worked on health policy for over 14 years and on
11 medical marijuana on Canada's policy for the last seven or
12 eight.

13 Today I will provide a brief overview of the
14 existing state medical marijuana/cannabis low THC policies
15 and programs as well as include some information on the
16 current legislative landscape. I will also be using the
17 terms "marijuana" and "cannabis" interchangeably today.

18 I have also done my best to remove any
19 intentional or unintentional puns from my presentation.
20 Also, some people may find the topic of marijuana and
21 cannabis quite amusing, I can guarantee you that this
22 issue is taken very seriously by NCSL policy makers and
23 yourselves and others across the county.

24 I also would like to thank everyone for their
25 help in allowing me to present via Skype today, including

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1 Judy Smith and John Dilly.

2 While the discussion of using marijuana for
3 medical use may seem like an old idea, state legislation
4 governing it is relatively recent. California was the
5 first to allow for medical marijuana by a voter-approved
6 proposition in 1996.

7 Since then, 22 states, D.C. and Guam have
8 followed, most of which since 2000, making for a total of
9 25 programs. 13 programs were voted in by voter ballot
10 initiative measures, and 12 were approved by legislative
11 bodies.

12 I would like to note that not all of those
13 approved programs have been implemented, and it can take
14 anywhere from 6 to 18 months to get a new program up and
15 running depending on the processes involved with each
16 state. And this is on Slide 2. I provided a link to the
17 NCSL Medical Marijuana Web page here for your reference,
18 as well as in a printed handout. And most of the
19 information covered in this presentation comes from that
20 page and related sources.

21 The other notes that I provided are articles
22 from the NCSL State Legislature's magazine. Here is
23 another printed copy of that, which chronicles the efforts
24 in Colorado and Washington with their adult use medical
25 marijuana programs. However, many of the issues covered

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1 in those articles overlap with the medicinal programs as
2 well.

3 As Slide 3 shows, as you may expect, no two
4 medical programs are alike; but some similarities do
5 exist. Most programs include provisions for the following
6 issues: The patient registries, growers, for caregiver
7 registries, dispensaries. They require specific
8 conditions to be had before you can get a referral for
9 medical cannabis, and they recognize patients from other
10 states.

11 Grower and caregivers, there are 17 states that
12 allow through the registry for them. And possession
13 limits very widely, too. Anywhere from 1 ounce to
14 8 ounces of products or 3 to 12 mature plants or
15 seedlings.

16 These categories also vary. For example, some
17 states don't limit the number of licensed dispensaries
18 with a hard number, and some restrict to a total number.
19 Say, in Connecticut's example, there are six in the entire
20 state of Connecticut. And then in Minnesota, their
21 program, once it's up and running, will have four
22 originally approved dispensaries.

23 Also, when it comes to growers and
24 dispensaries, local zoning and licensing procedures may
25 control if they may legally operate. For example, here in

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1 Colorado, many cities and counties do not allow for the
2 commercial growers and dispensaries within their
3 jurisdictions. However, the Illinois medical law does not
4 allow for localities to over-restrict dispensaries so they
5 may not operate.

6 Licensing and registration processes also vary
7 widely. All but one state has a list of qualifying
8 conditions allowing for the medical use of cannabis
9 products.

10 Some states are silent or haven't decided yet
11 on some of these issues, particularly the one recognizing
12 patients from other states. And it's not always included
13 in the initial language in the programs.

14 As I mentioned, it takes some time to establish
15 rules and regulations after these measures are passed,
16 which in the case in Connecticut and Massachusetts from
17 2012 and Illinois and New Hampshire in 2013, some items
18 were established in the legislature ballot measure; while
19 in other states, those details are left to a governing
20 board, a task force, or rule-making committee or
21 authority.

22 Product testing provisions are often one of the
23 secondary considerations and not included in initial
24 legislation. I also want to point out that the state's
25 health department who generally houses the medical

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1 marijuana programs. However, a few of the programs are
2 run by Attorney Generals and Offices of Consumer
3 Protection, Public Safety or Justice.

4 Slide 4 shows one of the latest issues with
5 medical marijuana is the new type of low-THC limited or
6 research programs that have come about in 2014 and 2015.

7 11 states passed these bills in 2014, and they
8 vary widely. Three more states passed legislation in 2015
9 so far this year. Idaho's was just vetoed by the governor
10 a few weeks ago.

11 For information on those ballet initiatives,
12 they can be found on the Marijuana Policy Web page. And
13 also my good friend, Sue Rusche, who is in the audience
14 and will be testifying later, she's with National Families
15 In Action; and she may also speak to the most recent
16 Georgia law since she was highly involved in that process
17 and is quite knowledgeable of it.

18 Slide 5 shows the low THC cannabis programs,
19 and they are all very new. They've all been, like I said,
20 approved in the last two years by states with no other
21 medical marijuana program.

22 Since they are so new, no one has had an
23 existing program to model. Like I said, other marijuana
24 -- other types of medical marijuana programs vary, and so
25 do these.

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1 The definitions of low THC vary by state. That
2 can be anywhere from .3 percent THC and less than 5 to 15
3 percent CBD or cannabinoids by weight.

4 The conditions are rather narrow. Some require
5 a failure of traditional treatments before gaining access
6 to cannabinoid products, and the identified source of
7 the product also very widely.

8 The most common source would be in medical
9 schools that are able to obtain research products and
10 clinical trials for the FDA drug approval process, such as
11 the case in Georgia with the pharmaceutical cannabis
12 products.

13 Most medical schools would be able to grow
14 their own or to get it through the Federal Cannabis grow
15 at the University of Mississippi, although, this has
16 proven quite difficult unless you are an already-
17 established clinical trial or research project because of
18 the numerous federal agency approvals required.

19 A few of the laws do not clearly define where
20 the product would come from nor where another person would
21 obtain the products, which means that the person wanting
22 to use the cannabinoid product could be put at risk by
23 breaking federal or other state laws if they transport the
24 product from another state or through the mail.

25 None of the CBD-only programs are operating as

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1 of this month, and details on who are to implement them
2 aren't always clear. As is the case with other marijuana
3 programs, a few of these laws allow for a working group or
4 a task force to finalize those details about how they will
5 actually work, and the agencies named in the legislation
6 need to develop more rules before they may go forward.

7 On to Slide 6. Like anything else, the medical
8 use of marijuana has its advocates and critics. Shortly
9 after California legalized medical use of marijuana back
10 in 1996, the Institute of Medicine came out with its own
11 opinion. It found that marijuana helped some patients
12 with pain relief and any side effect was generally short-
13 lived and well-tolerated.

14 In late 2012, the Treatment Research Institute
15 released its own opinion based on its addiction-related
16 research, and they do not advise using marijuana for
17 medical use.

18 In recent years, other disease-specific and
19 patient advocacy groups have varied in their support for
20 medical marijuana for the treatment of pain, nausea, and
21 other issues.

22 Some groups that may not currently support its
23 use but would reconsider with additional FDA and
24 scientific research and standards to support it include
25 the American Society of Addiction Medicine, American

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1 Cancer Society, American Glaucoma Foundation, National
2 Multiple Sclerosis Society, and the American Medical
3 Foundation. And some of these organizations do not agree
4 with full legalization, which is a whole other issue in
5 regards to these medical-only programs.

6 Federally, marijuana remains a Schedule I
7 product, seen as having no acceptable medical use, which
8 the previous speaker covered. However, in 2009, the Obama
9 administration stated that they would not actively
10 prosecute those adhering to their state laws for medical
11 distribution in states with medical marijuana statutes.

12 More recently, in late August of 2013, the U.S.
13 Department of Justice announced an update to their
14 marijuana enforcement policy. The statement reads that
15 when marijuana remains illegal federally, the U.S. DOJ
16 expects states like Colorado and Washington to create
17 strong state-based enforcement efforts and they will defer
18 the right to challenge their legalization laws at this
19 time. The Department also reserves the right to challenge
20 the states at any time they feel it's necessary.

21 Again, this was specific to the adult-use laws
22 and Colorado and Washington, but it is similar to the
23 position taken for medical states as well.

24 Again, some of the organizations have lists of
25 groups with similar positions either for or against the

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1 use, like Project SAM, and that link is included at the
2 bottom of the slide.

3 On Slide 7, in 2012, two states legalized small
4 amounts of marijuana for adult use often called
5 "recreational use." I tend to refer to it as "adult use"
6 or "retail sales."

7 Colorado's Amendment 64 and Washington's
8 Initiative 502 both passed by popular vote. Colorado's
9 governor appointed a 24-member task force to come up with
10 the rules and regulations of the law. It includes four
11 legislators, members of the Public Health Department,
12 Department of Revenue, and the governors chief legal
13 counsel, among others. They announced their comprehensive
14 recommendations in March 2013, and sales started January 1
15 of 2014.

16 Washington uses the State Liquor Control Board
17 to implement their law. Their retail sales started just
18 last summer.

19 Again, those two magazine articles I included
20 as handouts are called "Legally Green" and "The Green and
21 Winding Road," which details the processes of establishing
22 the rules and implementation status in Colorado and
23 Washington.

24 More recently, Alaska, Oregon, and the District
25 of Columbia passed voter initiatives to allow for legal

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1 use, adult use of cannabis products. D.C.'s effort is
2 different in that it only allows for the growing and
3 possession and does not otherwise regulate sales of
4 cannabis.

5 Alaska and Oregon are not yet operational with
6 their programs. Oregon is supposed to start sales on July
7 1, and Alaska's law allows for individuals to grow and
8 possess limited amounts of cannabis as of February 24 of
9 this year, and the state will begin regulating and
10 licensing the cannabis-based businesses starting in 2016
11 by the Alcohol Beverage Control Board or a new identity --
12 a new entity if the legislature chooses to create one for
13 this process.

14 As Slide 8 shows, as of early April, there were
15 marijuana bills pending in many states to allow for either
16 medical use or adult-regulated use or both.

17 I'd like to point out that the North Carolina
18 bill listed here would put a constitutional amendment
19 legalizing medical use on the ballot for voters to
20 decide.

21 Some states have proposals to amend current
22 programs and laws, and those are not included in my list.
23 There's also significant legislation in this session
24 regarding marijuana generally, not related to medical
25 use.

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1 And my colleagues in our criminal justice
2 program here at NCSL follow those issues very closely, and
3 they may be contacted with any questions regarding
4 criminal possession, more the legal side of marijuana
5 use.

6 As Slide 9 shows, you can imagine, I get asked
7 a lot of very interesting questions from legislators and
8 legislative staff about marijuana policies and the process
9 of purchasing marijuana legally for medical or adult use.

10 Some of the most questions I get include, "How
11 much diversion is there out there out of the established
12 medical programs?" And, unfortunately, this number is
13 very hard to calculate. There is little pre and post
14 information available.

15 One early Colorado study showed that 70 percent
16 of kids report to have gotten their product from a
17 medically-qualified person or source. That statistic may
18 have changed with the adult-use retail sales now happening
19 here in Colorado, but research is underway on this and
20 other social implications.

21 Colorado is also reviewing the medical program
22 caregiver, grower limits, and it may limit the number of
23 plants grown on behalf of patients. I know for sure there
24 are new municipal ordinances here in the Denver area
25 regarding how many plants may be grown by a caregiver for

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1 their patients.

2 The idea is that limiting some of the less-
3 tracked cannabis growing, the things that aren't being
4 tracked, seed to sale in the retail market, won't be
5 hitting that unregulated market.

6 The next question I get a lot is, "What are
7 those medical organizations that approve or disapprove of
8 marijuana for medical use?" Again, I mentioned some in my
9 testimony, and then there are some links to some other
10 advocacy organizations that keep track of their own list
11 of who supports it and who does not support it.

12 And it is really hard to find a comprehensive
13 list other than the ones I mentioned. But many have
14 concern about the lack -- as the previous speaker
15 mentioned, the rigorous scientific study, which, again,
16 seems to be increasing now in the United States.

17 And, again, Sue Rusche is well-versed in this
18 particular area, and she may be able to answer additional
19 questions, and she may also have additional resources in
20 her testimony.

21 The other question I get is, "Who is going to
22 be the next state?" Everyone wants to know who is going
23 to be the next state that passes medical or adult-use
24 program.

25 Well, these bills vary widely, and NCSL does

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1 not prognosticate in any sort of way on what might happen
2 or may not happen on any particular piece of legislation,
3 because you just never know.

4 There are way too many ifs and circumstances in
5 any particular state that make that an impossible job.
6 And if I had a crystal ball that I could do that, I
7 probably would have my own 900 number and not be a policy
8 geek.

9 The states will be making constant changes to
10 their programs once they come up with implementation. So
11 it's a constant process of improving and enacting
12 different changes to have the programs run as intended by
13 the process.

14 So Slide 10, that kind of concludes what I have
15 for you today. If you have any additional questions, I am
16 glad to hear those now, or you may contact me and my
17 colleagues with our follow-up information on the slide.

18 And I would also like to put in a plug for any
19 of the legislators or staff folks about our legislative
20 summit in August. We will be in Seattle, and we will have
21 what we are calling a DHI session on marijuana policy that
22 will carry the latest information on Colorado and
23 Washington and federalism issues, including drug driving
24 laws and enforcement issues. So, Mr. Chair, thank you for
25 your time today.

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1 REPRESENTATIVE BAKER: Thank you very much,
2 Ms. Hanson. That extensive research is well-done. We
3 appreciate that, that background information.

4 Just to clarify, in addition to the American
5 Academy of Neurology, American Academy of Pediatrics that
6 oppose the legalizing medical marijuana outside the FDA
7 process, it appears, based on the documents that I have,
8 that the other groups that feel the same way are the
9 American Society of Addiction Medicine, American Cancer
10 Society, Glaucoma Foundation, Multiple Sclerosis Society,
11 American Medical Association, and the Pennsylvania Medical
12 Association also has property, white paper, in opposition
13 to legalization outside the research and development
14 through the FDA process. Is that correct?

15 MS. HANSON: To the best of my knowledge, yes.

16 REPRESENTATIVE BAKER: Thank you very much.
17 Any other questions, Members? We do have -- believe it or
18 not, we have Dr. Shackelford waiting on Skype for us.
19 Representative DeLissio.

20 REPRESENTATIVE DeLISSIO: Hi, Karmen. Just a
21 real quick question. When did the FDA put this on
22 Schedule I? Do you know when that occurred?

23 MS. HANSON: I believe it was in the early
24 1970s. The exact -- it was at least 40 years ago. I do
25 know that much.

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1 UNIDENTIFIED SPEAKER: That's a lie.

2 MS. HANSON: I can look that up for you.

3 REPRESENTATIVE BAKER: Thank you.

4 MS. HANSON: But, I'm sorry, I couldn't hear
5 the representative's name.

6 REPRESENTATIVE BAKER: Pamela DeLissio,
7 Philadelphia.

8 MS. HANSON: Great. Thank you.

9 REPRESENTATIVE BAKER: Thank you. Any other
10 questions?

11 (No response.)

12 REPRESENTATIVE BAKER: Seeing none, thank you
13 very, very much, Ms. Hanson. We appreciate your
14 testimony.

15 MS. HANSON: Thank you.

16 REPRESENTATIVE BAKER: We will go to Dr. Alan
17 Shackelford, who I believe is waiting. Hi,
18 Dr. Shackelford. Please stand-by. We still do not have
19 sound. We're going to try to call you and then have you
20 on speaker. Doctor? Oh, we just lost video.
21 Dr. Shackelford, you may proceed, sir.

22 DR. SHACKELFORD: Thank you. It's a pleasure
23 to speak with you. Do you have video now?

24 REPRESENTATIVE BAKER: Yes. Thank you very
25 much.

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1 DR. SHACKELFORD: Excellent. Audio is okay?

2 REPRESENTATIVE BAKER: You may proceed, sir.

3 UNIDENTIFIED SPEAKER: You can proceed

4 Doctor. You can go ahead and testify.

5 DR. SHACKELFORD: Very well. Are you ready
6 for my comments?

7 UNIDENTIFIED SPEAKER: Yes, sir. Go ahead.

8 DR. SHACKELFORD: Very good. It's a pleasure
9 and privilege to speak with you. I am sorry I am not able
10 to join you in person, and I apologize for the technical
11 difficulties of earlier today.

12 I have provided you with some written comments
13 that will give you a bit more information on the things
14 that I will be saying to you. I would like to address the
15 patient concerns that I think that you may have been
16 somewhat overshadowed in some of the remarks by more
17 technical concerns about public policy matters.

18 I am the director of the University of
19 Heidelberg School of Medicine and did postgraduate
20 training at HMS Hospitals, the Harvard Medical School,
21 where I did an internal medicine residency, a clinical
22 fellowship in nutrition support.

23 I was a research fellow in nutrition and a
24 research fellowship in behavioral medicine. I was
25 practicing occupational medicine in Colorado in 2009 when

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1 the Obama administration's more liberal policies on
2 cannabis use for medical purposes became more widely
3 known.

4 And my patients began to request that I approve
5 cannabis use for them, particularly patients with severe
6 pain that wasn't well-controlled by the pain medicines
7 that I was prescribing.

8 I was reluctant to do so because I knew very
9 little, if anything, about the scientific basis for using
10 cannabis. So I delved into the medical research quite
11 deeply and discovered that the use of cannabis as a
12 medical treatment is nothing new.

13 Cannabis was first used medically, according to
14 the written record, 5,000 years ago, probably much earlier
15 in China. And it has been used in India where it was
16 found by William Brooke O'Shaughnessy, a British
17 physician, who joined the British East India Company, who
18 was very impressed with its medical benefits, and
19 published a paper in the late 1830's regarding its medical
20 uses in India.

21 Its use then became very widespread throughout
22 the western world. And in the United States, cannabis
23 extracts were prescribed extensively.

24 A medical textbook from 1924, some used
25 cyclopedia medical (inaudible) textbook listed out

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1 57 different medical conditions for which cannabis was
2 prescribed and was effective after standing in 1937, which
3 was opposed by the American Medical Association. Its use
4 fell off, and it was rediscovered, I think, by patients
5 and physicians in the 1960's.

6 I found in researching cannabis, because of the
7 medicine, that there is an extensive scientific basis for
8 it. There were 20,000 to 30,000 studies published from
9 basic science to clinical research, and it has been shown
10 to be effective and safe; and I have seen hundreds of
11 patients here in Colorado, some of whom you may be
12 familiar with.

13 Charlotte Figi, who was featured in a CNN
14 documentary in August of 2013, is my patient. Charlotte
15 has Dravet Syndrome and had 300 grand mal seizures a week
16 when I first saw her.

17 We used the cannabis to treat those seizures
18 cautiously, admittedly, and in small dosing with close
19 monitoring has made it possible for Charlotte to lead a,
20 more or less, normal existence going from 300 grand mal
21 seizures a week to one every other month.

22 I have seen a girl from Pennsylvania in my
23 office here who has exactly the same diagnosis, Dravet
24 Syndrome, and who was using a similar preparation with THC
25 with tremendous benefit here in Colorado, but, of course,

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1 cannot use it in Pennsylvania, and upon her return, began
2 to have the serious seizures that we were able to control
3 quite well here in Colorado.

4 I am not speaking on behalf of any organization
5 or group, but rather on behalf of patients whose voices
6 may have been somewhat overshadowed in much of the
7 discussion about this, and she is one of them.

8 Our oldest patient is 91. He's a World War II
9 veteran who was able to stop using narcotic pain medicines
10 and when I last saw him several months ago, stood up to
11 his full 6 foot, 4 inch height, and solemnly shook my hand
12 and thanked me for giving him his life back.

13 It was an amazing moment, and he was able to
14 decrease his narcotic pain medicine use from six to eight
15 Percocet a day down to one every other day. He is very
16 functional, and it does not run the risks that are
17 inherent to the use of restriction pain medicines such as
18 narcotics, which according to the CEC, numbers tilt 20-odd
19 thousand people in 2009, and along with prescription drug
20 interactions, just nearly 40,000 in the United States in
21 that same year.

22 More people die from prescription drug
23 overdoses and drug interactions than traffic accidents in
24 the U.S., and that trend is holding in Pennsylvania as you
25 will see from the written documentation that I provided to

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1 you.

2 The most recent CNN documentary called "Weed 3"
3 also features a patient of mine, again, a man with early
4 stage Alzheimer's disease. He is doing extraordinary well
5 using cannabis versus prescription medication.

6 Although he does not have normal neurological
7 functioning, he is much more functional than he was using
8 the prescription medicines that are commonly prescribed
9 for Alzheimer's. His wife is adamant in her support of
10 his cannabis use versus the prescription medicine.

11 The United States Government, the Department of
12 Health and Human Services, from the patents actually,
13 based on research done in the National Institute of Health
14 for the use of cannabis, a compound cannabinoid cannabis,
15 to prevent or possibly slow the progression of Alzheimer's
16 and other forms of dementia, which is quite remarkable.
17 And the patent number is 6630507.

18 Yet, the CA, the DEA, and the National
19 Institute on Drug Abuse maintain that cannabis has no
20 medical benefit. I believe that the abundant medical
21 research literature has extensive experience with cannabis
22 as a medical treatment, a safe medical treatment; and its
23 historic basis for use is not only in the United States
24 but worldwide. The contention is that it has no medical
25 benefit.

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1 Unfortunately, we do not have sufficient
2 research, to my satisfaction, anyway, as a physician who
3 practices evidence-based medicine; and I think we need to
4 go forward with medical research and good research.

5 The State of Colorado has recently founded 72
6 that will be investigating the medical use of cannabis.
7 Unfortunately, most of those studies for which we have
8 devoted \$9 million cannot be randomized with legally-
9 controlled plants.

10 Those types of studies must be approved by the
11 National Institute on Drug Abuse, the FDA, the DEA, and
12 the (inaudible). It's extraordinarily difficult to get
13 such studies approved. And in my frustration, I have gone
14 to Israel where I am initiating a series (inaudible)
15 clinical trials on the medical uses, cannabis, which I
16 think will go a great distance in allaying the fears that
17 people have and, of course, establishing appropriate
18 dosing and delivery methods for cannabis.

19 I know that there were law enforcement concerns
20 we have faced here in Colorado and I think did a pretty
21 good job of establishing a well-regulated system of
22 oversight by the state.

23 I served and continue to serve on the
24 Department of Revenue of Medical Marijuana. I'm actually
25 now a marijuana enforcement physician advisory worker, and

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1 I also serve on the Colorado Department of Public Health
2 and Marijuana Scientific Advisory Council, all the things
3 where physicians are tasked with enforcing the laws that
4 we have passed, and the system is working actually quite
5 well.

6 I think that any final analysis physicians need
7 to have a variety of different treatment options at their
8 disposal. We have to weigh the risks versus the benefits
9 of potential treatments.

10 And in my experience, cannabis has proven to be
11 not only highly effective, in many instances where
12 prescription drugs are not effective, such as in
13 intractable seizures, severe pain, severe nausea, it is
14 not only something which should accrue to the benefits of
15 patients in Colorado and in 22 other states; but in my
16 opinion, it should be available to us and to our patients
17 throughout the country. And Pennsylvania should be one of
18 those states where this option will be available to
19 physicians and to their patients.

20 Thank you very much. I'm happy to answer any
21 questions.

22 REPRESENTATIVE BAKER: Thank you very much,
23 Doctor. I appreciate your time and your patience with the
24 Skyping, with the technology problems that we've had. We
25 have Sarah, who would like to ask you a question, Doctor.

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1 MS. SPEED: Sorry about that. Thank you so
2 much for your testimony today. I follow a lot of
3 nutritional research, and there is an annual update that
4 comes out every year. And it seems like every annual
5 update of the research on nutrition, there is some new
6 synthetic vitamin or synthetic substance that is causing
7 new problems, so whether it was synthetic Vitamin K or
8 synthetic Vitamin C. Have you noted anything, are there
9 any studies that you are aware about the efficacy of the
10 synthetic cannabinoids versus the direct plant extracts?

11 DR. SHACKELFORD: (Inaudible). On clinical
12 efficacy, those compounds we're seeing increasingly
13 frequently in retail outlets that are called these
14 (inaudible) are research compounds. These were compounds
15 that were created in the laboratory for laboratory study
16 that should not be used clinically.

17 I don't think there is any advantage in using
18 any synthetic cannabinoid over a naturally-occurring
19 cannabinoid. We have very little clinical experience with
20 those synthetic compounds, and I strongly urge law
21 enforcement and, of course, regulatory agencies to ban
22 them and prevent their distribution. They have no place
23 in clinical medicine, in my opinion.

24 MS. SPEED: The benefit that we've heard
25 about, the use of the synthetics versus the natural plant,

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1 is the ability to streamline, to know exactly how much THC
2 is in there.

3 Are you comfortable with your dispensaries and
4 your regulatory process that what you think is best for
5 the patient is going to be accessible in the long term?

6 DR. SHACKELFORD: I am not happy with the
7 current dosing paradox. I think that it's difficult for
8 me to suggest to a patient that he or she should take two
9 puffs and call me in the morning. That's less medical
10 than I'm comfortable with.

11 I'm also not comfortable with suggesting that a
12 patient should get a 100-milligram brownie and cut it into
13 16 pieces and take a 16th at a time.

14 On the other hand, some of the approaches do
15 work. They're effective, and they do not carry any
16 significant risk of any serious side effect that could be
17 life-threatening.

18 For example, the side effects of the cannabis
19 overdose are unpleasant and to be avoided but are not
20 life-threatening, and they dissipate pretty quickly.

21 I think that we need to be doing a great deal
22 more research to establish persistence and reproduce
23 dosing forms so that patients and physicians can, with
24 confidence, either recommend or use products that are
25 cannabis-based.

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1 Even in its very primitive form, currently, the
2 ingestible forms and even the inhaled forms, which I don't
3 think are as effective as ingested, are safe; and the
4 majority of its uses are very effective. So I am
5 confident that the current dispenser model works very,
6 very well.

7 I would like to amend my comment and just
8 answer the first question by saying that the prescription
9 medications that are synthetic THC, which have been
10 studied extensively and are approved by the FDA, are
11 exceptions, of course. I was referring more to the things
12 like "spice" and those sorts of synthetic cannabinoids.

13 REPRESENTATIVE LAWRENCE: Thank you,
14 Mr. Chairman. Dr. Shackelford, can you hear me?

15 DR. SHACKELFORD: Yes, quite well. Thank you.

16 REPRESENTATIVE LAWRENCE: I appreciate your
17 patience.

18 REPRESENTATIVE BAKER: For the audience's
19 sake, this is Representative Lawrence. I know the doctor
20 can't hear me.

21 REPRESENTATIVE LAWRENCE: Thank you,
22 Mr. Chairman. I appreciate your indulgence.
23 Dr. Shackelford, I particularly appreciate your indulgence
24 with this kind of group we have set up here, but it seems
25 to have worked; and so I appreciate that, and I appreciate

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1 your insightful testimony.

2 My questions come kind of piggy-backed off of
3 Sarah's questions, which were just -- what she just
4 asked. We had three hearings across the Commonwealth on
5 this issue, and we consistently heard questions from both
6 the supporters and the detractors of, you know, the
7 consistency of dosing, the consistency of the product.

8 So my question to you is, how do you deal with
9 those issues? Also, do you recommend smoked marijuana?
10 Do you recommend ingesting it, the oils? How do you deal
11 with the -- what format do you recommend to your
12 patients? Do you recommend all of them or just some of
13 them, and how do you deal with the inconsistent dosage
14 issues that have been brought before this Committee?

15 DR. SHACKELFORD: Thank you for that
16 question. I've looked to some of the regulations that
17 have -- part have been put in place, and it will be put in
18 place in other states to see what is, indeed, possible to
19 the regulatory fashion mandate much more reproducible
20 dosing.

21 I think that New York and Connecticut have done
22 a good job on that, both states. Mainly that products
23 offer to patients should be consistent, should have a
24 demonstrated and proven cannabinoid content, particularly
25 THC, which is the psychoactive compound in the (inaudible)

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1 very narrow ranges for deviation from those procedures of
2 dosing requirements, and that works very, very well.

3 The (inaudible) is absolutely capable of
4 producing pharmaceutical-grade consistent quantity
5 cannabis-based products. Currently, in Colorado and many
6 other states, that is not a requirement.

7 The regulatory side here in Colorado on
8 recreational marijuana, very specific parameters have been
9 established that have not yet been sent to the medical
10 side.

11 I think it's possible to, by rule or by
12 legislative initiative, establish those sorts of
13 parameters that will be required of producers in
14 Pennsylvania.

15 With regard to my own recommendations,
16 currently, I don't recommend that people smoke marijuana.
17 There are a number of reasons for that. Safety isn't
18 necessarily one of them. The research that has been done
19 on smoking marijuana, and there has been no significant
20 long-lasting pulmonary damage due to smoking marijuana.

21 Nonetheless, I think that smoking is not an
22 appropriate medical use for anything. I think vaporizers
23 are a good alternative to that. They're certainly not
24 consistent in the delivery of known quantities of
25 cannabinoids. And also the effect is not as long-lasting

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1 as one might wish.

2 For example, in treating a seizure disorder, a
3 more consistent level of cannabinoids, particularly CBD,
4 we need that official, and that's not achievable with
5 inhaled delivery systems.

6 So my recommendations to my patients are to
7 begin with a low-dose ingested form. I, of course, prefer
8 something that has been clinically tested for (inaudible)
9 available that have been developed based on clinical
10 study.

11 Nonetheless, that is a safe and typically very
12 effective way to initiate treatment sometimes, and it
13 might be necessarily particularly for someone undergoing
14 chemotherapy with acute nausea; but I'm quite comfortable
15 with ingested cannabis with known quantity products. I
16 hope that answers that question.

17 REPRESENTATIVE LAWRENCE: It does, and I
18 appreciate that insight. If I may, Mr. Chairman, if I can
19 ask an additional question?

20 REPRESENTATIVE BAKER: Sure.

21 REPRESENTATIVE LAWRENCE: This Committee has
22 heard extensive testimony on this issue, I think it's fair
23 to say from all sides. One of the things that has been
24 brought to the Committee's attention more than once is
25 the, in fact, testimony earlier today, laboratories

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1 contracted by the State of Colorado, examining 600 strands
2 of marijuana cultivated by dozens of growers, and then
3 going through the various substances that were found in
4 the products being sold; mold, fungus, heavy metals,
5 pesticides, a variety of contaminants.

6 I'm also on the Agriculture Committee. We had
7 a tour yesterday of an animal feed plant here in
8 Pennsylvania, and the federal regulations require that
9 animal feed -- this is animal food we're talking about
10 now -- require three times a day testing for various
11 substances for the animal feed that's being produced.

12 So my question is, how do you -- do you
13 recommend certain suppliers to your patients to avoid this
14 issue, or do you feel this is an issue that requires
15 additional attention? I mean, this seems to be in
16 Colorado where you are. So how do you deal with that side
17 of the equation?

18 DR. SHACKELFORD: That's a very important
19 concern. We establish rules based on the legislation
20 passed in 2010 and 2011 that in the medical marijuana
21 (inaudible) Department of Revenue which oversees the
22 medical cannabis in the cities in Colorado.

23 I turned to the Department of Agriculture in a
24 number of different states and, of course, the Federal
25 Department of Agriculture to try and find out what, if

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1 anything, else they might have on the use of fertilizers
2 and herbicides and pesticides and so on. No one could
3 speak to me in my capacity of working for the Department
4 of Revenue -- with the Department in an official capacity
5 for the State of Colorado. So no one knows anything or
6 knew anything at the time.

7 I turned then to the federal rules governing
8 use of compound pesticides, herbicides, and so on. That
9 was the only inhalable or smokeable product that had any
10 hangover side effect to that culture.

11 And eventually, I simply copied and pasted the
12 federal regulations governing those compounds and use of
13 those compounds in tobacco over to the medical marijuana
14 side. And that actually worked out pretty well.

15 The problem, I think, is that people that I
16 don't have (inaudible) the direct knowledge from
17 cultivators, but people have ways of evading some of those
18 things.

19 I think that can be addressed very effectively
20 in the rule medicating process by (inaudible) very
21 specifically certain compounds. Certain chemicals are
22 acceptable under certain conditions and to be used under
23 those conditions. The inspectors and the regulators need
24 to enforce those rules.

25 It's a common conundrum for me as a physician

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1 to know of (inaudible) best practices are technical and in
2 compliance with the laws as far as I know.

3 And to be unable under federal rules to
4 recommend that a patient go to those facilities
5 (inaudible) Ninth Circuit Court of Appeals in 2002 which
6 establishes physicians' right under the First Amendment to
7 (inaudible) any particular course of action (inaudible)
8 from directing a patient to a specific source of medical
9 -- I'm prohibited from making specific recommendations to
10 a patient (inaudible).

11 The people in my office, my office manager, for
12 whom I handed out (inaudible), she is not speaking for me
13 (inaudible) that she is. (Inaudible) by legislation or
14 based on legislation that we covered a number (inaudible)
15 for physicians (inaudible).

16 REPRESENTATIVE LAWRENCE: Dr. Shackelford, I
17 appreciate your testimony and appreciate you bearing with
18 us. Thank you, Mr. Chairman. I appreciate your
19 indulgence.

20 DR. SHACKELFORD: It's a pleasure. Thank you.

21 REPRESENTATIVE BAKER: Representative Miller.

22 REPRESENTATIVE MILLER: Thank you,
23 Mr. Chairman. Thank you, Mr. Chairman. I want to thank
24 all the Chairmen involved for bringing this matter to the
25 Pittsburgh area.

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1 I would like to thank the staff for the good
2 efforts and for the technical work to get everything
3 going. I would also like to thank the stenographer, as
4 I've watched her facial expressions as she's trying to
5 keep up with all her blurred words. I appreciate her
6 effort, too.

7 I guess what I wanted to ask you, Doctor, is
8 just going back to the basics for me, I admit that I was
9 not at a hearing out east. I'm an attorney here in
10 Pennsylvania. The State sets the rules for my license.
11 The State sets the rules for my ethic obligations. The
12 State sets the rules for the codes that I work under, like
13 every attorney here.

14 We've heard today, there seems to be some
15 debate about a couple aspects, one being FDA approval,
16 which clearly there seems to be almost two dozen states
17 that have not waited for the FDA to provide the relief to
18 their citizens.

19 We've also heard of a variety of medical
20 organizations. I believe the Chairman had listed many who
21 had expressed reservations, at least some form or
22 another.

23 But, obviously, I would imagine that whether
24 it's members of those organizations directly or sister
25 organizations in those states that allow it, dozens,

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1 hundreds, thousands across the country are being
2 prescribed medical marijuana by doctors who are likely
3 members of some version of those organizations, much like
4 we have our organizations here in the legal profession.

5 So I guess my -- where I kind of get caught up
6 on it is that I believe that if a doctor believes that
7 anything would be of beneficial use to their patient --
8 and what I mean is, I can't believe doctors are
9 prescribing things that they feel would be of no value.
10 That doesn't make sense.

11 So if doctors are prescribing or thinks are of
12 value of their patients in 23 and 24 states, including
13 D.C. -- and here, let's assume that some doctors would
14 prescribe it and maybe some doctors would not.

15 It's a similar thing to me where you have one
16 doctor that recommends one procedure and another doctor
17 who goes in for a second opinion and recommends a
18 different path and then in coordination with the patient,
19 you know, the patient reaches a decision that's in their
20 best interest listening to the advice that's given.

21 My point being is I get caught up on with this
22 saying I want to give doctors as much -- as many tools in
23 their toolbox to help relieve pain, suffering in the
24 State, acknowledging that there's a percentage of doctors
25 who, perhaps, don't always do things right, acknowledging

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1 that there are a percentage of lawyers who come up on
2 ethical charges.

3 My point being is we acknowledge that there's
4 some percentage of every profession that's going to cause
5 some degree of difficulty, whether it's intentional or
6 not.

7 But going back to the point of saying shouldn't
8 we give doctors this tool in their toolbox and allow them
9 to decide if it's recommended, if it should be prescribed
10 or not, why am I wrong with starting or ending my decision
11 process on that factor alone?

12 DR. SHACKELFORD: Well, you've raised a number
13 of important issues. First, I think it's important to
14 note marijuana cannot be prescribed in the United States.
15 Physicians prescribe FDA-approved medications on a
16 prescription pad or calling in a prescription to a
17 pharmacy.

18 Cannabis is recommended as a treatment option
19 by physicians to patients. I think that doctors should
20 have an opportunity to recommend it to patients that prove
21 to be beneficial and should begin to recommend it with
22 some confidence in the -- both the scientific basis for
23 the recommendation and in the efficacy and where
24 facilities are studying dosing. I think those are
25 absolutely achievable.

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1 It's been during the course -- (inaudible) most
2 of my colleagues, and we don't know a whole lot about it.
3 We don't know exactly what will work, what conditions.
4 (Inaudible) seminars or continuing education programs, and
5 some are available that are quite good, others that were
6 not quite so much.

7 That practice is, as you correctly said, an art
8 based on science. Medicine is a practice of bringing
9 together for the benefit of the specific patient all of
10 the physician's experience and all of the medical
11 literature and objective data that can aid and assist a
12 physician in making a recommendation or decision for that
13 person.

14 (Inaudible) provide literature. (Inaudible.)
15 I think that if (inaudible) in the final analysis, the
16 physician has to know whether to support a medical
17 cannabis bill (inaudible) in the best interest of the
18 people of the state.

19 Physicians that practice medicine, they should
20 practice (inaudible) pledge to serve, and I hope there's
21 certain medications I can prescribe (inaudible) because I
22 don't like what they do. Certain medications (inaudible,) and
23 others I'm happy to prescribe cannabis, and it isn't
24 all that different.

25 If I think it's the most appropriate treatment

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1 for someone, I recommend it. If I think something is
2 better, I will recommend that. Sometimes it's simple
3 therapy or surgical intervention. That's the practice.

4 We, physicians, will make the decisions to do
5 what is best for the patient, hopefully together with that
6 patient. But as you said, we need to have these tools at
7 our disposal as well.

8 So I think it comes down to what is best for
9 the patients, and I think that the experience of the
10 ten-year-old girl from Pennsylvania whom I saw in my
11 office and saw a remarkable change in the number of
12 seizures and (inaudible) to me, that exceeds her and her
13 doctors in Pennsylvania.

14 It's absurd that her and her family should move
15 to Colorado simply so this child can be treated.
16 (Inaudible.) It's all about patient and patient care and
17 suffering.

18 REPRESENTATIVE MILLER: Thank you, Doc.

19 REPRESENTATIVE BAKER: Thank you very much,
20 Doctor, for your testimony. And I agree, we definitely
21 need more research and development. And you were at a
22 disadvantage earlier when Representative Miller mentioned
23 a lot of medical organizations.

24 You probably were not privy to those that we
25 had recited, and I'm going to do that real quickly. The

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1 American Medical Association, Pennsylvania Medical
2 Society, National Multiple Sclerosis Society, The American
3 Society of Addiction Medicines, American Cancer Society,
4 American Glaucoma Foundation, the American Academy of
5 Pediatrics, The American Academy of Neurology.

6 And, unfortunately, we were not able to connect
7 with Dr. Amy Brooks-Kayal, President of the American
8 Epilepsy Society, who is the chief for treating -- chief
9 neurologist treating the largest amount of children with
10 epileptic seizures at the Children's Hospital in
11 Colorado.

12 They all have opined that they oppose
13 legalizing medical marijuana outside the construct of the
14 FDA. And, in fact, the American Epilepsy Society letter
15 that was proffered to us, she -- I'm quoting her, "Not a
16 single pediatric neurologist in Colorado recommends the
17 use of artisanal cannabis preparations."

18 You seem to have a different opinion contrary
19 to all of your colleagues and all of those medical
20 associations, but we appreciate your perspective, sir.

21 DR. SHACKELFORD: May I comment on that?

22 REPRESENTATIVE BAKER: Yes, sir.

23 DR. SHACKELFORD: I have had a number of
24 pediatric epilepsy patients referred to me specifically by
25 (inaudible). No one at Children's Hospital has

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1 recommended cannabis for a patient because the Institution
2 of Diplomacy (inaudible) permitted that. It's does not
3 necessarily mean that they are close to (inaudible) under
4 proper conditions and appropriate monitoring.

5 The specific physicians by many of those
6 organizations actually have the idea that we need more
7 research on this, that this is not something that was
8 (inaudible) yesterday or (inaudible) condition.

9 As I mentioned, there's a very long history
10 (inaudible) compounds (inaudible) medicines (inaudible)
11 hundreds -- for 100 years. I think that in some
12 instances, cannabis is absolutely the most appropriate
13 treatment, is absolutely (inaudible) to deny a potentially
14 lifesaving treatment to a patient to whom is a likelihood
15 if some treatment can be (inaudible) when I refer
16 (inaudible) specifically is children with seizure
17 disorders. That exists as well. Prescription medicine as
18 the other option for her (inaudible) and my acceptance
19 with her. She probably got arrested for (inaudible)
20 sufficient evidence of the safety we have in mind
21 (inaudible) research (inaudible) which state (inaudible)
22 by a spokesman from National Institute of Drug (inaudible)
23 New York Times in January.

24 It does not fund research on cannabis.
25 (Inaudible.) I understand that. Their job is to discuss

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1 it, research (inaudible) which are certainly less
2 problematic than the use pharmaceuticals. They cause
3 thousands of deaths every year (inaudible), but
4 (inaudible) controls the source (inaudible) on campus in
5 the United States, and it has proved very, very few over
6 the last 10 or 20 years. So --

7 REPRESENTATIVE BAKER: Doctor, let me just be
8 fair to the good Dr. Kayal, because she had -- before
9 commenting on that, she had prefaced it by saying that the
10 families and children coming to Colorado where you
11 practice are receiving unregulated highly-variable
12 artisanal preparations of cannabis oil prescribed, in most
13 cases, by physicians with no training in pediatrics,
14 neurology, or epilepsy.

15 As a result, the epilepsy specialists in
16 Colorado have been at the bedside of children having
17 severe dystonic reactions and other movement disorders,
18 developmental regression, intractable vomiting, and
19 worsening seizures that could be so severe, they put the
20 child in a coma to get the seizures to stop. And because
21 these products are unregulated, it is impossible to know
22 that these dangerous adverse reactions are due to CBD or
23 because of contaminants found in the artisanal
24 preparations.

25 So I just wanted to clarify that. It was a

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1 very extensive letter and opinion that she had written as
2 President of the American Epilepsy Society, and I'll just
3 give you a chance to quickly close. I know we're running
4 out of time here.

5 DR. SHACKELFORD: I'm grateful for that
6 clarification. Thank you. There are problems,
7 unquestionably, which is why I do not simply say, go get
8 some pot and try it.

9 I am extraordinarily compulsive in that
10 instance on (inaudible) in the case of a child, really,
11 pretty much anyone, with the patient's primary care
12 physician or primary care neurologist in the case of a
13 patient with epilepsy.

14 I also am very cautious about the sources of
15 the extracts that any of the patients use. I wish that
16 were the case for every practitioner, and I am sorry to
17 say that is not the case.

18 I think that we need to be cautious. I agree,
19 but I think it's possible to implement rules and practices
20 that can make such occurrences much less likely. And I
21 think (inaudible) find it hard to believe good physicians
22 will be able to do so from the outset rather than
23 retrospectively (inaudible).

24 Nonetheless, I feel (inaudible) responsible and
25 effective way. I, of course, do what I can in my capacity

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1 as a practitioner, also as a member of the Scientific
2 Advisory Counsel, to see that those kind of (inaudible).
3 Thank you, Chairman, for that qualification, and thank you
4 for giving me the opportunity to speak with you.

5 REPRESENTATIVE BAKER: We appreciate your
6 time, sir. Thank you very much.

7 DR. SHACKELFORD: Thank you.

8 REPRESENTATIVE BAKER: Is Sue here in the
9 room? Rusche? Is Sue Rusche in the room? She was going
10 to testify, and then we were going to take a quick break
11 for lunch. But is she still holding?

12 UNIDENTIFIED SPEAKER: I can go look for her.

13 MS. KROSSE: Is she here?

14 UNIDENTIFIED SPEAKER: I'm not positive, but
15 I'll go look for her.

16 REPRESENTATIVE BAKER: If she's out there,
17 yeah. I appreciate that. Thank you.

18 Thank you for your patience and forbearance. I
19 think we're all set and ready if you would like to
20 proceed. Go right ahead, Sue.

21 MS. RUSCHE: Thank you very much. I'm so sorry
22 not to be there with you today. I have a knee injury that
23 prevented me from getting on the airplane at the very last
24 minute. So I presume that you have slides, that you're
25 looking at slides that I've sent up. Is that right?

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1 REPRESENTATIVE BAKER: That's correct.

2 MS. RUSCHE: Okay. Great. So I'm going to
3 try to answer two questions today. The first one is, is
4 marijuana medicine? And the second question is, how did
5 we get here? So I want you to look at the slides, and
6 tell me, you decide, if you think marijuana is medicine.

7 Slide 1 is going to show you here are the
8 smokeable marijuana medicines that are for sale in states
9 that have dispensaries. And I'm not sure that I have ever
10 heard of a medicine called "Super Diesel," or "Purple
11 Haze" or "Afghani Kush" or "Blue Dream."

12 Notice at the top of each little dish, the
13 amount of THC in that particular strain is advertised. So
14 these are medicines that you can smoke in any number of
15 ways.

16 The next slide shows you more smokeables, and
17 these are from California, presumably, a medical marijuana
18 state. These are called "California Premiums" with "Girl
19 Scout Cookies," "Sour Diesel," "OG Kush," et cetera. And
20 these are half-gram marijuana joints.

21 The next slide shows you the edibles. That is
22 marijuana-infused foods, and you can see each one of the
23 pictures on this slide has been infused with marijuana and
24 is contributing to many overdoses, especially on the part
25 of children who can't tell the difference between a gummy

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1 bear and a marijuana-infused gummy bear or a soft drink
2 made by Dixie Elixirs that is infused with marijuana,
3 et cetera.

4 And that brings me to a point. Representative
5 Miller had asked earlier about overdosing and what that
6 looks like. The Colorado Health Report was issued by the
7 State, by the Department of Health in February of this
8 year; and we published something called the Marijuana
9 Report E-Newsletter, it goes out weekly.

10 We featured that health report. And with a
11 subscription base at that time of 3,000 people, we've had
12 25,000 people click through to that report. I will
13 happily send you that report, and it will answer some of
14 the questions that Representative Miller had. I'm having
15 a funny echo, but I hope you aren't.

16 The quest with medical marijuana has been to
17 elevate the amount of THC and reduce the amount of CBD
18 because, frankly, medical marijuana patients want to get
19 high, and that's what sells.

20 So the next slide shows you "dabs" or "earwax"
21 or "shatter." These are all different names for the same
22 entity, which is THC that has been leached out of the
23 marijuana plant so that you have levels of 75 to 100
24 percent THC. And all of these pictures are different
25 versions of the dabs.

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1 What you do is put a dab, thus the name, on a
2 heated piece of metal and then inhale the vapors to get
3 really, really high; and people are overdosing on this
4 particular form of medical marijuana.

5 People at home try to leach out their own --
6 THC from their own marijuana using butane hash oil, which
7 is another name for this product, DHO. That's what has
8 contributed to explosions in the home. People's
9 apartments are blowing up, their homes are blowing up,
10 their cars are blowing up from their efforts to try to do
11 this using a highly flammable solvent.

12 The next slide shows you dispensaries where
13 patients buy their medical marijuana. The picture up in
14 the upper right-hand corner is a dispensary in California,
15 and you see that they are advertising the doctor is in,
16 all you do is take your \$40, go in, get a quick cursory
17 exam by the doctor, and then go around the corner and buy
18 your medical pot.

19 State's have legalized medical marijuana to
20 treat more than 50 different diseases. So I think we need
21 to look at what the science says. And the science tells
22 us first that not one single medical marijuana maker in
23 any medical marijuana state has submitted his medicine to
24 FDA for approval as safe or effective. Not one has been
25 tested in animals for safety, nor tested in humans for

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1 efficacy.

2 Most states, including Colorado as we just
3 heard, do not require testing for contaminants or potency;
4 and random tests by scientists are finding all of those
5 contaminants that we heard about earlier.

6 But there are real marijuana medicines, and
7 that's the next slide. The pediatrician whose name, I'm
8 sorry, I didn't catch, referred to Marinol and Cesamet.
9 These are two synthetic versions of THC that were approved
10 by the FDA in the 1980s to treat chemotherapy-related
11 nausea and AIDS wasting.

12 But more interesting and to the point that
13 you're discussing and grappling with here is there are two
14 more medicines that are almost approved by the FDA. They
15 are in FDA-based clinical trials in this country. One is
16 called Sativex. That is THC and cannabinoideal that have
17 been extracted from marijuana, here is the key word,
18 "purified," and then developed into a masquerade to treat
19 the symptoms of multiple sclerosis. That drug is in FDA
20 clinical trials in this country for advanced cancer pain.

21 And more to the point again with your
22 struggle is Epidiolex, which is purified cannabinoideal
23 extracted from the marijuana plant, purified; and it is 98
24 percent CBD with only trace amounts of THC.

25 It comes in an oil. It's made into an oil to

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1 treat rare forms of epilepsy, and it's given FDA clinical
2 trials, and I suspect that the trial -- our pediatrician
3 mentioned at one of the Pennsylvania hospitals, Children's
4 Hospital, is testing Epidiolex because there are a number
5 of clinical trials around the country testing this drug.

6 Even more important is the pediatrician
7 mentioned that there are compassionate-use programs where
8 families with children who are so sick with epilepsy can
9 obtain this drug from FDA and from its maker, or they can
10 do something else through an expanded access program which
11 allows every pediatric neurologist who is treating these
12 children to obtain Epidiolex while it's being tested for
13 up to 25 of his or her sickest patients.

14 In Georgia, what we did last year, our governor
15 set up a statewide Epidiolex -- I'm sorry, a statewide
16 expanded access program through our university system,
17 which enables all of the doctors in Georgia who are
18 treating epilepsy to obtain this drug for 25 of their
19 sickest patients. And that's pretty much going to -- we
20 are not there yet, but that's pretty much going to cover
21 all the kids who have such a need.

22 So to summarize whether marijuana is a
23 medicine, I want you to look at the next slide, which is
24 contrasting the difference between FDA-approved medicines
25 and legalized medical marijuana medicines.

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1 I want to make this point before I go through
2 this slide. When a state legislature legalizes marijuana
3 for medicine, the legislature removes the obligation --
4 well, not the obligation -- removes the responsibility
5 from the medical marijuana producers to go through FDA
6 trials, to do the research, to test their products in
7 animals and then in humans to make sure that there are no
8 unwanted side effects. So I think that's a caution you
9 need to take into account as you deliberate on this
10 issue.

11 So let's look at FDA-approved medicines versus
12 legalized marijuana medicines. FDA-approved medicines can
13 guarantee that they're pure, not so with legalized
14 medicines. They can guarantee that they're safe because
15 they have shown through research to get there that they
16 are safe as compared to no safety legalized medicines.

17 The FDA-approved medicines can show that
18 they're effective because they have tested first in
19 animals, then in small groups of humans, then in larger
20 groups of humans, that the drug actually does what its
21 makers say it does. And that is achieved through
22 randomized controlled trials compared to nonlegalized
23 medicines, legalized medical marijuana.

24 There's a recall system in place so that once
25 the drug is approved and reaches a larger market, if side

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1 effects begin showing up that are detrimental, the FDA can
2 recall that medicine and take it off the market.

3 Doctors can prescribe FDA medicines. Doctors
4 can only recommend or certify that a patient has a
5 disease. A state has decided medical marijuana should
6 treat.

7 Pharmacies can sell FDA medicines. Only
8 dispensaries can sell legalized marijuana medicines.
9 Pharmacists can dispense the medicines if they're
10 FDA-approved. Bartenders, the medical version of
11 bartenders, dispense medical marijuana that has been
12 legalized; and they have no medical training.

13 At the bottom of your stack of slides are two
14 charts that I would like you to pull out now. And what
15 they show is first past month marijuana use among 12 to
16 17-year-old children in the United States from the year
17 2013. The most recent year of this survey has produced
18 results.

19 The red bars on this first chart show -- those
20 are medical marijuana states. The blue bars are not
21 medical marijuana states. They have not legalized
22 marijuana for medicine. And you can see that almost all
23 of the medical marijuana states have much higher rates of
24 use by their kids than nonmedical marijuana states.

25 The second chart is past smoke medical

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1 marijuana use among ages 18 and 25. So these are entry-
2 level workforce and our college students and others. And,
3 again, the red bars are used in medical marijuana states
4 by this age group versus use by this age group in
5 nonmedical marijuana states, something to take very
6 seriously and think very much about.

7 Now, if you go back to your slide packet, No.
8 2, how did we get here? Legalization forces have put
9 together a game plan over the last many years to chip away
10 at the drug laws.

11 They started with marijuana, and they plan to
12 move on to other drugs; and I will tell you more about
13 that at the end of the session. So what does that game
14 plan look like? It looks like, first, let's decriminalize
15 the drug. Lets reduce criminal penalties from -- or
16 simple possession from a misdemeanor to a civil offense
17 with a monetary fine.

18 That doesn't go far enough in our view. We do
19 not think people should be put in jail for simple
20 possession of marijuana. However, we think there should
21 be provisions for assessing people for addiction,
22 providing treatment to them if they are addicted,
23 providing drug education if they're not, and providing
24 social services to steer low-level street dealers, who are
25 mostly kids, to more productive pursuits.

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1 Second, after decrim, the next step is to go to
2 states that have ballet initiatives and legalize the drug
3 for medical use. What this does is legalize production,
4 processing, and sales; and it encourages and allows a
5 commercial marijuana industry to develop.

6 The third step is in states without ballet
7 initiatives to legalize the medical use of marijuana of
8 just one component of marijuana for just one disease and
9 then come back the next year and ask legislators to expand
10 the number of illnesses and to legalize production
11 processing and sales coming back to that commercial
12 marijuana industry.

13 The next to last step is to legalize the
14 industrial version of the drug. I'll explain more about
15 that when we get to that part. And finally to use ballet
16 initiatives to fully legalize the drug.

17 So let's look at how that has played out. By
18 1979, 11 states have decriminalized marijuana without any
19 provision of treatment or social services for people who
20 need it.

21 The trust state code did not do that until
22 2002, 20 years later, if my math is right. And why is
23 that? Well, marijuana use among adolescents, 12 to
24 17-year-olds and young adults, 18 to 25-year-olds peaked
25 in 1979 at the highest levels in the history of this

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1 country and the history of the world before or since.

2 REPRESENTATIVE BAKER: I apologize, Sue. Can
3 you hear me all right?

4 MS. RUSCHE: Yes, I can.

5 REPRESENTATIVE BAKER: Okay. Sue, would you
6 be so kind, because we're pressed for time and behind a
7 little bit, if you could somewhat summarize or finish with
8 the most salient parts of your presentation? I apologize,
9 but the Members -- we have a very tight schedule, and
10 we're a little behind. So thank you.

11 MS. RUSCHE: I'm aware of that. I'll do my
12 best.

13 REPRESENTATIVE BAKER: Thank you.

14 MS. RUSCHE: So 11 states decriminalized up
15 to 1979, and then that was stopped by an apparent movement
16 that our organization helped lead and which resulted in a
17 reduction of marijuana use by adolescents and young adults
18 by two thirds between 1979 and 1992.

19 At the time, in 1979, NORML was leading that
20 push. And the founder of the NORML said, "We are trying
21 to get marijuana reclassified medically. If we do that
22 for chemotherapy patients, we'll be using this issue as a
23 red herring to give marijuana a good name. That's our way
24 of getting to them, meaning the parent movement, just like
25 the antiparaphernalia laws are their way to getting to

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1 us."

2 So a few states legalized marijuana for medical
3 use in the '80's, but the legislative councils wrote those
4 bills to comply with federal law. None of those laws
5 legalized the cultivation, processing, or sales of
6 marijuana.

7 In the early 1990s, George Soros, a man who has
8 done much good and a man, in my view, who has done much
9 harm, told legalization organizations he would fund them
10 if they stopped talking about legalization and focused
11 instead on medical marijuana, quote, unquote, and other
12 softer targets.

13 He was joined by Peter Louis, the founder of
14 the Progressive Insurance Company, and John Sperling, the
15 head of the Apollo Group in giving millions, literally
16 millions, of dollars to key legalization organizations,
17 who include, on the next slide, the Drug Policy Alliance,
18 the richest of the groups, NORML, the oldest of the
19 groups, and the Marijuana Policy Project, the most
20 aggressive of the groups.

21 So since 1996, California voters, as you've
22 heard, were the first state, the first voters to legalize
23 medical marijuana through a ballot initiative.

24 The conditions for which patients buy medical
25 marijuana are in the next slide, and this particular slide

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1 is from Colorado where the makers of the cannabinoidal and
2 the physicians who -- like our previous speaker, who are
3 recommending it for epilepsy kids.

4 Notice that only two percent of the medical
5 marijuana card holders in Colorado are saying that they
6 need medical marijuana for seizures. By far, the vast
7 majority, 93 percent in Colorado, are saying they need it
8 for pain. And these numbers don't add up to 100 percent
9 because some people say they need it for more than one
10 reason.

11 In just one year, 2014, 12 states legalized CBD
12 to treat epileptic seizures and other illnesses. It's
13 important to understand that the products that are on the
14 market coming out of Colorado contain 20 percent CBD at
15 best. And though the labels don't display it, they also
16 contain 5 percent THC; and that is not good for the brains
17 of very young children and babies.

18 22 states have legalized industrial hemp most
19 in the last two years. So congress defined industrial
20 hemp legally as that no plant contains no more than 0.3
21 percent THC. That's industrial hemp for industrial use
22 only.

23 Any marijuana plant containing more than .3
24 percent THC is marijuana. But because they are the same
25 plant, law enforcement cannot tell the difference without

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1 testing each plant in the field before eradicating illegal
2 marijuana plants in those states that still regard it as
3 such.

4 Legalized medical CBD manufacturers have now
5 rebranded their products from special strands of marijuana
6 to therapeutic hemp in the belief that they can ship hemp
7 products to all 50 states.

8 The next slide shows you John Stanley, the head
9 of the Stanley Brothers Social Enterprises, the group that
10 makes Charlotte's Web out in Colorado, talking in Canada
11 about the marijuana strain they produce that creates
12 Charlotte's Web.

13 But now they've rebranded it to hemp extract,
14 as you can see in that slide, in the belief that they can
15 actually sell 5 percent THC containing Charlotte's Web
16 because they're calling it "hemp" to all 50 states -- to
17 people in all 50 states.

18 In 2012, Colorado and Washington State became
19 the first to legalize recreational marijuana in the
20 world. Alaska, Oregon, and the District of Columbia
21 joined them in 2014, again, all through ballot
22 initiatives.

23 So the entrepreneurs and investors are building
24 a big marijuana industry that rivals big tobacco, denying
25 marijuana harms, and targeting adolescents as their

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1 customers.

2 The next slide shows you the first 4-20, April
3 20 day, the holiday to smoke pot in public in Colorado
4 just after marijuana had been legalized for recreational
5 use. By the way, Colorado's law says no smoking in
6 public. And that fuzzy stuff you see in the back is not
7 haze or fog.

8 Finally, the head of the Drug Policy Alliance
9 and its founder, Ethan Nadelmann, has done a TED Talk just
10 a few months ago. And in that TED Talk, he says, "Legally
11 regulating and taxing most of the drugs that are now
12 criminalized, marijuana, cocaine, heroin, and
13 methamphetamine, would radically reduce crime, violence,
14 corruption, and black markets." And that is exactly the
15 way the legalization groups are trying to go.

16 So if you open this door to medical marijuana,
17 you can anticipate that there will be additional requests
18 from other sick patients with different illnesses for more
19 dispensaries, et cetera, et cetera, as they move you or
20 are trying to move you to full legalization.

21 The impact of legalization on Colorado, I'm
22 going to skip that, but I am going to take you to the
23 slide that shows a chart at the end of that section. It's
24 called U.S. versus Colorado past month marijuana use 2013.
25 Can you find that slide?

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1 REPRESENTATIVE BAKER: Yes, but we're really
2 running out of time, Sue.

3 MS. RUSCHE: I'm almost done.

4 REPRESENTATIVE BAKER: We're going to lose the
5 room here is the problem. We have another quick meeting.
6 And go right ahead. Please finish.

7 MS. RUSCHE: All right. Thank you. This
8 shows you the contrast between the national levels of
9 marijuana use among various age groups and the levels of
10 marijuana use in Colorado.

11 The first set of bars are ages 12 and older, so
12 everybody but kids, little kids. The light orange bar is
13 the national average. The dark orange bar is the Colorado
14 average. The second group of bars are adolescents, the
15 third, ages 8 to 25, and the fourth, ages 26 and up.

16 How can you all help children who have epilepsy
17 right now in a way that will protect them from
18 exploitation? First, I'm just going to go over the
19 differences between legalized CBD, such as products shown
20 here, that had 20 percent CBD at best and 5 percent THC
21 but are not advertised with 5 percent THC, and
22 pharmaceutical CBD in the next slide, which is purified,
23 it is safe, it has been tested in animals for 5 years.
24 It's in Phase 3 FDA clinical trials. It's available to
25 kids who can't qualify for clinical trials through

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1 FDA-expanded programs, extended access programs; and it's
2 98 percent CBD.

3 It's likely to be approved by the FDA at the
4 end of 2016. And at that time, doctors in all 50 states
5 will be able to prescribe it in all states. Pharmacies
6 will be able to sell it, and pharmacists will be able to
7 dispense it.

8 My advice to you -- and I understand how much
9 pressure you're under to try to sort through a very
10 complicated process. But before you act, I would advise
11 you to purchase several samples of CBD oil, which you can
12 do on the Internet, have them tested in Pennsylvania in an
13 FDA-certified lab. Test it for contaminants, for levels
14 of THC, levels of CBD, and levels of any other
15 cannabinoids. Because the best way to protect
16 Pennsylvania children is to verify what you are being told
17 by legalization advocates and desperate parents,
18 understandably so. This will help you decide how to help
19 these children. Thank you very much for allowing me to
20 testify.

21 REPRESENTATIVE BAKER: Thank you very, very
22 much, Sue. I would like to give you some good news. Last
23 week, I got a call from the governor's office, and I spoke
24 with the Secretary of Health and the Physician General;
25 and they are willing to try to fund a \$2 million project

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1 for the Epidiolex.

2 MS. RUSCHE: Fantastic.

3 REPRESENTATIVE BAKER: So I think we -- I
4 think someone is listening to you, and hopefully that drug
5 is going to get approved by the FDA. I agree we need a
6 lot more research, but it needs to be FDA-approved. Thank
7 you very, very much for your testimony, Sue.

8 MS. RUSCHE: You're welcome. Thank you.

9 REPRESENTATIVE BAKER: God Bless. We're going
10 to take a break now before we loose our little break room,
11 and we'll be back at one o'clock. Thank you very much.

12 (Lunch recess taken.)

13 REPRESENTATIVE BAKER: One o'clock having
14 arrived, the Judiciary Committee of the House of
15 Representatives will come to order. The informational
16 public hearing on marijuana will now resume, and we have
17 with us Andy Williams, the singer, Greater Denver Area,
18 President and CEO, Medicine Man & Medicine Man
19 Technologies, and Mr. Gary Greenwood, executive VP of
20 Business Development & Government Affairs for
21 BioTrackTHC. Welcome. You may proceed.

22 MR. WILLIAMS: Thank you very much. And thank
23 you very much, Chairmans Marsico and Baker for the
24 opportunity, and Committee Members for this opportunity to
25 speak in front of you today.

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1 As the CEO of Medicine Man and Medicine Man
2 Technologies in Colorado, I own a licensed medical
3 marijuana center and cultivation center, and as of 2014, a
4 retail marijuana center in Colorado.

5 Medicine Man Technologies is a consulting
6 business that I help people around the country do what we
7 do in Colorado in their state. My background is an
8 industrial engineer, and I'm also a project management
9 professional, and a veteran of the U.S. Army.

10 I was invited to share my perspective with you
11 with a focus on three areas, prevention of diversion,
12 medical cannabis testing, and the future of marijuana as a
13 medicine. And I hope you will find my testimony of use as
14 you consider this important issue.

15 First is preventing diversion. Before
16 exploring the measures states have taken to prevent
17 diversion from medical marijuana establishments, it's
18 worthwhile to briefly examine the context.

19 Despite decades of law enforcement's best
20 efforts to stop marijuana use, almost half of Americans
21 have tried it. Marijuana is widely available,
22 particularly to those we are most interested in keeping it
23 away from, youth.

24 Year after year, since long before the first
25 state medical marijuana law was enacted, monitoring the

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1 future surveys have shown that more than 80 percent of
2 high school seniors report marijuana as fairly easy or
3 very easy to obtain.

4 Meanwhile, in states where medical marijuana is
5 prohibited, many older patients who can find relief from
6 cannabis cannot access it. Others buy it on streets where
7 their own safety and safety of the product is far from
8 certain.

9 Carefully crafted medical marijuana laws allow
10 patients to obtain a consistent lab-tested product in a
11 secure setting. Several studies have shown that allowing
12 patients safe and legal access to medical marijuana has
13 not resulted in increases in adolescents' use of marijuana
14 in those states.

15 While opponents of medical marijuana, and
16 stated just a little while ago here, note that those
17 states tend to have higher teen marijuana use rates than
18 those that do not allow it, the baseline was higher.

19 Marijuana use was already higher in those
20 states before the laws were enacted. As Dr. Seth
21 Hammerman noted, a California Pediatrician, upon comparing
22 teenagers before and after marijuana-use rates in medical
23 marijuana states, the data are very reassuring that in
24 almost all cases, medical marijuana legalized for adults
25 does not lead to an increase in recreational use of

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1 marijuana by adolescents.

2 In Colorado where Medicine Man operates, the
3 most in-depth survey on teenagers, marijuana-use rates,
4 the CEC's Youth Risk Behavior Surveillance System
5 indicates marijuana use decreased slightly after medical
6 marijuana dispensaries were explicitly allowed and
7 regulated in 2010.

8 Turning to the question of what measures the
9 states are taking to prevent diversion of medical
10 marijuana, each state with a state license regulated
11 medical marijuana dispensary system has crafted
12 regulations, including security and recordkeeping rules.
13 And medical marijuana businesses are subject to
14 inspections.

15 Entities that violate the rules, particularly
16 in case of serious violation, may face suspension or
17 revocation of license. In addition, individual patients
18 who divert marijuana face both criminal penalties and the
19 revocations of medical marijuana cards.

20 Medical marijuana states with relatively small
21 patient populations such as Rhode Island and Vermont tend
22 to have less of those regulations. For example, these two
23 states do not require sophisticated seed-to-sale tracking
24 systems. Nonetheless, there are no known cases of
25 diversion from the dispensaries in either state.

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1 States with higher patient populations tend to
2 have more stringent regulations. And in those cases, it's
3 easier for medical cannabis businesses to absorb the cost
4 of regulating without charging prohibitive expensive
5 prices.

6 Colorado is one such state, and we have more
7 than 100 pages of state regulations in the city
8 requirements. They include inventory tracking, video
9 surveillance, badges, and background checks for
10 employees.

11 In Colorado, it's regulated very much like the
12 gaming industry where background checks have to be done
13 before you work there. Detailed requirements for security
14 systems and locks, waste disposal, and any of our waste
15 has to be unrecognizable and unusable so that people don't
16 get marijuana from waste marijuana from your dumpsters,
17 which waste marijuana is really stems and dry leaves that
18 can't be used to be smoked. So it's very unusable.

19 We undergo lots of inspections. I get visitors
20 from the fire department, from the Marijuana Enforcement
21 Division, Department of Health, Department of Agriculture,
22 and most recently OSHA in my facility on a regular basis.

23 Packaging, all cannabis products have to be
24 sold in either a child-proof container or opaque
25 resealable package. Transportation rules, recordkeeping,

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1 audits, we undergo audits all the time by the NAD looking
2 at records making sure that we're doing what we're
3 required to do in order to prevent this diversion activity
4 and other activities that the state wants to prevent.

5 In addition, individual licensees often go
6 above and beyond legal requirements. For example,
7 Medicine Man employees trained security guards in addition
8 to the video surveillance at the facility.

9 As Colorado and other recent medical marijuana
10 states have shown, numerous procedures can be put in place
11 to ensure close supervision of medical cannabis
12 providers.

13 There were a few bumps in the road in Colorado
14 when we initially transitioned from an unregulated gray
15 market to a medical marijuana program in 2009 to a fully
16 regulated one in 2010.

17 The state is continuing to update and revise
18 its procedures and regulations to best serve patients in
19 the public at large. And speaking from the heart, the
20 Marijuana Enforcement Division is doing a fantastic job.
21 Numerous states are learning from the lessons of
22 Colorado.

23 Testing, now, this is certainly a very
24 important issue. And although modern medical marijuana
25 laws have been on the books since 1996, they've only

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1 matured enough to include state license and regulated
2 medical cannabis businesses in recent years.

3 This is partly because of the hostile federal
4 climate in which providers operated, which made regulation
5 and transparency difficult. Now that both the President
6 and congress support policies of nonintervention in
7 medical marijuana states, regulatory standards are rapidly
8 evolving to better serve patients in the public. This has
9 included mandatory third-party testing, independent --
10 well, mandatory third-party independent laboratory testing
11 of cannabis.

12 When patients buy marijuana on the street, they
13 have no idea what harmful or even illegal pesticides it
14 may contain or whether the toxic levels of molds or
15 bacteria may be present.

16 Street marijuana may even be laced with hard
17 drugs. In contrast, in the newest and most advanced
18 medical marijuana states, patients who buy cannabis
19 products from licensed providers know their medicine is
20 safe and tested.

21 And I did hear some talk earlier about people
22 saying that wasn't the case, but that's not true. In
23 Colorado, we do test our marijuana. The rules are
24 evolving right now. Some of the issues in pesticides are
25 tough to deal with because there has been no testing at

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1 universities and other places that say, okay, you know,
2 what is an allowable residual of a specific pesticide.
3 And pesticide companies, of course, haven't tested for
4 that.

5 So it's difficult to do, and Denver right now
6 has some pretty draconian rules out there for what we can
7 use. So probably the most clean crop in the United States
8 is, I think, 96 percent of all crops in the United States
9 are grown with pesticide. Marijuana in Denver, anyway,
10 isn't. It's a difficult thing to do, and it would be nice
11 to be able to use some of them. I think over time, these
12 rules will straighten out. You know, it is far safer than
13 buying it on the street illegally.

14 Medicine Man does send samples of all the
15 cannabis we cultivate to CannLabs for testing. CannLabs
16 is a licensed tester in Colorado. We do not yet have
17 infused products licensed. But all the products we do
18 purchase from third parties are tested and labeled.

19 It should be noted that testing is expensive,
20 and as the case with any other regulation, can drive up
21 the ultimate price to patients. It is advisable to
22 consult with experts and cannabis testing and to consider
23 whether some requirements are best dealt with by
24 regulating what pesticides or soil conditions cultivators
25 may use rather than requiring batch testing for

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1 everything.

2 For some tests, such as for prohibited
3 pesticides or heavy metals, it may be more advisable to
4 require only rare, random tests or tests where there's
5 suspected violation.

6 Determining what pesticides will be allowed for
7 medical marijuana cultivation is also a fairly new issue
8 in the marijuana regulatory field; but standards are
9 rapidly growing, and Washington and Colorado and Maine all
10 have standards for what regulated growers may use to
11 control pests that can be used as an example.

12 Developing knowledge of the medical benefits of
13 marijuana -- and as a side note, I am starting a company
14 in Colorado right now. I'm working with a pharmacist who
15 has 26 labs around the country that just got a lifetime
16 achievement award and scientists from the University of
17 Colorado, University of Massachusetts, and other experts
18 around the country that are very well-known, in
19 establishing a lab where we will be working with the
20 compounding and formulation of marijuana for consistent,
21 reliable, repeatable marijuana medicines, and many
22 different dosages and delivery methods.

23 And I'm just one company doing this right now.
24 I don't think I'm the only one that has had this idea to
25 put a group of scientists and experts together to do this

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1 sort of thing. So as these laws allow, companies like the
2 one I'm forming will be developing medicines that are
3 FDA-grade. I can't go to the FDA right now because
4 marijuana is a Schedule 1 narcotic. It will be able to
5 meet those same standards, because the people I have
6 working with me do that on a daily basis in all their
7 other jobs.

8 So, anyway, that aside, although marijuana has
9 recorded medical history that dates back more than 5,000
10 years, we're only just beginning to scratch the surface of
11 understanding the therapeutic methods of cannabis.

12 47 percent of Americans now live in states that
13 allow medical cannabis; yet, the federal government
14 created an extremely difficult approval process for
15 researching the whole plant marijuana's medical benefits.
16 I do stress "whole plant."

17 In addition, it is provided minimal funding for
18 such research, and it has failed to make available a wide
19 variety of strains in marijuana. Consequently, research
20 is far more limited than it should be for treatment
21 options that has been used for millennia.

22 Nevertheless, dozens of clinical studies have
23 established cannabis as a medical value, and their
24 knowledge of its therapeutic value has begun to grow at a
25 fairly rapid pace.

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1 Since 1999, researchers with the Center For
2 Medical Cannabis Research, which was funded by \$8.7
3 million from the State of California, has completed 12
4 clinical trials on smoke to vaporize marijuana's medical
5 efficacy and safety.

6 CMCR's clinical research showed that marijuana
7 is safe and effective at relieving acute pain, muscular
8 spasticity associated with multiple sclerosis and multiple
9 types of neuropathic pain, which is notoriously
10 unresponsive to traditional medications.

11 All four of the neuropathic pain studies
12 demonstrated significant decrease in pain after cannabis
13 administration. As Dr. Igor Grant, a neuropsychiatrist
14 who served as director for the Center for Medical Cannabis
15 Research, explained, every one of the studies showed a
16 benefit.

17 A study published in clinical pharmacy and
18 therapeutics found that medical marijuana may allow for
19 opioid treatment at lower doses with fewer side effects
20 because it augments the pain relief from prescription
21 painkillers.

22 This is particularly noteworthy because around
23 16,000 Americans die each year from overdosing on
24 prescription opiate painkiller. In Colorado, that number
25 has decreased 25 percent since the introduction of medical

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1 and now retail marijuana.

2 Just a point: When people talk about
3 overdosing with marijuana, there has been no cases of
4 anybody dying from overdosing on marijuana, except maybe
5 the guy that had a 4,000-pound bale that dropped on him.
6 Opiates, they do die. They don't wake up the next day
7 saying, wow, I learned my lesson, I'm not going to do that
8 again.

9 Other studies have shown cannabis increased
10 adherence to both antiretroviral therapies for HIV and to
11 interferon, Lipovarin, sorry about the pronunciation,
12 treatment for the Hepatitis C virus.

13 There has also been research indicating
14 marijuana has nerve protective benefits, including for
15 ALS. That may help with the symptoms of ALS, including
16 pain, spasticity, drooling, and wasting.

17 We are just beginning to learn about
18 cannabinoids' potential in cancer treatment. One of the
19 data noted, regarding effectiveness, cannabinoids exert a
20 notable anti-tumor activity.

21 Regarding toxicity, cannabinoids not only show
22 the good safety profile but also have palliative effects
23 in patients with cancer, indicating that clinical trials
24 with cannabinoids in cancer therapy are feasible.

25 Dating back to the 1970s and 1980s before

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1 obtaining federal approval for researching the benefits of
2 whole-plant marijuana became so difficult, several studies
3 found that marijuana effectivity alleviated nausea,
4 appetite loss caused by chemotherapy.

5 And a clinical trial sponsored by New York
6 State found 56 patients who had no improvement with
7 standard antiemetic agents were treated, and 78 percent
8 demonstrated a positive response to marijuana. Inhalation
9 marijuana is an effective therapy for the treatment of
10 nausea and vomiting due to cancer therapy.

11 Since 1990, receiving federal approvals
12 necessary for medical cannabis research in the U.S. and
13 then obtaining cannabis, itself, has often taken years
14 when it has been forthcoming at all.

15 However, other countries have rethought their
16 approaches to medical cannabis and are also beginning to
17 conduct more research. In Canada, whole-plant medical
18 cannabis has been legal since 2001. Researchers found
19 that marijuana was superior to placebo at alleviating pain
20 and that it helped patients with anxiety and sleep.

21 This spring, the Canada Consortium For the
22 Investigation of Cannabinoids plans to launch a
23 longitudinal study of patients who use medical cannabis
24 for chronic conditions.

25 Data is also accumulating in Israel where

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1 medical cannabis is used for a variety of patients,
2 including those with pain, basal cell carcinoma,
3 psoriasis, Parkinson's, PTSD, epilepsy, and sleeping
4 disorders.

5 One study conducted in Israel found that smoked
6 cannabis resulted in complete remission of Crohn's disease
7 in 5 of the 11 patients compared to none who were given a
8 placebo. 5 more saw 50-percent reduction. So 10 of the
9 11 had benefits.

10 Unlike other treatment options, there are no
11 significant side effects. Israeli researchers have also
12 seen indications that marijuana can reduce incidents of
13 diabetes, reduce seizures, and limit the permanent damage
14 on heart attacks.

15 In the coming years, our knowledge of cannabis
16 medical benefits will surely continue to expand. In
17 addition to the federally-approved and international
18 clinical trials, observational studies of patients
19 enrolled in state medical marijuana programs have begun,
20 including patients with intractable epilepsy.

21 Although it can be tempting for some policy
22 makers to suggest merely isolating individual cannabinoids
23 and putting them in pills rather than allowing the whole
24 plant in a variety of modes of administration, research
25 indicates that marijuana's different compounds act

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1 synergistically, creating what is known as an entourage
2 effect.

3 THC, which can be extremely beneficial for pain
4 and nausea, can be too intoxicating on its own. That is
5 one reason many patients dislike the prescription of the
6 drug Marinol, which is 100-percent synthetic THC.

7 Other cannabinoids moderate the high and have
8 their own medical value. We know very little about,
9 terpenes, which are the fundamentals that gave marijuana
10 the smell; but they, too, are likely an important part of
11 the entourage that gives the patient the relief they
12 find.

13 As our knowledge in marijuana's medical
14 benefits is maturing, so are the options of
15 administration. In the 1930s, pharmacists legally sold
16 cannabis. A few decades ago, medical cannabis was
17 commonly administered by marijuana cigarette or by
18 brownies.

19 At today's dispensaries, patients have a wide
20 variety of options available. Edibles allow patients
21 longer lasting relief than does smoking and vaporizing,
22 while inhalation allows for immediate relief and precise
23 titration dosage.

24 Some patients find topical salves relieve
25 rheumatism pains or even burn wounds. Minors with

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1 intractable seizures commonly use oils. Some patients are
2 administering cannabis raw in smoothies or in salads.
3 Other options include suppositories, tonics, and, once
4 again, tinctures.

5 While there are limits to our knowledge of
6 marijuana's therapeutic value, it is becoming increasingly
7 untenable to maintain a patient should be denied safe
8 legal access to medical cannabis.

9 Every day, some Pennsylvania patient who does
10 not respond to any other drug from the seizures, pain,
11 nausea, whatever, is breaking the law by turning to
12 marijuana. Others are suffering without relief.

13 In my work at Medicine Man, I met hundreds of
14 grateful patients and their loved ones who have been able
15 to return to a normal or almost normal life with the help
16 from medical cannabis. And I hope you'll give
17 Pennsylvania patients the same legal option.

18 I think I'll stop there. There's more
19 testimony that I submitted in written form. There are
20 maybe two stories I would like to tell that goes against
21 something that -- I think, anyway, if I understood you
22 right, Chair Baker.

23 I had a woman come to me one day. I talk to
24 the people that come to my stores a lot. And she grabbed
25 me by the arm very forcefully, and I thought she was

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1 angry. I didn't know why. And she said, "I need to talk
2 to you." I said, "Why?" And she started breaking down in
3 tears then.

4 She said, "I want to thank you." I said, "For
5 what?" She said, "I have a five-year-old niece who
6 without the benefit of the marijuana that I buy here would
7 be in an induced coma because her seizures are so bad and
8 the treatment noneffective that when we gave her this, she
9 could actually function as a little girl, maybe not a
10 normal little girl, but she can function. She's not in an
11 induced coma." So the opposite of what you said earlier,
12 if I heard you right.

13 REPRESENTATIVE BAKER: I'm not sure what
14 you're referring to. I was quoting 12 different medical
15 associations and their concerns, particularly the American
16 Epilepsy Society out of Colorado.

17 MR. WILLIAMS: Yeah. I know you were quoting
18 a lot of doctors and scientific organizations. I'm not
19 doubting that they have evidence for whatever they
20 claimed. I just want to give you an antidotal story to
21 the contrary.

22 And then also, the people that come to our
23 store from Pennsylvania, from other places, and the
24 feeling of independence they get when they are able to buy
25 marijuana for the first time, their choice to use

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1 marijuana for whatever reason, for whatever condition that
2 they're trying to treat, and they come to Colorado to do
3 it, it is the yoke of tyranny being lifted from their
4 shoulders that they feel. They literally will just jump
5 up in the air and give a hoot or holler because it's such
6 a sense of freedom.

7 And to see people still suffering under the
8 yoke of that tyranny of government that prevents them from
9 getting the medicine that they need is a wonderful thing
10 that I get to experience on a daily basis.

11 So I hope Pennsylvania does allow Pennsylvania
12 residents, citizens, the right to get this medicine that
13 they so deserve, if needed. And I do want to introduce
14 Gary here.

15 MR. GREENWOOD: Hello? Can you hear me? All
16 right. Andy here was nice enough to invite us to come and
17 talk along with him. He uses our system, our seed-to-sale
18 system, to add an extra layer of traceability to this
19 program, and so I just have very short testimony here.

20 First of all, I would like to thank each and
21 every one of you. We've worked really closely with your
22 counterparts and the State of Washington and know what
23 they go through. Your job is a difficult one, and your
24 efforts are much appreciated.

25 I would like to introduce myself. I'm the

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1 Executive Vice President of Government Affairs for
2 BioTrackTHC. We are a Florida company headquartered in
3 Fort Lauderdale. We've been serving the marijuana
4 industry for over six years.

5 We designed and developed the mandated
6 marijuana state monitoring system for the State of
7 Washington recreational marijuana industry; and we've just
8 recently been awarded the State of New Mexico's bid to
9 create the monitoring system for their new medical
10 marijuana program.

11 As I'm certain most here are aware, the
12 Department of Justice issued a memo in August of 2013; and
13 that memo indicates that the strong state monitoring
14 system is the key to satisfy their guidance.

15 "In jurisdictions that enacted laws legalizing
16 marijuana in some form and have also implemented strong
17 and effective regulatory and enforcement systems to
18 control the cultivation, distribution, sale, and
19 possession of marijuana conducted in compliance with those
20 laws and regulations is less likely to threaten the
21 federal priorities."

22 "If state enforcement efforts are not
23 sufficiently robust to protect against the harm set forth,
24 the federal government may seek to challenge the
25 regulatory structure, itself, in addition to continuing to

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1 bring individual enforcement actions, including criminal
2 prosecution's focus on those harms."

3 Our primary concern is to prevent the shutting
4 down of our desperately-needed industry while providing
5 comfort to both federal government and concerned
6 medicines, that this medicine is not being diverted, and
7 that the medicine being purchased has, in fact, passed the
8 required testing and is safe for consumption.

9 As we review rules from many states with
10 respect to product testing and recordkeeping, we have
11 found that there is no unified platform allowing for easy
12 collection of data for the enforcement of these rules.

13 The burden falls on the department to actively
14 obtain the data relevant to determine cultivators and
15 dispensing organization's compliance.

16 We have worked with many of these states'
17 departments prior to the writing so that the state can
18 educate themselves on what options are available in a
19 strong regulatory system.

20 The monitoring system that the State of
21 Washington uses to oversee the adult-use marijuana
22 cultivators and retailers has been a very effective tool.

23 Every plant, every fraction of a gram, is
24 visible to the Washington State Liquor Control Board in
25 real time. All products can be forwarded, forward-traced

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1 from seed to sale and backwards-traced from sale to seed.

2 Lab test results are visible in real time.

3 Wholesale product cannot be transferred without a
4 standardized and electronically-filed shipping manifest to
5 the agency, and the system will block the generation of a
6 manifest if the product fails the lab testing.

7 Law enforcement can easily, quickly verify
8 information in real time if a cultivator's wet-to-dry
9 ratios are outside of a reasonable range. That also can
10 be flagged.

11 I can go on and on about the value of having
12 data digitally submitted to the agency in real time
13 enabling the agency to be proactive in ensuring compliance
14 and to hold cultivators and dispensing organizations
15 accountable for the source and the whereabouts of the
16 product and their activities.

17 The system even provides a solution to the
18 banking problems. Because dispensing organizations can
19 tie cash deposits directly to the sale of what the state
20 considers a legal inventory providing comfort to the
21 financial institutions that the monies that they are
22 handling on behalf of their clients are neither laundered
23 monies nor resulting from the sale of illegal inventory.

24 We would like to see language empowering the
25 department to implement a state monitoring system in which

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1 cultivators, processors, and dispensing organizations are
2 required to report their inventory data to which testing
3 labs report testing results, so that the department can
4 efficiently spend its time viewing quality and insightful
5 data to enforce the rules that ensure that your state can
6 continue to provide this desperately-needed medicine
7 without federal interference.

8 We want to make sure that this product gets to
9 the patients for which it's intended safely and
10 effectively while preventing it from being diverted to
11 those who it is not intended.

12 Politically, both supporters and opponents of
13 legal marijuana, whether for medical or adult use, can get
14 behind technology that brings transparency and, therefore,
15 accountability to the marijuana industry.

16 We have learned from our experience that many
17 states don't know what to put in their regulations until
18 they see a demo of what is available in a proven
19 technology system.

20 So at this time, I would like to offer your
21 state a live demo at your convenience to help properly
22 implement the state monitoring system. Thank you.

23 REPRESENTATIVE BAKER: Thank you very much,
24 sirs, for your testimony. Mr. Williams, you had mentioned
25 that marijuana has been associated with being laced with

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1 other types of drugs. Could you enumerate those drugs
2 that you found marijuana laced with?

3 MR. WILLIAMS: I haven't found it, but, you
4 know, in research and in speaking with people, I've heard
5 that some people, you know, in the past have laced
6 marijuana with drugs. You can lace it with anything
7 that's made from an oil or a powder. I mean, literally,
8 you can sprinkle cocaine on it if you wanted to.

9 I'm not part of the black market, and I didn't
10 take part in it prior to becoming a legal marijuana
11 business owner. So I'm not totally familiar with it, but
12 I mentioned it as something that in my research I did see
13 come up.

14 REPRESENTATIVE BAKER: I have read a fair
15 amount of literature about the black market in Colorado
16 has been created. It's a fairly robust enterprise, as I
17 understand it. And there's a lot of associations with
18 trafficking the drugs. Obviously, there's a class action
19 lawsuit with joining states in Colorado, as I understand
20 it.

21 But you had mentioned marijuana can be laced
22 with other drugs, and I was just curious as to what other
23 drugs.

24 MR. WILLIAMS: Anything you can sprinkle on
25 it. But, you know, when you talk about the black market,

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1 the illegal marijuana industry in Colorado didn't create
2 the black market in Colorado. It has always existed.

3 The legal marijuana industry in Colorado cuts
4 directly into the black market. What we provide is not
5 provided in the black market anymore.

6 And as far as going from state to state or
7 diversion to other states, yes, there's a lawsuit; but
8 that doesn't prove anything. And, you know, it's a
9 lawsuit right now. And in terms of diversion, it's not
10 coming from the legal side of the house. If anything,
11 it's coming from the illegal side.

12 Colorado recently just passed a law. So
13 there's two sides in Colorado. There's the caregiver
14 model, if you're familiar with that, and the medical
15 marijuana or retail marijuana model.

16 The caregiver model is outside of our
17 closed-loop system, and Colorado recently has taken steps
18 to control that, in that instead of having a 99-plant
19 limit for caregivers who would go to other individuals and
20 say, hey, you know, you have a prescription to grow
21 marijuana from the doctor, I will grow those six plants
22 for you, because everyone gets six plants to grow.

23 So they go to multiple people, get 36 plants or
24 whatever they could grow; and they would grow them
25 themselves. And then a group of those people would work

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1 together, and they would have kind of a consortium of
2 people that would then get a warehouse or whatever and
3 have really a large grow, industrial grow, under the
4 caregiver model that wasn't being regulated like the
5 closed-loop system of the medical and retail marijuana
6 system. And so really, there's no traceability of that
7 marijuana at all.

8 In terms of me or any other licensed marijuana
9 center being able to divert large amounts of marijuana out
10 of state, it would be impossible. I mean, we track down
11 to grams of marijuana on plants. If there's big
12 discrepancies with that, we're going to get a knock on the
13 door. It's not hard to watch us for that.

14 REPRESENTATIVE BAKER: Thank you.

15 MS. KROSSE: Just real quick, I want to
16 indicate for the Members still here and for Members that
17 have already left, the BioTrackTHC has provided us with
18 some handouts for members. We will be scanning them and
19 sending them to you in your e-mail. For everyone else, we
20 will upload them with a list of all the links. So you'll
21 have access to all the information we received today.

22 REPRESENTATIVE BAKER: Any questions?

23 Represent Cox.

24 REPRESENTATIVE COX: Thank you, Mr. Chairman.
25 Thank you for your testimony. I've been to hearings in

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1 Philadelphia, Harrisburg, and now here. I've been waiting
2 for testimony like this.

3 You have touched on so many issues that I have
4 been researching independently, the use of the whole
5 plant, the nature of what promise that cannabis might
6 potentially hold, and the research done in other
7 countries, and the clinical studies done in California.

8 You know, everyone likes to say there are no
9 studies done, but if you're willing to look at them,
10 there's a lot of studies out there. And Dr. Shackelford
11 highlighted the fact that he's comfortable following the
12 studies that have been done in striving or recommending to
13 his patients.

14 So with that, I want to thank you for just
15 covering so much information. I wanted to see if you have
16 a recommendation, the combination of the two of you
17 answering this, is there a way to test -- I'm trying to
18 think of another model.

19 I guess the existing model for how alcohol is
20 processed, we don't go into -- I don't believe we do. We
21 don't go into every brewery or every distillery or
22 whatever and say, you know, we're going to test for a
23 certain level of alcohol as you've got labeled on your
24 bottle.

25 What do you recommend as far as a practical way

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1 to make sure that if we pass the law that said THC levels
2 cannot be higher than ten percent or whatever, is there a
3 way to do that without drastically increasing the cost?

4 My primary objective is if we're going to do
5 this, it has to remain affordable and accessible to
6 patients. And so that's my goal, get it into their hands
7 if they need and making sure that we don't ratchet up the
8 costs with unnecessary regulations.

9 So is there a time, a place in the process that
10 you would recommend for what you've seen that gives us the
11 results that we want making sure the product is what we
12 say it is, but also making sure that it's not creating a
13 financial burden on the company who has to pass it along?

14 MR. WILLIAMS: Yes. Colorado has done a good
15 job of setting up testing requirements for the cannabis
16 industry that you can look at. Now, you know, I'm not
17 sure how you're going to be setting it up here, how many
18 patients there are going to be, how many plants people are
19 going to be able to grow.

20 But in Colorado, it's a fairly robust industry,
21 the costs associated with what I'm about to tell you are
22 very bearable and do not cause a significant increase at
23 all in the price of cannabis.

24 So with our plants, we have to test every
25 strain three times within a six-month period of time. So

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1 right now, I'm writing 57 different strains of cannabis in
2 my facility. So whatever that is, 171 different tests in
3 a 6-month period.

4 And should any of those tests fail for whatever
5 reason, that regimen keeps up, and, of course, depending
6 on what it failed for, might result in my plants not being
7 able to be used for sale or whatever it might be.

8 But should I pass those tests during the
9 time -- I'll tell you what we test for in a moment. But
10 if we pass those tests during that time, then the testing
11 becomes less onerous. So I think it's once every six
12 months or something like that that every strain has to be
13 tested.

14 Anyway, this is something we just started, and
15 it seems to be working really well. It's not a big
16 burden. We started with testing the strength of the
17 cannabis first in terms of the cannabinoids, the THC, and
18 other cannabinoid content that's within the plant.

19 I would suggest not really limiting what a
20 plant can or can't have in it because there are
21 differences in needs of people. You know, somebody that
22 doesn't use cannabis a lot and wants some beneficial need
23 for epilepsy or something else that a CBD can do, they can
24 do a really low-level THC with a higher level of CBD, and
25 that will help them.

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1 Some people with pain or other things that they
2 really do want a high level of THC and have been using
3 cannabis for a lot of years needs something that has a
4 little bit more potency in order to affect them, just like
5 people that take opioids. Over time, they need more of it
6 in order for it to affect them properly. And it's the
7 same with cannabis. The tolerance is built up.

8 Other things to test for would be harmful
9 things such as molds or mildews, E. coli, salmonella.

10 MR. GREENWOOD: That's what they're doing in
11 Washington now.

12 MR. WILLIAMS: Yep. In Colorado, that's
13 mandatory here in a couple of months as well. I've been
14 testing for that personally for a long time, but it will
15 be mandatory there.

16 And then also pesticides. So this is the
17 tricky one because, you know, there's pesticides like
18 Abound which help prevent molds and mildews and things
19 like that that's really nice to use and has a low REI,
20 which is the amount of time it would take when you apply
21 it to the time that somebody can enter the room that it
22 was applied safely. It's a four-hour REI, which is rather
23 low. And, you know, on similar types of plants, it's
24 shown to be used in vegetables and things like that; but
25 it doesn't say cannabis.

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1 And the question is, does it really hurt
2 somebody if it's smoked after Abound was used. So is it
3 in the plant at all? So I've done my own studies on that,
4 and I found that that particular chemical does not last if
5 applied properly to the time you harvest it and dry it
6 out. There's nothing in the plant that tested for
7 residuals on that.

8 There's other products out there that have been
9 known to be used in the past like Eagle 20. And while
10 that product is not out of the plant and then, again,
11 prevents molds and mildews, if applied properly, that
12 plant will have some residuals. I think it's like one
13 part per million or something like that in a plant when
14 it's done.

15 But is that harmful for a human or not? I have
16 no idea. So setting those limits are the tricky part for
17 your rule making.

18 REPRESENTATIVE COX: Thank you. Another
19 question I had that you may or may not feel qualified to
20 answer, but in looking at other states, you seem to have
21 explored what other states have done; and, obviously, you
22 chose to operate a business in Colorado for various
23 reasons.

24 If we, as policy makers, are looking at saying,
25 okay, how do we want to regulate this as far as access,

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1 there's kind of two models. One, I haven't seen other
2 states do, and somebody actually recommended it to me
3 recently.

4 Most states seem to say, you know, the
5 following conditions. If they list conditions, they list
6 a bunch of conditions. Some of them adopt the catch-all
7 of pain, and that seems to be the problem according to
8 some earlier testifiers. It's kind of a -- it is a true
9 catch-all. And with 90-some-odd percent of people who get
10 an access card or medical marijuana end up getting it for
11 "pain."

12 In order to avoid that, somebody suggested to
13 me maybe we should, instead of limiting the conditions,
14 limit the types of doctors who could recommend to those
15 who handle those types of conditions.

16 A neurologist would see patients for any number
17 of conditions; an oncologist, number of conditions, et
18 cetera. And so, you know, four, five, six board certified
19 types of physicians was kind of a suggestion as a way to
20 avoid putting the legislature in the position of being
21 doctors saying treat for this condition but not that
22 condition, even though we don't deal with any other area
23 for opioids or otherwise.

24 We don't say -- we don't limit off-label use,
25 in other words. FDA says, "We recommend this use for Oxy"

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1 or whatever medication is there. But then the off-label
2 use is prolific. We know that.

3 Do you think there's a benefit in going down
4 the other road instead of limiting conditions, which I
5 feel gives us an inability to respond to the research that
6 is going to happen? I would like to say, you know, like
7 the medical community -- I think doctors should decide
8 that.

9 And maybe if people are concerned about it,
10 maybe we limit who can dispense it at this point or who
11 can recommend based on their training as opposed to an
12 artificial list of conditions that may or may not make it
13 on the final list.

14 MR. WILLIAMS: Yes. That's a good question.
15 Thank you. I like the way you're thinking in terms of
16 letting the research and the doctors have control over,
17 you know, their relationship with the patient.

18 I'm not sure how that would work with the Board
19 or whatever else. Are you saying the Board would maybe
20 have the decision-making ability for conditions, or would
21 they have to review every application that came in?

22 REPRESENTATIVE COX: I'm thinking more of
23 saying if you are a Board certified pain specialist or,
24 you know, legislation might say that that individual would
25 be able to recommend.

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1 However, if you are a pediatrician with no
2 Board certification in treating adolescent epilepsy or
3 whatever, and I don't know all the levels of certification
4 available out there, but it would be that mindset that we
5 say this individual, this medical professional, has this
6 level of training, and, therefore, we trust them to take a
7 look at the research rather than having them come back to
8 us and say, we need legislation that adds this condition
9 or even putting it onto the Board.

10 We've seen state boards in Pennsylvania. We've
11 got boards that look at the vehicle construction code that
12 are months and months and months behind in reviewing
13 applications or changes.

14 I don't want to create another bureaucracy that
15 puts our patients at risk, that they've got to wait months
16 upon months or even years for a condition to be added when
17 doctors can be doing that kind of in the field because
18 they have the training already.

19 MR. WILLIAMS: Yeah. The way you're speaking
20 sounds very good. I'm for more freedom in terms of the
21 scientific community and the physician, the doctor
22 community, with the relationship with the patients being
23 able to decide that.

24 I do worry. I know physicians right now are,
25 in some states, afraid to prescribe marijuana, so making

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1 sure that there's not that hammer hanging over their head
2 if they make a decision, so they feel free to do that.

3 Even my own doctor won't prescribe marijuana to
4 me. He has been in practice for a long time, and it's
5 something new to him; and he's just not willing to look at
6 it.

7 So, you know, there's some things you have to
8 get over that hurdle as well. But I like the way you're
9 thinking, letting the doctors and the professionals and
10 the scientific community make decisions. It seems more
11 flexible than, you know, the legislative process and
12 whatnot. There's only certain times that that can be
13 effective.

14 REPRESENTATIVE BAKER: I apologize. We do
15 have another person waiting from Colorado to testify. We
16 do have a couple more Members that wanted to ask
17 questions. Quickly, Representative Lawrence.

18 REPRESENTATIVE LAWRENCE: Thank you,
19 Mr. Chairman. And I appreciate your testimony and the
20 fact that you have come all the way from -- you've come a
21 long distance. I came from a long distance. You come
22 from a lot further. I appreciate your willingness to
23 appear before the community today. I don't have any
24 questions, but I'll just boil it down since I know we're
25 pressed for time.

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1 Can you tell me a little bit about -- when
2 individuals come into your business to make a purchase,
3 cash, check, credit card, we've heard a lot of testimony
4 previously in this committee that it's an all-cash
5 business, difficulty with banking, et cetera. Could you
6 talk a little bit about that?

7 MR. WILLIAMS: Certainly. I've certainly had
8 difficulty with banking. I've had, I don't know, ten
9 banks over the years the five years I've been in business.
10 I usually keep two, one on the way and one I'm going to
11 move to when that one closes me down.

12 Banking in the last, I don't know, eight
13 months, seems to have loosened up a little bit. I had
14 kind of gone through my list of banks that I had any
15 options for, and I was working without a bank for quite a
16 while, paying employees with cash, paying vendors with
17 cash, paying the state government with cash, et cetera.

18 Colorado even had to make its own process where
19 our security guards would get those big bags of cash, and
20 they would go into the back room; and they were at the
21 cash-counting machine in order to collect the taxes from
22 us. It was very dangerous for myself, and it's very
23 dangerous for many at large. It's a public safety issue,
24 banking is.

25 REPRESENTATIVE LAWRENCE: Do you take cash,

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1 check, credit card? Do you take just cash?

2 MR. WILLIAMS: Right now, I'm taking just
3 cash. I did lose my credit cards about six weeks ago
4 again. The bank that was processing our credit cards went
5 under audit. They got scared, closed us down. They gave
6 us a wink and a nod saying as soon as the audit is done,
7 they're going to get us back on. So this is the kind of
8 thing I deal with on a daily basis.

9 They're about to turn our credit cards back on
10 right now. I do have a bank right now that is a Colorado
11 bank, privately owned. I feel pretty secure with them.
12 But I am also actively working on getting another bank
13 just in case it gets cold feet.

14 REPRESENTATIVE LAWRENCE: I assume when you
15 open the account with the bank, they know what your
16 business is.

17 MR. WILLIAMS: Yes. I'm completely honest.
18 Now, in the past, I got to say, I've been less than open
19 in that they ask me what I do for a living. Like, I call
20 the national bank, and I want to establish an account.
21 And they say, "Well, what do you do for a living?" And I
22 said, "Retail." And they said, "Okay." And they didn't
23 ask me any more questions.

24 So I didn't lie, but I wasn't open about what I
25 did. But, you know, I have 70 employees. I paid millions

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1 of dollars in construction. Operating a business is not
2 easy without a bank.

3 REPRESENTATIVE LAWRENCE: So is this account
4 -- and I apologize. I don't mean to be asking personal
5 questions, but it's relevant to the topic at hand and this
6 committee as we move forward.

7 These accounts, are they in your personal name,
8 or are they in the name of the business LLC or corporate
9 structure?

10 MR. WILLIAMS: They're in the name of my
11 business.

12 REPRESENTATIVE LAWRENCE: A corporate Social
13 Security Number and tax ID.

14 MR. WILLIAMS: Yes, it is in the same of my
15 business. My business was originally formed as Medicine
16 Man Production Corporation. The actual legal name of my
17 business now is something different, something innocuous
18 that doesn't sound like marijuana that I can use on
19 applications such as this without drawing attention, and
20 DBAs are set up for the business names that I use.

21 REPRESENTATIVE LAWRENCE: I appreciate your
22 testimony. Thank you, Mr. Chairman.

23 REPRESENTATIVE BAKER: Thank you,
24 Representative Lawrence. Representative DeLissio.

25 REPRESENTATIVE DeLISSIO: Mr. Greenwood, just

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1 a quick question. Do you know if your tracking system
2 is -- is there such a comparable system for a more
3 tradition pharmaceutical company? Are you aware if they
4 have any such requirements for tracking their product?

5 MR. GREENWOOD: Well, in Connecticut, it's
6 pretty much a pharmaceutical nature; and they're utilizing
7 our system up there. So I'm not --

8 REPRESENTATIVE DeLISSIO: I mean FDA-approved
9 pharmaceuticals. Does this type of tracking system exist
10 for --

11 MR. GREENWOOD: No. I would say not. What we
12 did -- actually, what our program was built on was a
13 doctor shopping back, you know, 12 years ago when we were
14 having the problem. We built the program to defer doctor
15 shopping and tracking, patients that would come in and use
16 the biometric fingerprint. Whereas, they would come in
17 and use their fingerprint. It was encrypted. There was
18 no other information other than that patient was
19 two blocks down yesterday getting the same prescription.

20 So that's kind of -- we built our software
21 program from the medical aspect. It's HIPAA-compliant,
22 SAS 70 audited. DEA asked us -- they were interested in
23 it. We built some software for the DEA for
24 methamphetamine tracking. So is that kind of where you're
25 --

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1 REPRESENTATIVE DeLISSIO: Well, you were doing
2 prescription monitoring, and we just recently passed that
3 legislation and looking forward to that being up and
4 running in our state. No. I meant just a tracking --
5 literally a tracking system from when an FDA-approved
6 pharmaceutical is manufactured, you know, through shipped,
7 wholesale, retail, the whole nine years, if any of that is
8 tracked.

9 MR. GREENWOOD: Right. We do it from seed to
10 sale.

11 REPRESENTATIVE DeLISSIO: Not for that. For,
12 I mean --

13 MR. GREENWOOD: Oh. You're looking for the
14 pharmaceutical?

15 REPRESENTATIVE DeLISSIO: Yes.

16 MR. GREENWOOD: We have a patent actually on
17 prescribed Scheduled II medications. Is that what you're
18 asking for?

19 REPRESENTATIVE DeLISSIO: Not quite, but I
20 think you still answered my question. Thank you.

21 REPRESENTATIVE BAKER: Thank you.
22 Representative Jozwiak.

23 REPRESENTATIVE JOZWIAK: I thank you for your
24 testimony. Just real brief, when you were talking about
25 an all-cash business, I'm curious, how much has the crime

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1 increased in your neighborhood or your areas where people
2 are doing this? Is there more armed robberies or anything
3 like that? You must have a heck of a secure system.

4 MR. WILLIAMS: I do. I spend a lot of money
5 on security. I've been in business for about five and a
6 half years now, and I've never had a robbery; and it's
7 because I do have great security, and the neighborhood has
8 benefited from it.

9 You know, I have security 24 hours a day. I
10 have cameras set up, you know, all around the perimeter of
11 my building as well as the interior of the building is
12 monitored. I even have license-plate capable cameras on
13 the outside and great lighting.

14 So my neighborhood has benefited from me being
15 there. And in Colorado, most facilities are legislated
16 not to the same extent that I'm guarding my facility, but
17 to a big degree in terms of cameras and security systems
18 and things like that.

19 REPRESENTATIVE JOZWIAK: So are you saying
20 that with this all-cash business, that the crime has not
21 increased, or it has? And not just your facility, any
22 facility.

23 MR. WILLIAMS: I do hear of other places that
24 have been robbed, sure. I think 50 percent of all
25 Colorado marijuana facilities have been robbed or

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1 burglarized in the last five years if they were open for
2 that long. And so, sure, it's a target. And resolving
3 our banking issues would help get the perception away.

4 Even when I do have a bank, it doesn't matter
5 because the criminal mind, the perception is reality, and
6 the perception is that I'm just rolling around in cash in
7 my office, which isn't the case; but that's what they may
8 think, which is why I need to protect my business, my
9 employees, and my customers in order to guard against that
10 perception.

11 REPRESENTATIVE JOZWIAK: Thank you,
12 Mr. Chairman.

13 REPRESENTATIVE BAKER: Thank you very much.
14 That concludes the questions for the panels. Thank you
15 very much. We do have Sergeant Jim Gerhardt, Vice
16 President of the Colorado Drug Investigators Association.
17 Thank you, sir, for being patient. You may proceed when
18 you're ready. Can you hear me?

19 SERGEANT GERHARDT: I can. You guys ready?

20 REPRESENTATIVE BAKER: Yes. You may proceed.

21 SERGEANT GERHARDT: All right. I'm Jim
22 Gerhardt. I'm a police sergeant here in Colorado, and I'm
23 assigned to a drug task force that does undercover drug
24 investigations. Basically, any type of drug trafficking
25 organization, we work. I've been in law enforcement here

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1 for 27 years and have been assigned to drug enforcement
2 for 17.

3 I've certainly been involved with seeing the
4 rise of the issue with allowing marijuana for medical use
5 here in Colorado, which ultimately led to full-blown
6 recreational legalization here and the industry that came
7 about because of all of this.

8 So I've been in the middle of all of it. At
9 this point in time, I wasn't too sure what was going to be
10 the most helpful for your committee to hear. So I wanted
11 to basically offer myself up mostly for questions.

12 As the Vice President for the Colorado Drug
13 Investigators Association, I'm also a legislative
14 liaison. So I work very closely with our legislature here
15 in Colorado.

16 And, of course, every single year since we've
17 gone down this path, we are deluged every single
18 legislative session with a number of pieces of legislation
19 that are designed to do a number of things.

20 But, you know, 10, 15 years ago, we would have
21 zero pieces of legislation on marijuana. And for the last
22 5 years, we've averaged anywhere from 8 to 15 pieces of
23 legislation per session; and it just shows you what a
24 complicated issue this is, and we haven't done a very good
25 job dealing with all the problems here in Colorado. So

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1 anything I can do to be helpful, I would be happy to
2 discuss.

3 REPRESENTATIVE BAKER: Absolutely. If you
4 could just briefly outline some of those problems that you
5 generically referenced, has crime gone up, traffic
6 fatalities gone up? Tell us, as an undercover agent and
7 someone who is on the ground with this issue, what are
8 some of the challenges and problems there?

9 SERGEANT GERHARDT: The best data that's being
10 collected right now is being done by the Rocky Mountain
11 High Intensity Drug Trafficking Area Office. I don't know
12 if you're familiar with the reports that they release.

13 But basically what they try to do is
14 essentially gather statistics. There's no editorializing
15 involved in what they publish. It's simply a collection
16 of stats.

17 And the data is showing that the more we have
18 sort of embraced the use of marijuana and the allowance of
19 marijuana, our youth-use rates have been climbing. We're
20 well over the national average. Our adult-use rates are
21 climbing. The number of drug-impaired drivers due to
22 marijuana on the streets are increasing. We're seeing
23 fatalities as a result of that.

24 The dispensaries, themselves, haven't -- we
25 haven't had a jurisdiction out here yet that has really

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1 attributed a big uptick in crime to the actual dispensary
2 locations. They do get burglarized. There have been a
3 few robberies here and there. But generally speaking, it
4 sounds like California has really experienced a huge
5 problem with the dispensaries that they have operating
6 there. We haven't really seen the same kind of problem
7 here.

8 But once the marijuana is available, it's
9 getting into the community, and you have people diverting
10 it then to underage people all the time, school kids.

11 Edibles has become a huge problem here, highly,
12 highly concentrated form of THC that are getting baked
13 into cookies and brownies and anything you can think of
14 that then get into the hands of children.

15 We're seeing hospitalizations and poisonings of
16 kids just climbing every single year. Rocky Mountain
17 Poison Control and Children's Hospital are seeing these
18 cases with increasing frequency. All of those issues are
19 certainly a problem.

20 But just trying to keep track of where the
21 marijuana is going, the various ways it can be diverted,
22 it's a highly-profitable substance, even here where it's
23 legal. It's still selling for \$150 to \$300 an ounce, and
24 an ounce will roll you into about 60 joints.

25 So, you know, if you were to compare that with

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1 cigarettes, the cost of cigarettes would be roughly \$15 an
2 ounce comparably to what you have in marijuana at \$150 to
3 \$300 an ounce. So people can grow it and sell it much
4 cheaper than they can in a retail setting.

5 A lot of people here blame the tax rate for why
6 we still have a black market and we have diversion of
7 marijuana. Well, the tax rate is not 1,100 percent.

8 So really, it's because of the fact that, you
9 know, even though you have a lot of people using here, you
10 don't have the same use rates as you do with tobacco and
11 alcohol. So it's not yet a true volume business to where
12 those prices can come way down.

13 Thankfully, it's not a big volume business in
14 terms of that, but there is enough profitability there.
15 We see in-state diversion, we see out of state diversion.

16 We have a UPS and FedEx facility here in our
17 jurisdiction. We get calls almost daily with intercepted
18 packages of marijuana that are being sent to your state
19 and to any other state, and then money is being funneled
20 back into groups here in Colorado that are making huge
21 profits off of that.

22 But the in-state diversion is still a big issue
23 as well. People get on Craig's List. They sell it on
24 Craig's List. We have people from other states that come
25 in, and they don't want to pay the cost of the retail

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1 marijuana. So they're setting up deals, they're getting
2 robbed. We've had shootings over this. We've got home
3 invasions involved with this.

4 So there have just been a tremendous amount of
5 problems, and these problems really started when we
6 allowed marijuana for medical use; and people started
7 diverting that, and the industry came in and mass-produced
8 these products, mass-produced marijuana.

9 We saw huge, huge problems in that. And really
10 the full legalization of marijuana has certainly thrown
11 fuel on that fire, but we had a pretty huge fire going
12 prior to that.

13 So here in Colorado, we allow in-home growing.
14 Private people can grow marijuana as well as we allow the
15 recreational and the licensed shops. Both of them have
16 their own unique problems. Both of them are issues in
17 different ways. And we have both here. So we have
18 everything. We have a little bit of all of it.

19 REPRESENTATIVE BAKER: Sergeant, has it gotten
20 worse since the legalization? I mean, we had a previous
21 testifier try to explain that there was a black market,
22 there were a lot of problems before legalization; but it
23 sounds like the legalization just compounded it and made
24 it much worse. Is that accurate?

25 SERGEANT GERHARDT: That is accurate, and

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1 there's a couple of reasons for that. First of all,
2 medical marijuana cardholders now have a certain legal
3 right to certain amounts of marijuana and plants. The
4 shops are supposed to be catering to that specific
5 population.

6 What we found is that because it's such a
7 profitable product, it gets into the community in
8 different ways; and our time investigating whether or not
9 these grow operations are legal or illegal or whether the
10 marijuana is being provided to somebody legally or
11 illegally, you wouldn't believe the number of ways people
12 can scam the system to make it look like they're
13 legitimate, but they're actually doing a lot of illegal
14 activity.

15 And trying to prove that now, it just takes a
16 tremendous amount of time and resources. For example, we
17 encountered a gentleman who was growing marijuana in his
18 home, large amounts. He was transporting it around with
19 him, but he kept paperwork in his car for certain
20 patients. So any time he got stopped, he simply pulled
21 out that paperwork and claimed, "Well, I'm making a run
22 for these patients that I'm a caregiver for." And how
23 does a patrol officer know that now? How do they verify
24 that?

25 So you almost have to take people on their word

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1 to some degree. And what this guy was really doing was
2 running an Internet business where people were sending him
3 orders, and he was out filling orders all day long.

4 But it took us weeks and weeks to sort that out
5 versus, you know, when marijuana was strictly an illegal
6 commodity, if people had it, it was illegal; and if they
7 were selling it, it was illegal.

8 Now, there's a thread of legality to these
9 things that makes our job much, much more difficult; and
10 it doesn't free up law enforcement resources. It consumes
11 them trying to deal with this.

12 REPRESENTATIVE BAKER: Thank you very much. I
13 know other Members have questions. Chairman Marsico. He
14 waives off. Any other Members? Okay. Very good. You
15 did an outstanding job. Thank you, sir. No other
16 questions.

17 SERGEANT GERHARDT: All right. Thank you.

18 REPRESENTATIVE BAKER: We appreciate your
19 testimony. Thank you.

20 SERGEANT GERHARDT: You bet.

21 REPRESENTATIVE BAKER: Good afternoon.
22 Welcome, and thank you for your participation. Next we
23 have Robert Calkin, CEO and founder of the Cannabis Career
24 Institute, and Dr. Jerry Bedore, President of Cannabis
25 State University.

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1 MS. KROSSE: We just have one.

2 REPRESENTATIVE BAKER: Oh, we just have the
3 one. My apologies. One is withdrawn. Are you
4 Mr. Calkin?

5 MR. CALKIN: Yes, sir.

6 REPRESENTATIVE BAKER: Okay. You may proceed
7 when you're ready, sir.

8 MR. CALKIN: All right. My name is
9 Robert Calkin. I'm with the Cannabis Career Institute and
10 Cannabis State University. I have another company to help
11 train people in the industry to create their own
12 businesses, and I had some concerns and some issues that I
13 wanted to just bring up as far as what I would do if I was
14 going to help create some kind of medical marijuana
15 program.

16 So I don't know if you have the outline in
17 front of you, some of the things that I was going to
18 propose. But are you able to hear me?

19 REPRESENTATIVE BAKER: Yes, we can hear you.
20 You may continue, sir.

21 MR. CALKIN: Great. When you're creating a
22 medical marijuana program, obviously, you want source
23 material, i.e., marijuana that's going to be medical
24 quality and it's going to address the concerns of the
25 patients.

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1 So I believe that it would probably be in your
2 best interest to consider creating some kind of a place
3 where the original source material comes from so people
4 don't have to break the law, in other words, to bring the
5 original seeds, tissue culture, clones, to the state.

6 The state, itself, could be in charge of
7 deciding what kind of source material that would be. In
8 other words, from the beginning of the program, you would
9 know exactly what the genetic structure of the plants
10 were; and you could basically create somebody that was in
11 charge of this program so that all of your cultivation
12 centers got source material from the beginning that was
13 scientifically known and charted and maybe even created a
14 genome bank that would allow the state to know exactly
15 what kinds of plants were being grown in the cultivation
16 centers.

17 I think that's a problem that a lot of states
18 we're seeing, that the marijuana that's being sold is not
19 actually the kind of marijuana that it's supposed to be.

20 So if you could first try to create some
21 organized method of the source material from the beginning
22 so that you can track it, that would be my first
23 suggestion. And then you would be able to do a research
24 on creating diseased-specific strains and growing
25 diseased-specific strains for your state.

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1 You would even be able to create some kind of
2 differentiation between your CBD and THC products, and it
3 would be a lot easier to do that if you were in control of
4 that. Not only that, but the state, itself, would make
5 revenue from doing that.

6 I also think that you guys need to provide some
7 kind of a state-approved counseling, training, or
8 education program for the public so they know how to
9 utilize the medical marijuana program and, perhaps, create
10 some kind of training programs for your doctors, your
11 cultivators, and the patients who are going to be using
12 the medical marijuana program.

13 The other thing I wanted to point out is I
14 think that if you want to get the public on your side and
15 help them to understand the importance of this program, we
16 could create a way for the homebound, the terminally ill,
17 veterans, and the handicapped to have a job program that's
18 accommodated by the medical marijuana crew.

19 These kind of jobs are jobs that anybody can do
20 like trimming, packaging, preparing the products for
21 distribution. So if you could create a job program that
22 would provide for all the handicapped folks and the
23 veterans in your state, I think that would go a long way
24 in creating a good public service.

25 REPRESENTATIVE MARSICO: Mr. Calkin, are you

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1 finished with your testimony?

2 MR. CALKIN: Yes, sir.

3 REPRESENTATIVE MARSICO: Okay. This is
4 Chairman Marsico. Do any Members have any questions at
5 all?

6 REPRESENTATIVE DeLISSIO: Ron, I have one.

7 REPRESENTATIVE MARSICO: Representative
8 DeLissio.

9 REPRESENTATIVE DeLISSIO: Thank you.
10 Mr. Calkin, are you aware of any state who has actually
11 done an original source of material as they got their
12 program underway? I know a couple of states have passed,
13 haven't begun to implement it. But are you aware of
14 anyone that's considering that?

15 MR. CALKIN: No. As a matter of fact, if I
16 was going to create a medical marijuana program, that's
17 where I would start. I would appoint somebody that was a
18 scientist or a doctor who was in charge of deciding which
19 strains would be appropriate for the state, and then I
20 would organize that in a way so that all the cultivation
21 centers were growing each strain or the strains that were
22 supposed to be appropriate for those patients and that
23 state; and hopefully those cultivation centers would be
24 able to work with each other.

25 And, perhaps, then they would all grow things

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1 that were specifically needed, and they wouldn't have to
2 each replicate what they were doing; and they would be
3 able to trade or do business with each other because they
4 would be tracked.

5 REPRESENTATIVE MARSICO: Any other questions?

6 (No response.)

7 REPRESENTATIVE MARSICO: Seeing none, thank
8 you, sir. We appreciate your time and your testimony
9 today. Thanks for your patience as well.

10 MR. CALKIN: Thank you. Gary Bedore is
11 available to talk to you now.

12 REPRESENTATIVE MARSICO: Dr. Gerry Bedore.

13 DR. BEDORE: I'm sorry. For whatever reason,
14 I can't get any volume. I can't hear you.

15 REPRESENTATIVE MARSICO: You can't hear me?
16 You can?

17 DR. BEDORE: Barely.

18 REPRESENTATIVE MARSICO: Well, we want to hear
19 you. So it's important that you give your testimony.
20 We'll try to ask questions. So go ahead and begin.

21 DR. BEDORE: Okay. Thank you. All right.
22 Thank you very much. My name is Gerry Bedore. I'm a
23 Ph.D. I live in -- I apologize. I'm getting a delay.

24 REPRESENTATIVE MARSICO: Can you hear me?

25 DR. BEDORE: Hello?

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1 REPRESENTATIVE MARSICO: Yes. Can you hear
2 me?

3 (Discussion held off the record.)

4 REPRESENTATIVE MARSICO: What we're going to
5 do then is we're going to move on. Our next testifier
6 then would be Patrick Nightingale, Esquire,
7 NORML-Pittsburgh. Welcome Patrick. You may proceed.

8 MR. NIGHTINGALE: Thank you, Chairman Baker,
9 Chairman Marsico, and Members of the Committee for the
10 opportunity to present testimony today on the issue of
11 medicinal cannabis and the experience of other states that
12 has some form of medicinal cannabis program.

13 My name is Patrick Nightingale, and I'm the
14 executive director of Pittsburgh-NORML, a local chapter of
15 the national organization for the reform of marijuana
16 laws. I'm also board advisor to the Pennsylvania Medical
17 Cannabis Society.

18 Professionally, I'm a practicing criminal
19 defense attorney here in Allegheny County, and I began my
20 career as a prosecutor right down the hall in the district
21 attorney's office for the first six years of my legal
22 career.

23 I've been asked to summarize some of my
24 comments, and I'm going to do that. But prior to doing
25 so, I must take this moment to respond to one of the

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1 comments I believe Ms. Rusche, who was telling you that
2 the National Organization For the Reform of Marijuana Laws
3 was using medicinal cannabis reform as a red herring in
4 order to advocate for the legalization of methamphetamine,
5 cocaine, and heroin. That is an absolute lie and
6 fabrication.

7 The National Organization For the Reform of
8 Marijuana Laws has never advocated for the legalization of
9 heroin, methamphetamine, cocaine, nor will it do so. We
10 are here to advocate for the reform of marijuana laws and
11 for the complete prohibition repeal.

12 Now, to the extent that prior witnesses want to
13 suggest that we cannot move forward with bringing relief
14 to sick Pennsylvanians because some other people in some
15 other states recreationally use marijuana is something
16 that I would suggest, ladies and gentlemen, is
17 reprehensible.

18 We are here because Pennsylvanians are
19 critically ill. We are not here to have a discussion
20 about whether or not Colorado should have legalized
21 recreational marijuana. We are not here to have a
22 discussion or to look at pictures of people smoking
23 marijuana on April 20 in Colorado. That is not what this
24 is about. I want to have that discussion on a different
25 day. Today, we are here to talk about how to help sick

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1 Pennsylvanians, and I want to make that clear.

2 Now, ladies and gentlemen, I had the privilege
3 of coming before the Health Committee for the first time
4 in 2009 when it historically held the first hearing in the
5 Commonwealth of Pennsylvania on medicinal cannabis.

6 I can remember the excitement of that day.
7 Activists and patients gathered in Harrisburg. We were
8 quite sure that we were moving forward. We had the
9 support of 70 to 80 percent of Pennsylvanians on our side
10 in 2009.

11 And I remember well Representative Baker's firm
12 opposition. But we assumed it was inevitable. Now, a lot
13 has happened since 2009, and we have seen medicinal
14 marijuana move forward to the point where we now have 23
15 states in the United States of America. Over 100 million
16 Americans have access to medicinal cannabis.

17 If some of these -- you know, we don't know
18 what is going to happen, we are concerned about the
19 long-term effects, if any of this was actually
20 materializing, we would have seen it. It would have taken
21 place.

22 Prior hearings have involved the Pennsylvania
23 Medical Society saying, "We cannot support this because we
24 don't know the long-term effects of it." And when we
25 parse those comments a little bit more, they said, "We

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1 can't support this because we don't know if our doctors
2 are going to be sued for professional negligence."

3 Ladies and gentlemen, we have 23 other states
4 that we can look at. We have millions of Americans
5 utilizing medicinal cannabis throughout this country in a
6 responsible and well-regulated fashion.

7 Now, when we look at the experience of these 23
8 other states, we have programs that range from the
9 California model, which is not regulated whatsoever,
10 passed by ballot initiative in 1996, and left up to
11 individual counties in California to regulate.

12 As a result, we hear these fanciful stories
13 about, oh, I have a sore toe, so I went to a physician on
14 Venice Beach, and I got my medical marijuana card.

15 Well, you know, ladies and gentlemen, with the
16 Bill that is pending before the senate and the Bill that
17 was introduced into the House by Representative Cohen, it
18 can't happen here.

19 We are not opening up the California model
20 where we pass it and leave it for someone else to decide.
21 Our Bill contemplates a highly-regulated model that would
22 ensure that the abuses that some witnesses and some
23 Members of this Committee are concerned about simply can't
24 happen in Pennsylvania.

25 Now, what are some of the experiences that we

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1 have seen in these other states? We have seen very
2 effective programs, such as Colorado, such as Oregon,
3 where the issue of patients come first, and the issue of
4 regulation is something that is then addressed.

5 Now, I'm not suggesting that we just throw this
6 out into the wild and let, you know, any patient who wants
7 it have it; but what I am suggesting is that if we
8 approach a regulatory model that is overly comprehensive,
9 that regulates the effectiveness of this program out, then
10 we're not doing anything for our sick Pennsylvanians.

11 All we have to do is look across the border to
12 New Jersey. Every time we have had medicinal marijuana
13 conversations in the Commonwealth of Pennsylvania, our
14 fellow activists in Philadelphia and New Jersey say,
15 "Whatever you do, don't let what happened to us in New
16 Jersey happen here," because they were left with a program
17 that they were promised would be fixed somewhere down the
18 line, just get anything passed, and then a governor who
19 was very hostile to medicinal marijuana was elected; and
20 they still have a medicinal marijuana program that is
21 barely servicing any patients whatsoever years after it
22 had been passed.

23 So, ladies and gentlemen, what I'm urging you
24 to consider, I'm urging you to consider the needs of
25 Pennsylvanians. We have had families here with

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1 critically-ill children, who are today contemplating
2 moving out of state, uprooting their family, uprooting
3 their support systems, moving away from their physicians
4 and their neurologists because they are desperate.

5 This is not, you know, patients who are
6 thinking, you know what, I might want to try some weed, it
7 will probably get me high, and it won't cost me as much at
8 the pharmacy. That's not what we're talking about.

9 We're talking about people whose lives are on
10 the line. We're talking about Pennsylvania veterans who
11 suffer from PTSD and who need the type of relief afforded
12 by medicinal cannabis.

13 What I'm asking you to consider is the needs of
14 these patients and not to place overly-restrictive
15 arbitrary conditions on delivery systems.

16 We have heard testimony before this Committee,
17 and we've heard testimony in the senate that vaporization
18 is one of the most effective and immediate delivery
19 systems available. It's safe. It's well-controlled. It
20 does not involve carcinogens or the burning of any
21 cannabis whatsoever.

22 We had that in our Bill. We now have
23 nebulizers, nebulizers. Nebulizers don't exist.
24 Cannabinoids cannot be delivered via a nebulizer.
25 GW Pharmaceuticals would like us to believe otherwise, and

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1 we've heard a lot about how GW Pharmaceuticals is going to
2 come to the rescue of these critically-ill children maybe
3 in 2016 with their synthetically-created pharmaceutical
4 drug called Epidiolex.

5 Well, ladies and gentlemen, number one, I don't
6 think that we should wait for GW Pharmaceuticals. I don't
7 think that Pennsylvanians should be told that a natural
8 medicine that's available right now, right here in
9 Pittsburgh isn't good enough, that it has to be
10 synthesized into a pill, given to them by a pharmaceutical
11 company.

12 And, ladies and gentlemen, I also want to
13 emphasize that the issue of FDA approval is a true red
14 herring. It will not happen. The FDA does not
15 independently conduct clinical trials. They don't sit
16 back and say, you know what, let's study marijuana today
17 or let's study opiates tomorrow.

18 The FDA reviews clinical trials and studies
19 conducted by patent holders, and those patent holders are
20 seeking FDA approval so they can bring a medication to
21 market.

22 There are patent holders of cannabinoids. The
23 United States of America holds Patent No. 6630507, which
24 gives the United States of America exclusive rights on the
25 use of cannabinoids for treating neurological diseases

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1 such as Alzheimer's, Parkinson's, and stroke, and diseases
2 caused by oxidative stress such as heart attack, Crohn's
3 disease, diabetes, and arthritis, the same United States
4 that calls cannabis a Schedule I controlled substance.

5 Is this patent holder that claims on the one
6 hand through the Drug Enforcement Agency that marijuana is
7 Schedule I with no medicinal benefit whatsoever, or will
8 this patent holder that holds a patent on the neural
9 protectant and the antioxidant properties of cannabis be
10 coming forward with clinical studies for FDA approval?

11 It's not going to happen. It is a red
12 herring. It's not going to take place unless there is
13 massive rescheduling on the federal level.

14 In the meantime, what happens to Jessica
15 Hawkins and Antoniya? What happens to Heather Schucker
16 and Hannah? What happens to Julie Michaels and Sidney?
17 What happens to Iraq War veteran Joseph Mert? What
18 happens to our Pennsylvanians while we wait and wait and
19 wait and wait.

20 Either we die, or we move. And ladies and
21 gentlemen, I would submit that that is not in anybody's
22 best interest, and that is not a service to the patients
23 and the citizens of the Commonwealth of Pennsylvania.

24 I would like to thank you very, very much for
25 giving me the opportunity to address this critical issue.

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1 I would like to thank you very much for your
2 participation. We've had a long marathon day, and I can
3 tell that everyone here considers this to be a very
4 important subject; and I thank you for that.

5 And I'm going to close my remarks and be
6 available for questioning by simply saying please, please,
7 please, put Pennsylvania patients first. The rest will
8 work. The rest will work itself out. Do you know why I
9 beg you? I'm begging you because cannabis is a nontoxic
10 natural treatment alternative.

11 No one in the entire history of the human race
12 has ever died from acute cannabinoid toxicity. You can't
13 die from it. It's safe. Every single day, people are
14 taking opioid prescription medications for which, you
15 know, they can easily accidentally unintentionally
16 overdose and die.

17 Even Willie Nelson, Tommy Chong, Snoop Dogg,
18 and whatever celebrity you want to look at, trust me,
19 they've tried to overdose on marijuana. It cannot be
20 done. Ladies and gentlemen, thank you. And with that,
21 should you have any questions, please.

22 REPRESENTATIVE MARSICO: Any questions? Can
23 you hear me? Okay. Have you spoken with the
24 congressional delegation in Pennsylvania?

25 MR. NIGHTINGALE: On the federal level?

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1 REPRESENTATIVE MARSICO: Yes.

2 MR. NIGHTINGALE: Yes. NORML has reached out,
3 and we support the Careers Act, which is pending right
4 now, which part of it would involve rescheduling from
5 Schedule I to Schedule II to allow the type of research
6 that's prohibited right now.

7 And we absolutely agree that marijuana, at the
8 very least, should be a Schedule II controlled substance,
9 because it would at least enable us to have a realistic
10 conversation with the federal government. Yes, it has got
11 medical efficacy. I mean, cocaine is Schedule II, for
12 example. But marijuana is Schedule I.

13 And it's Schedule I completely arbitrarily and
14 by accident. There were no governmental studies that
15 concluded that marijuana should be Schedule I.

16 The only study about whether or not marijuana
17 should be Schedule I, II, III, or IV was conducted by
18 former Pennsylvania Governor Raymond Shafer from
19 Meadville.

20 Richard Nixon in 1970, 1971 asked
21 Governor Shafer to chair a commission called the
22 Commission on Marijuana and Drug Abuse because
23 President Nixon needed to know where congress should put
24 marijuana, Schedule I, Schedule II, Schedule III,
25 Schedule IV.

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1 And while he was waiting the results of the
2 Shafer commission, marijuana was placed in Schedule I
3 temporarily. Unfortunately, Governor Shafer did his job a
4 little too well for President Nixon's liking, and
5 Governor Shafer recommended that marijuana be regulated in
6 a manner similar to alcohol and not be scheduled
7 whatsoever.

8 It has remained Schedule I ever since. So if
9 someone says to you, "Well, it's Schedule 1 for a reason,"
10 no, it's not Schedule I for a reason.

11 REPRESENTATIVE MARSICO: Let me ask you,
12 though, when you spoke to the Congressional Delegation,
13 what was their response?

14 MR. NIGHTINGALE: Their response was
15 tentative. Their response was, "we will see where this
16 goes." There doesn't seem to be that type of real
17 emphasis on the federal level to move forward with this,
18 which is why things are so critical that we move forward
19 on the state level.

20 REPRESENTATIVE MARSICO: Representative
21 DeLissio.

22 REPRESENTATIVE DeLISSIO: Thank you, Chairman
23 Marsico. Mr. Nightingale, is that commission report from
24 the 1970s available?

25 MR. NIGHTINGALE: Absolutely, and I'll be

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1 happy to share it with you. It's approximately a 600-page
2 report called, "The Commission on Marijuana and Drug
3 Abuse" authored by former Pennsylvania Governor Raymond
4 Shafer, and it will be available to you this afternoon.

5 REPRESENTATIVE DeLISSIO: Thank you.

6 REPRESENTATIVE FABRIZIO: Give me a report on
7 that.

8 REPRESENTATIVE DeLISSIO: Okay.

9 REPRESENTATIVE MARSICO: Thank you very much,
10 Patrick. We appreciate your time.

11 MR. NIGHTINGALE: Thank you very much.

12 REPRESENTATIVE MARSICO: I think we have
13 Dr. Bedore. Dr. Bedore, can you hear me? Dr. Bedore?
14 Gerry? Dr. Bedore. I thought we had Dr. Bedore.

15 DR. BEDORE: Can you hear me?

16 REPRESENTATIVE MARSICO: Yes. Go right
17 ahead. Begin.

18 DR. BEDORE: Can you hear me?

19 REPRESENTATIVE MARSICO: Yes, we can.

20 DR. BEDORE: Okay. Thank you very much. Hi,
21 everyone. My name is Dr. Gerry Bedore, and I am a
22 resident right now currently in Northern California, have
23 been for the last few months. Previous to this, I was in
24 Arizona.

25 I've worked with Robert Calkin, who has spoken

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1 earlier, for quite some time now and have been to a lot of
2 states and have seen a lot of the issues.

3 There are a couple of things I would like to
4 input into. First, the gentleman that just spoke before
5 me, thank you so much for what you had to say. I can tell
6 you that I am a Ph.D., and I work with a group of
7 dermatologists, OB/GYN and other people; and there's no
8 treatment left. There's no treatment options. There's
9 nothing left in the toolbox for these people, whether it's
10 something to do with cancer or whether it's gout or
11 whether it's shingles, or whether it's just a myriad of
12 things, PTSD. I can sincerely say with the data I
13 gathered with working with people for so long that this is
14 real medicine, and it's very meaningful; and it needs to
15 be treated like that.

16 I think in many cases, what is really needed is
17 people need education. People need to understand what
18 this is and what it means to their health and to the
19 health of those around them.

20 I mean, there's a lot of people that I note out
21 in communities that will make comments or judgments on
22 somebody that uses medical marijuana, medical cannabis,
23 without even realizing or knowing what is in that person's
24 background.

25 There's still a lot of stigma out there.

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1 There's still a lot of prohibition mentality out there. I
2 really think that a really good approach is to bring
3 people up to speed about this.

4 I talk to many people. They all told me that
5 (inaudible). They understand what THC is, though. And,
6 you know, we see legislation in some states that want to
7 restrict THC and those kinds of things in the medicines
8 that are not provided for a means for people to gain
9 access to the medication. And these are very real
10 problems. I get calls from all over the United States.

11 I ran the legislation that's being proposed
12 now, the framework for it that was sent to me. And I got
13 to tell you, I really think you folks have done, just up
14 to this point, just a spectacular job in what I see given
15 the problems that we have in Northern California with
16 people wanting to come into the industry, wanting to be
17 players, and they don't know how to do that. There's not
18 even a framework in place for them to be able to do that.

19 If they want to cultivate or they want to
20 extract, what do I need to do to get a permit? Do I need
21 to have the EPA sign off, the water department, the power
22 company signing off? What do I need to do here? They
23 don't know.

24 So the next thing we have is bulldozers taking
25 down forests, and we have streams being diverted, and we

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1 have a toxic runoff in the streams, and those kinds of
2 things.

3 They want to be visible, and I've attended
4 meetings recently in Humboldt County and at the state
5 capitol and Sacramento and others, and this is a really
6 big issue, environmental damage, and those kinds of
7 things.

8 The context in which you have things now seems
9 like it would mitigate a lot of that, because it is pretty
10 straightforward; and the cost for the licenses and those
11 kinds of things seems to be do-able.

12 Now, one of the things in listening to the
13 gentleman earlier speaking related to law enforcement and
14 those kinds of things and the black market issues and that
15 kind of stuff, if people from -- if the perception is out
16 there within the community -- because a lot of people are
17 going to want to come in and play in this space. It's a
18 highly-innovative space.

19 Small business owners want to be in it.
20 Entrepreneurs want to be in it. And if they're seeing the
21 perception that there's no way we can get in it, there's
22 no way that I can be involved with this or any other way,
23 then that, again, is just another pathway for encouraging
24 the black market activities and those kinds of things.

25 So I just wanted to put out a little bit of

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1 this, again, to what Mr. Calkin had to say. There's lots
2 of opportunities here for folks, for veterans, and not
3 only for jobs, but for treatment and those kinds of
4 things, for homeless.

5 I hope there's pathways inside of this for
6 people who may not have the money for the medications,
7 that there are mechanisms in place so people do have
8 access to this medicine.

9 It is serious. I think one of the great things
10 I like and what I see in the overall theme of the
11 legislation as -- as I see it, I've been able to review
12 it, is that it is supporting this effort. It's not like
13 we're going to legalize this and then say, but we're going
14 to put all these sticks in the spokes and all these road
15 blocks along the way and only a few people can play, but
16 other people can't play, and all of these kinds of
17 dynamics going on.

18 It actually supports a state that says we're
19 doing this, we're doing this for the people of
20 Pennsylvania, and we've doing it to help all those that
21 have these needs out there. The needs are many, and
22 there's plenty of evidence to support that.

23 Well, obviously, there's a lot of research that
24 needs to be done. What a great place to do that, in
25 Pennsylvania. People interacting with things like a

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1 genome bank where they get strains and where they can
2 register strains from.

3 Other people being able to use inside of their
4 cultivations and those kinds of things. It incentivizes
5 the strain bank to grow and allows the state to be able to
6 caption, control, and regulate right from the beginning of
7 the process; and that is the source material.

8 I mean, if we think about it right now, where
9 is the source material right now going to come into
10 Pennsylvania from, or is that source material already
11 there? Should it be there? I mean, these are the kinds
12 of issues that come up.

13 And being able to tag or to mark these strains,
14 these plants, and have a place of kind of maybe a genome
15 bank exchange where people can come and get product and at
16 the same time be able to contribute to that, to where
17 maybe they're able to realize some kind of monetary gain
18 if they do develop a really great strain that handles some
19 kind of a medical situation or some need within the
20 community in addition to the state being able to make
21 money from that and being able to track it and that kind
22 of thing.

23 It even incentivizes the growers to do that and
24 to contribute and to actually use that bank versus I'm
25 going to grow these things off, you know, over here on the

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1 side for these people, and I'll grow this other stuff for
2 those people; and then the next thing you know, we're all
3 over the place with it.

4 And that is one of the problems I've seen in
5 Northern California. A lot of times, you'll go into a
6 dispensary, and you'll call someone for delivery; and
7 they're selling you a strain, and they label it something
8 like "Blue Dream," whatever. But can they back it up? Do
9 they really know it's Blue Dream?

10 No. It has been hybridized so much over time.
11 You don't even know what the source material is that
12 they're getting going into their work. And then when they
13 -- by the time they get into hybridizing one thing that
14 they're not sure of, then another thing they're not sure
15 of, then the next thing you know, you've just got this
16 suit, if you will. And it's hard to make sense of that
17 when we have the capability to bring university
18 researchers and corporate researchers and these kind of
19 people into this space and to really be able to advance in
20 sciences.

21 With that, I'll be quiet, and I thank you for
22 your time. And, wow, what a great job. Thank you,
23 folks. This is pretty outstanding. It's some of the best
24 legislation I've seen.

25 REPRESENTATIVE MARSICO: Due to additional

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1 technical difficulties, we're not able to ask Jeremy
2 questions; but we appreciate his time and his testimony.
3 Next to testify is Andy Hoover. Andy is the Legislative
4 Director of ACLU of Pennsylvania. Welcome, Andy. You may
5 proceed.

6 MR. HOOVER: Thank you, Chairman, Members of
7 the Committee. Thank you for the opportunity to be here
8 today. I will summarize my testimony. It's relatively
9 short, anyway, so it will be an easy reading for you; but
10 I can summarize it to make it even shorter.

11 I'm here today on behalf of the ACLU of
12 Pennsylvania and on behalf of our 23,000 members. We are
13 a nationwide organization, as you know, with a membership
14 of 600,000 people across the country; and we come to the
15 table on this issue because we believe it is an issue of
16 liberty.

17 No one should be punished for what they put
18 into their own bodies. And specific to medical cannabis,
19 few things are more private than a person's choices about
20 their medical treatment and what substances they put in
21 their bodies. Medical cannabis laws seek to protect these
22 rights.

23 Now, as you've heard already today, 23 states
24 and the District of Columbia currently have some form of
25 medicinal cannabis authorization; and we've also heard

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1 that those practices vary widely across those 23 states
2 and D.C.

3 So I want to put on the table some best
4 practices ideas that the ACLU supports. And the goal
5 really is twofold. One is ensuring that as many patients
6 as possible can access this medicine and that they have
7 legal protection as well.

8 So I want to start with having a wide variety
9 of delivery methods. You heard both Mr. Nightingale and
10 Mr. Williams talked a little bit about delivery methods
11 and how important it is that they vary under the law.

12 Some patients will benefit from inhalation.
13 They need relatively fast medication for things like
14 nausea or pain or appetite stimulant. And so inhalation
15 like smoking or vaporization is really important for
16 them.

17 On the other hand, you do have patients who
18 would be at higher risk through inhalation such as
19 children. They'll benefit from a slower-acting delivery
20 that is low in THC. That includes things like oils and
21 food-based medicines.

22 There are some states that explicitly allow
23 food-based delivery. Three states and the District of
24 Columbia have that in law. And to protect a patient's
25 safety, it is important that manufacturers follow existing

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1 food and beverage guidelines.

2 I also want to mention personal cultivation.
3 This hasn't really been discussed yet today. But 15
4 states do allow personal cultivation. This is important
5 for this reason: Without it, medicinal cannabis is a
6 medicine of privilege for two reasons.

7 One, if you do not have personal cultivation,
8 then only the people with means will be able to access it.
9 This is medicine that will not be covered by health
10 insurance, and so people who do not have insurance will
11 not -- people will be paying straight out of pocket.

12 So if you do not have the income to do that,
13 then you're going to be stuck. Second, you could run into
14 situations where a municipality may not want to approve of
15 a dispensary in their town.

16 I was talking with a Member in the hall earlier
17 during the break. He used the example of the casino in
18 Gettysburg and how Gettysburg fought that casino. You
19 could see the same kind of thing happen here. So that's
20 why it's important to have personal cultivation, so that
21 people don't face de facto prohibition because of where
22 they live.

23 I also would recommend a nondiscrimination
24 protection. This goes beyond employment. Workers should
25 not face employment discrimination while using legal

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1 medication for a medical condition, so a strong
2 nondiscrimination provision is imperative to medical
3 cannabis legislation.

4 Seven states have some form of workplace
5 protection, but the strongest are in Arizona and
6 Delaware. In those states, employers are specifically
7 prohibited from terminating employees who test positive
8 for marijuana and who are registered patients as long as
9 the medication is not used in the workplace.

10 Some states actually have protection from
11 discrimination for being a registered patient, but they
12 don't take it further to protect people when they test
13 positive. So you have someone who's a patient but who's
14 at risk by taking the medication, they could be fired from
15 their job.

16 My testimony refers to a client of ours in
17 Michigan, and there's a footnote there, Footnote No. 8,
18 which has a link to more information about his case and
19 happened to him. It includes a four-minute video with our
20 client, Joseph, when he talks about how he was fired from
21 his job at Wal-Mart.

22 He was a registered patient. He was using
23 medical cannabis for a brain tumor, but he was fired from
24 his job when the drug test came back positive. That's why
25 a full employment protection is so important.

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1 I also would mention that the protection from
2 discrimination goes beyond employment. It also includes
3 housing, education, child custody, and organ transplants.
4 And Arizona's nondiscrimination protection includes those
5 categories.

6 Another best practice is ensuring there's no
7 statutory limitation on conditions. There has been some
8 discussion of this today. I won't go too far into it.

9 But as you know, there have been versions on
10 this legislation here in Pennsylvania that has had a list
11 of conditions for which medical cannabis could be used.

12 We believe that physicians are in the best
13 position to make those decisions about whether or not
14 cannabis is helpful for their patients. California and
15 Massachusetts allow the physicians to make that decision.
16 There are 13 states, plus the District of Columbia, that
17 include a process for adding new protections.

18 If the legislation of Pennsylvania is going to
19 have that process, it should be one that expedites it so
20 you don't get caught up in bureaucratic red tape.

21 Finally, I just want to mention some important
22 protections under criminal law. Patients who are carrying
23 medicine could be subjected to a variety of criminal
24 penalties intended for people using cannabis
25 recreationally. So legal protections for patients should

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1 include, but not be limited to, clarifying DUI law, an
2 exemption from probation and parole violations for
3 registered patients, prosecutorial immunity for patients,
4 exemption from civil acts of forfeiture for patients, and
5 clarity in police search and seizure power.

6 I want to conclude with something that is not
7 in my written statement but I've been thinking about in
8 the last few days. I've worked with both of your
9 Committees, the Judiciary and the Health Committees. I've
10 worked with the ACLU of Pennsylvania for ten years. And
11 all of you know that defending civil liberties sometimes
12 is controversial.

13 In fact, just yesterday, we had a federal court
14 ruling in the district court in the middle district on a
15 controversial issue that was in front of the judiciary
16 committee.

17 I've never worked on an issue that had 88
18 percent support as medical cannabis does. According to a
19 PA poll that just came out about a month ago, it showed
20 88 percent support across the state for this issue.

21 And so that combined with the stories of
22 patients who are desperately in need I believe brings a
23 sense of urgency for the legislature to get this done. I
24 hope you do, and I would love to work with you on that.
25 So thank you.

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1 REPRESENTATIVE MARSICO: Any questions?
2 Representative DeLissio.

3 REPRESENTATIVE DeLISSIO: Thank you,
4 Chairman. Andy, the protections you call out, are you
5 calling them out just in general or because they're
6 currently in the same presentable grade?

7 MR. HOOVER: I would have to go back and
8 double-check that. I know that a version from the
9 previous session, SB1182, did have that protection. I
10 want to confirm, though, that SB3 does. I believe it
11 does. But before I say affirmatively, I want to check on
12 that.

13 MR. BARRY: Some of the protections are in
14 there. Some of them are not.

15 REPRESENTATIVE DeLISSIO: Maybe you can get us
16 a list when you have a chance what is in there and what is
17 not.

18 MR. HOOVER: Sure.

19 REPRESENTATIVE MARSICO: Any other questions?
20 Seeing none, thank you, Andy, for your time. Thanks for
21 coming out here. We appreciate it. Next testifier is
22 Lieutenant Thomas Repsher, United States Marine Corps,
23 retired, NORML Regional President of Leigh High Valley,
24 and Dr. Laura Edwards, who's a doctor of chiropractic
25 medicine, Berks County Chiropractic Society Secretary &

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1 Treasury. Welcome. You may proceed.

2 DR. EDWARDS: Thank you. Thank you so much
3 for sitting here and listening to all of this. I was here
4 for this meeting in Harrisburg. You have a lot of
5 patients with a lot of people, and you have a very tough
6 decision ahead of you with a lot of information.

7 And since I sat through two of these and missed
8 Philadelphia, you've had to listen to the same thing over
9 and over again. You've had a few definitions, the last
10 one, education and what this is and what it does seem to
11 have been lacking. You have it now.

12 You've heard a lot of testimony today about all
13 the people this helps, the patents that are present from
14 the federal government. I don't think we need to argue
15 anymore about who it helps and who it doesn't. There's a
16 lot of concerns.

17 Andy Hoover, thank you so much for that
18 wonderful testimony. We've had so much information given
19 to us. I've learned so much just in the last year.

20 Now, I am a pain -- I have people coming to me
21 40 to 50 a day in pain, different people every day. I see
22 my patients anywhere from once a month to three times a
23 week, depending on how much pain they're in, depending on
24 their dysfunction, their disability. I see it all.

25 I don't prescribe medications. All my patients

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1 come already prescribed. I am sometimes someone's 31st
2 doctor. I've had patients come with 25 different
3 medications. They come into my office looking for an
4 alternative. They don't like the side effects. They
5 don't like what their meds do to them. They don't like
6 how it takes them away from their family mentally. Or
7 like Flexeril, Remeron, some of those, they knock them
8 out. They make them woozy.

9 They come to me looking for supplements,
10 looking for alternative health care. I do my best to give
11 them what I can with my abilities and what is available.

12 So many people are not happy with their health
13 care, and this is an opportunity to change that. Many
14 people have brought up a lot of different things. One of
15 them is physicians deciding what patients would benefit
16 from this. I like the idea if it's a recommendation. Let
17 me petition the state for my patients and say, "I think
18 this person needs this for this reason."

19 It was brought up maybe by Chairman Baker or
20 someone about podiatrists, why would you let someone like
21 that recommend this? There's a condition called "RSD."
22 It is excruciating pain after an injury. Their feet start
23 to rot. They're going to go to a podiatrist. They're in
24 excruciating pain. They're committing suicide, they're in
25 so much pain. This is something that helps even them, and

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1 they go to the podiatrist with the pain.

2 How many doctors do I need to send my patient
3 through in order to get this recommendation? There are
4 bad doctors everywhere that are going to abuse this, that
5 are going to have a \$40 sign for a doctor visit to sell
6 pot. I'm not in favor of that. You're not in favor of
7 that.

8 Doctor/patient relationship, the state writes
9 my laws. Just like all the attorneys in the room, the
10 state licenses me, requires me to have certain ethical
11 regulations. And if at any time I were to abuse those, I
12 would be punished for those; and so should anyone else who
13 misuses your rules, regulations, recommendations. To me,
14 that seems pretty cut and dry.

15 Same with law enforcement. We even heard the
16 district attorneys in Harrisburg that said, "Please make
17 the laws cut and dry. Make them black and white."

18 The police force that I take care of, I take
19 care of a number of communities' police forces, they said,
20 "Fine, no problem. But can you please make the laws cut
21 and dry?" "You have a card. You can have this amount.
22 If you're outside that, you're penalized." Lieutenant
23 Repsher is an expert on this.

24 LIEUTENANT REPSHER: Yes. I was going to
25 joke, it's pronounced Repsher, but I've been called a lot

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1 worse so it's okay. Representative Cox, I personally want
2 to thank you, first of all, with your one opening
3 statement earlier today, how many people come here with
4 shrapnel in their spleen or in their spine?

5 I currently have four lodged in my lung and
6 about 20 other places in my body that you can't see. I
7 can feel it every day. They give me a list of morphine,
8 Vicodin, T-3s, Somas. I could go on.

9 The side effects after the first one had me
10 back in the hospital because my kidney shut down. That
11 wasn't on the side effect box. Just stopped. My kidneys
12 stopped.

13 Luckily, I got them back again. At this point,
14 there is no side effects that has yet to be discovered on
15 it. There is no your kidneys are going to shut down.
16 Your body is not going to get poisoned by it.

17 Now, is my dose the same as a two-year-old?
18 Absolutely not, absolutely not. That now puts
19 responsibility on me that if my medicine is in my hands,
20 my two-year-old cannot get it. It's so different than my
21 Vicodin that is legal, or the morphine. We're talking
22 about a flower here. If morphine is legal, then I should
23 be able to grow my opium or my poppy flower outside. But
24 you guys don't. You regulate that law.

25 Like Dr. Edward said, if I have a card and I'm

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1 selling it to you, I lose my card, I lose my rights as a
2 patient, cut and dry, because I'm illegally selling my
3 medication. That's how you guys have to run this place,
4 just like a casino. You don't walk in with \$100 and
5 expect that you can rob the table for \$1,000 and get it
6 back out the door. It's not going to happen.

7 I can't walk into a dispensary and get an ounce
8 of medicine and walk back out and sell the ounce without
9 being caught. Then I lose everything. It's as simple as
10 that.

11 The government back in 1978 with the first
12 patient, Robert Randell, when they gave him a canister of
13 rolled up 220 joints from the federal government who said,
14 "Don't tell people where you got it from," that was
15 interesting.

16 By 1998, there were 34 people on that list.
17 Eventually, in 2001, George W. Bush said, "no more people
18 can apply for federal. We can't allow it to be known that
19 we are dispensing medical marijuana to citizens." So they
20 cut the Compassionate Care Law out of federal court.

21 Now there's only four people to this day that
22 still get medical marijuana, medical cannabis from our
23 federal government. Correct. I think it was Nightingale
24 that brought up the patent. I actually have a copy of the
25 patent here.

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1 The patent is cut and dry. There's two things
2 that they found medically come from this plant. The
3 government immediately jumped right on it and patented it,
4 both issues, from that plant. Now, if this holds no
5 medical value, why would our government put their hands on
6 it and lock it down?

7 Now, the other things we brought up was the
8 control factors. Medicine Man, Mr. Eddie Daley, he had it
9 dead on on control and tracking from seed to sale, just
10 like in pharmaceuticals.

11 If the Pfizer company makes a drug, they know
12 what is all in it, where it goes. It goes into a log
13 right from production, right to CVS, right to when you
14 sign for it. They know who touched it, how much and
15 where. We can actually do the same thing with this.
16 Complete controlled setting.

17 Now, I've been in the military career my entire
18 life. When I retired, this -- I noticed not just patients
19 of different ailments, but us warriors, too, that come
20 back with wounds that aren't always physical. There are a
21 lot up here (indicating).

22 I joked earlier today, this room could use a
23 huge bundle of sativa, laugh everybody up a little bit.
24 That's what it is. Then we also forget there's also an
25 indigo plant that everyone thinks -- you know, you guys

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1 separate the two. There's an indigo and a sativa, one for
2 the narcotic effect, one for bumpy bubbly effect.

3 Production, people in here, you're looking
4 around, people are hurt, people are sick. They say
5 medicine -- laughter is the best medicine followed by
6 being active.

7 If you can grow a strain where all of a sudden
8 now your brothers, your sons, your dads, your uncles, who
9 has been sitting on the couch just rotting away because he
10 can't move, takes a couple -- a gram, maybe a gram, maybe
11 a gram and a half and enjoys the next two, three hours of
12 life with their family because now they can move, it
13 blocks that pain sensory, so you can enjoy life.

14 Now you give them a job where now every day
15 they can go to work without fear of losing their job. Now
16 they're being productive in society again. Now you have a
17 revenue on top of that. But now you also have someone who
18 was just yesterday sitting on the couch wondering where
19 can my life lead to, nowhere, to all of a sudden feeling
20 happy and good again.

21 Don't take that away from people. Especially
22 some of us, and I can't speak for everyone, but here I am
23 as a disabled vet who comes back going, wow, I fought for
24 everything, and you're going to give me a box of pills?

25 Basically you're telling me, "Can we speed this

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1 up so I can stop paying you?" That's how we feel. We
2 smoke a little bit. They look at us and go, "Wow. You
3 can move again. It's a miracle." I don't want to tell
4 them, "No. It's because I just smoked a joint." But,
5 yeah, it is a miracle, per se, on a certain level.

6 Now, does that have to be controlled and
7 regulated? Absolutely, absolutely. Is the black market
8 going to try to interfere with every one of us? They have
9 been since Day 1. They have been since the days of Jesus,
10 they've been trying to overcome everyone's happiness.
11 This is money, this is health, let's take it away.

12 This is why we all need to work together and
13 say it's only for patients and it's controlled just like a
14 pharmacy, just like a pharmaceutical plant. From start to
15 finish, it is controlled, and everything is turned in.

16 If you guys want to come in on Wednesday and
17 say, "I want to see reports of everything," it should just
18 be a click of a button.

19 Another question was money, what do we do with
20 the money. It's a cash business. You're right. There's
21 a thing called, what is it, the E-dot?

22 DR. EDWARDS: Bitcoin.

23 LIEUTENANT REPSHER: Bitcoin.

24 DR. EDWARDS: Bitcoin is electronic funds.
25 Some people are using it now on their cell phone. You can

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1 go to Starbucks, hold up your phone, they scan it. It's
2 sort of like the reading that I've done, and I'm sure
3 others in the room have done more. It's almost like a
4 stock exchange instantaneously.

5 So, yes, we had the discussion of what do you
6 do with the cash. If the banks are federally-backed and
7 they're not in favor of this, what do you do?

8 I've discussed with a few financial advisors,
9 one who was CIA previously, now billion-dollar money
10 marketer and handling funds for billion-dollar clients,
11 his immediate answer was credit unions. They're not
12 federally funded. I haven't researched that. Medicine
13 Man would know that more than me. Colorado is doing it.

14 Catch anyone who is laundering money. The
15 first thing goes to, well, what about the people that are
16 doing that and that illegally? It's still illegal whether
17 I do it with my paycheck now or someone does it with their
18 marijuana sales. It's still illegal. Prosecute it.
19 Otherwise, let the individuals deal with what they do with
20 their cash.

21 Does it bring crime? Banks bring crime.
22 Anything. CVSSs are being stolen. The pills are being
23 sold out the back door. There's a lot of bad, and there's
24 mostly good.

25 REPRESENTATIVE MARSICO: Thank you very much

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1 for being here. Any questions from the Members? I just
2 want to thank the Lieutenant for your service to our
3 country.

4 LIEUTENANT REPSHER: It was my honor, sir.

5 REPRESENTATIVE MARSICO: Thank you very much.
6 No questions. Once again, thank you for your testimony.

7 LIEUTENANT REPSHER: I just want to add one
8 more thing. I do want to say, as for personal cultivating
9 and growing, I am strongly advising you guys not to allow
10 that honestly.

11 The reason being is you're worried about the
12 black market, you're worried about contamination, you're
13 worried about is this going to be pure for the patients.

14 If you allow people to cultivate, there's your
15 black market. If they can get it from a dispensary
16 because they're a medical patient, why do they need to
17 grow? They don't need to grow it.

18 It's their own product. My own product or a
19 dispensary's own product is controlled and watched and
20 lab-tested and watched all the way through.

21 Now, if this batch is bad from what I grew in
22 the backyard and I just want to dump it, I can dump it.
23 Now the person has a reaction to a pesticide, they have a
24 reaction to -- but you can't trace back to what it was.

25 So personal growing could lead to some

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1 dangerous grows, and I agree to that, at least in the
2 controlled setting. The dangerous roads are only
3 alleyways down, and we, as professionals, can tweak that
4 alleyway so that way everybody is safe in the end and not
5 risking, you know, having outside sources come into play.

6 REPRESENTATIVE MARSICO: Thank you very much.

7 DR. EDWARDS: Thank you again for your time.

8 REPRESENTATIVE BAKER: We have one more
9 testifier, and that is Bertha Madras, Ph.D., Professor,
10 Department of Psychiatry, Harvard Medical School. Can you
11 hear me?

12 DR. MADRAS: Yes, I can hear you. Can you
13 hear me?

14 REPRESENTATIVE MARSICO: Yes, we can. So
15 we'll let you proceed with your testimony. Go right
16 ahead.

17 DR. MADRAS: Wonderful. Thank you very much.
18 I would like to say that in the beginning, in terms of
19 what has been heard so far, we have heard civil liberties
20 arguments, we've heard conspiratorial arguments, and we've
21 heard compassionate arguments, all of which can have
22 values.

23 These are based on our human values, and these
24 can be manipulated and shaped according to the personal
25 feelings as well as the feelings of organizations.

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1 However, the most important issue here, from my
2 perspective, is the science. And April 17 of this year,
3 Judge Kimberly Mueller of the Eastern District of
4 California heard the case in which the science was debated
5 as to whether or not marijuana should be rescheduled as a
6 Schedule II drug; and she ruled that marijuana should not
7 be scheduled as a Schedule II drug, it should be as a
8 Schedule 1 drug.

9 I was the sole expert witness presenting the
10 evidence for why marijuana at this point in our history
11 does not achieve the scientific bar for being approved as
12 a medicine.

13 I have four major reservations for marijuana as
14 medicine, and here are the four reservations: Of the
15 medical diseases in this marijuana bill, there's
16 insufficient evidence that marijuana is effective,
17 consistent with standards of evidence of the
18 legally-prescribed medications.

19 Number two, marijuana does not fulfill FDA or
20 DEA criteria as a medicine. Number three, the
21 Pennsylvania bill circumvents the FDA, and it has been
22 circumvented before in a number of states. It sets a
23 dangerous precedent for the future safety of our drug
24 supply and for patient protection.

25 And number four, the consequences of

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1 designating marijuana as a medicine from the perspective
2 of public policy, of public health, are unacceptably high.

3 Let's examine each of these reasons one at a
4 time, and let us reason together. Of the medical diseases
5 in the marijuana bill, is there sufficient evidence that
6 marijuana is effective?

7 Let's only go through criteria of what is
8 needed in terms of rigorous research to definitively
9 decide that a drug is effective. There have been in
10 recent times a number of analyses of the biomedical
11 literature, the gold standard.

12 For cancer, there is currently insufficient
13 evidence to recommend marijuana for the treatment of
14 cancer, for epilepsy and seizures based on a Kaufin
15 (phonetic) review.

16 Systematic reviews of the literature conclude
17 that there's insufficient clinical data to support or
18 refute the use of cannabinoids for epilepsy and seizures.

19 For amyotrophic lateral sclerosis, there is
20 insufficient clinical evidence in humans to recommend it.
21 For wasting syndrome, Dronabinol has been FDA-approved for
22 anorexia associated with weight loss an AIDS. There is no
23 need to introduce a smoke leaf as medication.

24 For Parkinson's disease, there is insufficient
25 evidence to support the use of marijuana to treat this

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1 disease. For traumatic brain injury and post concussion
2 syndrome, there is no research that directly addresses the
3 key question of the benefits and harms of marijuana for
4 the treatment of post-traumatic stress disorder.

5 For multiple sclerosis, between 14 and 16
6 percent of patients with MS report using marijuana. The
7 problem is that cognitive dysfunction, that means brain
8 dysfunction, is present in 40 to 60 percent of individuals
9 with MS before marijuana administration; and there's
10 evidence that marijuana use compromises their impaired
11 brain function in this neurologically-vulnerable
12 population for both multiple sclerosis and other
13 neurological disorders.

14 The American Academy of Neurology does not
15 advocate the use of marijuana for the treatment of
16 neurological disorders because of insufficient evidence
17 regarding treatment efficacy.

18 For spinocerebellar ataxia, the American
19 Academy of Neurology does not advocate the use of
20 marijuana because of insufficient evidence. For post-
21 traumatic stress disorder, we are already said, given the
22 lack of randomized controlled trials studying marijuana as
23 a treatment for PTSD, there's insufficient scientific
24 evidence for its uses at this time.

25 For severe fibromyalgia, there is insufficient

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1 evidence at the present time. There are preliminary
2 reports that marijuana may have analgesic effects but
3 insufficient research on dosing and side effects profiles
4 which precludes recommending marijuana for the management
5 of severe chronic pain.

6 For HIV/AIDS, there is variability and
7 short-term outcomes and insufficient long-term data
8 addressing the safety and efficacy in marijuana when used
9 to manage symptoms.

10 For glaucoma, the limited documented toxicity
11 of marijuana have resulted in the American Glaucoma
12 Society, the Canadian Ophthalmological Society, the
13 American Academy of Ophthalmology, complimentary task
14 force to determine that there's insufficient evidence to
15 indicate that marijuana is safer and so on and so forth.

16 Marijuana does not fulfill FDA or DEA criteria
17 as a medicine. The drug has high potential for abuse.
18 The drug has no currently accepted medical use, and
19 there's a lack of accepted safety standards for the use of
20 the drug, even under medical supervision.

21 The drug's chemistry is unknown and certainly
22 not reproducible. Safety research and standards for
23 marijuana are inadequate. Death is not the only safety
24 outcome. Compromised brain function, inability to drive
25 safely, inability to learn at school, inability to

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1 function in a job, these are other issues that are
2 critical.

3 For marijuana, the effective studies are
4 inadequate, insufficient, and unlikely to be acceptable
5 for a complex plant. Marijuana is not accepted by
6 qualified experts. I can list all of the American Medical
7 Associations that do not accept marijuana as a medicine.

8 The scientific evidence is insufficient on
9 marijuana as a therapeutic safety -- for safety and
10 efficacy, and the problem is that on the one hand, the
11 advocates say there's 20,000 papers that show it's
12 effective. On the other hand, they say that because of
13 the scheduling problem, we don't have sufficient data.

14 There is sufficient data to show that in
15 drug-naive patients, marijuana's psychoactive effects,
16 intoxicating effects, are, in fact, adverse enough for
17 them to drop out of clinical studies. And there is a lack
18 of accepted safety for the use of the drug under medical
19 supervision.

20 There's brain changes in structure, function,
21 circuitry, biochemistry. There's an association with
22 psychosis correlated with marijuana strength and use,
23 earlier age of onset of schizophrenia, reduced IQ with
24 early initiation and continued abuse, compromised
25 cognitive ability, executive function after the acute

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1 effects wane.

2 Marijuana addiction is significant with
3 frequent users, and it is an increased risk, especially
4 for young people who have six times the higher prevalence
5 of addiction compared to adults. There's an amotivational
6 syndrome that has been documented in recent studies,
7 increased traffic accidents, increased school dropouts.

8 So in conclusion, what I would say is that the
9 consequences of designating marijuana as a medicine are
10 unacceptably high because the passage of this bill would
11 further re-rule public perception that marijuana is
12 harmful, especially among youth.

13 And that is why so many people in the states
14 are voting, because they think it is an acceptable
15 medicine without knowing the biomedical literature that
16 says there is insufficient evidence for it; youth drug use
17 in states that have approved medical marijuana are our
18 highest in the nation because they have a reduced
19 perception of harm and they have increased access to the
20 drug.

21 The vast majority of medical marijuana users in
22 states with marijuana bills are young men who report
23 chronic pain, not these life-threatening diseases.

24 And No. 13 of this bill says, "Any other
25 condition." For these four reasons, medical indications

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1 in the bill are not supported by research. Marijuana does
2 not meet the FDA criteria for medicine.

3 Circumventing the FDA places our entire
4 drug-approval process in jeopardy, and the public
5 perception that marijuana is a medicine is increasing use,
6 especially with our most vulnerable populations.

7 So I would conclude by saying contrary to
8 compassion, which has been presented so forcefully by the
9 representative from NORML, contrary to civil liberties,
10 which has been presented by the ACLU, contrary to
11 conspiratorial theories that Big Pharma wants their hand
12 in it or that the U.S. Government has a patent on isolated
13 and synthetic cannabinoids, none of these issues are
14 really the primary issue why people push back on these
15 kinds of bills.

16 The primary reason is that it is far more
17 compassionate to administer medicines that have a
18 scientific basis. It is far more compassionate to
19 administer medicines to people with serious medical
20 conditions when we have long-term safety and effectiveness
21 outcomes than what we currently have with marijuana. And
22 based on accumulating evidence, I don't think we will ever
23 have good safety outcomes. Thank you.

24 REPRESENTATIVE MARSICO: Thank you. Can you
25 hear me?

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1 DR. MADRAS: I can hear you.

2 REPRESENTATIVE MARSICO: Thank you very much
3 for your testimony and your patience as well. Are there
4 any questions from the Members?

5 (No response.)

6 REPRESENTATIVE MARSICO: Seeing no questions,
7 thanks again. We appreciate your time.

8 DR. MADRAS: Thank you.

9 REPRESENTATIVE MARSICO: We have a wealth of
10 written testimony submitted for today's hearing and you
11 can find those that submitted the testimony on the
12 agenda. They are David G. Evans, Esquire, Kevin Sabet,
13 Cathy Jolley, Troy F. Kaplan, Esquire, Charles Larsen,
14 Pennsylvania Chapters of the National MS Society, Robert
15 Parise, Ph.D., Mark A. Scialdone, Ph.D., Dr. Thomas Lynn
16 Whitten, Lori Ann Bagley, Christy Billett, Theodore
17 Caputi, Donna Carmichael, J.C. Ciesielski, Nathan Hall,
18 Carol L. Hunter, Douglas Jeeves, Joseph Kringer, Junior,
19 Denise Liggett, Dave Lovett, Allan Luft, Darren L.
20 Mershimer, Julie Michaels, Joseph Mirt, Graham Peters,
21 Luke Shultz, Carlo A. Valeri, Angel Winslow, Royce Wong,
22 and Karla Wood.

23 This concludes the third of hearings we've had
24 on the legalization of cannabis, and we have, I guess,
25 almost 15 and a half hours of testimony in those three

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1 hearings that we've had, hundreds of pages of testimony.

2 And as you know, as Legislators, we wanted to
3 hear from the public, and we did. Probably the amount of
4 work that has to be done yet is just beginning to really
5 evaluate the testimony and to go through the suggestions
6 accepted and submitted through these hearings.

7 So I just want to thank the Members that have
8 been to the hearings. I want to thank the staff, thank
9 our video staff. You guys are getting this stuff down,
10 aren't you? I want to thank our stenographer. I want to
11 thank Allegheny County and a very special thanks to our
12 security. We appreciate your being here today. So also
13 thanks to all the testifiers and the public. This hearing
14 is now adjourned.

15 (Whereupon, the above-entitled matter was
16 concluded at 3:20 p.m., this date.)

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C E R T I F I C A T E

I hereby certify that the proceedings and
evidence are contained fully and
accurately in the stenographic notes taken
by me on the hearing of the within cause
and that this is a correct transcript of
the same.

Amanda M. Williamson, Notary Public