39 37 1 marijuana already know how to get it. It is now about ten to eleven, and A bill was approved on June 1, 1979, 2 we're still a little bit of ahead of schedule. Is 2 which appropriated \$247,000 to the Board of 3 3 Dr. Hertko here? Pharmacy Examiners which was contingent upon the ED HERTKO: Yes. 4 4 Board of Pharmacy Examiners establishing a LLOYD JESSEN: Would you like to go 5 5 therapeutic research program within 90 days of the next, Dr. Hertko? Thank you. 6 7 effective date of that act. 7 ED HERTKO: Are you running The board was mandated to organize a R 8 20 minutes ahead? physician advisory group to advise the board on the 9 9 LLOYD JESSEN: We are. ED HERTKO: Anyway, my name is 10 structure of the program which was never 10 operational. Today therapeutic research program Dr. Edward Hertko, and I've been a physician in the 11 11 12 laws are no longer effective because of federal 12 state of Iowa for the past 50 years. Before I obstructionism. 13 start my paper -- and I'll read it, and the paper 13 The dual scheduling scheme still is called "Deja Vu. Medical Marijuana, Where Are 14 14 exists in the statute. But the language for the 15 15 therapeutic research program Administrative Code Let me explain. Back in 1979, I 16 16 620-12 was active October 1, '79, to June 30, 1981. 17 appeared before a legislative forum who at that 17 And then it eventually was removed in 1987, and it time then referred the problem of marijuana to the 18 18 pharmacists. Now we're doing it in reverse. We're 19 is now currently just symbolic. 19 Should suffering patients be 20 20 going to the pharmacists to refer it to the 21 criminalized? There were approximately legislature. 21 22 830,000 arrests, 99 percent by local, not federal, 22 However, being a student of the Bible, 23 officials in the United States in 2006. 89 percent 23 this also brings me to mind in the book of Genesis of these were for possession, not sale or 24 where the Jewish nation was going to the promised 25 manufacture, of marijuana. land. They wandered around in the desert for 25 38 40 40 years. And then they got to the promised land, 1 Even if only 1 percent of those 1 arrested were using marijuana for medical purposes, and they sent 13 spies into the promised land, and 2 2 then there are more than 7,000 medical marijuana they came back. Eleven people said "Oh, my God. 3 arrests every year. You cannot go in there. The people are huge. Here we are 30 years later in Iowa, They're probably over 5 foot 7." 5 6 And two people said "Go in. Do it." and the marijuana debate continues unceasing And they were Caleb and Joshua. But they went back regarding marijuana and its use in medical spheres. 7 out into the wilderness for 40 years, turned around Since 1979, and especially since the mid-1990s, 8 8 9 there have been numerous studies that have shown 9 and came back. When they got there, Moses saw the 10 that many patients suffering from AIDS, cancer, 10 promised land. He died, but Caleb and Joshua got 11 11 multiple sclerosis, epilepsy, Lou Gehrig's disease, So here we are with this position now severe or chronic pain, severe nausea and vomiting 12 12 secondary to chemotherapeutic drugs, severe or because I'm back here 30 years later with the same 13 13 problem. So I don't know whether I'm Moses and 14 persistent muscle spasms, and other debilitating 7.4 illnesses that find that marijuana provides some going to die or whether I'm Caleb and Joshua who 15 15 are going to be able to see something happen. 16 relief from their symptoms. 16 Available prescription drugs often And with that, I'll read my paper, 17 17 which I called "Deja Vu. Medical Marijuana, Where come with far more serious side effects than 18 1.8 marijuana. And many patients -- That doesn't 19 19 Are You?" count, does it? And many patients who find relief 20 20 Ladies and gentlemen of the Iowa Board from marijuana simply do not respond to other 21 of Pharmacy, thank you for allowing me to address 21 prescription medications. you regarding this subject. I did the same thing 22 22 In 1999 the Institute of Medicine, 23 30 years ago to the Iowa legislature. I will focus 23 24 which you already mentioned, showed there was great only on the medical use of marijuana, not its recreational use. The people who need recreational 25 relief for -- for marijuana. In 1988 after

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reviewing volumes of evidence on marijuana's medical use, the Department of Enforcement Agency chief administrative law judge, Francis Young, found that maintaining marijuana as a Schedule I drug would be unreasonable, arbitrary, and capricious and that marijuana in its natural form is one of the safest therapeutically active substances known to man.

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Last year in 2008, the American

College of Physicians, of which I am a member -- I
have been a fellow of the American College of
Physicians since 1968 -- came out with a position
paper on the therapeutic role of marijuana in
certain conditions but also -- came out with a -pardon me. I skipped a line -- which stated the
conclusion evidence not only supports the use of
medical marijuana in certain conditions but also
suggests numerous indications for the cannabinoids.

Additional research is needed to further clarify the therapeutic value of the cannabinoids and determine optimal routes of administration. The science on medical marijuana should not be obscured or hindered by the debate surrounding the legalization of marijuana for general use.

for seriously ill patients to use medical marijuana under the supervision of their physician. If the patient with one of the devastating diseases stated earlier desires the use of marijuana, they then must grow it illegally or buy it on the criminal market.

Therefore, cash goes into the purses of drug dealers or drug gangs instead of into the coffers of the State through manufacture, distribution, registration, and taxation of marijuana which could add up to hundreds of thousands of dollars yearly.

If a patient is charged with a possession of marijuana, is it possible to use medical necessity as a defense? Yes. It is possible for -- it was possible for a judge to allow an individual to raise a medical necessity defense based on the state having a symbolic medical marijuana law, and in Iowa, that happened. An Iowa judge ruled that a medical marijuana user's probation could not be revoked for using marijuana because the Iowa legislature had defined marijuana as a Schedule II drug with, quote, currently accepted medical use, unquote.

Of note, Iowa moved marijuana into

The position paper of the American College of Physicians also stated, quote, given marijuana's proven efficacy at treating certain symptoms and its relatively low toxicity, reclassification would reduce barriers to research and increase availability of cannabinoid drugs to patients who have failed to respond to other treatments.

Since 1996, 13 states have enacted laws that effectively allow patients to use medical marijuana despite federal law. Those state laws have removed criminal penalties for patients who use and possess medical marijuana with their doctor's approval or certification. These laws are working well, enjoy popular support, and are protecting patients.

Data have shown that any concerns about these laws increasing youth marijuana use are unfounded. Eleven of the thirteen medical marijuana approved states that have produced before and after data have reported overall decreases in teen marijuana use exceeding 50 percent in some age groups. It has been said that it is easier for a teenager to buy pot than a six-pack of Coors.

Right now under Iowa law, it's illegal

Schedule II in 1979 when it enacted a therapeutic research program. The research program expired in 1981, but marijuana schedule remains in place. A 2005 national Gallup poll found that 78 percent of Americans support making marijuana legally available for doctors to prescribe in order to relieve pain and suffering.

For over a decade, polls have consistently shown that 60 to 80 percent support for legal access to medical marijuana. Prominent health and medical organizations including the American Academy of HIV Medicine, the American Nurses Association backed it in 2003, American Public Health Association, Leukemia/Lymphoma

Society, Lymphoma Foundation, and like I stated earlier, American College of Physicians.

At the present time, marijuana is a Schedule I drug which means A, the drug has a high potential for abuse. This is not true when compared to other drugs such as Valium, Xanax, sleeping pills, and other opiates which are much more addictive and are not Schedule I drugs. Beer and tobacco are much more addictive.

The drug has no currently accepted medical use in treatment in the United States.

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| | This is not true. Just read the medical | 1 | death, disease, crime, and suffering. | |
| 1 | | 2 | Because incarceration does little to | |
| 3 | | 3 | reduce the harm that any ever-present drug causes | |
| 4 | | 4 | to our society, a harm reduction approach favors | |
| 5 | | 5 | treatment of a drug addiction by health-care | |
| 6 | | 6 | professionals over incarceration in the penal | |
| 7 | | 7 | system. | |
| 8 | | 8 | Because some drugs such as marijuana | |
| 9 | | 9 | have proven medicinal uses, a harm reduction | |
| 1 | | 10 | strategy not only seeks to reduce the harm that | |
| 10 | | 11 | drugs cause but also to maximize their potential | |
| 11 | | 12 | benefits. A harm reduction strategy recognizes | |
| 12 | | 13 | that some drugs such as marijuana are less harmful | |
| 13 | | 14 | than tobacco, cocaine, alcohol, methamphetamines, | |
| 14 | | 15 | and many others. | |
| 15 | | 16 | Harm reduction mandates that the | |
| 16 | | 17 | emphasis on intervention should be based on | |
| 17 | | 18 | relative harmfulness of the drug to society, a harm | |
| 18 | | 19 | reduction approach that advocates lessening the | |
| 15 | | 20 | harms of drugs through education, prevention, and | |
| 20 | | 21 | treatment. | |
| 2: | | 22 | Harm reduction seeks to reduce the | |
| 2: | | 23 | harms of drug policies, dependent on an | |
| 2: | | 24 | overemphasis on interdiction such as arrest, | |
| 2. | | 25 | incarceration, establishment of a felony record, | |
| 12 | 5 comprehensive approach to drug abuse and drug | | the state of the s | - |
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| | 46 policy. Harm reduction's complexity lends to its | 1 | lack of treatment, lack of adequate information | 8 |
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ED HERTKO: Oh, yes. I followed this last week in the paper. The amount of money that they're going to gain, and I'm thinking Iowa needs money. Why don't we legalize it and tax it? Like one guy says, legalize it and tax the hell out of it.

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LLOYD JESSEN: The question I have for you is, if medical marijuana was approved in Iowa, would you have a recommendation on how distribution of marijuana occurred here given the fact that it happens in different ways in different states?

ED HERTKO: The only way that I would be in favor of it is the same way when I was in practice. I would write prescriptions for Phenergan, for morphine, for codeine, for any of the drugs and so forth, and I would do the same thing here, that I would write a prescription, which is a legal document which then would take it to a legal dispensary for a pharmacist who has been brought up to date on how to fill that thing so that you have some idea of who is getting it, and it all has to be legal.

LLOYD JESSEN: Thank you. Some states use what they call a compassionate care center, and another alternative would be to have licensed

professionals can go ahead and use it because I personally think that marijuana does have a place and a legal place. As far as the recreational, as I said earlier, those people already know how to get it.

LLOYD JESSEN: So in your opinion, would you favor dispensing by a pharmacy rather than what other states call compassionate care centers?

ED HERTKO: No. I would first go with that. I don't think -- I don't think -- that came later because they've been doing that for years in California. I don't think they did all that compassion centers -- I don't think that was Day 1. I think that came later.

I would go with the legal part through -- legally dispensing it through a pharmacy and go with that, see how it runs, and then if you want to change it later to something else or add something else, but I'd first -- I'd go out to California and find out how they're doing it and figure out "Oh, I ain't going to do that to start with."

LLOYD JESSEN: Any other questions from board members? Thank you, Dr. Hertko.

pharmacies dispense the marijuana. How do you feel about that?

ED HERTKO: If I were going to do that, the first place I would do is I would go to California because they're the ones whose law -- when you're dealing with 13 states, like I've read the articles from every one of the states, and some of them are really to the -- far to the left or whatever you want to call it, and over in California, I think they've gone a little bit too far, and some of the stuff they're doing, it almost sounds like they're doing like a Neverland. You can just walk down the street and buy marijuana and hashish and so forth, and you buy it just the same as cigarettes. But I think that's a little much.

I think at this point in time I don't think we're quite ready for that sort of a situation to arise. I would be favor of legalizing it, but it has to be legally dispensed through a prescription from a practicing physician or practicing health physician. I don't know what the law would be.

But hopefully, though, we will take

this and just add it to the aramatarium that

physicians and other people and health

If I could please ask the audience, I know you're enthusiastic about many of the comments that are being made, and if you could please just hold your applause until each speaker has finished. I'm just worried that if we get a lot of people who want to speak throughout the rest of the day, we want to be sure we have time for them, and if we have to pause every time we have applause, that's going to slow us down. So I appreciate the fact you want to applaud, but if you could please just applaud when each speaker has finished, that would, I think, be fair to everyone who might want to speak today.

Let's take a five-minute break so that our shorthand reporter can have a little rest, and we'll be back in about five minutes.

(Short recess.)

LLOYD JESSEN: Okay, everyone. We're ready to start again, and we have two doctors from Washington State, and I believe -- are you fellows with the College of Medicine there?

SUNIL AGGARWAL: Yes, sir.

LLOYD JESSEN: Okay. I'll let you introduce yourselves and if you -- when you start, if you could please spell your names for the

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55 53 associated with a lot of the sort of prevailing 1 record. 1 social mythologies around -- around cannabis. SUNIL AGGARWAL: Okay. Thank you, 2 So my comments, basically what I want Lloyd. My name is Sunil Aggarwal. I am a medical 3 3 to center around, a couple of the issues that the 4 scientist training program trainee at the 4 board is considering with regards to the current University of Washington School of Medicine. I 5 medical use of cannabis in the United States and have completed a Ph.D. in medical geography 6 some of the science around that. studying the medical geography of cannabinoid 7 So as you know, there are 13 states botanicals in Washington State. 8 now in the United States that have active medical 9 I'm currently a fourth year medical 9 cannabis programs. Roughly, I'd say between 7 and student at the University of Washington. And my 10 10 8,000 physicians in those 13 states have authorized 11 name is spelled S-u-n-i-l A-g-g-a-r-w-a-l. 11 the use of cannabis for their patients, maybe about GREG CARTER: Okay. Hi. I am Greg 12 12 13 400,000 or so now. Carter, G-r-e-g C-a-r-t-e-r. I am a professor of 13 You all know there are four patients 14 rehabilitation medicine at the University of 14 in an active federal program that's been going on 15 Washington. I was a part of Sunil's doctoral 15 for three decades. One of the federal patients, as 16 committee, and we have done research together on 16 you know, lives in Iowa. They receive a supply what he referred to as cannabinoid botanicals, just 17 17 from Mississippi, and that Mississippi program has 18 so you know what we're talking about. And I have 18 supplied cannabis to -- in at least 33 clinical 19 been at the University of Washington for 15 years. 19 trials conducted in the United States with smoked 20 I've got over 120 peer-reviewed journal 20 cannabis for the treatment of a variety of 21 publications. 21 conditions. And I have a website if you're 22 22 I sent Mr. Jessen a list, a huge list, interested in my full qualifications. You just 23 23 of -- what do you call it? -- publications that Google my name, and the University of Washington 24 24 have come out with that supply of cannabis. What's has a bio page that pulls everything up for you. 25 25 56 54 interesting is that there has been about ten gold LLOYD JESSEN: Okay. Thank you. 1 1 standard placebo-controlled trials conducted with 2 SUNIL AGGARWAL: Did you want us to 2 what we call cannabinoid controls where your talk, or do you want to ask questions? I'm not 3 3 control group is oral THC pills. sure how you want to do the format. 4 4 About ten trials have been conducted LLOYD JESSEN: Thank you for 5 since 1990 -- since, I think -- excuse me -- since introducing yourselves. We'd just like you to make 6 6 2001. And all ten trials have shown significant whatever comments you want to make, and then we 7 improvement in the cannabis group compared to the 8 might have questions for you. 8 SUNIL AGGARWAL: Okay. Great. Well, 9 control. 9 These studies were conducted at major thank you again for inviting us to speak, and I 10 10 medical centers such as UCSF, UC Davis, UC San want to commend the Iowa Board of Pharmacy members 11 11 Diego, Columbia University, University of Chicago, for taking this -- this step to look at the science 12 12 and they were all published in pretty mainstream and current practices around cannabis. 13 1 3 medical journals such as the Annals of Internal 14 I would -- I would suggest that we do 14 Medicine, Neurology, Journal of Acquired discuss this plant as its scientific name, which is 15 15 Immunodeficiency Syndrome, Psychopharmacology, cannabis, just -- just like we talk about other --16 16 Anesthesiology, et cetera, the Journal of Pain, and other drugs and substances with their scientific 17 17 it's also important to note that we also have one name rather than their slang name when we talk 18 constant style systematic review and meta-analysis about medicine, so you don't want to put, you 19 19 evaluating the use of cannabis in know -- you don't want to put your pediatric 20 20 chemotherapy-induced nausea and vomiting. 21 patients on ice. You put them on amphetamine or 21 And one meta-analysis that combined 22 methamphetamine derivative, and you know, you don't 22 18 studies of cannabis or cannabinoid versus 23 use blow in your nasal surgery. You use cocaine. 23 24 standard NTC meds showed a statistically So it's important that we don't use 24 significant difference in patient preference for 25 this slang word because oftentimes, that gets 25

cannabis -- preference for one of the studies in favor of cannabis or its components.

2.0

So this is what's called Level 4 evidence, which is the highest form of evidence that's part of the standards of evidence-based medicine.

So as far as -- as far as the question posed whether cannabis has an accepted medical use in treatment in the United States, that is a -- that's what I hope my comments would address.

The question about whether there's an accepted safety for use in treatment in medical supervision, I've also sent to Lloyd a study that was called a Comprehensive Review of the Adverse Effects of Medical Cannabinoids, which was a systematic review of all controlled studies, clinical studies, that have been conducted with cannabis and cannabinoids and demonstrated that -- shows that there were absolutely no adverse -- serious adverse events that had taken place in the trials that have been conducted thus far. And that was published in the Community of Medical Association Journal in 2008.

I guess in general comments, I should mention that cannabis is a very old substance that

That's my specialty, and my interest in cannabinoid medicine dates back probably 15 years when I first came up to the University of Washington. There was some other folks that were looking at cannabinoids as neuroprotectants.

And I take care of patients with Lou Gehrig's disease or amyotrophic lateral sclerosis, which you folks are probably familiar with. It's a very bad disease. It presents a unique set of clinical symptoms that's hard to manage.

And I started looking at some of the properties of cannabis, initially looking at the neuroprotective role and thinking maybe it was a disease-modifying agent but then looked more at what actually that produces pharmacologically including drying up the mouth, relieving pain, relieving muscle spasticity, improving appetite, perhaps improving mood. I said, well, this might really help ALS patients, and that's what I've been studying.

Actually, it does, and I published a first paper on that in 2001. We've had a couple of follow-up papers. I still think it also does have some significant potential as a disease-modifying agent or agents, cannabinoids in ALS, and there was

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was evolved 37, 38 million years ago and has been used widely in many indigenous medical traditions around the world before it came to the United States.

The chemicals in cannabis, there's maybe 500 or so, and there are about a hundred or so cannabinoids in cannabis which interact with the body's endogenous cannabinoid system, which is 300 million years old in biology, and in recent years, recent decades, people were trying to come to understand that the cannabinoid system played a vital role in regulating appetite, mood, memory, inflammation, pain, muscle relaxation, even bone formation, and so it's the -- the system that has impacted cannabis has been validated through our understanding of the mechanism of action of this plant through the endocannabinoid system, and more research is continuing and hopefully will continue to determine the different varieties of cannabis, how they have various impacts in various disease models and conditions. So I'll pass it over to my colleague,

Dr. Carter, and we can talk more. Thank you.

GREG CARTER: Thank you, Sunil.

So I practice neuromuscular medicine.

one mouse study done here at the University of Washington where we were able to show that the -- a model of ALS, which is a superoxide dismutation of a mutant mouse, lived 50 percent longer, and actually the process of the disease was delayed significantly in mice that were pretreated with a mix of cannabinoids.

From a practical standpoint, because I think that does count for something, I've probably taken care of upwards of maybe 4 to 500 patients over the years that have been actively using cannabis.

It's important for you to know I never recommend -- I never recommend to my patients to smoke cannabis. I always have them in a vaporizer. The cannabinoids are oil based, 21 carbon terpene compounds that are easily vaporized, aromatized at about 2, 300 degrees Fahrenheit which is considerably cooler than combustion, which is around a thousand degrees Fahrenheit, so you can aromatize the cannabinoids and just inhale them through a hot mist with a device called a vaporizer.

They also are quite active with oral

They also are quite active with oral injection. In fact, the half-life has been

63 companies. slightly longer. I can -- I think Sunil might have 1 1 In the state of Washington last year, 2 some stuff on that he actually included in part of 2 accidental overdose deaths from prescribed opiates 3 his thesis as well, but dosing versus -- you know, 3 surpassed deaths from motor-vehicle accidents. an inhaled versus oral metabolism. 4 Now, there wasn't a single death -- there's never I think it's important as a group of 5 5 been a single death reported from the overdose of pharmacists to realize that we now know pretty 6 cannabis. factually how the cannabinoids work. We have CB1 7 So if you want to look at this thing receptors in our peripheral -- I'm sorry -- central 8 from a historical perspective back from the Reefer nervous system and CB2 receptors in our peripheral Q 9 Madness days, Harry Anslinger was the first drug 1.0 10 nervous system. czar. He was in power at that time, and it was They are a -- probably mediated at 11 1.1 that man and his cronies that really led us on the least in part through cytokine pathways, but it's 12 12 path to opiate-based medicines instead of 13 getting more and more delineated exactly how 13 cannabinoid-based meds. That cost the lives of cannabinoids produce their effect. Clinically 14 14 untold number of people. speaking, they have about a three- to four-hour 15 15 I mean opiates -- at least in my half-life if inhaled and maybe a six- to eight-hour 16 16 practice where I deal with chronic 17 half-life if eaten. 17 neurodegenerative conditions, opiates cause Sunil just reviewed a substantial part 18 18 constipation, respiratory suppression. You could of my clinic population as part of his thesis, and 19 19 get easily dependent on them, hyperallergies. 20 that was 150 patients? 20 They're very hard to work with. 21 SUNIL AGGARWAL: 130. 21 Whereas cannabinoids, the dosage GREG CARTER: 130 -- well, even that 22 22 schedule is easy. Patient can self-nitrate for an criteria, that did not include my ALS patients 23 23 effect. There's very little physical dependency. actually because we had to get a separate IRP for 24 24 You can, of course, get psychologically addicted. that, but there was no -- no dropouts, no 25 25 64 62 In my practice I'm not too worried about people 1 1 significant adverse reactions. with ALS getting addicted to anything, but the It didn't work for everybody, but it 2 2 concern over addiction -- and I've debated with 3 worked for the vast majority of people, and 3 addictionologists -- well, sure, there's a point certainly my argument has been all along that the with that. federal government schedules dronabinol which is 5 5 Unfortunately, you know, a certain 100 percent THC as a Schedule III, and then it 6 percentage of our population is going to be turns around and takes a natural plant which has 7 addicted to any substance at any given time, and maybe 20 to 25 percent THC at best and makes it a 8 8 that's been around since the dawn of man. It 9 9 Schedule I. That makes no sense whatsoever. exists in the animal world too. I mean creatures And it turns out that THC, which is 10 10 that have receptors and can modulate their dronabinol, 100 percent dronabinol, 100 percent 11 11 perception of reality will use substances to alter 12 pure THC, that is the most psychoactive 12 their perception of reality. That's just the way 13 cannabinoid. Many other -- cannabidiol, 13 dronabinol, those compounds do not -- have not been 14 ir works in nature. 14 No matter what we do, there's always 15 shown to have significant psychoactive effects. 15 going to be a certain percentage of the population 16 Our government really is -- you know, 16 that's addicted, and the addictionologists will will allow physicians to phone in a prescription 17 17 always have jobs, unfortunately. Prohibition has 18 for the most -- 100 percent of the most 18 never been an effective strategy, never ever. psychoactive compounds in cannabis, but it turns 19 19 Didn't work for alcohol. It's not working for any 20 around and makes the natural plant a Schedule I. 20 21 drugs. Now, again, and I've argued with folks 21 I mean sadly to say, I think the 22 from the DEA and what have you, and they say "Well, 22 abject prohibition of marijuana, at least in it's a raw fruit plant." Now, I would argue that, 23 23 Washington state now, is to buy heroin for cheaper, 24 first of all, my personal opinion, I think our 24 and heroin and methamphetamine are considerably 25 country has been taken over by the pharmaceutical

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67 65 It turns out smoked cannabis really --1 cheaper than cannabis. 1 I don't like to recommend people smoking anything, So I used to try to stay out of the 2 2 but smoked cannabis turns out to be not terribly recreational argument, but I just -- that's my two 3 bad, but I just don't like the idea of telling my cents worth as a father of four kids. So I'll 4 patients to smoke. I'm very anti-tobacco, and it leave it at that. 5 just puts me in an awkward situation, so vaporizer LLOYD JESSEN: Thank you for all of 6 completely gets around that. There's no smoke. those comments. I have a question for you. Based 7 There's no odor, minimal odor. on your professional medical opinion, do you feel 8 8 And these devices are readily 9 there is current scientific evidence to support the 10 available. use of cannabis medically? 10 SUNIL AGGARWAL: And sir, I just -- I GREG CARTER: Yeah. I want to be -- I 11 11 sent a paper to Lloyd which is a study of the 12 want to be perfectly clear about that, and I will 12 vaporization modality published in the Journal of state my reputation, my professional license, my 13 13 Pharmacology, an experimental therapeutic. 14 14 DEA registration number on that. It was -- it's an FDA-approved drug With my right hand in the air, my left 15 15 delivery device and has been studied in clinical hand on my heart, I will state that in my 16 16 trials, and that's one paper I've sent, professional opinion as a physician practicing over 17 17 characterizes the benefit of using this drug 20 years now that the scientific evidence to 18 18 delivery device. support the medicinal use of cannabis is 19 19 And it should be noted, though, some 20 2.0 overwhelmingly in favor. patients do smoke, and combustion -- combustion of SUNIL AGGARWAL: I also would like to 21 21 cannabis does not produce the same effects on the 22 22 concur with that opinion. This is Sunil Aggarwal body as combustion of tobacco. We just can't seem 23 again. I've actually reviewed the literature in a 23 to find the epidemiological link between exposure 24 recent paper that I was first author on in the 24 and cancers as can be found with tobacco smoking. 25 Journal of Opioid Management and the International 25 68 66 You also can't find a link to COPD or Pain Management Journal. 1 emphysema, and these studies have been published in LLOYD JESSEN: Thank you. Any 2 major cancer prevention journals, and the author questions from board members? 3 that Dr. Carter mentioned, Dr. Tashkin did a very BOARD MEMBER BENJAMIN: This is Verne 4 4 large retrospective study in the Los Angeles area Benjamin. I am chairman of the Board of Pharmacy. 5 During your talk, I heard -- it seemed like I heard showing that no link can be found, and a recent 6 you say that your preferred way of using this drug study published showed there was actually a 7 7 decreased risk of cancer that they had in those who would be through inhaled rather than burned usage 8 Я 9 smoked cannabis for 10 to 20 years. That was because of the temperature differential? 9 published in Cancer Prevention Journal. I'll be GREG CARTER: Yes, yes. Let me 10 10 11 happy to send the references. clarify that again. So the vast majority of 11 But this also makes sense because we cannabinoids are found on the flower of the female 12 1.2 know cannabinoids have anti-apoptotic properties. plant, and they're oils. They are easily 13 13 14 Sorry. They have pro-apoptotic properties for aromatized oils like most organic compounds. carcinogenic cells and anti-apoptotic for They're 21 carbon terpenes. 15 15 16 noncarcinogenic cancer cells. And you can -- at about 200 degrees 16 So the science -- there's a lot of 17 Fahrenheit, they will go into a mist, kind of like 17 interesting science on the cancer end of things, aroma therapy. People who do that in spas and 18 18 but the risk of smoking, of course, is soot and such, they'll put lavender and things and other 19 19 bronchitis and respiratory irritation, and we would 20 20 essential oils into a mist. rather circumvent those potential risks for our 21 You can do the same thing with 21 patients and recommend vaporization. cannabis, and that -- Donald Tashkin out of UC San 22 22 LLOYD JESSEN: Thank you. There Francisco actually looked at pulmonary function 23 23 appear to be a lot of problems with programs in 24 testing, and actually he looked at it with smoke as 24 states like California and Colorado. 25 well. 25

71 getting and how it's used. 1 If either of you are familiar with the 1 And right now that doesn't exist 2 programs in those states, could you respond to 2 because the patients go to a co-op. Now, some of that, and do you have a recommendation as to how 3 3 these people in the co-op, I have to say, are you think distribution of cannabis should occur if 4 peasant pharmacists, I guess you would call them, it is approved in a state? 5 people that have picked up quite a bit of GREG CARTER: Sure. Well, this is 6 biochemistry and pharmacology just from doing this Greg Carter. I can address that. As a physician, 7 over the years, but I would -- I would be much in it often is somewhat awkward when I give this 8 favor of, you know, the State controlling this just diatribe on the benefits of cannabis, and then 9 like it does, you know, State Board of Pharmacy as there's the elephant in the room about, well, where 10 10 you all are controlling. Here's Sunil. 11 do we get the cannabis? 11 SUNIL AGGARWAL: Yeah. New Mexico and 12 In Washington state we have co-ops 12 Rhode Island are probably the nicest cases to look 13 that have websites, and so it's actually relatively 13 at. And both of their legislatures have approved 14 easy. However, I've pushed hard to get the 14 state licensing of their medical cannabis Department of Health here to take over. In my 15 15 opinion, as a physician, I would like you all to be 16 dispensary. 16 Unfortunately, California being the involved. I'd like to have the pharmacists on 17 17 flagship state, '96, did not actually address 18 18 board. distribution of cannabis. Neither has Colorado. 19 I'd like to have state-authorized 19 So what has happened is kind of a distribution where we can send our patients, and 20 20 local -- local-level recommendation, and some they would get, you know, quality cannabis -- and 21 21 places are better regulated than others. There was you can measure the content of cannabinoids. You 22 22 no attempts made at state-level regulation of can measure the THC content very easily, and now 23 23 distribution or what I call delivery sites. it's even easier to measure the content of other 24 24 Though that being said, there are some 25 25 cannabinoids. 72 70 places in California that don't get a lot of press We haven't really gotten into the --1 1 but do an excellent job. For example, the City of So let me answer your question by saying I'd love 2 Oakland has licensed just a certain number of to see the government, state government, involved 3 3 dispensaries in their state -- I mean in their in that, and I would love to see pharmacies city. Excuse me. involved in that. 5 And one dispensary called Harborside So the physician makes a specific 6 6 actually tests all their samples for mold and any authorization. The patient takes that to a 7 7 other pesticides and does do gas chromatographic state-authorized dispensary, and a pharmacist 8 testing of their samples and labels the contents distributes the medicine in a medicine bottle with 9 9 with the percentage of THC and in some cases a a label on it, just like we do other medicines. 10 10 percentage of CBT, another important cannabinoid. 11 And that does occur to an extent. The 11 So they've been able to sort of co-ops out here put it in a -- in a medicine 12 12 self-regulate, but we can't always solely rely on, bottle, but there's no pharmacist involved, which I 13 13 you know, the -- the goodness of dispensers to do think is wrong. I think pharmacists do play a huge 14 14 this, and I think we should look at states like, 1.5 15 role. like I mentioned, Rhode Island and New Mexico. I prescribe a lot of dangerous drugs. 16 16 New Mexico has already started -- you I have basically hospice and palliative-level 17 17 can contact New Mexico Department of Health if patients, so I'm unfortunately also prescribing a 18 you're a patient, and they will refer you to a lot of opiates, and I have made good friends with a 19 19

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significant role.

Other countries, of course, have been (515) 224-1166

state-licensed dispensary where you can go, and

board of these dispensaries. I don't know what

role pharmacists play, but I'm sure they play a

they even have a physician on staff as part of the

dangerous substance."

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lot of pharmacists around here, and I depend on you

And I don't think cannabis is

quys to tell my patients, again, "Hey, this is a

particularly dangerous, but it's always good to

have a pharmacist go over again what they're

| | 73 | | | 75 |
|----|---|-----|---|----|
| 1 | doing this for quite some time. Holland, the | | to 25 speakers who have indicated they want to talk | |
| 2 | Netherlands has had a federally federally run | 2 | to us after lunch, so we will see you in an hour. | |
| 3 | prescription program where patients can go to | 3 | (Lunch recess.) | |
| 4 | pharmacies and fill their cannabis medical | 4 | LLOYD JESSEN: Okay. Welcome back. I | |
| 5 | prescriptions. | 5 | think we're ready to continue, and our next | |
| 6 | Unfortunately their program is | 6 | scheduled speaker is Gary Young from the Iowa Elks | |
| 7 | guite successful, very safe, but unfortunately | 7 | Association. Gary, are you here? | |
| 8 | patients prefer to go to the coffee shops because | 8 | UNIDENTIFIED MALE: He's right here. | |
| 9 | of likely probably because of access issues and | 9 | LLOYD JESSEN: Thank you. | |
| 10 | availability. | 10 | GARY YOUNG: It's really set up to | |
| 11 | So there are some models to follow, | 11 | address the audience, not the board. Who would you | |
| 12 | and California gets a lot of press, mainly because | 12 | prefer I speak to? | |
| 13 | of the hundreds of dispensaries in Los Angeles, and | 13 | BOARD MEMBER BENJAMIN: We'll listen | |
| 14 | now the City of Los Angeles is trying to kind of | 14 | either way. | |
| | cut down the number of the dispensaries and trying | 15 | GARY YOUNG: My name is Gary Young, | |
| 15 | to take out some of the real profiteers. | 16 | and I retired about two and a half years ago after | |
| 16 | • | 17 | a 35-year career with the Polk County Health | |
| 17 | Colorado, I haven't heard that many | 18 | Department. I worked as an environmentalist, and I | |
| 18 | problems about, but I'm aware that they also have | 19 | continue to maintain national professional | |
| 19 | no state-licensed system, but they have a few | 20 | registration as an environmental health specialist | ļ |
| 20 | openly operating dispensaries, and they get | 21 | emeritus. | |
| 21 | thousands of patients, so they're trying to solve | 22 | I'm here today representing the Iowa | 1 |
| 22 | the problem as well. | | Elks Association as a volunteer. The Iowa Elks | |
| 23 | LLOYD JESSEN: Well, thank you very | 23 | Association is an association of 33 local Elks | |
| 24 | much for all of your comments. I think that will | 24 | lodges in Iowa with about 12,000 members. | |
| 25 | be helpful to what we're doing, and I'll check to | 25 | Todges in Towa with about 12,000 members. | |
| | 7 | 4 | | 76 |
| 1. | see if either of our board members have other | 1 | The Benevolent and Protective Order of | 1 |
| 2 | questions. | . 2 | Elks nationally has the largest volunteer youth | |
| 3 | We don't have any more questions. | 3 | drug awareness program in the nation. We are | ļ |
| 4 | Thank you very much for calling us today. | 4 | committed to help our youth make informed choices | |
| 5 | GREG CARTER: Sure. I just want to | 5 | about drug, alcohol, and tobacco use. | |
| 6 | close by saying you're more than welcome, Lloyd, if | 6 | Recently the Iowa legislature banned | |
| 7 | you could give the board members there our e-mail | 7 | tobacco smoking in public places. This action was | |
| 8 | addresses, certainly I know Sunil and I will be | 8 | to protect employees and the public from the | |
| 9 | happy to answer any other questions. | 9 | harmful effects of secondhand smoke. | |
| 10 | And I always seem to think of | 10 | Redefining smoked marijuana as a | |
| 11 | questions about 20 minutes after the conference, so | 11 | medicine would allow users to smoke in places where | |
| 12 | if there are further questions, we'd be happy to | 12 | tobacco smoking is currently prohibited. If | |
| 13 | address them by e-mail. | 13 | someone is taking medicine, you cannot prohibit | |
| 14 | LLOYD JESSEN: Thank you, and we will | 14 | them from where and when they take it. | |
| 15 | do that. Thanks. | 15 | A study published in 2001 in the | |
| 16 | SUNIL AGGARWAL: Thank you. | 16 | British Journal of Psychiatry stated "Actions on | |
| 17 | LLOYD JESSEN: Yes. Thank you. | 17 | specific brain receptors cause dose-related | İ |
| 18 | SUNIL AGGARWAL: Thank you and enjoy | 18 | impairment of psychomotor performance with | |
| 19 | your historic building in Iowa. | 19 | implications for car and train driving, airspace | |
| 20 | LLOYD JESSEN: Thank you. Bye-bye. | 20 | piloting, and academic performance. Other | |
| 21 | GREG CARTER: Bye. | 21 | constituents of cannabis smoke carry respiratory | |
| 22 | SUNIL AGGARWAL: Bye. | 22 | and cardiovascular health risks similar to those of | f |
| 1 | LLOYD JESSEN: It is now noon, and | 23 | tobacco smokers." | |
| 23 | we're going to break for an hour lunch, and we'll | 24 | The study concluded "Cannabis is not, | |
| 24 | we re going to break for an hour funch, and we fi | 123 | | |
| 25 | be back at 1 p.m., and we have about I think 20 | 25 | as widely perceived, a harmless drug but poses | |