

DEPARTMENT OF HEALTH AND HUMAN SERVICES

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FOOD AND DRUG ADMINISTRATION

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COUNTERFEIT DRUG TASK FORCE PUBLIC WORKSHOP/VENDOR

DISPLAY

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THURSDAY,

FEBRUARY 9, 2006

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The workshop came was held at 9:00 a.m. in the Versailles Ballroom of the Holiday Inn Select Bethesda, 8120 Wisconsin Avenue, Bethesda, Maryland, Randall Lutter, Ph.D., and Margaret Glavin, Task Force Co-Chairs, presiding.

TASK FORCE MEMBERS PRESENT:

MARGARET GLAVIN, Co-Chair, Associate Commissioner for Regulatory Affairs

RANDALL LUTTER, Ph.D., Co-Chair, Associate Commissioner for Policy and Planning

DEBORAH AUTOR, Associate Director, Office of Compliance, CDER

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P R O C E E D I N G S

(9:07 a.m.)

1
2
3 DR. LUTTER: Good morning, ladies and
4 gentlemen. Please take your seats. Welcome to the
5 second day of FDA's conference of the Anti-Counterfeit
6 Drug Task Force.

7 I have the deep pleasure today of
8 introducing our keynote speaker, Assistant Secretary
9 for Health of the Department of Health and Human
10 Services, Dr. John Agwunobi. He was recently
11 appointed last month to his position and is known to
12 many of you for his former work as Secretary of Health
13 for the State of Florida.

14 Please join me in welcoming him to the
15 podium.

16 (Applause.)

17 DR. AGWUNOBI: Thank you, Randy, for
18 keeping that introduction short because I intend to
19 keep my remarks short and to the point. I recognize
20 as I look across this room that this is about
21 business. There's a lot of you here to do work, and
22 so I'm going to try and get you to that point in

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1 today's agenda as quickly as I possibly can.

2 I served, prior to serving in this
3 position, in Florida at the state level. As the
4 Secretary for the Department of Health, I was given a
5 unique opportunity, an opportunity to combat what we
6 thought at the time was an escalation in the
7 prevalence of drug counterfeiting and drug diversion.

8 Our team had long recognized that we
9 needed to be able to trace and track the movement of
10 drugs, pharmaceuticals, across our state from
11 manufacturer to individual prescription. And we
12 recognize that we needed a partnership, a strong
13 partnership, with each individual organization,
14 industry participant, and individual across that
15 chain.

16 Combatting counterfeit drugs is a goal
17 that Florida shares with every other state and with
18 the FDA and, indeed, each and every one of you. I
19 just had the pleasure of walking through the room
20 across the hall where all of the technology displays
21 are laid out, and I get the sense that a lot of work
22 across this nation has already gone into this effort.

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1 Today I wear a new hat as the Assistant
2 Secretary for Health in the Department. I'm the chief
3 public health advisor to the Secretary. I get to sit
4 in on many meetings and participate in a lot of policy
5 discussions.

6 I should probably caveat that the FDA
7 isn't under my purview. I'm just an interested
8 bystander, watching on, learning as many of you are,
9 and offering comment where the opportunity arises.

10 When I was the Secretary of the Department
11 of Health in Florida, I was charged with trying to
12 make change happen. It wasn't enough for us to state
13 what needed to occur. Many had done that before my
14 arrival. It wasn't enough for us to simply have a
15 policy or a rule or even a law.

16 Our job was to try and make it actually
17 happen. My approach then, and I recognize from seeing
18 you in the room that the FDA's approach today was to
19 bring everyone together. It's tough to make good
20 policy translate into real action if you don't involve
21 all the participants, all the players, all the
22 stakeholders, and all the constituents.

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1 I hope here's that most important
2 constituent represented in the room today, the
3 consumer, the patient. I hope they're here listening
4 and participating in the discussion. But I also
5 recognize that there are many other important
6 participants in this discussion, from manufacturer all
7 the way through to that final retail dispenser.

8 The Florida law that passed took a fair
9 amount of energy to get it passed and, quite frankly,
10 took a little bit of energy to defend it between that
11 date back then and today. We worked for a year with
12 industry, both the technology, the wholesalers, the
13 distributors, secondary wholesalers, and of course,
14 manufacturers. We worked for almost a complete year
15 sitting in rooms, my personal input, as we deliberated
16 on what should go into that law. What should it look
17 like? How would it best serve the entire continuum,
18 the entire spectrum?

19 Consumers were in that room as well, and I
20 think we came up with language that the very fact that
21 it continues, that it's in place today, that July 1st
22 of this year is their implementation date, I think

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1 that's all a testament to the fact that we found a
2 consensus position. We focused on safety, eliminating
3 counterfeit drugs, eliminating drug diversion, and
4 gathered all of the players around.

5 I think the fact that it's about to go
6 into effect on July 1 is a testament to the fact that
7 this kind of process is the right way to get it done.

8 You know, we often talk about the role of government
9 as it relates to regulation, as it relates to pushing
10 quality, as it relates to assuring safety, and I
11 believe one of the premier tasks of government should
12 be to convene, convene stakeholders, listen. Listen
13 to what stakeholders have to say.

14 It's important, I believe, that we
15 recognize that many states are moving in this
16 direction. Many states are following this model,
17 bringing together participants and seeking their
18 input.

19 As the FDA and all of you now look to the
20 widespread use of track and trace technology by 2007,
21 I applaud that. I think we should also recognize that
22 there are other halls filled with some of you and some

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1 of your counterparts in other states, and they're
2 watching what's happening here today. They're
3 watching because they, too, want to take that next big
4 step doing what's right, assuring that we drive
5 counterfeit drugs -- which isn't just about safety,
6 it=s bad business -- and the drug diversion -- which
7 isn't just about safety, it's also bad business -- out
8 of the distribution system, out of the continuum that
9 goes from wholesaler to consumer.

10 From my perspective, I think it's
11 important that we state the obvious. This is about
12 safety, primarily. My family and your family, I
13 imagine, do the same thing. We walk into a pharmacy
14 with their prescription. The prescription is filled
15 and they take their medicine home, and they give it to
16 their children. I have three kids, and one of them is
17 on antibiotics as we speak.

18 At no point in that exchange, at no point
19 in that process, do I ever question the safety of
20 those drugs. But those of you in this room and
21 myself, we know, I think, something that most
22 consumers don't, which is that there are counterfeit

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1 drugs out there. FDA has uncovered it more than once,
2 as have state regulators.

3 There are people who would cut into
4 legitimate businesses= profits and cut into the safety
5 of my children's lives and yours by trying to
6 distribute fake drugs and trying to redistribute drugs
7 that shouldn't be redistributed. And we collectively,
8 I believe, collectively owe it to those that we serve,
9 whether it be through our businesses or through our
10 officers, we owe it to my children and yours to do
11 something about it.

12 Each day that we delay action is a day
13 that another child, or thousands or millions in this
14 country, your children and mine, that walk into that
15 pharmacy and receive a drug that potentially could be
16 counterfeit.

17 We have to act now. I'm encouraged by
18 what I hear from the technology community. I'm
19 encouraged by the fact that I see manufacturers and
20 wholesalers, albeit a little slower than we had hoped,
21 moving up and assuming their responsible position in
22 this effort.

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1 We all know the value of a secure Pedigree
2 for all drugs. We all know it's the right thing to
3 do. We recognize that it's a tough step, and I would
4 urge all of you to redouble your efforts and join us
5 as we try to move towards what I think is an
6 absolutely necessary goal: the expanded track and
7 trace of all of our drugs in the system.

8 It's good business, by the way. I was
9 just telling my colleagues that it's entirely possible
10 that one day we'll all wake up and we'll open the
11 newspaper and splashed across the headline of that
12 newspaper there will be a tragic event, the death of
13 our friend or our family or our community member
14 because they ingested something that they thought was
15 a legitimate pharmaceutical, something that they got
16 from a legitimate source, and they eventually found
17 out through that tragic outcome that it was
18 counterfeit and dangerous and toxic.

19 I think on that day, as CNN is running the
20 story on its TV and you're reading it in your
21 newspaper, there will be some companies that have the
22 ability to stand and say, "Not in our system. Our

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1 system is protected. Not in our chain, not in our
2 manufacturer, not in our distributors, not in our
3 pharmacies. We're protected. We took a step early
4 on. We invested as early as we could."

5 And I think that brand will stand out in
6 front of all the others. I think there will be an
7 accounting on that day. I would urge you to join us
8 and to offer us advice as to how we can help. How
9 could we facilitate moving towards this goal? How can
10 we expedite the expansion of track and trace
11 technology to the extent that we desire and to the
12 extent that I know you desire?

13 Thank you. I'm going to stop right there.

14 (Applause.)

15 MS. GLAVIN: Well, what a great way to
16 start our second day. That was really an inspiring
17 kickoff to this second day, and my job is to, as we're
18 starting the second day, just do a brief summation of
19 what happened yesterday, to bring us all back to the
20 same page. So I'm going to do that very briefly.

21 We started with Dr. von Eschenbach
22 challenging us, challenging us to move forward and

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1 asking those of us who were in FDA for a report back
2 in May on the pace of progress in this area and for
3 our advice on the stay of the PDMA.

4 We then went on to a variety of
5 presentations with terrific panel members who really
6 stood up and shared their knowledge and experiences.
7 We started with a keynote panel on building a more
8 secure supply chain, answering the question of what it
9 will take to effectively implement track and trace
10 technology into the pharmacy supply, the
11 pharmacological supply, by 2007, and learned from that
12 panel discussion.

13 Well, first of all we learned that two
14 wholesale distributors are now accredited, the first
15 two accreditations, which demonstrates that
16 accreditation programs can work, and so that was a
17 great way to start off the panel.

18 We also learned that industry wants
19 regulatory clarity with a focus initially on the end
20 user dispensing point. And we heard about some
21 efforts, DOD and some industry efforts with pilots, to
22 begin to move this technology forward. In the DOD it

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1 was not in the drug supply chain, but we did hear that
2 they are moving in the direction of including the
3 technology in the drug supply in the coming years.

4 We also heard from a panel on what is
5 needed for widespread RFID implementation, what are
6 the obstacles, what are the incentives that are
7 needed.

8 And from that panel we heard that changes
9 in the nature and complexity of the supply chain
10 demand a state of the art technology and state of the
11 art systems to protect that chain. But there are
12 differences of opinion on the speed and scope of
13 implementing such a system: what should the system
14 include and how fast can we get there?

15 There are also differences of opinion on
16 incremental phase-in. Should we do an incremental
17 phase-in? If so, what should come first? How should
18 it proceed? And is that a better way to go than
19 waiting for a more comprehensive, encompassing
20 approach? Should FDA set a more structured timetable?

21 The next panel talked about standards and
22 data access issues where we learned that there is a

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1 lot of agreement that the technology for RFID exists,
2 but that successful implementation depends on the
3 existence and use of effective management systems and
4 very clearly defined roles. Who in the chain and
5 where in the chain do various responsibilities lie?

6 We also learned from our last panel on
7 privacy issues that issues of privacy are inherent in
8 the use of this technology and a real agreement from
9 the panel in response to questions from our committee
10 that the public understanding and support of this
11 technology is critical to its successful use in the
12 pharmacy area, and that we need to build into the
13 system as we design it and put it into place, we need
14 to put those privacy concerns into that system from
15 the very beginning, that it can't be an add-on at the
16 end or we are risking facing public dislike of and
17 opposition to this kind of a system.

18 So that was a lot of ground to cover in
19 one day. I don't know about the rest of you, but I
20 was whipped at the end of the day. I felt my head was
21 spinning and that I had heard an awful lot of good
22 information. It took me a while to sort it out, but

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1 it was a good day. I think we have an equally good
2 day planned this morning, starting this morning, and
3 going through the afternoon.

4 I am delighted to see that we still have a
5 full house. I know in the second days of meetings,
6 the attendance tends to drop off, but it doesn't look
7 like that happened very much here, and this morning I
8 don't see any front row empty seats. So if you don't
9 have a seat, I'm afraid that unless you come up over
10 here by the wall, I don't have any to offer you.

11 Prior to our first panel, we thought it
12 would be important to remind everyone of the issues
13 related to PDMA. It's something we all work with and
14 we've all been thinking about, but we thought it would
15 be very helpful, and so we've asked Bill McConagha,
16 our Associate General Counsel at FDA, to give us a
17 brief overview of the relevant provisions of this Act
18 and the history surrounding those provisions as a
19 jumping off point for our later discussions on PDMA
20 and how it needs to be implemented.

21 So, Bill.

22 MR. McCONAGHA: Good morning. It appears

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1 I have the unenviable and, frankly, unfair task of
2 following Dr. Agwunobi's very passionate remarks with
3 an overview of a fairly wordy federal statute, and my
4 sense is this is about as close as we're going to get
5 today to an emotional roller coaster, but I ask you to
6 bear with me.

7 (Laughter.)

8 MR. McCONAGHA: I'd like to begin, again,
9 by thanking all of you for being here on behalf of the
10 Task Force. We very much appreciate that you're all
11 here after a long day yesterday, and certainly we are
12 very appreciative of your interest in this very
13 important subject matter.

14 During our discussion yesterday, there was
15 quite a bit of reference to many terms of art related
16 to PDMA. We heard terms like Pedigree and e-Pedigree
17 and licensing and ADR kicked around, and for many of
18 you, I would imagine most of you, those terms of art
19 are very familiar. But as Maggie said, we also
20 recognize that they may be a source of confusion for
21 some, and so the hope this morning was that we take a
22 moment to give you a brief overview of the relevant

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1 provisions of the PDMA to help frame the issues for
2 the discussion that will follow with the panels this
3 morning and this afternoon.

4 PDMA is an acronym that stands for the
5 Prescription Drug Marketing Act, which is a series of
6 amendments to the Federal Food, Drug and Cosmetic Act
7 that Congress passed into law in 1987 and President
8 Reagan signed into law in 1988. The PDMA is a multi-
9 faceted statute. It amended roughly half a dozen
10 sections of the Federal Food Drug and Cosmetic Act,
11 but collectively, the intent of Congress in passing
12 these provisions was to insure that prescription drugs
13 sold in the United States are safe and effective.

14 And to that end, Congress wanted to
15 increase the safeguards to prevent the introduction
16 and retail sale of substandard, ineffective or
17 counterfeit drugs.

18 Now, as I say, the PDMA is a multi-faceted
19 statute, and it certainly created a number of
20 requirements with respect to the marketing and
21 distribution of prescription drugs.

22 But for our purposes today, I'm going to

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1 focus on just two of those provisions. The first is a
2 federal requirement that any person who engages in the
3 wholesale distribution of prescription drugs in
4 interstate commerce needs to be licensed by a state in
5 order to do so. This is shockingly enough called the
6 state licensure requirement, and it's significant for
7 two reasons. First, because it is a means of state
8 and federal oversight of the wholesale distribution
9 industry, and to that extent it is a quality check on
10 the nature of the company's entities involved in
11 distributing prescription drugs in the United States,
12 but also because as we'll hear later today in some of
13 the panels, many states, particularly Florida,
14 Indiana, California, have been very active in
15 strengthening these laws and in so doing changing the
16 landscape for the wholesale distributors who operate
17 within their state borders.

18 The second provision I want to talk about
19 is a provision that requires certain wholesalers in
20 certain instances to pass a statement of origin, also
21 known as a Pedigree, that documents everywhere that a
22 prescription drug has been during its movement through

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1 the distribution chain.

2 I have on the screen here the language
3 from the statute that lays out this provision, and
4 what it says in a nutshell is that each person who is
5 engaged in the wholesale distribution of prescription
6 drugs and who is not the manufacturer or authorized
7 distributor of record shall, prior to each wholesale
8 distribution of that drug, pass along this Pedigree
9 identifying each prior sale, purchase or trade of the
10 prescription drug.

11 The flip side of that is that a wholesale
12 distributor who is an authorized distributor of record
13 need not pass a Pedigree, and so let me be clear.
14 There is this duality for better or worse in the
15 federal law. The only wholesalers that have to pass
16 the Pedigree under this requirement are those who are
17 not authorized distributors of record.

18 And as a shorthand, you will hear people
19 refer to wholesalers who are authorized distributors
20 of record as primary wholesalers. Those who are not
21 authorized distributors of record are commonly called
22 secondary wholesalers. And this concept of authorized

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1 distributor of record is often referred to with the
2 acronym ADR, and we heard that several times
3 yesterday.

4 Obviously, an important issue for
5 wholesalers is whether or not they are authorized
6 distributors of record because, in effect, whether you
7 are an ADR determines whether or not you are
8 responsible for passing a Pedigree in any instance
9 when distributing prescription drugs.

10 The Food, Drug, and Cosmetic Act defines
11 an authorized distributor as a distributor with whom a
12 manufacturer has established an ongoing
13 relationship.

14 Now, in 1999, FDA promulgated a final rule
15 in which it attempted to implement a number of these
16 provisions in the PDMA, particularly related to the
17 Pedigree requirement. And right away we discovered
18 that among several, there were two particularly
19 controversial provisions in this final rule.

20 The first is 21 CFR 203.3(u), which
21 further defined ongoing relationship for purposes of
22 this ADR definition to include a written agreement

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1 between the manufacturer and the wholesaler. And the
2 sum of that is it meant that merely having a history
3 of sales or commercial transactions between a
4 manufacturer and a wholesaler was not enough to confer
5 status as an authorized distributor.

6 Under this rulemaking, under 203.3(u),
7 there would need to be a written agreement in which
8 the manufacturer designated the wholesale distributor
9 as an authorized distributor for purposes of the
10 Pedigree requirement.

11 The second provision in this rulemaking
12 that I want to talk about is 203.50. It specified the
13 fields of information to be included in a Pedigree,
14 but more importantly, clarified that the information
15 in the Pedigree documenting each prior sale had to be
16 traceable back to the very first sale by the
17 manufacturer.

18 Almost immediately after this rule was
19 published, the FDA was inundated with concerns, which
20 is a euphemism for complaints, filed by many of you, I
21 think, related to the implications of the provisions I
22 just cited. In particular, we heard concerns that

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1 tightening the ADR definition with respect to 203.3(u)
2 would drive wholesalers and secondary wholesalers out
3 of business, drive up the cost of drugs, and adversely
4 affect the public health.

5 We heard from members of Congress as well
6 on this issue, and in light of the groundswell of
7 concern on this, the agency elected to stay the
8 effective date of certain provisions in the rule while
9 it continued to consider the matter.

10 Then in October 2000, we held a public
11 hearing in which we invited stakeholders, members of
12 industry, and consumer groups to come in and talk
13 about the significance of the rulemaking, its
14 potential impact on the public health, and on the
15 industry that distributes prescription drugs
16 throughout the United States.

17 Based on all that we heard and all of the
18 materials that we received in the docket that we
19 opened as part of that public hearing, FDA issued a
20 report to Congress in 2001. We advised Congress of
21 the dilemma, explained the situation, invited them to
22 consider taking legislative action, and indicated that

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1 while -- well, to give them time in order to make that
2 decision, and to give us more time to evaluate the
3 situation, we would extend the stay of certain
4 provisions of that rulemaking until April 2004.

5 Now, let me be clear. Staying the
6 effective date of 21 CFR 203.3(u) and 203.50 simply
7 preserved the status quo as it existed before the
8 final publication of the rule in 1999. The stays
9 relate solely to the provisions in that final rule.
10 They do not change the fact that there is still a
11 Pedigree requirement in the Food, Drug and Cosmetic
12 Act. The Pedigree requirement in the Act is still in
13 effect, and wholesale distributors who are not
14 authorized distributors of record are required by law
15 to pass a Pedigree when they distribute prescription
16 drugs.

17 We talked a little bit yesterday about the
18 fact that in 2004, FDA issued its counterfeit report
19 from the Task Force, its final report from the
20 Counterfeit Task Force, and I won't go into great
21 detail about that because I know most of you are
22 familiar with it, and we certainly talked about it

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1 some yesterday.

2 But obviously, a key feature of that
3 report was the degree to which we cited the
4 potentiality of electronic track and trace technology
5 to potentially replace or obviate paper Pedigree. And
6 so when we issued the final task force report and
7 encouraged industry and ourselves to pursue the
8 potentiality of electronic track and trace technology,
9 we again delayed the effective date of 203.3(u) and
10 203.50 until December 2006.

11 And that bring us to today. Right now the
12 agency is trying to decide whether to let the stay
13 expire in December 2006 such that the rule and the
14 provisions I spoke about a moment ago go into effect,
15 whether to revise that rule, or whether to extend the
16 stay, and if so, why.

17 That will be the subject of much of this
18 discussion this morning and this afternoon, and one of
19 the reasons that these are particularly provocative
20 and timely questions is that so much has changed in
21 the landscape related to the wholesale distribution of
22 prescription drugs since 1999 when that final rule was

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1 promulgated.

2 As I mentioned, the Counterfeit Task Force
3 report talked about the potentiality of electronic
4 technology as a replacement or an answer to the
5 Pedigree problem. We talked about e-Pedigree, RFID,
6 and even linear bar codes as a potential solution. And
7 as we'll hear about from another panel later today,
8 there has been quite a bit of activity on the state
9 front, particularly California, Indiana, and Florida,
10 in which the states have passed Pedigree laws that
11 actually exceed the federal standards. And what we'll
12 hear about is how industry has responded, how that has
13 changed the expectations for both industry and
14 government, and the challenges that that's posing for
15 all stakeholders.

16 So with that, I thank you. I hope that
17 this has given you some insight at least into the
18 terminology that we'll be hearing about and help frame
19 the issues. And with that, I look forward very much to
20 the discussions of this morning and this afternoon.

21 Thank you.

22 (Applause.)

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1 DR. LUTTER: Thank you very much for that
2 informative presentation, which did not constitute the
3 lowest point on the roller coaster.

4 (Laughter.)

5 DR. LUTTER: Our next panel is on Pedigree
6 Pilots and PDMA Compliance. Would the speakers for
7 that panel please come forward?

8 This panel consists of four presentations.
9 We're aware of a number of pilot Pedigree projects by
10 supply chain partners, and this panel will discuss the
11 experience and lessons learned to date from these
12 pilots.

13 The participants are Paul Chang of IBM,
14 and then I'll introduce the others as we go through
15 them.

16 So, Paul, you have ten minutes.

17 MR. CHANG: Okay. Thanks.

18 Good morning. One of the advantages of
19 speaking on the second day is you know what worked and
20 what didn't work on the first day. So last night I
21 was frantically increasing the size of my fonts so
22 that everyone could see back there. So I did my best

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1 to squeeze all of the big words in there.

2 (Laughter.)

3 MR. CHANG: So I just have five key
4 messages, and what I hope to share is not my opinion,
5 not someone else's opinion, not IBM's view. It's
6 actually some actual results from the pilot activities
7 that we engaged in. And I think at this point, you
8 know, we've heard a lot of viewpoints, opinions, but I
9 think what FDA is looking for is just some numbers.
10 So I'm hoping to provide some numbers that they can
11 utilize to make some decisions.

12 So the first key message is that RFID
13 technology is mature. It's reliable, and it's ready
14 for a broader roll-out. Now, I want to couch that. I
15 don't want to say it's ready for everyone to roll it
16 out all at once, but I do think it's mature enough
17 that most companies can begin to do pilot activities.

18 Implementation can be done in phases with
19 minimal impact to your production. So keeping the
20 production line going in the pharmaceutical
21 environment is very important. So how can you install
22 RFID equipment without impacting your current

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1 business?

2 Elements of the system should be standards
3 based, nothing proprietary. This is much too big of a
4 problem, much too big of a market, for any one company
5 to try to corner.

6 Pilot infrastructure should support
7 additional capabilities beyond Pedigree. So while
8 we're talking about Pedigree primarily here, I
9 highlighted this term here, you can have a valid
10 Pedigree of a counterfeit drug. So Pedigree isn't the
11 single solution. What you have to have is product
12 authentication that goes with the Pedigree. I'll
13 explain that a little later.

14 And then data. A fifth point is data
15 could be managed and easily shared with trading
16 partners, and I think there are a couple of
17 alternatives, and I hope to share those two
18 alternatives with you.

19 So, the pilot scope. The client is a
20 large, global pharmaceutical manufacturer, and in
21 fact, the client is GlaxoSmithKline. Rob and Bruce
22 are sitting there.

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1 What we did was we tagged one NDC, one
2 product, one production line, one packaging plant, and
3 one DC, a very limited scope pilot, but this is the
4 kind of pilot where if you had to roll it out to
5 broader sites, you know exactly what it takes to do.
6 You know exactly how to replicate this pilot onto
7 multiple lines and multiple sites.

8 The technology we use, again, I don't
9 sell, or IBM, we don't sell tags or readers so we have
10 no preference here. We just use what we thought was
11 the best technology available when we made these
12 decisions, just like, you know, Tom said from Pfizer.

13 So for item and case level tagging, we used
14 precommissioned RFID tags because it was just easier
15 to unload the burden to the label converters, to apply
16 the tags, write the numbers for us, test it, and then
17 ship it to us.

18 We used non-NDC serialized scheme because
19 of the privacy concern. We hope that this could be
20 all sorted out in subsequent pilot activities with
21 trading partners to know whether NDC is actually
22 valuable or necessary to do processes at the

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1 wholesalers and the retailers, but again, until you do
2 a pilot activity, you don't quite know, right? It's
3 just people think they need it, but have they really
4 looked at it? Have they played with it?

5 So what we're encouraging is, let's do an
6 industry pilot and start to figure out do you really
7 need this, and perhaps prove some reasons why you need
8 the NDC. Because obviously the privacy concern is a
9 big concern, and we just don't want any person with a
10 handheld reader reading what you have in your bag.

11 Frequencies. Item level, we used HF,
12 which is technology that has been around for I think
13 over ten years. It's globally accepted, and at case
14 level we used UHF, and in this case we used the
15 EPCglobal Gen. 1.

16 From a hardware perspective, we used a
17 combination of fixed antennas and handheld readers, HF
18 and UHF at the packaging line, UHF at the pallet
19 association, UHF at the reading of the DC receiving.
20 So when you're receiving, you just scan the UHF tag,
21 and that tag will tell you what items you have inside.

22 HF and UHF DC shipping because when you're

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1 doing unit shipping you need to know which EPC numbers
2 are in the tote that you're shipping out, and we had
3 HF and UHF readers at the rework stations.

4 What have we learned? Tag quality: better
5 than 99 percent yield when we were receiving these
6 integrated tags from the converters. Read reliability:
7 better than 99 percent read reliability on randomly
8 packed, randomly oriented bottles inside using HF
9 tunnel reader.

10 Now, I will qualify this by saying the
11 product was a solid or a dose on a bottle. There was
12 no metal and there was no liquid. But, again, our
13 goal wasn't to make our life difficult. This wasn't a
14 technology challenge. We wanted to see what it takes
15 to implement a full solution.

16 Read reliability. Ninety-nine percent
17 read reliability on simulated cases on the UHF tags.

18 Chip UID. So we had a couple of comments
19 about this. I just threw this in last night. So chip
20 UID, why is RFID more secure than bar code? Because
21 it's easy to print bar codes. So counterfeiters have
22 the same equipment that you all have. They can scan

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1 and print 2D bar codes and apply to a counterfeit
2 drug. Very simple.

3 With RFID, with a chip UID, even if the
4 EPC number says 1234 and a counterfeiter can buy some
5 tags that look just like your tags and they can write
6 1234. What they cannot do, at least for now, is they
7 can't replicate the chip UID, which is unique in
8 itself in the world. So the original tag will have a
9 chip UID that says ABCD. The counterfeiter will
10 purchase a tag that probably says EFGH. Then you're
11 going to know that this is not the authentic tag used
12 by the manufacturer.

13 So in general, my comments about the bar
14 code versus RFID, bar code is cheap to print but
15 expensive to read all the way down the supply chain.
16 RFID is expensive to write, but it's cheap to read
17 down the supply chain.

18 Phased implementation approach. So those
19 chevrons are a little small, so I'm not going to go
20 into detail. What we did was we took it in phases.
21 Phase one was packaging plant with manufacturing,
22 execution system integration. Phase two was DC

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1 receiving. Phase three was DC shipping with WMS
2 integration.

3 Standard phase components. What you see
4 here is EPCIS as EPCglobal=s EPCIS standards body has
5 defined to date. So what we have is we have the
6 readers at the bottom pushing data up to I'll call
7 RFID middleware; we call it premises server. That
8 pushes additional filter data up to the EPCIS
9 repository which manages the data, and EPCIS
10 repository also interacts with, you know, operator
11 console and generates a report. Discovery service
12 sends data to e-Pedigree applications, and it
13 integrates with MES and WMS systems.

14 Pilot use cases or capabilities as some
15 like to call it, e-Pedigree product authentication,
16 targeted recall, diversion tracking, charge-back,
17 shipment verification, product movement capture,
18 inventory visibility, expiration management, and labor
19 savings.

20 Now, why did I highlight numbers six
21 through ten? It=s because those are the only items or
22 the only benefits that the retail industry -- Wal-

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1 Mart, the CPG companies -- they are only getting
2 benefit from six to ten. Yet they chose to move
3 forward with broad RFID implementation because they
4 see the value. They don't have the same problems that
5 this industry has. No one is counterfeiting paper
6 towels. They don't have that issue.

7 (Laughter.)

8 MR. CHANG: You don't need a Pedigree for
9 that.

10 Product authentication, targeted recall,
11 diversion tracking, charge-back resolution, those
12 problems just do not exist in the retail environment,
13 yet the retailers saw value and decided to move
14 forward.

15 So my point is, for pharmaceutical
16 industry, not only can you capture all of the value
17 that the retailers can capture, you can actually
18 capture additional value, numbers one through five.

19 Distributed architecture. So this might
20 be a little bit of a new concept here, so bear with
21 me. So how we see distributed architecture is we
22 think there's no database in this world that's going

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1 to be large enough to manage all of the data. So what
2 we've done is we've architected the databases so that
3 people can manage their own data and share that data
4 with your trading partners as necessary.

5 So what we have here is, for example, e-
6 Pedigree. e-Pedigree can be passed to downstream
7 trading partners, which is a PUSH model, and when I
8 think Florida and the PDMA laws went into effect,
9 which was late '80s, well, when you were thinking
10 about paper, well, there's no other way but to really
11 hand the paper off to your next trading partner.

12 But we think there's an alternative, and
13 the alternative is Pedigree can be also downloaded on
14 demand to the local EPCIS or the trading partner. So
15 this is the PULL model.

16 So when you go to a website, that's
17 completely a PULL model. No one dumps you all of the
18 contents of their website onto your browser. You just
19 go to that website and you download what you want. And
20 so this model says with this electronic data capture,
21 you can actually pull and download all of the data
22 elements of a Pedigree.

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1 I have an asterisk under distributed
2 architecture because I wanted to talk a bit about the
3 discovery service. A discovery service is basically a
4 thin central database where authorities can go and
5 look to see what transactions have occurred.

6 So I'm being pulled off, so I'm going to
7 just run through this.

8 Challenges. There are still challenges
9 with data sharing, adoption schedule, validation,
10 technology enhancements, and different form factors.
11 So I'll briefly mention that.

12 But at the end, I still think this is a
13 win-win-win proposition. I think the industry can win
14 because of all the benefits. Regulatory agencies can
15 win because I think they provide a safe and secure
16 supply chain. And at the end of the day, it's you and
17 I and our kids and your parents who win because we can
18 be sure that we're taking drugs that are authentic and
19 that are produced by the companies that we trust.

20 Thank you.

21 (Applause.)

22 DR. LUTTER: Our next presentation is by

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1 Andrew Dubner of 3M.

2 You have ten minutes.

3 MR. DUBNER: Well, good morning. This
4 morning, I plan to share with you some of our thoughts
5 and experiences related to securing the pharmaceutical
6 supply chain.

7 I want to start with this, and I
8 understand there was some discussion yesterday related
9 to this. Our opinion is that tracking can be a
10 security solution as long as there is 100 percent
11 compliance. But if there are gaps in compliance, then
12 the validity of the chain of custody becomes suspect.

13 So what do you do to get on the path to
14 this e-Pedigree that may require 100 percent
15 compliance? Well, for over 30 years, 3M has provided
16 tracking and security solutions to our customers.
17 Routinely we face the question: so how do I know that
18 people are going to do this? How do I know that if I
19 implement this system, people are going to do what
20 they are required to do to make sure that the product
21 is secure or that it's being tracked or what have you?

22 Obviously, there needs to be some

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1 incentive for people to comply, and typically that
2 incentive winds up being something that's in addition
3 to security or tracking. It may be security and
4 productivity or tracking and efficiency, those kinds
5 of things.

6 So I think in order for the industry to
7 comply with PDMA, the industry needs to experiment,
8 and the industry needs to find those "ands," those
9 things that are in addition to the security and
10 tracking.

11 So in thinking about the pharmaceutical
12 supply chain, ideally one could go right to the
13 contents, right to the pharmaceutical itself, and
14 authenticate that that molecule or that compound is
15 what you expect it to be. But in today's supply chain
16 and with today's technology, that's really not
17 practical and not possible for all of the drugs that
18 are out there, the range of products that are out
19 there.

20 So the best one can do is to elevate
21 confidence in elements that surround that product. So
22 asking yourself the question, is the packaging

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1 authentic? Is the packaging intact? Has it been
2 tampered with? And do I trust the people who have
3 handled this product before me; do I have a supply
4 chain history that I trust?

5 If you can elevate confidence in those
6 three areas, then your confidence that the contents
7 are genuine, which is what we're after here, after
8 all, are increased.

9 So how do you implement a solution? Well,
10 we interpret the problem as one of patient safety.
11 Our hypothesis is, if you have item level
12 authentication that bridges the ends of the supply
13 chain, you'll have an immediate impact on addressing
14 the problem. We focus on how do we elevate that
15 confidence that the product is genuine and we focused
16 on delivering some compelling business results, that
17 incentive that I talked about earlier.

18 Now, I imagine there are lots of ways to
19 solve this problem, and I'm just going to talk to you
20 about one, one that we're implementing today.
21 Authenticated RFID is a platform to authenticate and
22 to identify in order to secure and to track. It

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1 allows you to start with a basic capability, which
2 I'll describe in a moment, and then to turn on or
3 activate additional features as infrastructure
4 expands.

5 The basic capability is authentication.
6 You do not require a connection to the network in real
7 time. You can authenticate using a unique encrypted
8 digital signature that's on the RFID tag. It uses
9 that unique number that Paul talked about a moment
10 ago, and it also provides a mechanism for
11 authenticating at the dispensing sites.

12 That mechanism can be manufacturer-
13 specific, meaning that each manufacturer can have
14 their unique digital signature, but on the flip side,
15 it provides an automatic way for the dispenser to
16 authenticate all manufacturers' products without
17 having to have 20 different devices to authenticate.

18 That basic capability grows to e-Pedigree
19 as the infrastructure, the network infrastructure,
20 expands. The unique identifier required for e-
21 Pedigree is already there. It's part of the RFID tag.

22 So as more readers are deployed, you can create a

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1 Pedigree just like you would with an EPC license plate
2 kind of tag.

3 Now, the intelligent tag in this model
4 provides additional capability. It allows you to
5 write event markers to the tag and to ultimately
6 create a more secure Pedigree. So the platform has
7 stages, has phases. Authentication is the basic
8 capability. We're looking at authentication between
9 the relevant points in the supply chain, the
10 manufacturer and the dispenser.

11 It enables e-Pedigree consistent with all
12 of the standards that are being adopted today, and it
13 provides flexibility, flexibility to find those
14 business reasons to comply, those incentives to want
15 to do what you're asked to do. It's a platform also
16 for additional security features, whether they're
17 electronic security features or physical security
18 features, to create a layered approach, a multi-
19 layered security approach, and it allows people to
20 realize that little triangle in the bottom corner,
21 that triple A rating: I'm confident that the packaging
22 is authentic, that the packaging is intact, and that I

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1 trust everyone who has had the product before me.

2 We are currently working with a major
3 manufacturer to implement this model, this security
4 solution, for one of their products that's on this
5 list of susceptible products. Our goal is to increase
6 confidence that the product that's being dispensed is
7 genuine.

8 We are tagging at the manufacturer and
9 establishing authenticity at that point and then
10 validating authenticity at dispensers. Both the
11 manufacturer and the dispenser have identified
12 business justification for implementation. They have
13 strong incentives to do this, and they found them by
14 experimenting.

15 The flexibility and the simplicity of the
16 platform approach enabled them to do that, and I think
17 it was an enabler for them to get started.

18 And those are my comments. Thank you very
19 much.

20 (Applause.)

21 DR. LUTTER: Thank you very much.

22 Our next presentation combines two

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1 speakers, I believe. Only one. Paul Fowler from
2 McKesson.

3 I have you down for ten minutes. Thank
4 you.

5 MR. FOWLER: I'd like to thank you for the
6 opportunity today and congratulate the FDA on 100
7 years of service to the nation.

8 McKesson just recently celebrated our
9 175th year of health care service to the nation, and
10 the subtle perspective on that, when we were founded,
11 Andrew Jackson was in the White House and Beethoven
12 was the pop list.

13 Health care is a balancing act, and I'm
14 going to talk a little bit about how technology is
15 going to help balance that act. Every health care
16 community, every government, has to balance quality,
17 access to that health care and cost. As cost goes up,
18 access goes down. Quality has to go up, access has to
19 go up, and cost has to go down.

20 As a health care technologist, this is the
21 formula that will make this technology proliferate
22 through the chain naturally. If we can make sure that

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1 quality of our health care goes up, broad access to
2 health care goes up and cost goes down, those are the
3 technical pieces that go through the chain naturally.

4 Our nation obviously requires a secure
5 medical supply chain, but we also require cost
6 effective health care and access for all of our
7 citizens. It goes without saying.

8 The quality of the medical supply chain
9 includes not only safe and secure products, but a safe
10 distribution chain. So as we're implementing these
11 rules, I would particularly ask the panel to look at
12 Florida and watch for distribution disruptions in the
13 chain that may be caused by this law.

14 Those are the kind of things that we
15 absolutely want to avoid as we move through this
16 technology change.

17 Process redesign and automation is
18 absolutely required for this. We do not believe that
19 paper is the solution. We do not believe that paper
20 can be actively managed in our environment. If you
21 look at McKesson alone, McKesson will end up doing --
22 if every individual item on our Rx chain is

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1 serialized, we will end up doing 35 million reads
2 every night. Every night. That's just for McKesson.

3 Improving quality and affordable cost
4 requires policy and technology redesign across
5 government and trading agencies. I greatly appreciate
6 the efforts of MIT and I greatly appreciate the
7 efforts of other academic organizations. I greatly
8 appreciate all of the vendors who are putting lots of
9 energy and time here. But we believe that this
10 problem will only be solved by the trading partners
11 working more closely together across the industry to
12 drive strong pilots that will discover facts and data
13 that we can help write good technology, good business
14 policies, and more importantly, good regulations.

15 We believe that focused pilots will help
16 us balance our investment. Companies like McKesson
17 spend an average of \$150 million a year in technology.

18 It's not that we are underspending in technology,
19 it's that we're hesitant to invest in technology if
20 there are no standards, if we can't guarantee that
21 we're going to have at least some return on that
22 investment over a long period of time.

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1 So that means, you know, we have to
2 understand where the balanced investment. This is
3 here, I think, Accenture was out in front of the
4 industry, recognizing that pulling industry partners
5 together and redesigning processes person to person is
6 probably the best way to approach this problem.

7 So they started in 2004 with the Jumpstart
8 I, brought many industry partners together to prove
9 the business value of RFID: where is the business
10 value, safe and secure supply chain, but also returns
11 management operational efficiencies. We have to pay
12 for this technology somewhere.

13 In Jumpstart II, Accenture and a broad set
14 of partners began to look at the serious issues
15 relative to this, many of which have been discussed
16 here at the forum here in the last two days, and model
17 costs for the industry and full adoption of RFID.

18 At McKesson, for instance, we anticipate,
19 depending on the cost of the technology at the time,
20 that we'll spend about \$40 million investing in RFID
21 technology to implement our network. Again, not a
22 massive number to a company our size, but a reasonable

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1 size investment that we want to make sure we're going
2 to get a return on and at least secure the safety of
3 the supply chain as we anticipate.

4 So for that, McKesson is sponsoring
5 another pilot this year, which is really an attempt to
6 go much broader than what Paul and other folks have
7 talked about. We're getting together with the GSKs of
8 the world and the Rite-Aids of the world and the Wal-
9 Marts of the world, and we're trying to bind together
10 partner pairs that are going to go across the chain.
11 It's very similar to what we're doing with Pfizer on
12 the Viagra pilot where we are taking in their product,
13 we are doing authentication currently as we stand
14 here, and we're making sure that some of our partner
15 pairs, some of our customers, are able to do the same
16 thing so that we can work out ahead of time where the
17 industry issues will be.

18 We'll be kicking this off. We're going to
19 have a large meeting in Chicago where over 40 members,
20 many of which are sitting in this room today, will be
21 discussing how we're going to go forward with this
22 effort. And again, I honestly believe that not only

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1 are just the companies the trading partners, but quite
2 honestly, physically, most of the people in this room
3 who I have seen over the last year and a half at
4 meetings just like this are going to be the ones who
5 solve this problem.

6 So how are we going to move forward? From
7 the standpoint we believe we need real world pilots to
8 answer a lot of the questions. As Paul said, we do
9 have a lot of facts and data on the table. The GSK
10 example, for instance, the 99 percent reads, what Paul
11 might have failed to say was that that was at a 60
12 percent line rate compared to their normal production.

13 If you do that same pilot at 100 percent, you're not
14 going to get 99 percent reads. So that's an important
15 fact that we need to keep in mind.

16 We have to be able to keep up with the
17 current speed of distribution. I don't believe that
18 we all have a full consciousness of how massive the
19 U.S. health care system is. Again, 35 million reads a
20 night is what McKesson would have to do at a single
21 item level.

22 We have to accelerate industry standards.

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1 I think it has been said here quite a bit. The
2 technology companies out there have to know what
3 they're designing. Companies like McKesson have to
4 understand what the standards are, and we cannot
5 tolerate any situation where we don't have
6 interoperable systems. So standards will create an
7 opportunity for all of our systems to go together.

8 I mean, obviously, if we're investing \$150
9 million a year, we have massive amounts of
10 infrastructure that are already established in our
11 company. Technology innovation and, again,
12 interoperability is absolute.

13 We believe that, and I think I've seen it
14 the last couple of days, we have to collaborate more
15 closely. The industry groups and trade groups that
16 are here, I think, have very different views. I think
17 you've heard very different views from some of them.
18 We have to get together. The constituency of those
19 groups has to get together to guide those groups to be
20 closer aligned to get this accomplished.

21 And finally, we need the support of the
22 FDA. We encourage and we appreciate the opportunity

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1 of these last two days. We think more of that
2 activity has to occur. We certainly have been
3 participating very heavily in the Florida environment,
4 and we do believe that it has to be nationwide. We
5 can't pound these issues out state by state.

6 Thank you.

7 (Applause.)

8 DR. LUTTER: Thank you very much.

9 Our next speaker is Peter Spellman from
10 SupplyScape.

11 And, Peter, are you sharing your time?

12 MR. SPELLMAN: I think I get ten, but I
13 probably won't use all of them.

14 Okay. I'm here to talk about a set of e-
15 Pedigree pilots that we've been involved in. There
16 were two of note that we're going to talk about. One
17 is the Drug Security Network, which was an initiative
18 founded in the wake of the February 2004 FDA press
19 conference. And Mike Celentano and Rob Kashmer will
20 talk about the Purdue and H.D. Smith RFID Pedigree
21 pilot.

22 So the Drug Security Network was actually

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1 a rather comprehensive look at how we can achieve
2 electronic Pedigree that would comply with existing
3 and evolving regulations in the context of RFID,
4 without RFID, across manufacturers, wholesalers,
5 pharmacies, through a set of other operational
6 processes, kitting, repacking, et cetera.

7 What we did is we looked at the entirety
8 of the Pedigree problem as deeply as we could with
9 these trading partners and came up with what we would
10 have a supply chain-wide consensus with all of us,
11 around issues around serialization, Pedigree, and then
12 conversations around data sharing and security in the
13 value stream tracks.

14 The interesting thing about having such a
15 broad group work at these problems at such a deep
16 level is you get a lot of very spirited discussions,
17 and you get a lot of very interesting and diverse
18 perspectives.

19 In terms of running the project, Cap
20 Gemini provided the facilities in Cambridge,
21 Massachusetts, as well as program management. The
22 trading partners were, in fact, two major

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1 manufacturers, and one of the primary larger three
2 wholesalers, also including repack and pharmacy
3 operations as part of their purview. And then there
4 were a large set of technology providers providing
5 technology as well as software and services.

6 So the deliverables were, first, what are
7 the Pedigree use cases. And then on those use cases,
8 what are the additional capabilities, either for
9 increased supply chain security, for other operations
10 like recalls, returns, repacks, diversion detection,
11 counterfeit detection? A wide swath of use cases.

12 Then there was the lab itself. This was
13 much more than a paper exercise. What we were doing
14 is we were going to deploy technology in the lab and
15 we were going to move Pedigrees from partner to
16 partner and understand that and really prove that out.

17 Another major deliverable that came to the forefront
18 was what will the serialization scheme be.

19 At this time in 2004, it was still very
20 much in question, and so we needed to get from the
21 manufacturers and other participants what kind of
22 serialization scheme could actually work.

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1 Obviously, the Pedigree format itself, the
2 existing Pedigree format that we're working through
3 EPCglobal, a lot of it is derived from this work, and
4 then extensive discussions on data sharing.

5 This is something you can't possibly read.

6 (Laughter.)

7 MR. SPELLMAN: But if you could, you would
8 see that this is one of several screens of its ilk
9 that basically document the use cases for Pedigree
10 from the perspectives of the different trading
11 partners. It just goes to show that sort of the depth
12 to which we examine this problem from the perspective
13 of each trading partner for all of the different
14 operations they have. So it's within picking,
15 shipping, receiving, all of it, and how those use
16 cases work and all the exceptions.

17 This is basically a layout of the lab.
18 There were four stations, four primary stations, the
19 two manufacturers basically initiating products and
20 Pedigrees, moving them through the distributor and
21 then out through the pharmacy. We also accounted for
22 third party returns processing.

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1 So what came out of this was effectively
2 each participant participated in coming up with the
3 process and technology participation in generating any
4 Pedigree process, so creating, tracking, sharing,
5 archiving, digital signature. The participants were,
6 as we said, manufacturers, wholesaler, repack,
7 pharmacy operations. And then what it also did is it
8 gave us a baseline for how we could do electronic
9 Pedigree, effectively, what do the records look like?

10 How do you integrate with public key infrastructure
11 so that you have self-authenticating Pedigrees?
12 Electronic authentication? And then the Pedigree
13 exchange itself.

14 And then how do you do this with
15 serialized and non-serialized items? Because in the
16 time frame of the existing laws and regulations, not
17 everything will be serialized. Not everything will
18 have RFID. And so it was more like how can we solve
19 this problem.

20 And so what we achieved as part of the
21 Drug Security Network is effectively integrating e-
22 Pedigree and operational processes, also identifying

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1 counterfeit, recalls, diversions, all sorts of things
2 as part of the Pedigree process.

3 And then we piloted real world technology.

4 So what we did is we came up with an approach for
5 serialized and non-serialized, an approach for RFID in
6 today's bar code, defined serialization scheme, a
7 Pedigree format that will expand and work with all of
8 the different states. That's also the baseline of the
9 existing standard. And then finally a common
10 electronic certification and authentication framework.

11 Mike.

12 DR. LUTTER: Thank you very much.

13 Our next speaker is Mike Celentano from
14 PurduePharma.

15 MR. CELENTANO: And Rob Kashmer, also.
16 We'll co-present.

17 Okay. I'll introduce myself. Again, Mike
18 Celentano from PurduePharma. I'm the Director of
19 Supply Chain and RFID Systems. I'll be up here co-
20 presenting with my colleague Robert Kashmer from H.D.
21 Smith. We'll talk a little bit about our joint pilot
22 together in the realm of electronic Pedigree.

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1 And first of all, I think on behalf of
2 both of us, we want to thank the FDA for allowing us
3 to come up and talk a little bit today about this
4 pilot.

5 Before I move on, I think a key point I
6 want to make right now is to highlight the fact that
7 this is a production pilot. And we talk about a number
8 of pilots, and I think we talk about them sometimes
9 with generalization. We've talked about them
10 yesterday in that format, but I kind of echo Paul
11 Fowler's recent comments in that production pilots are
12 where the rubber hits the road and where we need to be
13 going to really start to get some key learning moving
14 in our industry.

15 So we're happy to be here today talking
16 about -- can you guys hear me okay? Is that better?

17 PARTICIPANTS: Yes.

18 MR. CELENTANO: Thank you. Sorry.

19 -- talking to you in that capacity.

20 So as we move into this, just a little
21 background to kind of let you know how we got started
22 in embarking on this RFID-based e-Pedigree pilot.

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1 From Purdue's perspective, I'll give you a
2 quick briefing. We've been involved in the RFID
3 technology area now for about two years. We started
4 in January of 2004 on our RFID tagging initiative.
5 It's an item level initiative.

6 By November of 2004, we had actually
7 manufactured and produced our first batch of item
8 level tagged, RFID tagged, OxyContin. In the
9 following month of that same year, we actually shipped
10 our first batch of RFID tagged OxyContin.

11 I should note, to date, first of all,
12 that's kind of talking with 2004. The bulk of our
13 work in 2005 has really been leveraging that basis to
14 move into an electronic Pedigree proof of concept.

15 Just a couple of closing points there. I
16 noted it was interesting the other day that Ron Moser
17 from Wal-Mart cited the fact that they've now scanned
18 over 230,000 pallets. Ironically, we've now scanned,
19 tagged, and data collected over 230,000 individual
20 bottles.

21 And at this time I'll just quickly turn
22 this over to Rob to give a little brief background on

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1 H.D. Smith's background here.

2 MR. KASHMER: Thank you. H.D. Smith is
3 committed to the support of the PDMA through our RFID
4 and our e-Pedigree initiatives. Our focus is on
5 patient safety through the integrity and
6 authentication of the product.

7 We also focused on usable technology. We
8 wanted to make sure that we could build on the
9 technology, using a building block approach, and we
10 also focused on our integration of our systems.

11 As you can see in our time line, we
12 demonstrate that expanded capabilities. We started
13 our funding in November of 2003. We targeted the
14 bottle level tagging because we felt that was going to
15 be the challenge, not necessarily the case or the
16 pallet level. We also wanted to continue through to
17 retail pharmacy, and we did that in August of 2004.

18 This was the pilot background. We've also
19 continued through integration of our CSOS application,
20 and our first order was an RFID order.

21 We also support multiple frequencies
22 today, and again, that=s same bottles or different

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1 frequencies in the same tote, as well as obviously our
2 integration into our e-Pedigree.

3 MR. CELENTANO: Okay. So that's a little
4 bit of pilot background. So obviously the framework
5 for starting into a foray on electronic Pedigree, what
6 I want to make sure is clear here, we talked about how
7 we've tagged and shipped product. We also started
8 from day one collecting the tag data from every bottle
9 we've shipped. So we started to build a localized
10 database with some key contextual beyond the EPC code
11 itself, that being the lot number of the product and
12 the delivery number of the product.

13 We felt it was important at that time to
14 at least have some context around that RFID data, and
15 that has started to build the basis for us to move to
16 electronic Pedigree, which at the time we really
17 weren't thinking a lot about.

18 So just a quick graphic here. I won't
19 spend a lot of time on it, but basically two things
20 happen in our operation at Purdue. We apply the RFID
21 inlay to the label. The label is applied to the
22 bottle in a pretty conventional fashion on an RFID

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1 enabled packing line, and we end up with an RFID
2 labeled individual bottle.

3 Those bottles are then packed further down
4 the line into cases of 48. That entire 48 count
5 package is then moved through an RFID tunnel where all
6 48 tags are read, typically in the range of three to
7 four seconds, and that information is data collected
8 for the first time.

9 There are two subsequent data collection
10 points internally in our operation, one at the time we
11 check the product into the vault. This is C-II
12 product, our controlled substances. So when we check
13 it into the vault, we read and time stamp it again.
14 And then upon delivery, we also read and time stamp it
15 again.

16 So we've started to model some track and
17 trace functionality within our own four walls.

18 I don't know if many of you can see this,
19 but this is an actual image of our labels on the
20 applicator with the RFID tags embedded, just to give
21 you some visual of what that looks like, and hopefully
22 you can see the inlays embedded to the tags.

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1 One other quick visual. I just referenced
2 the fact that the case is actually moved through an
3 RFID tunnel. That's what you're basically seeing
4 there, and it takes about, again, a three to four
5 second time frame to move through that tunnel. All 48
6 tags are read, and at that time they're data
7 collected.

8 So now kind of moving into the electronic
9 Pedigree pilot, that gives you some background in how
10 we get started. Again, a very busy slide. I don't
11 expect you to read it, but the point is that this is
12 the schematic that largely drove our effort into e-
13 Pedigree. What we tried to do here is really outline
14 the process flow and the data flow that results in our
15 current operation and how we would go after that data
16 to start pulling together an electronic Pedigree to
17 try to take our effort to the next level. And this
18 was a collaborative process with some of our partners
19 who we'll talk about shortly.

20 So really I think a key take-away from
21 this slide is we hear a lot about drowning in data and
22 so much data and where do I store it. And in this

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1 simple operation, we're storing the EPC numbers with
2 very little information, but with those two pieces of
3 information I mentioned, lot number and delivery
4 number, we're able at the time of shipment to then
5 reach back into our core ERP system, our core system
6 that runs our business, and pull out all the other
7 contextual information that's relevant for a Pedigree.

8 For instance, from the lot number we can
9 pull the expiration date, things of that nature. We
10 can also go back and pull the NDC number and all those
11 other data elements. And from the delivery, we know
12 all of the information about the destination shipping
13 address for that customer. So we could effectively
14 assemble, certify, and send the Pedigree. At that
15 point, we are actually passing that out to a
16 SupplyScape application.

17 Guiding principles, and I think this is
18 very important. These are really the principles that
19 governed our electronic Pedigree pilot.

20 Number one, first and foremost, these are
21 in no particular order other than they kind of
22 immediately spell out the acronym "PRIME" which helps

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1 me remember them. And we can all use another acronym.

2 In any case, the first is production
3 environment. So an important note here is that these
4 are with live orders, live shipments, and live
5 systems, that it would be RFID based, item level
6 serialized, manufacturer initiated, and done on an
7 electronic Pedigree platform. So, again, those are
8 the guiding principles going into the pilot.

9 And a short list, bullet points, really,
10 of what each company, Purdue and H.D. Smith would do
11 in this process. Purdue will -- well, first of all,
12 let me, I guess, neatly put the scope around the
13 effort so I can give perspective there.

14 The scope was to create, certify and
15 electronically transmit item level Pedigrees for RFID
16 tagged OxiContin shipped from the PurduePharma
17 manufacturing plant in Wilson, North Carolina, to the
18 H.D. Smith Distribution Center in Springfield,
19 Illinois.

20 So, again, to put it in perspective, which
21 I think is very important, and I think Rob and I feel
22 a deep sense of obligation to do when we talk about

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1 this pilot, this was a one plant to one distribution
2 center operation. So in this process, Purdue will tag
3 the product, initiate the Pedigrees, certify the
4 Pedigrees, transmit the Pedigrees, and ship the
5 product. And I'll let you run down the H.D. Smith
6 side.

7 MR. KASHMER: And H.D. Smith carried it
8 from that point. We received and authenticated those
9 Pedigrees, received the product, matched the Pedigrees
10 to the product, and obviously certified that receipt.

11 I think one of the most important points
12 here as well is that we spent a lot of time in
13 determining if there was a problem and reporting it
14 on an exception basis. Again, we just wanted to make
15 sure that we could see any issues through this
16 Pedigree, and that was in a test. In the production
17 environment, obviously, there were no issues.

18 MR. CELENTANO: Okay. This is, again,
19 just another graphic that I think illustrates or is
20 attempting to illustrate scope. So this is a slide we
21 borrowed from our SupplyScape friends that you may
22 have seen before, and it just illustrates a typical

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1 supply chain movement of product from manufacturer to
2 wholesaler, potentially to chain drug warehouse and
3 then on to pharmacy.

4 To be clear, the scope of this pilot was
5 really the first node, and that, I think, we felt was
6 the primary proof of concept area that we wanted to
7 focus on. I think the concept of then replicating
8 that to downstream nodes, I don't want to oversimplify
9 that, but I think that, you know, the focus was just
10 getting that first node in place.

11 And then just a couple of pilot facts and
12 figures. The RFID tags that we did use were
13 Matrics/Symbol Class 0 UHF tags at the item level. We
14 were not tagging at the case level at all at this
15 time. So we, kind of differently than the other
16 pilots you've heard about, we are using UHF right now
17 at the item level and consider the fact that we were
18 early adopters in doing this, you know, a couple of
19 years ago, that was the direction we started out in.

20 The Pedigree messaging format that we use
21 is an XML based format. We are using SupplyScape
22 Pedigree software running on a hosted Unysis platform

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1 for this pilot, and we actually transmitted 192 item
2 level electronic Pedigrees from Purdue to H.D. Smith
3 over a 60-day pilot window and a planned observation
4 window. So the pilot had an opening and closing phase
5 to it, and it was really more, again, about proof of
6 concept.

7 And then lastly, I think I'll just let Rob
8 make a point here.

9 MR. KASHMER: We felt very strong about
10 this pilot, and in having those feelings, we have
11 licensed the SupplyScape software as our full
12 enterprise nationwide Pedigree solution, and our
13 implementation will begin in April of 2006.

14 MR. CELENTANO: And just some last key
15 conclusions, I think, from our pilot. Again, I think
16 Rob and I both feel a deep sense of responsibility to
17 this community to make sure we put the pilot in
18 perspective and do the best job we can there. And I
19 think we've kind of distilled that down to a couple of
20 key take-aways.

21 One, I think we echo some of the earlier
22 sentiment you've heard up here from some of the other

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1 presenters that the fundamental building blocks for an
2 RFID based, serialized, point-to-point electronic
3 Pedigree model exists today, and I think our study has
4 shown us that. But then I guess the tempering
5 statement there is to understand the impact and
6 capabilities and expanded supply chain distribution
7 scenarios, i.e., larger volumes, multi-tiered
8 packaging levels, additional supply chain nodes,
9 additional testing in a broader supply chain
10 environment or environments would be very beneficial.

11 And I think just one other point I think
12 I'd like to make there. I do think that those pilots
13 are underway and the opportunities to do that will be
14 there. I think one thing that struck me was in
15 listening to the Pfizer and then also the GSK approach
16 coming up, in a lot of ways they're very much a study
17 in contrast in terms of we're using UHF tags right now
18 at the item versus HF. We are embedding the NDC code
19 and the other pilots were not. Ours has taken
20 something of an electronic Pedigree bent versus an
21 authentication bent. We're using pre-encoded tags. I
22 think at least one of the other folks was writing to

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1 the tag.

2 So I think that's actually a good thing
3 for the industry in setting up some real opportunities
4 to try to find out about some best practices to the
5 earlier points there to see what does happen in each
6 environment using different opportunities in the
7 retail pharmacy and so forth. So I'm actually
8 encouraged by that.

9 MR. KASHMER: And our final comment is, as
10 you can tell, that this solution is complex, but it is
11 attainable. H.D. Smith believes additional pilots
12 need to occur with more volume.

13 We have entered into that agreement with
14 SupplyScape, and one of the next pieces that we will
15 do in our next phase will be to go ahead and implement
16 a Phase 2, which will be from our facilities to retail
17 pharmacy, as well as work to comply with the Florida
18 Pedigree legislation.

19 And I wanted to also say that we're a
20 proud and active member of HDMA, and we support all
21 the comments by both John Gray yesterday, as well as
22 Lisa Clowers. I think this was a very important step

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1 today and appreciate the FDA providing this forum.

2 DR. LUTTER: Thank you very much for these
3 enlightening and informative comments.

4 (Applause.)

5 DR. LUTTER: I'd like to introduce a new
6 member of our panel from FDA today. My colleague
7 Steve Niedelman has joined us, and he is Deputy for
8 Operations in the Office of Regulatory Affairs.

9 So I think what we'll do is proceed with
10 questions from the FDA Task Force to the members of
11 the panel. Our goal would be to try and finish
12 slightly before 11. We have the next panel beginning
13 at 11, but we will need a little bit of time to be
14 sure we have adequate telecommunications facilities
15 for a presentation by somebody who's not in this room,
16 and that might give us a reason to schedule a break at
17 that time.

18 So let me offer one personal perspective
19 on this. The phrase "the rubber meets the road" in
20 describing these pilots was used, and I think that's
21 very apt. It's always useful to have empirical
22 evidence and data about the effectiveness of a new

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1 technology in a new environment, particularly if it's
2 being used to address something important such as a
3 legal requirement, as was alluded to earlier by Bill
4 McConagha.

5 I haven't heard a lot of discussion here
6 about cost, and I think that's partly because there's
7 a presumption that those would change radically if the
8 scale increased substantially, and that's maybe
9 something that can be explored, but instead there's a
10 focus on technical feasibility at this point.

11 So I've learned a lot. I'm appreciative
12 of that, and with that maybe I'll turn it over to
13 questions that people may have. Deborah.

14 MS. AUTOR: Thanks, Randy.

15 For those of you who are actually trying
16 RFID and have done these pilot programs, I'd be
17 interested in hearing from you what you think are the
18 biggest barriers at this point to widespread
19 implementation of RFID.

20 DR. BERNSTEIN: Can I add another addition
21 onto that, if that's okay? And e-Pedigree, as well.

22 DR. LUTTER: Maybe we need just a few

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1 volunteers for that.

2 (Laughter.)

3 MR. HINTLIAN: I'll start the dialogue on
4 that particular point. There are actually lots of
5 barriers, and I think one of the things that a lot of
6 these pilots recognized was that despite those
7 barriers, you needed to take that first step and
8 launch into some kind of effort to field test these
9 capabilities, to understand the art of the possible,
10 to get a grounding in what the real challenges would
11 be rather than just read them off of the White Paper.

12 One of the challenges that I'll start with
13 that hasn't really been talked up a lot here is just
14 the notion of skills and training and changed
15 management because a lot of what you're talking about
16 requires different kinds of processes, different
17 business activities, different trading partner
18 relationships, contractual relationships, and
19 different skills inside the enterprise, whether it's
20 the distribution facility, whether it's the water
21 management activities. These are practices and skills
22 that in many cases did not exist before. You had to

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1 implement some of these types of Pedigree and
2 authentication processes, and that was something that
3 Jumpstart tackled.

4 There were fingers on keyboards. There
5 were operators in warehouses that needed to be
6 trained, and that's something that was a great
7 learning in terms of the anticipated challenges.

8 DR. LUTTER: Thank you.

9 Other perspectives on the question of what
10 are major obstacles to more widespread adoption?

11 MR. FOWLER: You know, I think the
12 question about e-Pedigree, e-Pedigree rolled out
13 nationwide at a lot and expiration date level is
14 practical. It's similar to what the Florida law
15 states, and I think the barrier to that would be
16 having some kind of nationwide approach to executing
17 it nationwide.

18 At the item level, I think there are still
19 significant issues with understanding the volume. If
20 you look at the volumes that we're talking about here
21 on nonauthentication, 150 items, 200 items. I mean,
22 McKesson processes six million items every night in

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1 Rx. So we really haven't done the size scale.

2 I do want to make one correction, though.

3 My good friend Rob Cole assures me that they did get
4 and achieve reasonable reads at full speed for their
5 line. So I did not want to disparage in any way the
6 great work that GSK and other members have done in
7 trying to move forward this RFID technology because we
8 support fully and support GSK in many ways.

9 But it still is at the volumes. We need
10 higher volume pilots, and that's why we really,
11 specifically, Pfizer and their move to move
12 significant numbers of tags through the U.S. health
13 care supply chain with Viagra is giving McKesson an
14 opportunity to do large scale pilots to understand the
15 real impact to the large scale on RFID and individual
16 items.

17 DR. LUTTER: Thank you.

18 MR. SPELLMAN: To Paul's earlier point on
19 electronic Pedigree, I think he's right. At scale,
20 electronic Pedigree from the information system's
21 perspective is absolutely achievable today at scale,
22 and I think the question comes in what the operational

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1 implications would be.

2 But from an IT perspective, even at six
3 million items, you could certainly do it
4 technologically from an IT perspective.

5 DR. LUTTER: Thank you.

6 Other questions? Jeff.

7 DR. SHUREN: I seem to be sitting in the
8 most inconvenient seat for speaking. This question is
9 for Mike Celentano and Rob Kashmer.

10 I was sort of struck that in terms of the
11 information that's being put in the RFID tag, that it
12 was lot number and delivery number. Yesterday we
13 heard from the retailers that their big concern is
14 that they have the NDC number, or at least have access
15 to that, and there isn't going to be return on
16 investment for them unless they do.

17 On the flip side, we've heard that if the
18 NDC number is put in there, there may be security and
19 privacy concerns. You've mentioned that by putting
20 the lot number you can actually link back to the NDC
21 number. Is putting in the lot number and not the NDC
22 number, but a link to it, a way of getting around

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1 this? That a retailer could link to your database, get
2 that NDC number as it comes through, but it isn't
3 traveling in the RFID and it could not then be scanned
4 on the product itself?

5 MR. CELENTANO: Okay. Can you hear me
6 okay?

7 DR. SHUREN: Yes.

8 MR. CELENTANO: Okay. First of all, I
9 have to correct the statement, just to be clear. We
10 did not mean to indicate that we're putting the
11 delivery or the lot number on the RFID tag. What
12 we're doing is, when we scan and data collect the tag,
13 I guess I can see now in retrospect how that may have
14 been unclear.

15 We are only putting the EPC number on the
16 tag right now, and it does contain the NDC code, and
17 that is all that's on the tag. And when we collect
18 that information, we collect it along with the
19 contextual data that I mentioned, the lot number, for
20 instance. The way we have our line set up, we're able
21 to input the lot number and essentially read that lot
22 number into the database where we collect our EPC

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1 codes when that line is producing that particular lot
2 number.

3 So that's how we add the data to our
4 database, not to our tag. Similarly, when we scan the
5 tags on the outbound delivery, that's the time that we
6 add the delivery information. That's also captured in
7 that local database. So then I'm able to pull from
8 that database that other contextual information for
9 the Pedigree, just to be clear.

10 So the only thing on the tag right now is
11 the EPC code containing the NDC.

12 DR. LUTTER: Toni, you had a question?

13 MS. STIFANO: Yes. This is to the panel
14 as a whole. Has there been any thought or any plans
15 to do any studies with regard to repackaging?

16 MR. FOWLER: With respect to?

17 MS. STIFANO: With respect to your tagging
18 something, shipping it off and then it's repackaged.
19 So it's taken out.

20 MR. FOWLER: Right. McKesson actually has
21 a couple of repackaging operations as part of our
22 global enterprise, and we are investigating how those,

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1 both on a Pedigree perspective and on an RFID
2 perspective, would be managed.

3 I think you've heard the panel also. I
4 think you heard the consumer side say that bar code
5 will be the standard at least for a short time in our
6 hospital communities. It may be a long time in our
7 hospital communities for unit dose, patient, safety.
8 Certainly we understand that as a distributor and as a
9 repacker, but we're trying to do some pilots.

10 We haven't scheduled any yet, but we
11 certainly have those operations and are in the
12 strategy phases.

13 DR. LUTTER: Any other respondents on the
14 packaging question?

15 (No response.)

16 DR. LUTTER: Maggie, another question,
17 please?

18 MS. GLAVIN: This is for anyone on the
19 panel who would like to comment. We had an ongoing or
20 recurring discussion yesterday about the importance of
21 keeping focused in our minds the difference between
22 authentication and e-Pedigree, and so I wondered which

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1 of those drove or was the major driver in your pilots,
2 and did you find conflicts between the imperatives of
3 e-Pedigree and authentication?

4 Michael, are you willing to take it on?

5 MR. CELENTANO: Sure. First off, I should
6 say I guess the question really is, did we have a
7 particular bias, I think, toward the question of
8 authentication versus pedigree in terms of how we
9 approached our pilot and why? And I think I can say
10 that when we chose to approach the Pedigree
11 capability, I think some of the inputs that drove our
12 interest in that I will say, at least speaking for
13 myself, were coming from our direction and work with
14 EPCglobal at the time where as an action group we've
15 identified electronic Pedigree as a first capability,
16 using RFID as enabling technology. So that's what
17 started some of our early work there.

18 My participation with that group, I felt
19 that if we could potentially do something as a company
20 who was well positioned to maybe take a leading edge
21 there in collaboration with our partners, it might be
22 helpful as a reference model. So that's really what

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1 drove our interest again.

2 I think it was following the leadership of
3 the EPCglobal bag.

4 MR. CHANG: And I think our focus was
5 based on FDA's suggestion of having a two-pronged
6 approach of track and trace, which is Pedigree, and
7 also the authentication. So you know, as a consumer,
8 you know, do I want to take a potentially counterfeit
9 drug that has a valid Pedigree or do I take an
10 authentic drug, but I don't know the history of that
11 drug?

12 So it's a tough question, and so what
13 we've done is we wanted to put the infrastructure in
14 place that can manage both the authentication and the
15 track and trace capability.

16 MR. SPELLMAN: Yes. I mean, our position
17 is that they are complementary technologies. One
18 secures the transactional history and the chain of
19 custody, and the other speaks to the validity of the
20 product and really together they tighten things down
21 very effectively.

22 MR. HINTLIAN: I would just add from a

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1 Jumpstart perspective, actually, three years ago this
2 month was when we sort of launched that whole program,
3 long before this dialogue was popular, and the
4 principle objectives of it were to move outside of the
5 enterprise. So you could look at the application of
6 technologies within an enterprise, within a
7 distribution facility for the purposes of operational
8 improvement or track and trace within the company's
9 own supply chain, but we thought that it would be
10 worth testing the value of this kind of technology
11 across trading partners.

12 And so amongst dozens of areas where you
13 could imagine applying a tag and seeing how you can
14 get value, three areas popped out. One was safe and
15 secure supply chain. It was reverse logistics and
16 operational enhancements, again, across the supply
17 chain.

18 It was just a few months after that, so
19 the summer of 2003, when the Anti-Counterfeiting Task
20 Force was officially launched that suddenly what came
21 into focus was the safe and secure supply chain. They
22 were all interrelated. Nothing was mutually exclusive

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1 in terms of what we were looking at, but it provided
2 that laser focus on what it is that the group would
3 focus on in terms of a cross-supply chain effort.

4 MR. CELENTANO: I think also maybe another
5 perspective on that, I do think the authentication
6 piece of it, at least in some respects, has a focus
7 for the group from EPCglobal I think came in a little
8 bit later than the capability focus and started to get
9 more attention. But I think also from the onset we
10 envisioned this to be a manufacturer initiated
11 Pedigree, and unless we're producing our own
12 counterfeited product, that would seem --

13 (Laughter.)

14 MR. CELENTANO: So I think in that sense
15 if we're using the Pedigree in the way we envisioned
16 it, it would be kind of difficult to introduce that.

17 MR. DUBNER: In our case, our partner on
18 this, their product is on that susceptible list.
19 Their main driver was authentication. They wanted to
20 make sure that what they did to elevate confidence
21 that it was genuine was consistent with e-Pedigree and
22 those kinds of things, but their initial driver was

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1 authentication.

2 DR. LUTTER: Another question? Ilisa
3 Bernstein.

4 DR. BERNSTEIN: You've all talked about
5 the pilots that you've done, and several of you said
6 that the pilots are a great tool for getting lessons
7 learned and moving forward, and I'm just wondering --
8 and encourage additional pilots -- at what point do
9 you move beyond the pilot stage and feel that you've
10 had enough lessons learned to take this more
11 widespread?

12 Based on your experience, was there enough
13 that you got out of it that you could say, "Yes, we
14 were really close," or, "No, we need to do a lot
15 more"?

16 If you could share any insight there, that
17 would be helpful.

18 MR. FOWLER: You know, I think from
19 McKesson's perspective, our goal in this on track
20 program is to identify the pieces and parts of the
21 supply chain that make sense to serialize first. We
22 have medical specialty businesses. We have cold chain

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1 businesses. We have a lot of supply partners with us
2 who are looking at this program.

3 Our goal is really to find out where does
4 it make most sense to proliferate this technology
5 first, and that's going to be based on value and
6 security in the supply chain, quality of the
7 particular product. Certainly in addition to assuring
8 Pedigree in part of the cold chain it will save
9 product. I mean, there are products that expire on
10 the way. We need to know that they're heat protected
11 on the way to their customer and not sitting on the
12 back dock.

13 So we're looking at those kind of
14 technology areas, and we'll know when we will
15 implement. I think this will be most rationally
16 implemented from an RFID perspective in those areas
17 where it makes most sense.

18 I would tell you I was talking, again, to
19 Paul from IBM. They're doing a lot of work in the
20 medical device area because keeping up with a four or
21 five thousand dollar device is very critical, but we
22 have four and five thousand dollar vials of drugs that

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1 keeping up with that is probably where we're going to
2 start with the RFID effort.

3 MR. HINTLIAN: Just to build on that, I
4 think in some sense you could say that all of the
5 chapters for pilots have been written, and the term
6 pilot is almost a misnomer going forward because it's
7 all about how do you commercialize these capabilities.

8 A lot of the pilot programs are characterized by very
9 isolated supply chains, very sort of sanitized
10 approaches to making sure that you can eliminate all
11 of the variables so that you can get the kinds of
12 learnings that have been obtained, and now it's about
13 making it real.

14 And the notion of pilots, again, being
15 something that you start, you stop, you study the
16 results of I think has sort of concluded. Now it's
17 all about can firms now start to develop and deploy
18 capabilities and do so in a commercially safe
19 environment in that they can collaborate,
20 understanding that it's not perfect, that there's
21 still a sense of you don't know what you don't know,
22 and that you can continue to develop the learnings,

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1 but the difference here is that these are now
2 commercial capabilities, not just something that is
3 going to be started and stopped. They will evolve and
4 develop over time as technology matures, as business
5 practices mature, as laws become better understood, et
6 cetera.

7 So I would offer up that clarification.

8 DR. LUTTER: Can I ask a follow-up on
9 that? You had earlier said that the big obstacles at
10 this point pertain to development of skills, training,
11 and just change management within the production
12 facilities themselves, and can you talk a little bit
13 more about if the pilots are behind us, the chapters
14 are written, so to speak, and the next stage is a much
15 broader scale implementation that really doesn't
16 deserve the name of pilot, what is the timing to
17 complete the necessary training and skills and
18 development and change within the organizations, and
19 if that's the obstacle going back to the main theme of
20 this conference, what could we do or others do to help
21 facilitate the necessary skill development training
22 and change management?

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1 MR. HINTLIAN: I think my co-panelists
2 could also comment on this. I don't know that I can
3 give a good answer in terms of timing, but I would
4 suggest that in terms of the successful path forward
5 on skill development and change management, I think
6 the key thing here is inclusiveness of those who will
7 be involved in the process as it becomes a commercial
8 capability.

9 So as you're developing, as you're
10 transitioning from a pilot activity to a commercial
11 capability, the actual user community that's going to
12 be involved with those activities, whether it's the
13 folks in the warehouse, whether it's order management,
14 whether it's the regulatory capabilities and so forth,
15 they all need to be included as part of that process,
16 not as something that's brought in after a technology
17 has been implemented.

18 MR. KASHMER: We at H.D. Smith also
19 believe that we need to share the expense throughout
20 the entire supply chain, and we're in the middle of
21 the supply chain, and we need to react to our business
22 partners and their changes. So this is an evolving

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1 process with introduction of new frequencies. We in
2 the middle have to be able to read all frequencies as
3 the items are just put into a tote.

4 And, again, "pilot" is not a good term
5 because our RFID initiative has continued to expand.
6 It has not just started and stopped, and so I think
7 that also is very important. Our Pedigree solution
8 did, and now it's starting again, and it will be
9 deployed.

10 MR. DUBNER: I think that "pilot" isn't
11 exactly the right term to use, but I think that
12 transition that you asked about, Ilisa, has a lot to
13 do with business case, and I think that there's still
14 experimentation going on.

15 Jamie, I think, is correct. Perhaps the
16 chapters have been written. They may not have been
17 read, and sometimes reading isn't enough. Sometimes
18 you've got to get out there and do it. So I think
19 there's still some work to be done.

20 DR. LUTTER: We have questions from the
21 panel. Bill McConagha.

22 MR. McCONAGHA: Shifting gears slightly,

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1 this is directed at Mr. Fowler. You made reference in
2 your remarks to the Florida state law and then also
3 said that things could not be hammered out on a state-
4 by-state basis. I just want to make sure I understand
5 your thoughts here more precisely.

6 Is it your view that state laws, like
7 Florida's, somehow frustrate implementation of
8 widespread RFID? And if so, how?

9 MR. FOWLER: Well, I would say two things.

10 One, they will frustrate implementation of RFID
11 because, for instance, many of the people in the room
12 have literally stopped what they're doing in RFID to
13 comply with the Florida law in a paper in e-Pedigree
14 form. Many of the companies you see in the room
15 across the hall stopped what they were doing to
16 develop e-Pedigree solutions that met the Florida law.

17 I mean, Peter and I were quite honestly in
18 Florida a lot together, as were many people in this
19 room.

20 Secondly, I would tell you that we are
21 concerned that implementation of one part of the
22 country -- you know, the commerce strength of the

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1 United States of America is that we gathered together
2 early to make commerce free across all of the states.

3 So when you take a state like Florida and you make
4 different laws for different products, now we have
5 challenges of a major distributor that we can't just
6 pick up any item in California and ship it to Florida.

7 So there will be disruptions in the supply chain.

8 Emergency supplies, the state has
9 certainly taken care of things like disasters and
10 items like that, but on a more practical basis, the
11 supply chain to the U.S. is a very critical supply
12 chain, and we move product; all of our distributors
13 more product worldwide or country-wide every day, and
14 when one state isolates itself in that supply chain,
15 they will cause some problems in getting supplies
16 there.

17 MR. NIEDELMAN: So as a follow-up, what
18 you were referring to in your presentation about
19 potential disruptions in Florida is responsive to the
20 50-state distinction.

21 MR. FOWLER: Yes.

22 MR. NIEDELMAN: Your requirement

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1 distinction.

2 MR. FOWLER: Yes, I mean, almost all of
3 the major distributors are making arrangements right
4 now. To the earlier question, when will we start
5 training, I have three technologists dedicated in my
6 E-commerce group right now to e-Pedigree because we
7 will be complying with Florida laws with all folks,
8 and that same platform, which is a Cyclone platform in
9 our case, will be used nationwide for our Pedigree
10 solution, and it will be adaptable to RFID at the
11 appropriate time.

12 So we are, you know, essentially in the
13 process to Jamie's point.

14 DR. LUTTER: Does anyone on the panel have
15 contrary views that the state initiatives have helped
16 promote adoption of RFID or Pedigree technologies?

17 MR. SPELLMAN: I mean, clearly having a
18 catalyst, something to spur people to move I think is
19 definitely causing forward progress. I think Paul's
20 point is a good one. I think if you have 50 flavors
21 of how you handle something like Pedigree, I think
22 that will be very problematic for the supply chain.

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1 DR. LUTTER: Other questions from the
2 panel?

3 DR. SHUREN: I want to follow up on a
4 point that Jim Hintlian had mentioned, which is that
5 there's a need for greater inclusion as we start to
6 move forward and either have, if you will, expanded
7 pilots or out in commercial use. And Paul Fowler had
8 mentioned that there's a need for more collaboration
9 than we have seen so far.

10 Are there any barriers that you've
11 encountered that would lead to or prohibit this
12 greater collaboration? If so, could you elaborate on
13 what those are?

14 MR. HINTLIAN: I'm start, and Paul is
15 going to also build on these remarks, but I think as
16 you look at any new kind of capability deployment
17 there are several common denominators, things that
18 everybody needs to do and do well so that you have the
19 kind of cross-supply chain interoperability for
20 processes and technologies and so forth, things that
21 are not going to differentiate anybody competitively,
22 not going to compromise strategic imperatives or trade

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1 secrets or things of that nature.

2 And I think the early part of these pilots
3 all sort of recognize that those weren't going to be
4 issues. I think as you start to get into greater
5 levels of collaborative programs and so forth, you
6 will need to depart from that large group type of
7 effort around collaboration because I think at that
8 point there will be concerns around compromising
9 strategic positions or trade secrets and things of
10 that nature.

11 So I think in that sense from a cross-
12 supply chain view you'll start to see some of those
13 concerns amongst the participants, but still within
14 any particular enterprise there will still remain the
15 increased need for broader participation across all
16 the different functional groups within a company.

17 MR. FOWLER: I would say that I have seen
18 a tremendous over the last three or four years
19 improvement in the collaboration, not only folks like
20 Purdue, GSK, the leaders, Pfizer. The leaders in this
21 area have really pulled together, and the McKessons
22 and Cardinal, AmeriSource, Bergens, the large

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1 distributors, we are actually working more closely
2 together than we ever have for this problem of solving
3 these kind of electronic commerce problems.

4 From our customer base, certainly the ones
5 who are the most leading are the Wegmans, the Wal-
6 Marts of the world, the Targets, the Rite-Aids, but
7 those names are very large names. They have very
8 large technology organizations, and they have very
9 large infrastructures themselves, usually on the
10 consumer product goods side, that have exposure to
11 RFID technology.

12 What you don't see here represented very
13 strongly are the acute care facilities. You know,
14 large hospitals don't have exposure to the consumer
15 package good side. So they don't have RFID on their
16 lips. They don't have large technology organizations
17 that are dedicated to infrastructures. They're
18 dedicated to medical analyzers and those kind of
19 things.

20 Those are the areas where we make the most
21 impact in the health care chain probably, particularly
22 from a long-term patient safety perspective. Those

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1 are the areas that they just don't have a focus. They
2 don't have the capability to focus at this point.

3 DR. LUTTER: Thank you very much.

4 Please join me in thanking this panel for
5 this very enlightening presentation.

6 (Applause.)

7 DR. LUTTER: We'll meet again at 11:10 in
8 this room to talk about state efforts.

9 (Whereupon, the foregoing matter went off the record
10 at 10:55 a.m. and went back on the record
11 at 11:15 a.m.)

12 MS. GLAVIN: Welcome back to our second
13 morning session. This panel is on state efforts with
14 respect to RFID.

15 As you all know, many states have moved to
16 implement stronger wholesaler and Pedigree laws to
17 further protect the drug supply chain. We are very
18 fortunate today to have representatives from three
19 states that have taken the lead in these efforts:
20 Indiana, Florida, and California.

21 Our three state representatives are Donna
22 Wall, from the Indiana Board of Pharmacy; Judi Nurse,

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1 from the California Board of Pharmacy, and Judi will
2 be joining us by phone; and John Taylor, from the
3 Florida Department of Health.

4 So I know they have some very interesting
5 information to share with us, and so, Donna, if you
6 would start out.

7 DR. WALL: Good morning, everyone. My
8 name is Donna Wall, and my real life paying job is
9 that I am a critical care clinical pharmacist at the
10 Indiana University Medical Center in Indianapolis,
11 Indiana, and my full-time barely paying job is that of
12 serving as a board member on the Indiana State Board
13 of Pharmacy. Currently, I am serving as its
14 president.

15 Last year, May 11th, 2005, our governor,
16 Mitch Daniels, signed into law the new wholesaler drug
17 distribution laws. Why, people ask, did Indiana pass
18 such a law?

19 It actually came from a patient, a patient
20 who went into their pharmacy and asked the
21 pharmacists, "How do I know this is real?"

22 And the pharmacist said, "Well, let me

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1 check." Well, the pharmacist happened to be State
2 Senator Marvin Riegsecker. Senator Riegsecker called
3 through the various line of where the product he
4 thought had been, and he finally wound up with a
5 repackager.

6 He asked the repackager the question that
7 the patient had asked him, and the repackager said,
8 "Trust me." That was not the answer that the senator
9 wanted. Thus, we have our law.

10 Indiana's new wholesale drug distributor
11 law actually consists of four main parts, of which the
12 task force may see as very similar or actually comes
13 from your report of 2004. We've increased the
14 penalties for counterfeiting drugs. We have rigorous
15 licensing requirements, including mandatory
16 accreditation for all wholesalers. We have determined
17 a normal chain of distribution, and we're requiring
18 Pedigrees for all drugs that come from outside of that
19 normal chain of distribution.

20 To give it a little bit more detail, in
21 the counterfeiting penalties, it is now or what we
22 have put into place in the criminal section of the law

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1 is a new legend drug deception statute. The statute
2 now gives anywhere from a felony D to a felony A
3 penalties, up to 20 years in prison or a minimal of 20
4 years in prison if it is a felony A, if you are caught
5 counterfeiting and a patient dies.

6 Effective licensing requirements. We are
7 now requiring the following things to be a part of the
8 licensing: the criminal background checks, surety
9 bonds, due diligence for cause authentication, and a
10 mandatory on-site inspection of all facilities that
11 are going to ship into the state.

12 Along with that, I mentioned we are going
13 to have a mandatory national accreditation. The
14 statute says that it can be a VAWD accreditation, and
15 VAWD is the Verified-Accredited Wholesaler Distributor
16 program that Carmen Catizone spoke about yesterday.

17 The law also says "or another board
18 approved accreditation," of which we have none at this
19 point.

20 What we have felt is that the
21 accreditation will insure compliance with relevant
22 state and federal laws no matter where this wholesaler

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1 is located.

2 The biggest point that or why the state
3 really bought into it, this last line which is with
4 the accreditation program there is negligible physical
5 and operational impact upon the state, and when we all
6 look at our state's budgets, we know how important
7 that is. If they had to pick up the cost of this
8 program, it wouldn't happen.

9 The normal chain of distribution. The
10 normal chain of distribution is a bridge between the
11 no Pedigree to the all Pedigree. So eventually this
12 is going to go away.

13 We defined six different areas of normal
14 chain of distribution. The last two on the list you
15 see we included in ADR to an ADR transfer. That came
16 out of our summer meeting. This is just one ADR to
17 ADR. It's not ADR to ADR to ADR to ADR, to keep on
18 down the line, and we wanted to make that very clear.

19 But, again, when you look at the normal
20 chain of distribution, it is all just an interim
21 bridge between getting all Pedigrees. The Pedigree
22 laws that were passed, there's two phases to it.

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1 Phase 1 is that by July 1st of this year any product
2 that is outside of that normal chain of distribution
3 must generate a Pedigree.

4 The second part of it is the part that we
5 will be looking to this task force recommendations, is
6 that the legislature wants the Board to prepare a
7 report defining whether we can do a track and trace
8 system, and this report has to be in by January 1 of
9 '07.

10 We also must conduct a viability study and
11 talk with the FDA, which is why we're really excited
12 to be here listening to this presentation and look
13 forward to your report.

14 The basic time line of the Indiana laws we
15 had, the law was passed in May of last year. In June
16 we had a stakeholders meeting, where we listened to
17 everyone's concerns. We sat in a group and we
18 hammered out things that we needed to put into
19 regulation and things we needed to take back and
20 change.

21 The current implementation, as of now any
22 new wholesale distributors who are coming to the State

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1 of Indiana must be VAWD accredited, period. I put
2 6/30 and I realize this should say after 6/30, in
3 reality 7/1, Pedigrees will be required for all
4 products that go outside of the normal chain of
5 distribution.

6 As of 9/30/06 of this year, that's the end
7 of our renewal cycle for all wholesalers. All
8 wholesalers who want to do business within the state
9 must be accredited, and then I mentioned that we will
10 need to have a study and information back to the state
11 legislature by January of next year. What are we
12 going to do with the Pedigrees?

13 What are the issues that we faced when we
14 worked with all the various stakeholders? What did
15 they express frustration or concern about?

16 When we looked at the wholesalers, their
17 concerns were thinks about the surety bonds, the
18 authorized distributors. What was in the Pedigrees?
19 Could invoices count as Pedigrees?

20 There was concerns of the normal chain
21 versus the drug susceptibility list. They wanted the
22 inclusion of the ADR to ADR transaction, and there was

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1 a concern about the accreditation process from the
2 aspect of they were afraid that the confidentiality of
3 the information that they were going to share would
4 not be kept confidential. We have put things into
5 place, along with the accreditation agency, that they
6 will be kept confidential.

7 The drug manufacturer is the issues. We
8 had a request or it was requested that the drug
9 manufacturers give full exemption from the Pedigrees.

10 They felt that this was a very duplicative effort
11 between the state Boards of Pharmacy and the FDA.

12 There was also a large discussion about
13 the normal chain of distribution versus the drug
14 susceptibility list. Manufacturers wanted all
15 products included because they felt that the drug
16 susceptibility lists were only products that had been
17 counterfeited and that the state boards could not
18 react quickly enough to respond to any compromised
19 products. They also in the Pedigrees wanted included
20 both lot numbers and content.

21 The chain drugstore warehouses. This
22 entity was a new one to come into play because they

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1 have their own enigma that we didn't quite fit into
2 any category. So we had to create a new category.
3 They weren't really considered ADRs. They weren't
4 really in the first couple of versions of the normal
5 chain of distribution, but now that we included them
6 in.

7 Lastly, there was a criminal history
8 background checks for personnel. There were concerns
9 about that.

10 There was an entity called a third party
11 logistics providers. In Indiana, that's UPS.
12 Basically these are the folks who take possession of
13 the product from the manufacturers, but never take
14 possession of drug title. There was a concern about
15 do these folks need to be licensed, and they also had
16 a concern that they did not want to designate a
17 representative at each site.

18 Indiana pharmacists. We need to include
19 the pharmacists within this process. They are very
20 supportive, but their biggest concern was about
21 authentication requirements at the pharmacies level.

22 And lastly, our board. We felt the bottom

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1 line was no accreditation, no go with this
2 legislation, and we feel very strongly that we need to
3 work with everyone to secure the entire distribution
4 chain.

5 Which takes us to the present, which is
6 Senate Bill 202. It's called Pharmacy Matters. It's
7 just basically a clean-up bill for the Indiana State
8 Board of Pharmacy, and we do have a couple of issues
9 on the wholesale drug distributors within that.
10 Basically they don't change the law. They are just a
11 little clean-up things within it.

12 We had a senate Health Committee meeting
13 on January the 25th of this year, and I am very
14 pleased to say that we did have supporting testimony
15 at that hearing from HDMA, Indiana Retail Council,
16 Indiana Hospital Association, Cardinal Health, and
17 Indiana Pharmacists Association.

18 That bill has since passed the Indiana
19 senate with a vote of 49 to one, and it is now on to
20 the House of Representatives, which we hope to pass
21 it.

22 I mentioned in the beginning that I was a

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1 clinical pharmacist because I need to relate one last
2 story to everyone before I leave, and that was in 2002
3 my hospital, Indiana University Hospital, received the
4 counterfeit Epogen, and it went out to patient care
5 areas, but by the professionalism and by the
6 efficiency of our staff, we got it back before any
7 doses were given to patients, but it got that close.

8 And that changed how most of us who work
9 in that facility look at this process. Where we used
10 to look at a patient who may be failing therapy and
11 you think, "Well, is it because they weren't compliant
12 or is it because this is disease progression?" we've
13 now added to our thought process, "Is it real?"

14 And most people, if you've never been
15 faced with that, aren't adding it to their thought
16 processes, and I think that they need to.

17 The Indiana Board of Pharmacy is made up
18 of six pharmacists. All have practiced. All do face-
19 to-face with our patients. One just retired. It is
20 very important to us as pharmacists and as trying to
21 be protectors of the public to be able to look these
22 patients in the face and say, "Yes, answer the

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1 question that the senator received, and that is, yes,
2 you have received a real drug."

3 Thank you.

4 (Applause.)

5 MS. GLAVIN: Thank you very much.

6 Our next presenter is Judi Nurse from the
7 California Board of Pharmacy, and I'm going to let our
8 technicians get her on for us.

9 Judi, we have your slides up. Are you
10 ready to start?

11 DR. NURSE (via telephone): Yes, I am.

12 Good morning. On behalf of the California
13 State Board of Pharmacy, I would like to thank you for
14 the opportunity to participate in today's panel
15 discussion. I apologize for not being present today.

16 It seems that out of state travel is a foreign
17 concept to the State of California.

18 (Laughter.)

19 DR. NURSE: Are we there?

20 MS. GLAVIN: Yes. Hold on just a second
21 and we'll try and get the hum out.

22 Okay. Go ahead.

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1 DR. NURSE: I have been asked to provide a
2 brief overview on the California Pedigree
3 installation. So here we go with that, to Slide 2.

4 In 2004, our Pedigrees legislation passed.
5 The purpose of the legislation was to reduce
6 counterfeits in the prescription drug supply chain in
7 California, and to reduce the diversion market in
8 California.

9 In January of '05, some of the sections of
10 the new statutes were implemented. Those sections
11 were not the Pedigree portion of the legislation, but
12 the restrictions on wholesale sales by pharmacies and
13 also the requirement for licensure of out of state
14 wholesale distributors.

15 Then in January of '06, we implemented a
16 surety bond requirement for wholesale distributors,
17 both licensed in California and out of state
18 distributors, and then coming in January of '07, the
19 wholesale Pedigree legislation is due to implement.
20 In January of '08, the Pedigree legislation would be
21 implemented at the pharmacy level.

22 Now, moving on to Slide 3, however, we

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1 have written into our statute a provision of the
2 California Board of Pharmacy can delay implementation
3 of the wholesale Pedigree, and the California
4 legislature has the ability to delay the
5 implementation of the pharmacy provisions. The
6 wholesale could be delayed until January of '08 and
7 the pharmacy until January of '09.

8 Moving on to the specifics of the
9 Pedigree, Slide 4 indicates the actual definition in
10 California of the Pedigree. I won't go over that.
11 The key element here is that it's electronic and that
12 we do not mandate the technology.

13 (Pause for interference noise.)

14 DR. NURSE: I apologize.

15 We don't really intend to. Our goal is
16 not to micro manage this technology, but to allow the
17 best technology or combination of technologies to
18 evolve. We realize there's a delicate balance between
19 letting technology evolve and things being so out of
20 control that a system won't work.

21 With that in mind, we are putting together
22 a work group, and the first meeting of that work group

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1 will be March 13th in the afternoon at one. Anyone
2 with any interest in this process we would encourage
3 to attend and participate in that meeting.

4 Our legislation was designed with the
5 concept that the manufacturer would create the
6 pedigree. Allowing the Pedigree to start at the
7 wholesaler allows the potential for diversion before
8 you even get the Pedigree started.

9 We also are not currently looking at the
10 normal distribution chain concept.

11 Moving on to Slide 5, the electronic
12 Pedigree requirements, this slide outlines what our
13 Pedigree actually requires, and I think most of us are
14 pretty familiar with that.

15 Number one is the prescription drug
16 information. That's pretty easily understood. We
17 don't include the NDC code, but we don't have any
18 objection to the NDC code being part of the Pedigree
19 as long as the information that we need is on the
20 Pedigree.

21 Transaction source information, that's the
22 information around the current transaction. The

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1 ownership information is the previous ownership
2 information of the drug history, and the certification
3 is somewhat similar to what we talked about
4 certification yesterday.

5 Now, Slide 6 through 9 talk about those
6 issues in more detail, but I'm not going to talk to
7 that at this time.

8 Slide 10 through 13 talk about the detail
9 of the rest of our legislation package dealing with
10 counterfeiting and dealing with reduction in gray
11 market diversion in California. I also will not
12 discuss those details.

13 If we could go on to Slide 14, it talks
14 about implementation challenges, and emerging
15 technology is obviously a challenge and has been a
16 challenge. I realize how very difficult it is for the
17 industry and that everyone is making Herculean efforts
18 and very expensive efforts to try and make this work,
19 and we're very appreciative of everyone's efforts.

20 It's equally difficult for us to try and
21 write legislation or regulations when you don't have
22 the technology right in front of you. So that is a

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1 challenge.

2 Industry is a challenge, and I say this
3 kind of kiddingly. You know, just like regulators
4 drive industry crazy, there's give and take there.

5 (Laughter.)

6 DR. NURSE: I don't want to sound like an
7 advertisement for our work group, but just to let you
8 all know that at that work group on March 13th,
9 Patricia Harris will be putting on the agenda the
10 issue of extending the implementation of the wholesale
11 requirements until January of '08. So if there are
12 people planning to attend to or requesting an
13 extension, it's important that you provide the board
14 with some plan for implementation and assurance that
15 the compliance date of January '08 can be met in some
16 fashion.

17 Anyone with pilot programs or anything
18 like that is really asked to come forward.

19 Other challenges, of course, once we
20 figure out exactly what we're doing, the next
21 challenge is always education.

22 As I move on to Slide 15, I need to

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1 indicate that at this point what I have to say is my
2 own opinion and not the official opinion of the
3 California Board of Pharmacy.

4 Lessons learned they asked that I discuss.

5 This is some of the process of implementing. It's
6 somewhat difficult to know at this point exactly what
7 the lessons are. There are a couple of things we do
8 know.

9 We do know that we don't want 50 states
10 with 50 Pedigree standards, and we don't want every
11 manufacturer to have their own format of the Pedigree.

12 We need something standard.

13 We also need state Pedigree systems that
14 we communicate within each, you know, back and forth
15 with each other.

16 And I think it has been discussed
17 repeatedly in the last two days that all of these
18 systems, all need to be able to communicate with each
19 other. That doesn't mean that everyone has access to
20 everything, but everyone needs to have the ability to
21 read all of this information.

22 I would like to indicate how the SBA could

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1 complement our efforts, and I kind of consider this to
2 be my wish list, and again, this is not official
3 opinion of the Board of Pharmacy. I have five items.

4 One, each state develop and implement
5 electronic Pedigree systems for prescription drugs.
6 We don't want to spend all of this money and effort at
7 all levels of industry to have some states become, you
8 know, a haven because they are not Pedigree states,
9 where drugs travel through that state in order to have
10 the Pedigree basically cleansed.

11 Secondly, mandatory enforcement of state
12 Pedigree requirements needs to remain with the state.

13 The FDA can't possibly investigate on their own all
14 of these pedigree violations.

15 Third, mandate that the manufacturer only
16 create the Pedigree for prescription drugs entering
17 commerce in the United States. We have been able to
18 see how the technology can be worked around to a
19 certain extent, I don't know that you want that
20 technology spread all the way through the supply
21 chain.

22 So having the tagging and the creation of

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1 the Pedigree needs to rest with the manufacturer.

2 Next, a special clearing house. Now,
3 we're not married to the concept of a special clearing
4 house versus decentralized. So my slide is not really
5 accurate, but just the concept as we discussed it
6 yesterday, that entire area needs to be dealt with,
7 and it needs to be dealt with in a comprehensive way,
8 not the way that just the individual states would
9 attempt to deal with it.

10 Next is, as I said, mandated compatibility
11 between the Pedigrees and the systems that the
12 individual states would utilize. Again, having
13 everyone be able to read everyone else's data, not
14 necessarily have access to it, but the ability to read
15 it.

16 In conclusion, we at the state need
17 federal standards now, not later, and the states need
18 your support, the FDA support, now to assist us in
19 moving this issue to completion. There is a very
20 important health safety issue, probably one of the
21 most important that the industry and consumers have
22 faced in years, and we really need your help.

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1 We're on the front line trying to protect
2 the health and safety of the consumer, just as you all
3 are, and we're trying to do this because there have
4 been long delays at the federal level, and so we very
5 much now need your support and your standards now.

6 So I thank you very much for inviting us
7 to participate, and that concludes my remarks.

8 MS. GLAVIN: Thank you very much.

9 (Applause.)

10 MS. GLAVIN: And Judi will stay with us
11 through the question period.

12 So right now we're going to move on to
13 John Taylor of the Florida Department of Health.

14 MR. TAYLOR: Good morning. My name is
15 John Taylor. I'm a drug inspector for the Florida
16 Department of Health. I've been in that position for
17 three years, and I previously served as the Executive
18 Director of the Florida Board of Pharmacy for 13 years
19 before that.

20 On behalf of the Florida Department of
21 Health, thank you for this opportunity to summarize
22 the Florida efforts to combat drug counterfeiting.

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1 Responses usually begin with stimuli, and
2 the Florida response to threats to the integrity of
3 our prescription drug supply is no different. Many
4 practitioners and even some of us in other aspects of
5 regulation assume that prescription drugs travel from
6 the manufacturer to a wholesaler and then to a
7 pharmacy or practitioner.

8 In 2002 and before, better informed
9 individuals were seeing drug products travel through
10 multiple primary and secondary wholesalers. While
11 there may be nothing wrong with this when taken at
12 face value, these multiple and sometimes difficult to
13 track transactions provided an opportunity for
14 unscrupulous individuals to insert a counterfeit drug
15 product into our drug supply chain.

16 This did, indeed, occur in Florida and
17 most likely in other states. Department agents broke
18 a high profile case that helped expose the threat, but
19 the exposure also showed some glaring weaknesses in
20 our regulation of prescription drug wholesalers.

21 A statewide grand jury report was very
22 direct in its criticism, but also quite helpful in

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1 recommendations for improvement.

2 In the spring of 2003, the legislature
3 amended the Florida Drug and Cosmetic Act. This was a
4 massive rewrite of many sections of the law regulating
5 the wholesale distribution of prescription drugs. I
6 think it is fair to say that it was challenging. Dr.
7 Agwunobi gave you a few comments this morning about
8 that.

9 But in the end the stakeholders came to
10 agreement on many issues, and Governor Bush signed
11 the bill into law. Some of the highlights include
12 phased implementation. The amendments also provided
13 for nearly immediate Pedigree paper requirements for a
14 specified list of problematic drugs. This gave
15 statutory authority to a regulation the department had
16 been developing.

17 The bill also provided a definition for
18 authorized distributor of record, although the
19 definition was quite complex. The amendments provided
20 for Pedigree papers for all prescription drugs by July
21 1st, 2006. Probably not as well known, the amendments
22 strengthened other provisions of the act as well.

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1 The bar was significantly raised with new
2 requirements for those wanting to become permitted or
3 remain permitted as in state or out of state
4 prescription drug wholesalers. I think it is
5 important to note that permits were not grandfathered
6 in with these new enhanced requirements. In fact, the
7 existing two-year renewals were shortened to one year
8 to expose all permits to these new regulations sooner.

9 A surety bond the department holds during
10 and for a time after permit relinquishment was
11 increased from \$200 to \$100,000.

12 The amendments also required each
13 establishment to designate a management person
14 responsible to the state for the permit. These
15 individuals are called certified designated
16 representatives or CDRs in our law.

17 These individuals are required to pass a
18 rigorous examination on their responsibilities under
19 the act. The phase-in for this part of the act was
20 concluded in August of 2005. An early high failure
21 rate has changed to a much better passing rate as
22 individuals gained a better understanding of what was

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1 expected of them as CDRs. A better understanding of
2 the requirements of the act may help an establishment
3 prevent the unwitting introduction of a counterfeit
4 product into their inventory. These requirements
5 apply to out-of-state prescription drug wholesalers
6 that are licensed with us, as well as in-state
7 wholesalers.

8 The amendments to the act also provided
9 disincentives to those that would recklessly put their
10 greed above the public expectation for a safe drug
11 supply. As you can see, our amended act includes new
12 and significant criminal penalties. The failure to
13 deliver or acquire Pedigree papers where required may
14 be a third degree felony.

15 The knowing delivery of contraband drugs
16 may be a second degree felony and the knowing delivery
17 of a contraband drug that leads to great body harm may
18 be a first degree felony.

19 Of course, the most significant and most
20 discussed provisions of the amendments are Pedigree
21 paper requirements. As I mentioned earlier, the
22 amendments provided for a three-year phase-in for

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1 Pedigree papers. The legislature gave the department
2 the authority to require pedigree papers immediately
3 for a select group of products that a broad based
4 advisory committee felt had the highest potential for
5 product integrity issues.

6 This is our specified drug list, and it
7 currently includes 34 products. The advisory
8 committee is administratively housed within the
9 Department of Health, and its members are appointed by
10 the Secretary of Health.

11 Pedigrees were also required for
12 transactions between wholesalers where the supplier
13 wholesaler was not an authorized distributor of
14 record. The problem with this practice, known as the
15 status quo, was that an ADR buying from a wholesaler
16 that is not an ADR and then reshipping to its
17 customers was not required to supply the Pedigree that
18 it had received to their new customers. This
19 effectively washed the Pedigree.

20 The pre-July 2006 section does not require
21 that a Pedigree be supplied to a pharmacy or a
22 practitioner. Beginning July 1st, 2006, a Pedigree

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1 starting with the first wholesaler and including each
2 wholesale transaction must be supplied to the end user
3 pharmacy or practitioner for all human drugs, human
4 prescription drugs.

5 Prescription drug manufacturers are not
6 required to supply the Pedigree document when selling
7 their products, but the first wholesaler will prepare
8 the initial Pedigree, including the information on
9 their transaction with the manufacturer. The ex-
10 authentication requirements may require the most
11 resources of wholesalers. Each wholesaler party to a
12 transaction must authenticate each prior transaction
13 on the pedigree before accepting the product into
14 inventory.

15 The proliferation of fraudulent Pedigrees
16 renders a Pedigree almost useless unless it has been
17 authenticated. Department rules list several
18 acceptable methods of authenticating Pedigrees. These
19 methods include receipt of a copy of original invoice
20 or packing slip for the transaction, the telephone
21 communication with the seller, an E-mail communication
22 with the seller or a verifying E-mail communication

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1 with the seller, and also verification through a
2 secure Web-based system.

3 Pharmacies and practitioners are not
4 required to authenticate the Pedigrees that they
5 receive, and that's under the 2006 requirement.

6 Clearly, the desire to supply authentic
7 products has led some wholesalers to shun the
8 secondary market and to buy only from the
9 manufacturer. Our requirements may have hastened
10 those actions.

11 Some pharmacy chains now require products
12 purchased directly from the manufacturer. As I stated
13 earlier, some of the more naive among us thought that
14 was happening in the first place.

15 The message that I would like to leave
16 with you is that our amendments have tried to approach
17 the threat to drug product integrity from three
18 directions. We want to make sure those doing business
19 in Florida are knowledgeable and accountable. We want
20 to make sure that there are appropriate penalties in
21 place to discourage unlawful behavior, and we want
22 Pedigreed papers to help increase confidence that

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1 wholesalers, regulators, and consumers have in our
2 prescription drug integrity.

3 The prescription drug wholesaling climate
4 in Florida has certainly changed in the last three
5 years. We've gone from about 500 in-state
6 prescription drug wholesalers to about 200
7 prescription drug wholesalers, but that is still a
8 large number when you consider the number of
9 pharmacies and practitioners in our state. And also,
10 we haven't noticed disruptions in our drug supply.

11 I think that time will tell that the
12 leaders, such as Dr. Agwunobi, have made wise and
13 appropriate decisions as we move forward with these
14 amendments to our drug law.

15 Thank you.

16 (Applause.)

17 MS. GLAVIN: Thank you very much.

18 For the task force members, I remind you
19 that Judi Nurse is still with us by phone. So if you
20 have questions that you want to target to her, please
21 feel free to do so.

22 Bill.

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1 MR. McCONAGHA: I was actually going to
2 target this to Ms. Wall, if that's okay.

3 MS. GLAVIN: That's absolutely fine.

4 MR. McCONAGHA: Thank you for your
5 presentation.

6 You discussed how under the new Indiana
7 law the pedigrees would be required for drugs that
8 are outside the normal chain of distribution. Could
9 you just please define for me how you define a normal
10 chain of distribution and explain the rationale behind
11 drawing that distinction as a regulatory matter.

12 DR. WALL: The normal chain of
13 distribution really came from the thought of how
14 should a drug really travel through the drug system.
15 I guess John said it best when he was talking about
16 how we all assume that it goes from the manufacturer,
17 wholesaler, to the pharmacy and why does it need a lot
18 of other detours.

19 What we did was we sat down with all the
20 various stakeholders and we looked at what were the
21 most important parts, and that was basically the
22 manufacturer. I think most complicated was the

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1 manufacturer to the logistics provider, to the ADR, to
2 the chain drug store down to the pharmacy or to the
3 hospital or to the patient, whichever way it goes.

4 But we wanted to basically straighten out
5 a lot of detours that drugs would have to take. It's
6 like why not give them the most direct path, and
7 that's the basic thought process behind the normal
8 chain of distribution.

9 But, again, this is what we consider as a
10 bridge method until we can get the pure Pedigrees, and
11 that's what we really want.

12 MR. McCONAGHA: If I can follow up on
13 that, I understand that with both you and Mr. Taylor,
14 that both of your laws defined authorized distributor
15 of record or ADR, and albeit as Mr. Taylor described
16 it in Florida, certainly it was kind of an interim
17 provision until there's a universal Pedigree
18 requirement.

19 How did you go about defining ADR? And
20 what feedback, if any, did you get from the secondary
21 wholesaler community on the significance of that
22 definition?

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1 MR. TAYLOR: Although I did not play a
2 role in it, I believe I can summarize that. As Dr.
3 Agwunobi mentioned this morning, many stakeholders
4 were brought into the process. There was a wholesale
5 advisory committee prior to the enactment of the law
6 that brought these folks in, and they played a role.
7 As I said, it's a complex definition, but it's because
8 all of those types of issues were considered.

9 DR. WALL: And basically we looked at
10 NABP's model regs. at that point, which I believe had
11 defined the ADR, and as we also sat down in
12 discussions and we looked at what is it -- at what
13 point do you push somebody over the edge that you
14 really say that they are an ADR or they have an
15 exclusive contract. So that's why we put in a little
16 bit about pricing into it, but most of it is based on
17 the model regs. and the follow-up from Florida's
18 legislation.

19 MS. GLAVIN: Randy is reminding me that he
20 and I made an agreement during the break that we would
21 revert to the United Nations protocol, which in this
22 case means if you have a question you want to ask or

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1 if you're on the panel and you want to respond to one
2 of the questions, if you would turn your name tag
3 vertically rather than horizontally, it means that I
4 don't miss people and I can keep track of how many
5 people we have.

6 (Laughter.)

7 MS. GLAVIN: Well, Judi is going to have
8 to just holler over the phone sine I can't see her
9 placard. I'm sure she is sitting with a name placard
10 in front of her though.

11 Having said that, Randy, you were the
12 first one to do it. So you get the next question.

13 DR. LUTTER: Thank you.

14 This question is for Judi Nurse. Can you
15 hear me?

16 DR. NURSE: Yes.

17 DR. LUTTER: You said that you supported a
18 mandate that each state develop and implement an
19 electronic Pedigree for prescription drugs. You also
20 said that you do not want 50 states with 50 Pedigree
21 standards, presumably 50 different Pedigree standards.

22 Thus, I think either, to interpret your

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1 statements, either you believe there should be federal
2 standards, in other words, unique federal standards
3 adopted by all 50 states, or there should be a federal
4 standard that the federal government itself mandates.

5 And my question is whether the latter
6 would be -- wouldn't the former be significantly more
7 complicated because it's a two-step action where we
8 would mandate standards, actually identify standards
9 and then mandate that the states all adopt the same
10 standard so as to avoid the problem of the different
11 states having multiple standards?

12 Thank you.

13 DR. NURSE: I don't know if I have the
14 answer to your question, I apologize. Federal
15 standards? We don't want 50 different standards, and
16 my meaning is that I don't want it to become so
17 federal that the states can't regulate it.

18 What was an issue with the original PDMA
19 is that some of the provisions were federal provisions
20 which meant that a lot of the enforcement had to be
21 done by federal agencies, and it was difficult for
22 states to do any enforcement, and we just need enough

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1 authority left with the states so that we can do our
2 own Pedigree enforcement.

3 The FDA can't possibly investigate every
4 Pedigree violation, and what currently happens is that
5 the FDA can only take on very large investigations,
6 and they tend to be very long to investigate and
7 adjudicate.

8 Like I said, the system just needs to be
9 devised so that the states can regulate their
10 Pedigrees within their states.

11 Does that make any sense at all?

12 DR. LUTTER: So your key point is that the
13 enforcement responsibilities should continue to reside
14 to a substantial degree with the states, but that the
15 standard setting should be predominantly federal?

16 DR. NURSE: Well, I would prefer one
17 standard that everyone can work towards. That would
18 be my preference. Obviously all of the stakeholders
19 need to have input to that standard, but I think
20 everyone has spoken, I think, for the last two days
21 saying we need one standard here, not 50 standards.

22 And all I'm saying is we want to retain

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1 some enforcement capabilities.

2 DR. LUTTER: Thank you.

3 MS. GLAVIN: Okay. I'm going to do Steve
4 and then Deb and then Terry. So Steve.

5 MR. NIEDELMAN: Thank you, Maggie.

6 And this question is for Donna Wall.
7 Again, thank you for your presentation.

8 You indicated as you were going through
9 your process in Indiana that various confidentiality
10 issues had arisen and you dealt with them. What were
11 they and how did you deal with them?

12 DR. WALL: The biggest confidentiality was
13 that the various wholesalers or those who were going
14 through the accreditation process would have
15 proprietary information leaked or it would become
16 public knowledge. That was not ever the purpose
17 behind this. So we worked with NABP, and it is within
18 their agreement with us and also the agreement that
19 they signed or the wholesaler signs with them that
20 they will keep that information confidential. It is
21 not to ever come out of the process. It's mostly
22 proprietary and financial.

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1 MR. NIEDELMAN: Thank you.

2 MS. GLAVIN: Deb.

3 MS. AUTOR: Thanks, Maggie.

4 This question is for Mr. Taylor and Ms.
5 Wall, and the question is Ms. Nurse addressed, I
6 think, pretty extensively the role that she would like
7 to see for FDA here with respect to Pedigree
8 requirements, and I think you heard that, but she
9 talked about, as we said, federal standards while
10 retaining state enforcement.

11 Do you agree with that or, if not, what
12 role do you see for FDA in Pedigree issues at this
13 point? What would you like to see FDA do, if
14 anything?

15 MR. TAYLOR: I am not a policy maker in
16 Florida, and so I'm not really prepared to address
17 that. Certainly somebody had to take a first step,
18 and I think our state has done that, and we're moving
19 forward. We'd like to see, you know, uniform
20 requirements obviously across the country, but I'm
21 really not in a position to say what the state would
22 like FDA to do at this point.

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1 MS. AUTOR: Thank you.

2 DR. WALL: I agree with Judi and her
3 comments. I think that we do need a standard set, and
4 I would like to see you guys put down a date. Just
5 give us a date. Let's start the process and lets move
6 it forward to take care of the patients, and then work
7 with the states. Work together with both of us so
8 that we can work on the enforcement piece and make
9 sure that we don't have anything falling through the
10 cracks.

11 MS. AUTOR: Thank you.

12 MS. GLAVIN: Terry.

13 MR. VERMILLION: Yes, I'd certainly like
14 to applaud all of your states' efforts, and I must
15 admit from my office, the Office of Criminal
16 Investigations, I'm very envious.

17 I was curious, Mr. Taylor. When you were
18 talking about the selection of your phase-in of drugs
19 to require a Pedigree, I believe you said there were
20 34 currently on the books. Were there 34 when you
21 started out? Have you added on?

22 And secondly, do you have the ability to

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1 rapidly add another one on if a drug emerges as a drug
2 that comes on your radar for a counterfeit?

3 MR. TAYLOR: I believe that there were 29
4 drugs on the first list that was adopted into rule,
5 and they have been added in ones and twos and threes
6 to the point that we're at 34 now.

7 Also, I believe there is produced -- and
8 that goes through a committee process, and there are
9 set criteria for the selection, parameters for the
10 selection for a drug to be added, but I do believe
11 there is the opportunity for the state's Attorney
12 General to make a recommendation for an emergency
13 addition to the drug, sir.

14 MR. VERMILLION: And one other thing. I
15 address this to all three of you. After you're
16 enhanced your criminal penalties for these different
17 violations, now that you've had time to actually
18 exercise these penalties, do you have a process? Is
19 there a periodic process to go back to the folks that
20 are using those penalties and find out is it working;
21 do they need adjustment; do they need some enhancement
22 modification?

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1 DR. WALL: All I can speak to from the
2 Indiana perspective is we're so new in this process we
3 haven't gotten that far. We've had a couple of
4 questions bounce back and forth, but I don't have that
5 process down in place, but we will work on that.

6 MR. TAYLOR: I'm not sure whether the
7 criminal penalties have been applied to date in our
8 state, but certainly the Attorney General in our state
9 is a stakeholder and involved in it. In fact, the
10 Attorney General has a representative here at this
11 meeting following the discussions here today.

12 MS. GLAVIN: Judi Nurse, would you answer
13 that question also if you could, please?

14 DR. NURSE: Yes, I would agree. We're
15 just implementing and we haven't gotten to that point
16 either.

17 MR. VERMILLION: Thank you.

18 MS. GLAVIN: Bill, did you have another
19 question?

20 MR. McCONAGHA: Thank you, Maggie.

21 I actually have a couple, but I'll begin
22 with one. I would just address this to all of you,

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1 and maybe Ms. Nurse can answer first because she's on
2 the phone and then I can hear from you, and actually I
3 think Ms. Nurse covered this in her presentation, but
4 I'd be interested in hearing a bit more.

5 I've heard from all three of you now that
6 there's an interest in having some federal leadership
7 in setting standards, and that begs the question
8 exactly what kind of standards you think ought to be
9 set.

10 It seems to me there are any number of
11 variables in this equation. You know, issues like
12 what's the definition of an ADR, who's required to
13 pass a Pedigree, what fields of information should be
14 on that Pedigree, whether there should be a universal
15 Pedigree requirement.

16 And when you speak of a desire for federal
17 standards, exactly what are you seeking there? And on
18 the flip side, where would you, for lack of a better
19 term, prefer the government not to intervene?

20 DR. NURSE: Okay. Let's see. I think I
21 listed, you know, my preferences just in terms of
22 mandating a Pedigree by each state, and definitely a

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1 list of standard Pedigree requirements. As I said,
2 the area that I'm most concerned is that we can retain
3 an enforcement capability, and we are very interested
4 in the manufacturer generating the Pedigree. And that
5 would be, you know, a national standard.

6 And, again, mandating or guiding how all
7 of this data is cared for and assessed and privacy
8 regarding the data and also mandating that all of the
9 data be usable between all of the parties. In other
10 words, if we have every state with a pedigree system,
11 then that all needs to be, you know, usable between
12 states. The only way this system works is if all
13 states are participating and if all of the data is
14 usable, you know, by everyone else.

15 MR. McCONAGHA: Just to follow up on that,
16 I take it -- and correct me if I'm wrong -- that the
17 state would still like to retain the prerogative to be
18 able to define exactly who has to pass a Pedigree in
19 any given situation, be it a universal requirement or
20 some such other requirement."

21 DR. NURSE: Well, I think at this point we
22 start out with that, and we probably would want to

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1 retain that, but at some point in the future if things
2 were, you know, to develop so that this was such an
3 integrated system that something like that could be
4 looked at, that might be something for the future.

5 MR. McCONAGHA: Okay. Thank you.

6 Do either of you have thoughts on this
7 issue?

8 DR. WALL: When I look at the standards, I
9 agree with Judi. I think we do need the one Pedigree,
10 and I think that that is something as we've just seen
11 in the conversation in the last few days that people
12 have different visions of when that should happen, but
13 I think that the FDA should take the leadership role.

14 It should set that standard so that we all know what
15 we need to go to.

16 I think that there are things that can be
17 done in the meantime. There are various other parts
18 to this counterfeit process, and one of them that I
19 want to throw back is the VAWD accreditation. When
20 you look at it, one of the pieces is we want to make
21 sure that we've got the right people who are playing,
22 who are taking care of the drugs within our country.

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1 If the FDA were to endorse it like they have the VIPPS
2 system and said this is the standards that we think
3 that wholesalers should operate by, I think that that
4 would make a difference and you could do that in a
5 very short period of time.

6 But for general standards and for
7 transported drugs across the states, we've got to have
8 the consistency among them just for any point of
9 information and to be able to get the drugs across.

10 MR. TAYLOR: I think the area where we're
11 most likely to diverge is in the area of authorized
12 distributors of record. Obviously, our leaders have
13 determined that that system doesn't work very well,
14 and in fact, it won't be in place in our state in
15 July.

16 There are problems that have been
17 mentioned several times this morning with that type of
18 thing, and so that's obviously a place where we may be
19 different than the rest.

20 MS. GLAVIN: I think I have -- is this a
21 follow-up?

22 DR. BERNSTEIN: It is a follow-up.

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1 MS. GLAVIN: It's a little bit of a cheat,
2 but we'll let you do it.

3 DR. BERNSTEIN: Is that all right? Okay.
4 Thanks.

5 It's kind of a two-part question, but one,
6 for your states are the Pedigree requirements mandated
7 or defined by you?

8 And in addition, yesterday we heard from
9 the e-Pedigree standards group that they've come up
10 with a format and are looking at specific standards to
11 include. Have you looked at that? And do those match
12 up with Pedigree requirements that you all have in
13 your states?

14 DR. WALL: I haven't looked at their
15 standards. When we did this, it was last June, and
16 basically all of the stakeholders sat in a room and we
17 talked about which way we needed to go. So it is
18 under regulation. We have some flexibility to change
19 what is actually within the Pedigree, which it is
20 really done that way on purpose so that we can see
21 what kind of national standards come through and what
22 is the best way to track and trace that drug.

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1 MR. TAYLOR: Does your question relate to
2 the form or the format of the Pedigree itself?

3 DR. BERNSTEIN: No, the specific
4 information in the Pedigree.

5 MR. TAYLOR: Our statute does give a
6 specific list of elements that are required in it.

7 MS. GLAVIN: Okay. We have time for two
8 more questions. So Deb and then Jeff.

9 MS. AUTOR: Okay. Well, I'm going to
10 cheat a little bit because mine is a two-part
11 question, but I think it's short, and this is
12 addressed to all of the panelists.

13 First of all, does your Pedigree law at
14 all affect active pharmaceutical ingredients?

15 And secondly, given that repackaging
16 operations have been identified at times as a source
17 for entry of counterfeit drugs into the drug
18 distribution scheme, does your state law address this
19 in any way?

20 MR. TAYLOR: Our state does require that a
21 repackager basically follow the same requirements as a
22 wholesaler.

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1 DR. WALL: Our follows the Florida rule,
2 is that they are considered wholesalers. And I forgot
3 your first question.

4 MS. AUTOR: It had to do with APIs, active
5 pharmaceutical ingredients.

6 DR. WALL: All the law states is in drugs.

7 MS. AUTOR: So that if a repackager, once
8 they entered a drug into the distribution scheme could
9 give a Pedigree from that point to the point of
10 consumption, and that would comply with the law even
11 though the drug itself could be a counterfeit with a
12 valid Pedigree; is that right?

13 DR. WALL: I'm confused. Yes, I guess
14 they could. If a counterfeiter is making the drug and
15 they sell it to the repackager, and you would be
16 starting right there with the Pedigree, you could get
17 a falsified Pedigree.

18 MS. AUTOR: Okay.

19 MR. TAYLOR: I'm not sure how we handle
20 APIs to be honest with you. I'd have to check.

21 MS. AUTOR: Okay. Ms. Nurse, any comments
22 on this?

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1 DR. NURSE: Within our system, if I
2 understand the question correctly, you're asking about
3 repackaging, and in our system the Pedigree would need
4 to go to the original manufacturer. So go back to the
5 original manufacturer so when a repackager does their
6 repackaging, the Pedigree, yes, they have to generate
7 a Pedigree because they might be changing NDC numbers
8 or they might be changing vital information, but that
9 needs to be linked back to the manufacturer. We don't
10 start a new Pedigree at the repackager level.

11 And in the State of California,
12 repackers are actually not regulated by our agency,
13 but by our Department of Health Services.

14 And then the second part of your question
15 was about entry of counterfeits into the system. I
16 could barely hear the question.

17 MS. AUTOR: The second part was about
18 active pharmaceutical ingredients, whether your law
19 affects those at all, just APIs or active ingredients
20 used to make finished pharmaceuticals. I think the
21 answer is no, but I just wanted to check on that.

22 DR. NURSE: Oh, no.

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1 MS. AUTOR: Thank you.

2 MS. GLAVIN: Okay. Jeff.

3 DR. SHUREN: Thank you.

4 First, I just want to echo Terry's
5 sentiments and really applaud all of you and your
6 states for taking the threat of counterfeit drugs very
7 seriously. I, again, do applaud you.

8 What I want to explore a little bit is who
9 actually falls under Pedigree. Who is required to
10 actually pass Pedigree and who is required to
11 authenticate?

12 And the three states actually do it a
13 little bit differently. So, for example, in Florida
14 there's no ADR. It's all wholesalers, but on the flip
15 side, manufacturers and retailers are sort of
16 excluded. You don't have the bookend approach and
17 certainly retailers aren't required to authenticate.

18 We heard from California that it's very
19 important that it be the manufacturer who creates a
20 Pedigree. So I'd like to hear from all of you
21 regarding your systems just kind of why you put in the
22 systems you did in terms of who's required to pass

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1 Pedigree, who's required to authenticate.

2 And then if you want to speak either on
3 the record or personally whether you would kind of
4 agree with that approach or would see it a little bit
5 differently.

6 MR. TAYLOR: Well, again, our law on July
7 1st includes every wholesaler for the Pedigree. The
8 manufacturer specifically by the statute is not
9 required to supply that, but the first wholesaler is
10 required, and then it goes all the way to the pharmacy
11 or practitioner.

12 The difference at the end is those
13 individuals are not required to authenticate the
14 Pedigree, but each --

15 DR. SHUREN: Oh, no, I understand the
16 requirements. I'm just trying to better understand
17 why that particular scheme was adopted, why the
18 manufacturer not included to actually create the
19 Pedigree, why the pharmacy not required to
20 authenticate.

21 MR. TAYLOR: Well, I can't answer those.
22 I'm not sure. I wasn't involved in those discussions,

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1 sir.

2 DR. WALL: The process was actually
3 created by all of the stakeholders, and it was called
4 compromise. It was the best thing that we could do at
5 the time to get it passed and to try to get a start on
6 this process, and this was what we wound up with. And
7 it's basically Pedigree would start with the
8 wholesaler or exempt from the Pedigree would be the
9 manufacturer, the ADR to a chain drug store, to a
10 pharmacy or the third party logistics provider.

11 But in all honesty, it was the compromise.

12 Is it the ideal system? No, it's not the ideal
13 system. The ideal system will be a Pedigree from
14 start to the end of the process so that anyone along
15 that line knows where it has come from, who has had
16 it, and where it has been.

17 MR. TAYLOR: If I could just add a little
18 bit to mine, you heard Dr. Agwunobi this morning talk
19 about bringing the stakeholders in, and obviously
20 those were factors that shape what the law ended up
21 being.

22 DR. SHUREN: Judi, are you still there?

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1 DR. NURSE: Yes, I am. I can barely hear.
2 So I apologize if I have not responded appropriately.

3 We have the Pedigree starting with the
4 manufacturer because we feel that that's sort of the
5 beginning of the process, and if we go in to look at a
6 Pedigree, if a wholesaler says to you, "I'm the first
7 wholesaler and I'm generating the Pedigree," then the
8 first thing we have to do would be investigate that
9 and go back to the manufacturer.

10 So if we have the Pedigree starting with
11 the manufacturer, that seems like the most appropriate
12 starting point. Who has to pass a Pedigree is
13 whenever ownership changes of the product, and so a
14 manufacturer would create the Pedigree. It would then
15 be passed to a wholesaler and then passed to various
16 wholesalers until it passes to the pharmacy or a
17 prescriber or what we would term to the prescriber or
18 a pharmacy.

19 We have certification, and the entity that
20 -- I would use the term loosely -- the entity that's
21 selling the product in a particular transaction is the
22 one that has to certify the document.

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1 Also, when it gets to the pharmacy level,
2 if pharmacies return drugs or if pharmacies were to
3 wholesale drugs, then that would be a step on the
4 Pedigree also.

5 MS. GLAVIN: All right. I want to thank
6 this panel for their good presentations and good
7 answers to the probing questions. Thank you.

8 (Applause.)

9 MS. GLAVIN: I have a couple of small
10 announcements. One, we will reconvene at 1:30.

11 DR. NURSE: Thank you very much for your
12 help.

13 MS. GLAVIN: Thank you.

14 Secondly, if you plan to speak at the open
15 mic, you must be registered to do so. You must sign
16 up to do so at the registration desk, and we will be
17 closing that sign-up at 12:30. So if you plan to
18 speak at the open mic between now and 12:30, you need
19 to get your name on that list.

20 Thank you.

21 (Whereupon, at 12:17 p.m., the meeting was
22 recessed for lunch, to reconvene at 1:30 p.m.)

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1 think we know things and understand everything, we
2 certainly don't. We're learning all the time in
3 forums such as this, giving an opportunity for
4 everyone involved in this very important issue to
5 learn from each other.

6 Good afternoon. I am Scott Melville. I'm
7 the Senior Vice President of Government Affairs at
8 HDMA, the Healthcare Distribution Management
9 Association.

10 We represent, as I think has been
11 previously mentioned by John Gray, our president, and
12 Lisa Clowers, our Senior Vice President, we represent
13 the nation's primary health care distributors, the
14 full service health care distributors. And on any
15 given day, our members will deliver roughly seven
16 million prescription drug products to about 142,000
17 dispensing locations in all 50 states and U.S.
18 territories.

19 The nation's pharmaceutical distribution
20 system provides a ready, reliable source of
21 medications for patients when they need them most in
22 times of sickness and in need. And HDMA members

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1 provide this function with really little public
2 recognition or visibility, and they do so at great
3 savings to the health care system.

4 There's no greater concern among our
5 members than the security of the prescription drug
6 supply chain. In the nearly two decades since
7 Congress first enacted PDMA, major changes to the
8 pharmaceutical supply chain have taken place. Yet the
9 threat of counterfeit drugs remains.

10 Manufacturers, distributors, and
11 pharmacies must remain vigilant in their effort to
12 address this increasingly sophisticated criminal
13 threat and must continually implement new systems and
14 processes to defeat it.

15 HDMA and its member companies have been at
16 the forefront of the nation's efforts to address the
17 threat of counterfeit drugs, and as John Gray said,
18 there's no single solution to this threat. Rather, we
19 view it really as a threefold strategy.

20 One, certainly and really the purpose of
21 this meeting here today, in part, strict regulation
22 and enforcement. We absolutely support that. It's

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1 critical.

2 Number two, the other purpose of this
3 meeting, adoption of new technologies, absolutely
4 essential.

5 And three, adoption of best business
6 practices and processes.

7 Now, let's talk a little bit about the
8 PDMA and HDMA's position on the PDMA. First, I want
9 to say that HDMA supports implementation of the 1999
10 final PDMA rule in tandem with necessary revisions to
11 reflect the 2006 marketplace. We believe improvements
12 and clarifications can be made to insure the continued
13 safe and effective and efficient distribution of
14 prescription drugs to all consumers.

15 This could be achieved either through
16 clarifications to the rules itself or through other
17 administrative action.

18 Second, HDMA recognizes that FDA and state
19 authorities must faithfully implement the law as
20 established by the governing PDMA statute. While we
21 believe the PDMA statute was a necessary and effective
22 first step for Congress to take in the 1980s, current

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1 circumstances in our opinion require a fresh look.

2 In particular, HDMA is calling for the law
3 to be amended to provide for uniform federal licensing
4 of pharmaceutical distributors.

5 With regard to the final PDMA rule, since
6 the enactment of the law and the promulgation of the
7 final rule, the marketplace has gone through a
8 tremendous change. There's been an explosion of new
9 biotechnology products, new generic products, new
10 companies, new manufacturers.

11 Simultaneously there's been a revolution
12 in health care delivery. There are more and more
13 sites of medicine and dispensing and patient care that
14 are serviced by our members on any given day. As I
15 mentioned earlier, about 142,000 sites.

16 These changes have made the distribution
17 system significantly more complex and require
18 regulatory precision to maintain a continued efficient
19 flow of necessary products to these facilities and the
20 patients who depend upon them.

21 HDMA believes PDMA's rule should be
22 enhanced to address the realities of today's complex

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1 health care system, and let me emphasize first
2 something really that quite frankly I don't believe
3 has been emphasized enough either at this hearing or
4 in previous discussions on this matter, but we believe
5 that first and foremost the single most effective and
6 immediate step that regulators and states can take to
7 address the threat of counterfeit drugs is to insure
8 that there are uniform, tough licensing standards
9 applied to manufacturers, distributors and pharmacies.

10 It's essential to insure that criminals never receive
11 a license to handle pharmaceutical products in the
12 first place.

13 Unfortunately, we know that there were
14 situations earlier in this decade where that happened,
15 and so we are very supportive of stronger, stricter
16 licensing. HDMA recommends strengthening FDA minimum
17 standards for the licensure of distributors to
18 incorporate many of the elements that are included in
19 HDMA's model state legislation and which have been
20 adopted by many states, such as Indiana, Florida, and
21 California.

22 We commend those three states for moving

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1 forward in this area and for enacting tougher
2 standards for licensing. These include, as it was
3 mentioned this morning, mandatory criminal checks,
4 financial background checks, a physical inspection
5 prior to the issuance of a distribution license.

6 This may surprise people, but that isn't
7 always done or hasn't always been done, and we know
8 for a fact that that's an essential requirement if you
9 want to tighten up the supply chain.

10 We also believe that regulation must
11 recognize -- I mentioned tougher criminal penalties
12 as well, and that's certainly a key element of our
13 state model bill and something we strongly support.

14 Regulation must also recognize, however,
15 new manufacturing and distribution models.
16 Increasingly products are being manufactured,
17 delivered and dispensed in ways that were not
18 contemplated or widely adopted at the time of PDMA
19 enactment. These include greater outsourcing of
20 manufacturing by products; use of third party
21 logistics providers, three PLs; higher manufacturer
22 minimum order standards that might impact smaller

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1 distributors who don't do the volume; use of an
2 exclusive or semi-exclusive distributor to provide
3 product on behalf of a manufacturer necessitating some
4 trade between distributors; drop-shipping of products
5 from the manufacturer to the pharmacy customer.
6 Though the distributor owns the product technically
7 they may never physically take possession of that
8 product.

9 And more recently widespread adoption of
10 inventory management agreements between manufacturers
11 and distributors that reduce the amount of the
12 inventory in the supply chain and create a virtual
13 "just in time" inventory.

14 A recent example illustrates this problem.

15 A large manufacturer recently notified many
16 distributors, many of whom are members, but wouldn't
17 sell to them because they didn't purchase enough
18 product to meet the manufacturer's annual product
19 sales buying requirements. As a result, those
20 distributors, many of whom have distributed this
21 company's products for many years, will now have to
22 buy that company's products from another distributor

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1 or risk not meeting their customer needs.

2 Just a real world example of something
3 that happened just in the last week or two that is
4 obviously something that I think FDA and state
5 regulatory authorities need to keep in mind as they
6 regulate in this area.

7 Any implementation of the PDMA final rule
8 must address these current and emerging pharmaceutical
9 supply chain realities. As we've just illustrated, a
10 manufacturer designated authorized distributor of
11 record for nearly or can be an ADR for nearly all of
12 the manufacturer's products or all of the
13 manufacturer's products, but that can change. Again,
14 that's why we think it's very imperative to be careful
15 and understanding the definition of an ADR and the
16 intent of ADR, quite frankly, when Congress passed it
17 in 1988.

18 As far as the Pedigree requirements, and
19 this was something that was discussed, I think, in the
20 last panel, certainly there are issues as to who is an
21 ADR, and tied to that is when then should a Pedigree
22 be required to be passed and what should be the

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1 elements within that Pedigree.

2 We've had a lot of talk over the last
3 couple of days about, you know, what are the effective
4 elements to include and can it be produced in an e-
5 Pedigree. Obviously this industry is strongly
6 supportive of serialization of product; that until you
7 get to serialization you will never know for sure
8 where a particular product unit has been, and that is
9 certainly the goal, the goal that we strongly support.

10 Basing tracking on a lot number can be
11 instructive, particularly in recall purposes, but
12 certainly will not tell you where that particular lot
13 has been, given that there are many units, identical
14 lot numbers.

15 And transaction history, this has been a
16 big issue, I know, in the past, being able to tie a
17 Pedigree back to the manufacturer, and I wish I had a
18 simple answer for you for this. There is not a simple
19 answer for this, but what I think we hope is that with
20 an electronic Pedigree certainly and RFID primarily,
21 that that can be done very easily electronically and
22 effectively. So that's certainly the goal, and why

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1 HDMA supports moving in that direction.

2 Finally, the second message we'd like to
3 deliver is that while we hope FDA is willing to
4 consider some of these recommendations to strengthen
5 and clarify the final rule, we also believe the time
6 has come to revise the PDMA statute. We believe that
7 in an era of increasingly sophisticated domestic and
8 international threats to the nation's prescription
9 drug supply, HDMA believes the current state-by-state
10 licensing structure simply cannot provide the
11 consistent and uniform regulation of pharmaceutical
12 distribution necessary to further secure the supply
13 chain.

14 I think it's something we've heard
15 throughout the day and even from the states themselves
16 who have asked for uniformity here and whether it's a
17 license or it's simply federal uniform standards, we
18 certainly want to discuss this with all of the
19 stakeholders and encourage uniformity across the
20 supply chain.

21 So in conclusion, HDMA commends the Food
22 and Drug Administration for conducting this public

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1 workshop. We appreciate the opportunity to provide
2 our perspective, and we look forward to answering any
3 questions during the Q&A session.

4 Thank you.

5 (Applause.)

6 DR. LUTTER: Thank you very much.

7 Our next speaker is Kevin Nicholson from
8 the National Association of Chain Drug Stores.

9 MR. NICHOLSON: Thank you.

10 Good afternoon, and thank you for inviting
11 me to speak today about the PDMA and reducing the
12 chance that counterfeit products could enter the
13 pharmaceutical supply chain.

14 I'm Kevin Nicholson, Vice President of
15 Pharmacy Regulatory Affairs for the National
16 Association of Chain Drug Stores.

17 I'm going to start out by saying that
18 NACDS and our members are deeply concerned about
19 insuring that our patients receive safe and effective
20 medication. We are working diligently to reduce the
21 possibility that one of our patients would possibly
22 receive a counterfeit product.

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1 NACDS, for those of you who aren't
2 familiar with us, we represent the nation's leading
3 retail chain pharmacies and suppliers. Our members
4 operate more than 35,000 pharmacies, employ 108,000
5 pharmacists, fill more than 2.3 billion prescriptions
6 annually. Also, our members include suppliers of
7 products and services to the chain pharmacy industry.

8 From the discussions yesterday and today,
9 I think we all agree that there is no magic bullet to
10 address the counterfeit drug problem and that we need
11 a phased in approach. We need affordable solutions
12 that will work and that won't unnecessarily disrupt
13 the delivery of medication to patients.

14 I won't spend too much time going over the
15 background of the PDMA, as Mr. McConagha provided that
16 for us earlier today, and in the interest of time I
17 won't go into any of that, but I just would like to
18 point out that we would like to ask the FDA to take
19 another look at the ADR designation. We believe this
20 designation is often arbitrary and unfair in that
21 chain drug warehouses are not considered ADRs because
22 they can't meet the criteria that are developed with

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1 wholesale distributors in mind.

2 For example, a manufacturer can make a
3 wholesaler an ADR for specific products and not full
4 lines. This is not manageable for a chain drug
5 warehouse. We often can't meet the volume
6 requirements to satisfy these requirements.

7 In many cases chain drug warehouses
8 purchase and receive manufacturer products through a
9 traditional wholesaler to leverage efficiencies and
10 distribution networks. These purchasing arrangements
11 are entered into with the full knowledge of the
12 manufacturer and sometimes at the manufacturer's
13 direction.

14 The manufacturer is aware that the chain
15 drug warehouse will be distributing the product. We
16 would like to point out that patients -- and I won't
17 spend too much time on this slide either. I believe I
18 have ten minutes. Is that the -- thank you.

19 I won't spend too much time on this slide,
20 but I just want to point out that patients are far
21 more likely to experience counterfeit products through
22 the illegitimate sources rather than through the

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1 legitimate supply chain, such as foreign pharmacies
2 and Internet sites that engage in drug diversion.

3 So we would encourage FDA to address
4 counterfeit drugs from these sources as they do
5 constitute a vast majority of the counterfeit drug
6 incidence.

7 NACDS is asking FDA to continue the stay
8 of the Pedigree requirements of the PDMA. I believe
9 we all agree that paper Pedigrees are unworkable, that
10 their costs would be astronomical, and they would be
11 logistically impossible.

12 With respect to electronic Pedigrees, we
13 all understand from the discussions that we've heard
14 earlier today and yesterday that electronic Pedigrees
15 don't necessarily equal RFID, that you don't
16 necessarily need RFID to have electronic Pedigree.

17 However, we believe that requiring any
18 other technology besides RFID really would just be a
19 distraction from the goal of eventually moving to an
20 RFID system across the entire supply chain.

21 However, unfortunately, RFID technology
22 will not be implemented across the entire supply chain

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1 for many, many years to come. Yesterday we heard some
2 estimates of between three and ten years with three
3 years being for perhaps implementation for susceptible
4 products and ten years being, you know, as an estimate
5 for across the entire supply chain.

6 As for retail pharmacies, we have our own
7 unique challenges to implementing RFID, the greatest
8 of which is related to financial resources.
9 Especially many of our smaller members are being
10 challenged by the current cuts to Medicaid, one of
11 which was just signed by President Bush this morning.

12 I forget the name of the act now, but the act to
13 significantly cut Medicaid spending over the next five
14 years.

15 In addition, the Congress' proposed budget
16 for 2007 is proposing additional cuts to federal
17 reimbursement, federal upper limits for the
18 reimbursement for prescription drugs.

19 In addition, many of our members are
20 challenged in implementing the requirements for
21 Medicare Part D and are concerned about being
22 reimbursed for services provided under Medicare Part

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1 D.

2 And additionally, too, many of our members
3 have, you know, very restrictive contracts with
4 managed care and with PBMs, which basically means that
5 the end result is that retail pharmacies have a very
6 tight profit margin of about one to two percent. This
7 doesn't really allow for a lot of extra capital to be
8 expended into new technology projects. So this is
9 something that we are challenged with in implementing
10 RFID technology.

11 In fact, we question whether pharmacies,
12 besides the benefits from addressing counterfeit
13 drugs, we're not sure that pharmacies would reap the
14 benefits of RFID from an operational point of view.
15 We believe it would be unrealistic and redundant to
16 require pedigree authentication at the pharmacy level.

17 In the State of Florida they're not requiring
18 pharmacies to actually authenticate the Pedigrees they
19 receive.

20 We would like pharmacies to be able to
21 rely on the authentication being performed higher in
22 the supply chain, whether that be at the chain

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1 pharmacy warehouse or by the supplying wholesaler.

2 Despite challenges with the Pedigrees,
3 there are changes in the supply chain that have
4 greatly reduced the possibility that counterfeit drugs
5 would enter the supply chain. All members of the
6 supply chain -- I jumped ahead of myself -- all
7 members of the supply chain have taken the initiatives
8 to reduce the chance of counterfeit drugs entering
9 into the supply chain, pharmacies, wholesalers,
10 manufacturers.

11 Many pharmacies are scrutinizing their
12 suppliers. Many of the wholesalers have announced
13 that they no longer will trade within the secondary
14 wholesale market. Manufacturers have introduced
15 authentication technologies for their products and are
16 limiting the amount of their products in the supply
17 chain to reduce the chance of arbitrage.

18 In the states there has been much activity
19 to tighten the licensing requirements for wholesale
20 distributors, and we believe that the state activity
21 has gone very far in reducing the questionable
22 entities in the supply chain.

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1 Some of the state provisions we see
2 include the concept that is supported by many
3 different members, including NACDS, is the concept of
4 the normal distribution channel. This concept in
5 addition to NACDS, this concept has been adopted or
6 embraced by NABP, by PhRMA, and basically the concept
7 that we support with Pedigrees, such as in Indiana,
8 Pedigrees should not be required within the normal
9 distribution channel. The reason for this is that
10 these entities in the normal distribution channel are
11 trusted entities.

12 In addition, some of our members are
13 requiring that their wholesalers provide a statement
14 on their invoice indicating that the product was
15 purchased directly from the manufacturer so that the
16 chain pharmacy or the chain pharmacy warehouse can be
17 assured that the product is not more than one
18 transaction away from the manufacturer.

19 This is a diagram of what the normal
20 distribution chain looks like, and the strike throughs
21 are where you see that Pedigrees are not transmitted
22 or not passed.

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1 And I also would like to point out that
2 there is some similarity between this and the current
3 process where under the PDMA where manufacturers are
4 not required to pass Pedigrees. Your primary
5 wholesalers who are your ADRs are not required to pass
6 Pedigrees, and then chain pharmacy warehouses would
7 not be required to pass a Pedigree to the extent that
8 they are not engaging in wholesale distribution, that
9 they are engaging just in intercompany transfers.

10 This slide just provides a -- I won't go
11 through the whole slide, but this is a definition of
12 normal distribution channel that we would support.

13 So as I begin to wrap up my presentation,
14 we ask FDA to continue the stay on the Pedigree
15 requirements of the PDMA. However, if the FDA decides
16 not to continue the stay, we would ask FDA to consider
17 the concept of the normal distribution channel and
18 only require Pedigrees outside the normal distribution
19 channel, and additionally we ask FDA to also consider
20 the concept of the one forward, one back, which is a
21 concept that NACDS had recommended to FDA a number of
22 years ago.

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1 However, we would ask that the one
2 forward, one back concept apply to distributions
3 outside the normal distribution channel. Basically
4 how that would work is that when a Pedigree is
5 received -- I mean when a prescription drug is
6 received, the Pedigree comes with it, and then when
7 that drug is passed to the next person in the supply
8 chain, the Pedigree goes with that. But basically you
9 don't have any transactions besides those on that
10 Pedigree.

11 So if you do need to research the full
12 Pedigree, you simply assemble the different links in
13 the supply chain.

14 Additionally, we would ask FDA to consider
15 requiring Pedigrees for only products that are
16 particularly susceptible to counterfeiting, and we
17 would ask that this list be maintained by FDA.
18 Another option is to require Pedigrees only for brand
19 name drugs as generic drugs are less likely to be
20 counterfeited.

21 I just have this slide to reiterate that
22 chain drug distribution centers should only be

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1 considered wholesalers to the extent that they engage
2 in wholesale distribution.

3 Finally, we believe that appropriate roles
4 for the DEA would include working with the states to
5 attempt to harmonize the disparate state Pedigree
6 requirements. Pfizer and PhRMA have been introducing
7 Pedigree legislation in states across the country, and
8 despite the best intentions, the legislation always
9 ends up different from what we had anticipated. Just
10 that's the nature of the legislative process.

11 Also we believe it's key for FDA to remain
12 active in the standards development process to help
13 drive the industry towards standard Pedigree elements
14 and universal technology standards.

15 Thank you.

16 (Applause.)

17 DR. LUTTER: Thank you.

18 Our next speaker is Eleni Anagnostiadis.

19 MS. ANAGNOSTIADIS: Thank you so much,
20 Randy.

21 My name is Eleni Anagnostiadis, and I'm
22 Professional Affairs Director for the National

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1 Association of Boards of Pharmacy.

2 And just one quick housekeeping issue. I
3 know that the task force has been very polite over the
4 past couple of days in addressing people by their last
5 name, and I know my last name is difficult. So feel
6 free to just call me Eleni.

7 (Laughter.)

8 MS. ANAGNOSTIADIS: Just as everyone else
9 has mentioned, we want to thank the FDA and the task
10 force for inviting us to participate here today.

11 Our membership are the Boards of Pharmacy
12 in the United States, and their mission is really to
13 implement rules and regulations for the protection of
14 the public health. So we are not here to represent
15 pharmacy. We are here to represent the consumer, the
16 patient, all of all who are also patients and
17 consumers.

18 Today I'd like to talk about the
19 collaborative efforts at NABP and FDA have had over
20 the past many years, especially in addressing
21 counterfeit drugs. And I'm also going to talk about
22 some of the state legislative and regulatory

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1 activities.

2 We've been very pleased to work closely
3 with the FDA for many years on this issue. A couple
4 of years ago when you guys had the task force in 2003,
5 we ran and moved forward with all of the
6 recommendations that you had asked us to, and so a lot
7 of the things that are in this presentation, and I
8 just don't want to be redundant, the FDA is supportive
9 of those actions.

10 And I'm here to pledge again to you today
11 if there are other recommendations that come forward
12 to the Boards of Pharmacy that we can assist you with
13 in moving forward, we are happy to play that role.

14 This morning they talked a little about
15 the PDMA. I think the only thing that I'd like to
16 mention regarding this slide is that the states do
17 have the authority to license wholesale distributors,
18 and the majority of the states, in about 42 states,
19 give or take, it falls under the purview of the Boards
20 of Pharmacy.

21 There are seven or eight states in which
22 it falls under the purview of another public health

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1 agency.

2 NABP's commission to revise the model
3 rules was accelerated by the FDA's counterfeit drug
4 task force, in addition to recent counterfeit events.

5 In October 2003, NABP convened a task force on
6 counterfeit drugs and wholesale distributors and
7 subsequently, in February 2004, the model rules for
8 the licensure of wholesale distributors and the
9 national list of susceptible drug products were
10 released and fully endorsed by the FDA.

11 In response to various state activity in
12 2004, the model rules were rerevised and released
13 again in 2005. That task force had input from
14 industry stakeholders, state, federal and governmental
15 agencies. Many of those entities are in this room
16 here today. So we really did our best to get all
17 stakeholders involved in the process incoming up with
18 the new model rules.

19 It was done in a concerted effort over a
20 course of four months. We knew the importance of this
21 particular activity, and again, the ultimate goal was
22 to obtain uniformity among the states.

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1 One of the concepts in the model rules,
2 and I'm only going to talk about the Pedigree issue,
3 since that's really what we're here to discuss today,
4 that created probably the most discussion -- I don't
5 want to say "controversy" -- but the most discussion
6 over time was the Pedigree requirement, and I'm not
7 going to get into the details, but we talked about
8 ADRs, and we have the national list of susceptible
9 products as part of the Pedigree requirement.

10 As Carmen mentioned yesterday, the ADR
11 status and the national susceptible list are kind of
12 going away just because they haven't -- in some states
13 the ADR had been adopted, but it looks as if most
14 states are starting to adopt the normal distribution
15 chain, and it's very interesting because I heard many
16 times over the course of the last two days about
17 phasing in the Pedigree requirements with the drugs
18 that are most likely to be counterfeit.

19 NABP, along with the task force, did
20 create the National Drug Advisory Coalition a couple
21 of years ago, and we did develop a list which
22 currently have 32 drugs on it. I will say that NABP

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1 stopped that committee under the direction of our
2 Executive Committee in December, and the reason was
3 that nobody was adopting the national list.

4 So it's very interesting to see how things
5 come full circle, but that was out there in the
6 beginning and nobody wanted to adopt it. We got rid
7 of it, and it appears now that there there's interest
8 to move in that direction again.

9 In addition, there were discussions that
10 there were inconsistencies regarding electronic
11 Pedigrees and what are the data elements that surround
12 that.

13 So we convened a task force in January of
14 2005, and really the primary objective of that task
15 force was to gain consensus from the state Boards of
16 Pharmacy and the other regulatory agencies as to what
17 components or data elements are they looking for in
18 the particular Pedigrees.

19 The three recommendations that came out of
20 that committee were, first, electronic Pedigree
21 records record all transactions and distributions of a
22 product beginning with the manufacturer until final

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1 sale and distribution of the pharmacy.

2 The second recommendation had to do with
3 an implementation of electronic Pedigrees by December
4 of 2007, and it talked about the specified data
5 elements of electronic Pedigrees. We have been
6 involved in the EPCglobal work group, as well as many
7 of the other entities and organizations here today,
8 and we have shared the data elements with that
9 particular group, and it doesn't appear that we're
10 really that far off in what those data elements look
11 like.

12 What I'd like to spend a few minutes on is
13 regarding the date. I know there's been a lot of
14 discussion. What should the date look like? And this
15 had a lot of discussion within the task force meeting
16 when we addressed this issue, and the state boards
17 felt very, very strongly that if they didn't draw a
18 line in the sand to give the industry a goal to obtain
19 a certain level of electronic Pedigrees passing
20 through that it would never happen.

21 If you keep saying, okay, it can't happen
22 before 2010, well, that doesn't mean it's going to be

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1 2050 before it happens.

2 So our members feel very strongly that
3 there is a date. Now, the December 2000 date was the
4 date that the task force recommended, but that's a
5 very strong message that came through from our task
6 force and that I wanted to share with the FDA here
7 today.

8 Several people have mentioned that there's
9 been Pedigree legislation that's passed in several
10 states. About 11 states to date have passed this
11 legislation. There are probably ten to 15 states as
12 we speak that have introduced legislation or are
13 working on it. So I think the states are moving
14 proactively forward based upon the concerns of the
15 counterfeit drug issue and have done a great job.

16 I guess my second request of the FDA is to
17 be sure that whatever work the FDA does, that the work
18 complement the good work that has been done at the
19 state level.

20 Now, the state licensing and wholesale
21 distributors, as I mentioned falls under the purview
22 of the Board of Pharmacy in most states and other

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1 agencies. The thing that I want to point out to you
2 here is that there are limited Board of Pharmacy and
3 state agency resources.

4 We all know that there are budget cuts in
5 several of the states, and so many of the states came
6 to us and said, "We haven't performed facility
7 inspections on wholesale distributors for 35 years.
8 So could NABP assist us in developing some type of
9 program where we would do the facility inspections and
10 that portion of the process for them?"

11 So then was born the verified accredited
12 wholesale distributor program, which, again, Carmen
13 mentioned yesterday. We were very pleased to announce
14 that CVS and U.S. Oncology have achieved that status.

15 I'm not going to get into the details of it, but it's
16 basically two phases.

17 There's a paper phase and a people phase,
18 and the paper phase is about a ten page application.
19 We ask for a significant amount of information
20 regarding policies and procedures. We do criminal and
21 financial background checks.

22 NABP has also developed a clearing house

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1 for wholesale distributors. So we actually have an
2 active database of disciplinary actions that were
3 taken by the states on either wholesale distributors
4 or individuals that are associated with those
5 wholesale distributors. So we do those types of
6 checks as we go through.

7 Once that paper phase is completed, we go
8 in and do an on-site facility inspection, and then the
9 awarding of the accreditation.

10 Indiana requires VAWD for licensure.
11 Other states have adopted or endorsed it in different
12 ways. Oklahoma; Idaho doesn't have any regulation or
13 legislation, but through policy, one of the
14 requirements is if you're a non-resident wholesale
15 distributor, meaning you don't reside in that
16 particular state, you have to show in order to become
17 a wholesale distributor being able to distribute
18 product into Idaho, you have to show a recent
19 inspection report.

20 And I will tell you there are several
21 states that do not perform facility inspections on
22 wholesale distributors. And finally, Nebraska has

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1 introduced some legislation, again, that would
2 recognize the VAWD program.

3 We've been working with several other
4 states to endorse this process as well, and any
5 information that you need regarding the program could
6 be found on our Web site or I'm happy to discuss with
7 you.

8 So in closing, as everyone here has
9 mentioned today, the counterfeit drug issue is a true
10 patient safety issue. The NABP and the Boards of
11 Pharmacy feel that it is our responsibility, if you
12 look at what our mission is, is to do something to
13 insure that counterfeit product doesn't get into the
14 hands of the patient.

15 There's been significant progress in the
16 states. We've been working very closely and
17 complementary with the FDA, and we appreciate your
18 efforts and good work. We would recommend that you
19 set some sort of target date for electronic Pedigree
20 implementation, and we are in total agreement that
21 there should be some uniformity among the states.

22 We are for federal standards, yet state

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1 licensure and enforcement of those particular
2 standards.

3 So thanks, again, for the time, and I'll
4 be happy to address questions during the panel
5 discussion.

6 (Applause.)

7 DR. LUTTER: Thank you very much.

8 Our next speaker is Jim Dahl.

9 MR. DAHL: Good afternoon. As many of you
10 know I worked on many of the issues being discussed at
11 this meeting today during my time as a senior manager
12 within FDA's Office of Criminal Investigations before
13 I retired last fall. My remarks today are my own, but
14 I hope to represent the collective opinion of the
15 agents of the Office of Criminal Investigations.

16 I agree with many of my former colleagues
17 at FDA that RFID technology has an outstanding future
18 in the pharmaceutical industry, particularly in
19 inventory control, track and trace, and product
20 authentication.

21 However, all of us who served on the RFID
22 working group knew very early on that 2007 was not a

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1 realistic goal, and 2011 was a better target. I am
2 not suggesting that FDA abandon its support of RFID;
3 only that it be made part of a more realistic
4 multifaceted approach to the significant drug
5 diversion and counterfeiting problem.

6 The database supporting an RFID system
7 must at a minimum contain the fields to comply with
8 the PDMA along with the soon to be implemented, I
9 hope, regulations. In my opinion, the new wholesaling
10 law in Florida and similar efforts in other states are
11 signals that the public wants a safe drug supply, and
12 that a stronger federal law is needed.

13 This is an area where I think FDA can
14 exercise leadership and call on Congress and the
15 administration to strengthen the PDMA to bring federal
16 drug wholesaling requirements up to 21st Century
17 standards. The control and management of the database
18 is probably the single biggest hurdle to full
19 implementation of a comprehensive RFID system.

20 There are significant and legitimate
21 reasons to keep this information confidential.
22 Therefore, it is extremely important that an

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1 independent, unbiased third party assume this role.
2 This system will never work unless the entity holding
3 the data is competent, trusted and respected.

4 I am aware at one time that NABP offered
5 to serve in this position, and I believe that may be
6 the best option.

7 I have been around enough criminals in my
8 professional career to know that they will try to
9 compromise any RFID system.

10 (Laughter.)

11 MR. DAHL: You like my Marine Corps slide,
12 huh?

13 I anticipate there will be some successful
14 efforts to neutralize the chips and to guess or copy
15 the serial number configuration and counterfeit the
16 chips, and there will be other schemes none of us have
17 yet contemplated. The proposed system may not be
18 perfect, but it is a big step forward from what we
19 have now.

20 Over the last few years we have seen the
21 dramatic rise in the amount of counterfeit drugs in
22 the otherwise legitimate supply chain, and really that

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1 is why we are here today.

2 Internet and black market sales aside, the
3 single biggest contributor to counterfeit medicines in
4 the nation's drug supply is wholesale diversion.
5 Since OCI became operational in 1993, there have been
6 literally hundreds and hundreds of convictions and
7 arrests for the illegal wholesaling of prescription
8 drugs. This category of FDA crime is the single
9 biggest item within FDA in terms of total arrests,
10 total convictions, total cases, and total work hours.

11 Stop wholesale diversion and counterfeit drugs will
12 almost entirely disappear from pharmacy shelves.

13 Stay with the status quo and we can all
14 count on our at risk distribution system to show
15 little or no improvement.

16 So what can be done? First, let the
17 Pedigree regulations take effect. Since 1988, it has
18 been a crime to wholesale a drug without providing a
19 Pedigree. OCI has prosecuted some individuals for
20 egregious violations and will continue to do so. But
21 to let the state continue year after year, even in the
22 face of millions of doses of counterfeit drugs, does

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1 not make sense.

2 Those who argue against the Pedigree say
3 the requirements are too time consuming and the
4 Pedigree itself can be forged. These are not
5 compelling arguments. The data required by the
6 current federal law is simple information, available
7 on common business invoices. Although forgeries can
8 occur, this is not a guarantee that the crime will be
9 successful. Ordinary due diligence by buyers might
10 uncover the forgery, and it has been OCI's experience
11 that having a forged document helps prove fraudulent
12 intent and guilty knowledge.

13 In my opinion, two of the primary reasons
14 why state and federal drug pedigree rules are opposed
15 are, one, the seller does not want to reveal the true
16 source of the drugs for fear the buyer will go around
17 him on future transactions; and, two, the drugs are
18 counterfeit or obtained illegally and the seller
19 cannot risk identifying their true origin.

20 Of course, it is not just gray market
21 sellers who are the bad guys. Unscrupulous buyers
22 love the authorized distributor provisions of the PDMA

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1 so they can obtain fully laundered products under a
2 cloud of plausible deniability. If you thought the
3 term "don't ask, don't tell" originated in the
4 Department of Defense, you are wrong. It fully
5 describes what diverters have been doing for years.
6 Wilful blindness is a polite term for describing their
7 actions.

8 If the FDA is serious about tightening the
9 pharmaceutical supply chain, it must also develop
10 improved industry guidance. I believe FDA can draft a
11 more realistic guidance document so that two purchases
12 per year of a manufacturer's drug doesn't make a small
13 secondary wholesaler AD on 200 other products
14 manufactured by the same manufacturer.

15 FDA's new guidance should call for
16 manufacturers to define specific requirements for each
17 of its authorized distributors. Manufacturers should
18 also be encouraged to post their authorized
19 distributors on a public Web site so that potential
20 buyers can better evaluate transactions.

21 In the Federal Register notice, the FDA
22 summarized the task force report with five bullet

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1 points. While I agree that there has been progress on
2 most of these topics, I would argue that FDA has done
3 nothing significant with respect to increasing
4 penalties for counterfeiters.

5 Before I left the agency last fall, I
6 helped draft an FY 2007 legislative package to enhance
7 FDA's criminal authority, but even if that effort
8 eventually makes it out of HHS, DOJ, and OMB, it will
9 likely be years before any results are achieved. New
10 legislation is needed now, and FDA needs to initiate
11 action at HHS, DOJ and the administration to make this
12 happen.

13 I'd like to highlight a few of the changes
14 needed. Administrative subpoena authority for use by
15 OCI agents. This is a tool used by many other
16 agencies, and it is desperately needed to help protect
17 the public health. The Food, Drug and Cosmetic Act
18 needs to be amended to provide for higher maximum
19 penalties. It does not make sense that a person risks
20 up to a ten year maximum sentence for counterfeiting a
21 registered trademark, but only up to three years for
22 counterfeiting a drug.

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1 Title 18 of the United States Code needs
2 to be amended to make Food, Drug and Cosmetic Act
3 felonies specified unlawful activities for money
4 laundering and to allow the direct forfeiture of gross
5 proceeds from felony violations of the Act.

6 The Act also needs to be amended to
7 modernize and approve enforcement generally.

8 The task force report summary highlighted
9 in the Federal Register notice for this meeting says
10 one of FDA's measures for protecting Americans from
11 counterfeit drugs is to enhance regulatory oversight
12 and enforcement, yet there have been no significant
13 enhancements to that part of the agency most directly
14 impacted by counterfeit drugs, the Office of Criminal
15 Investigations.

16 OCI's operational budget and special agent
17 and support staff FTEs have been held essentially at
18 the same level since the counterfeit drug task force
19 first convened.

20 These two days have focused on technology
21 and regulations, and both will certainly play a part
22 in reducing drug counterfeiting and diversion, but

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1 criminal enforcement must be the third prong on that
2 sphere. Until FDA, HHS, the administration and the
3 Congress recognize that fact the goal will not be
4 achieved.

5 I'll be happy to work with the FDA or
6 other interested parties, and I thank you for your
7 attention today.

8 (Applause.)

9 DR. LUTTER: Thank you very much.

10 Our next speaker is Ron Bone from
11 McKesson.

12 MR. BONE: Hi. My name is Ron Bone, and
13 I'm the Senior Vice President of McKesson Supply
14 Solutions.

15 And I want to start my presentation also
16 saying thank you for the workshop, but more
17 importantly, for the work that has been done by the
18 FDA for the last three years as Jamie Hintlian
19 reminded me, we started this process with Jumpstart
20 over three years ago, and the FDA has been there all
21 along with that, as well as completing a great deal of
22 support in terms of information and what could and

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1 couldn't happen to the HLS of the EPCglobal effort.

2 So I want to personally say thank you very
3 much because I spent a lot of my life on that, and
4 you've been very helpful for us.

5 Let me start by just giving you a brief
6 background on McKesson. It is the leading supplier of
7 pharmaceuticals and information and care management
8 activities to reduce the cost and improve the quality
9 across health care. McKesson Solutions empowers
10 health care professionals with the tools they need to
11 deliver effective and efficient supplies to the
12 pharmaceutical customers.

13 Founded in 1833, with annual revenues of
14 more than 80 billion, McKesson ranks as the 16th
15 largest industrial company in the United States.

16 I'd like to, because HDMA has already
17 presented through Lisa and Scott very focused issues
18 that the wholesale community needs help from the FDA
19 on, about the PDMA rule. McKesson purchases 100
20 percent of its pharmaceutical products directly from
21 the manufacturer or the manufacturer's designated
22 distributor. We sell them directly to our customer.

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1 McKesson supports the requirement in the final rule
2 for products that flow from the manufacturer through
3 the ADR to the customer.

4 However, there has been, as you heard in
5 other presentations, some real changes that had taken
6 place in the distribution marketplace over the last
7 seven years. In some cases, manufacturers have
8 designated contracted logistics suppliers to ship that
9 product to the wholesale community. These are, in
10 effect, an arm of the manufacturer.

11 The wholesaler receiving the product from
12 the logistics provider is the authorized distributor.

13 Therefore, no pedigree should be required between the
14 two.

15 We would like to have FDA issue a guidance
16 letter to stipulate that this practice is the same as
17 receiving product directly from the manufacturer.

18 We would also like FDA to provide further
19 clarification as to the definition of the pharmacy.
20 In recent years, chain drug stores and member owned
21 pharmacy cooperatives have consolidated purchases in
22 the warehouses to substantially reduce cost in the

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1 distribution system, and then they sell it directly
2 into their member owned or financially owned
3 institution pharmacy.

4 Therefore, these types of pharmacies
5 should be included in the definition, and we've heard
6 a great deal about this. On the state Pedigree
7 clause, McKesson commends the states for their efforts
8 to prevent pharmaceutical counterfeiting. However, we
9 have significant concerns that the states are creating
10 a patchwork of regulations as they relate to Pedigree.

11 FDA's leadership is essential to create a
12 framework that permits nationwide distribution of
13 pharmaceutical products with uniform regulations in
14 this area. We urge the FDA to collaborate with the
15 pharmaceutical industry and state regulators in
16 determining and setting the parameters for
17 serialization and electronic Pedigrees to be used
18 across the nation.

19 One area in this that causes a significant
20 amount of concern and that's emergency shipments, and
21 we're especially concerned because there has become a
22 patchwork of state regulations that will hamper our

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1 ability to handle the emergency needs in the nation,
2 and these can be such as Hurricane Katrina or the
3 avian flu pandemic.

4 We have a recent example at McKesson that
5 really illustrates this. Hurricane Katrina was a
6 situation in which we had some advanced notice that
7 that was going to happen in Louisiana. We have a
8 facility in Slidell, Louisiana, that was taken out of
9 commission as a result of the hurricane. Because of
10 the advanced notice, we had actually moved product out
11 of that facility to an adjoining state.

12 When the storm hit, we were immediately
13 able to fill those orders from Texas and Tennessee and
14 fulfill all of the requirements for our customers'
15 needs, those that were still in business -- we had
16 some serious challenges with everybody still being in
17 business -- on the very next business day.

18 So we weren't hampered at all, but the key
19 message there is we moved them from one state to
20 another state to get prepared, and when we solved the
21 problem, we solved it from another state. And you can
22 see that there's a real concern that if we have a

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1 patchwork of regulations that would not be possible.

2 And every year in another area of
3 emergencies, every year we have situations which drugs
4 must be urgently delivered to patients on weekends and
5 holidays. Inconsistent and varying state laws will
6 delay and may prevent us from providing this
7 critically needed service when state boundaries have
8 to be crossed.

9 There are also examples of time critical
10 needs for medicines in the institutional marketplace
11 where the manufacturer is actually shipping overnight
12 these drop shipment products for those emergencies.
13 Under current regulations that are being presented, we
14 would have to have a Pedigree from the financial
15 source, being the wholesaler, into that hospital
16 before that medicine could be used, and therefore,
17 delaying the time in which that would take place.

18 In closing, we commend the FDA for holding
19 this workshop that will result in long term, improved,
20 and safe, secured supply chain that incorporates
21 serialization and electronic Pedigree capability. We
22 look forward to continuing to work with the agency in

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1 making sure that this is a better, safer supply chain
2 in the future.

3 Thank you.

4 (Applause.)

5 DR. LUTTER: Thank you.

6 Our final speaker is Steve Haynes from the
7 PDMA Alliance.

8 MR. HAYNES: Good afternoon and thank you
9 for the opportunity to share my thoughts with you this
10 afternoon. As you've listened to my remarks today, I
11 would ask that you keep in mind what motivates them.
12 My 25 years I spent in law enforcement has certainly
13 given me a perspective on risks and the appropriate
14 security response that we should take based on those
15 identified threats and vulnerabilities.

16 In turn, my work over the past six years
17 with various sides of the industry, pharmaceutical and
18 other consumer products industries has provided me
19 valuable insight into their concerns on the issues
20 that you are attempting to address.

21 I'm here today balancing those sometimes
22 unique and different perspectives.

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1 I know your task force has closely
2 examined the vulnerabilities and related risk inherent
3 in our drug distribution systems -- and I emphasize
4 "systems" -- and I'm certain your ongoing efforts and
5 the efforts of the others here and the business
6 partners within the industry have had a very positive
7 effect on strengthening distribution controls and, in
8 turn, strengthening the sanctity and the safety of our
9 nation's drug supply.

10 I would like to take my time today,
11 however, to make a few personal observations and
12 recommendations for you to consider as you move
13 forward.

14 First, I wholeheartedly agree with those
15 who describe the problem of diverted and counterfeit
16 drugs as significant and one that needs to be more
17 effectively and perhaps more importantly, more
18 immediately addressed. We have to first be concerned
19 with today's drug distribution system and not
20 necessarily the system of 2007 or beyond.

21 All too often I have listened to the
22 debate about the extent of the problem. Is ten

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1 percent of the pharmaceutical drug supply counterfeit?

2 Is it one percent? Is it less than that?

3 Realistically, none of us know the answer
4 to that question, which is a point I will address
5 again in a few minutes.

6 What we do know and what this two day
7 workshop had continued to highlight is that there are
8 known vulnerabilities in the drug distribution system.

9 The problems of drug diversion in counterfeiting are
10 real. They're the same problems that led to the
11 passing of the PDMA years ago, with the added twist
12 now of Internet drug sales and the sensitive political
13 issues related to reimportation, and they are the
14 problems that don't offer the luxury of waiting for a
15 future technical solution.

16 RFID, other E-technology is excellent, but
17 is the answer for today and the problems that you're
18 attempting to address today?

19 The vulnerabilities that we talk about
20 combined with recognized criminal capability and
21 intent translate to a significant risk to the drug
22 supply. OCI statistics support that. Whether we're

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1 talking about diversion for financial gain, consumer
2 risk related to safety and efficacy, the increased
3 potential for malicious product tampering or risks
4 that are unique to our post-9/11 environment, we need
5 to acknowledge first that there are risks that warrant
6 action and warrant action today.

7 there are actions that should happen
8 sooner instead of later. I'm careful here when I talk
9 about risk and potential threats since the nature of
10 diversion and, probably more importantly, our current
11 work in this area probably do not give us a good
12 understanding on the extent of the problem, but we
13 certainly know that the vulnerabilities exist and the
14 potential threat is there.

15 Another point I'd like to make is that
16 following the tragedy of September 11th, we witnessed
17 a government response that was significant in a number
18 of ways, but perhaps most importantly in recognizing
19 how we must adapt in today's threat environment
20 through law, regulation and guidance, very specific
21 supply chain security measures cross product
22 industries, so beyond pharmaceutical were implemented.

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1 In January 2002, just several months after
2 the 9/11 attack, FDA CFSAN, their Center for Foods,
3 issued a food security guidance document, which has
4 since been and continues to be expanded upon,
5 addressing recommended supply chain and security
6 enhancements and involving farm-to-fork business
7 partners.

8 That document and related government and
9 industry guidance has been widely used within the food
10 industry to raise the level of awareness to
11 demonstrate the way FDA places on improved security
12 controls and to help guide the industry in deciding
13 what controls they will implement.

14 As you noted in your task force report,
15 some security enhancements will require Congressional
16 action. It is also recognized that agency regulatory
17 initiatives can be a time consuming process.
18 Operational and security guidance, however, especially
19 realistic guidance that is prepared in conjunction
20 with industry business partner involvement is welcome
21 by industry, and I think you've heard that over the
22 past couple of days, and it's a realistic, now

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1 alternative for some of the legislative activity that
2 Jim and others have talked about.

3 My current work with the PDMA Alliance has
4 demonstrated how strength in communications between
5 the industry and the agents and the agency helps both
6 parties meet mutual goals. The question the task
7 force must ask is: is there a better model or process
8 the FDA can follow to more quickly develop and
9 publicize pharmaceutical security guidance material
10 for the impacted pharmaceutical industries.

11 While well defined best business practices
12 or standards of care may not have the weight of law,
13 they are imperative in helping shape a company's or
14 industry's security response.

15 This is an area that has surprisingly been
16 addressed over and over over the past couple of days,
17 and I've been glad to hear a fairly consistent
18 message. Delayed action at the federal level with
19 respect to PDMA regulations or state's perception that
20 federal law or regulations is not sufficient can and
21 has led to overlapping, divergent, and sometimes
22 confusing regulatory action.

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1 The actual and pending legislation the
2 various states have taken are a good thing, but you
3 must ask would uniform state and federal regulations
4 in this critical area allow for the industry to better
5 implement and comply with what's needed. Would
6 consistent law and regulation allow for improved
7 regulatory oversight and enforcement?

8 I realize the task force has involved the
9 states and other interested parties in its work. I'm
10 hopeful that the benefit of uniform legislation that
11 has been consistently emphasized these past two days
12 has been kept forefront in your mind as you move
13 forward with your task force work.

14 My last observation, and this is going to
15 go off mark of anything else that really has been
16 covered over the past two days, but I think it's
17 extremely important as you look to 2007 and beyond and
18 things that need to be considered. Today there's no
19 coordinated, centralized effort that brings together
20 the intelligence resources that are necessary to
21 detect, prevent, and to mitigate pharmaceutical
22 crimes. We will never get our arms around the extent

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1 of the problem, the ten percent issue versus the one
2 percent issue, unless we can adequately respond with a
3 significantly strengthened intelligence capability.

4 We need to improve our ability to gather
5 information and data unique to these crimes. We need
6 a focal point for the collection, analysis, and
7 dissemination of information. We need the necessary
8 technical and analytical tools to do the job, and we
9 need to build an analytical expertise in this critical
10 health intelligence area.

11 I'd like to summarize now with four
12 specific recommendations I would like the task force
13 to consider as you move forward. I strongly endorse
14 the immediate need for the federal regulation imposing
15 a paper pedigree requirement. Law enforcement and
16 security professionals certainly recognize that the
17 provisions like the pedigree mandates found in Title
18 21 do not stop illegal activity. The laws and
19 regulations do, however, add another security layer
20 and when violated often serve, as Jim said, as a
21 valuable investigative resource.

22 Your important work should not be clouded

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1 by those who want to divert discussion to other agenda
2 items of interest or the contention that perhaps
3 there's a better mousetrap down the road. I feel the
4 potential, like I said before, for RFID is
5 significant, but it's not the answer for the problems
6 of today. I encourage your group to recommend the
7 lifting of the stay of the important Pedigree
8 provisions found in 21 CFR 203.50.

9 Second, the FDA and CDER should continue
10 its valuable work with those in the industry
11 addressing the problems of diversion and
12 counterfeiting, but the agency also needs to take the
13 next step. That involves issuing guidance that will
14 better define for the industry throughout the supply
15 chain, the various industries throughout the supply
16 chain, expectations and suggested best business
17 practices.

18 The caveat here is the recognition that
19 the value of this action can only be realized with
20 strong input from and the involvement of the different
21 industry parties that are represented here today.

22 The FDA needs to continue to work closely

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1 with its state partners working towards a goal of
2 consistent uniform legislation in the area of drug
3 distribution, licensing, controls, and reporting.
4 Again, this has been hit pretty hard over these past
5 two days, but there is a need to insure that there is
6 one effective standard on both the federal and state
7 level which governs PDMA law.

8 The last recommendation I have comes back
9 to what I was saying before with respect to the need
10 for a stronger intelligence capability. The
11 challenges in the area of pharmaceutical or health
12 intelligence are significant. However, they do
13 encompass many of the recognized and longstanding
14 issues that are familiar to law enforcement and
15 security professionals, that is, how to best capture
16 information from diverse data sources and complex data
17 sources and how to then maximize the ability to
18 analyze, share, and provide a timely security response
19 or investigative response to what has been identified.

20 The solution is to create a pharmaceutical
21 crimes intelligence center with traditional
22 intelligence analysis capabilities, capabilities that

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1 have been successfully used in other security and
2 enforcement arenas.

3 Thank you very much for your time today,
4 and I'm looking forward to answer any questions that
5 you might have.

6 (Applause.)

7 DR. LUTTER: Thank you very much.

8 We turn to a question and answer session.

9 I'll continue the protocol adopted earlier today of
10 following the United Nations rules. So members of the
11 panel who have questions can signal their question by
12 turning their tent right on end, and please specify
13 whom you would prefer to answer your question if,
14 indeed, you have someone specific in mind.

15 Steve Niedelman, please.

16 MR. NIEDELMAN: Thank you, Randy.

17 And excellent panel, excellent discussion.

18 This is for Jim Dahl. OCI has determined
19 that basically all known counterfeit drugs, which have
20 reached consumers through the drug distribution
21 network, have made it into the system through illicit
22 diversion, and you refer to that in your speech. What

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1 impact would the elimination of the ADR provision and
2 a universal Pedigree requirement have on counterfeits
3 entering the distribution system?

4 MR. DAHL: Well, that would certainly
5 help. The ADR provision is one of the items that is
6 used to launder the Pedigree or basically erase any of
7 the past movements, known movements of the drug. So,
8 you know, certainly the current PDMA is not perfect by
9 any means and needs to be revamped, and that is one of
10 the areas that is a problem.

11 MR. NIEDELMAN: Thank you.

12 DR. LUTTER: Let me go to Maggie, and then
13 I'll go to Steve Silverman and then Bill McConagha and
14 then --

15 MS. STIFANO: My tag is on, too. My tag is
16 on.

17 DR. LUTTER: Oh, okay. So then we'll do
18 Bill after Toni after Steve.

19 MS. GLAVIN: My question is for Kevin
20 Nicholson.

21 I believe you indicated in your talk --
22 and correct me if I'm wrong and I'm attributing it to

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1 the wrong person, but I believe you indicated in your
2 talk that you felt that a large or perhaps the largest
3 source of counterfeits entering the system is through
4 importation, personal importation, and Internet sales,
5 and that was in conflict with what several other
6 members of the panel said who indicated that the
7 wholesale diversion is the major problem.

8 So could you sort of enlarge on sort of --
9 if I've gotten your position, what you said correctly,
10 and correct me if I haven't, enlarge on sort of what
11 data are you using to say that the wholesalers aren't
12 the problem and the problem is at another point in the
13 chain?

14 MR. NICHOLSON: Well, actually I believe
15 the point was that in a legitimate supply chain that
16 the wholesalers are the largest source of counterfeit
17 possibility, and I was referring to, in general,
18 considering both the legitimate and illegitimate
19 sources; that a consumer or patient is much more
20 likely to experience the threat of receiving a
21 counterfeit product from a source, from an Internet
22 source or from a foreign source.

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1 And I believe that even the statistics
2 that FDA has published on the number of cases that
3 have been opened, that a large percentage of those
4 are, in fact, from outside the legitimate supply
5 chain.

6 MS. GLAVIN: Okay. I'm not sure that's
7 correct, but thank you. You did clarify because I had
8 not quite understood exactly what you were saying. So
9 I appreciate that.

10 But I would be really interested if you
11 could include in your remarks for the record -- I
12 don't want to put you on the spot as to exactly what
13 it was -- but your remarks for the record, any
14 information you have on, you know, the extent of
15 counterfeit products coming in through the sources you
16 just mentioned, the Internet, et cetera. Because we
17 would really like to have that.

18 So if you could --

19 MR. NICHOLSON: Yeah, I'll go back to my
20 files and include that in my written comments.

21 MS. GLAVIN: Thank you.

22 DR. LUTTER: Steve Silverman.

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1 MR. SILVERMAN: I'll direct my comment to
2 Kevin Nicholson, but to the extent that other
3 panelists want to weigh in, I'd be interested in your
4 responses as well.

5 There's been a lot of discussion over the
6 last couple of days that seems to set up an RFID
7 system against a paper based system, and in fact, a
8 large part of the most recent PDMA stay has been a
9 function of providing an opportunity for the RFID
10 system to develop.

11 At the same time we've heard from you and
12 from others that for a variety of reasons that we're
13 not quite there yet.

14 So my question is do the two systems
15 really need to operate in opposition to each other or
16 is there a problem with simply lifting the stay and
17 then continuing to work on the agency's part to
18 facilitate with industry implementation of RFID and
19 when RFID in industry's view becomes sufficiently
20 mature to either supplement or replace paper based
21 Pedigrees, to allow that process to move forward?

22 MR. NICHOLSON: What I would say is

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1 basically you're asking me should we remove the stay
2 and then move forward with a Pedigree system that may,
3 in fact, be paper with the eventual goal of RFID?

4 Well, I think what we believe is that if
5 you -- first of all, there are problems with the PDMA
6 that we feel need to be addressed, such as the ADR
7 designation. So that's one reason that we're asking
8 that the stay remain and that the rule be amended in
9 certain ways.

10 Also, we believe that any Pedigree
11 requirement that causes the supply chain to focus on
12 other initiatives acts as a distraction to providing
13 resources towards implementing RFID. As a previous
14 speaker had mentioned, in Florida that they basically
15 had to comply with the Florida requirements, they have
16 stopped what they're doing and have implemented an
17 electronic Pedigree system that, you know, is not
18 RFID, but would meet the requirements of the Florida
19 law.

20 So we would echo that.

21 MR. SILVERMAN: How long should FDA
22 continue the stay?

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1 MR. NICHOLSON: That's a very difficult
2 question. It's very difficult to answer at this time
3 because RFID is still -- if you're talking about -- I
4 guess ideally you would stay the PDMA until RFID were
5 widely available through out the supply chain, and
6 from estimates that we heard yesterday, that's five to
7 ten years.

8 But then again, I would add to that that
9 if FDA believes that's unacceptable, then we have
10 provided other opportunities or other ideas, other
11 suggestions for a phased in approach, such as the
12 normal distribution channel, and then within that
13 using one forward and one back or susceptible drug
14 lists and/or requiring pedigrees perhaps for brand
15 products and not generics.

16 So, you know, we understand that what
17 we're asking may not be acceptable. So we believe
18 that maybe there could be a phased in approach that
19 would, you know -- and then we believe that the normal
20 distribution channel would harmonize greatly with what
21 a lot of the state activity is, with what a lot of the
22 state legislatures are adopting.

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1 DR. LUTTER: Thank you.

2 Next question, Toni.

3 MS. STIFANO: Yes. This question is
4 directed to both Jim Dahl and Steve Haynes.

5 Steve Niedelman this morning, later in the
6 morning, brought in the active pharmaceutical
7 components, not finished pharmaceutical products,
8 which are also subject to the PDMA, and then we heard,
9 too, about the diversion of imports and so on. So
10 that being the case, then a number of the active
11 components are imported. So in that case, what and
12 how do we initiate a Pedigree for them?

13 MR. DAHL: Well, I think that on formal
14 customs entries into the United States, which is how
15 most APIs are going to arrive, you're going to have
16 essentially the Pedigree information there. I mean,
17 the drug has to be listed with FDA. You know who the
18 manufacturer is. You're going to have a customs
19 broker involved. You're going to have invoices and
20 shipping manifests and other documents that are going
21 to supply those data fields. So I think perhaps maybe
22 it's another duty that the customs broker performs

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1 when it hits the U.S. port to then comply with the
2 initial Pedigree, U.S. Pedigree that is formed right
3 there, but I think the data is there. I don't see it
4 as an insurmountable problem.

5 MS. STIFANO: Well, on top of that say
6 it's not imported and say a small laboratory is
7 producing active and they're going to ship it
8 someplace else. Would the Pedigree originate from
9 this small manufacturer that may not even be a
10 registered facility?

11 I mean, how would you handle that? I'm
12 thinking specifically about the botulinum toxin that
13 traveled in interstate and was subsequently used as a
14 final product and it was not. What could we have
15 done?

16 MR. DAHL: You mean it was not a drug
17 product?

18 MS. STIFANO: It was a drug product, but
19 not in finished form.

20 MR. DAHL: Well, I think I'd have to think
21 about that, but I think that they could originate the
22 Pedigree. They should be originating the Pedigree.

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1 That information is available to them. They knew who
2 their customer is. They know they produced it, and
3 essentially when they invoiced their customer, they
4 are giving the information that's on that, that's
5 required by the Pedigree with now.

6 MR. HAYNES: Those are interesting
7 questions, and certainly the first one with respect to
8 the imported APIs is of interest because, like Jim
9 said, there's a natural customs paper trail, but the
10 second half of that is FDA and others having a better
11 handle on what's going on outside our borders as far
12 as the manufacture with the APIs and the ability for
13 inspections.

14 So it's not just one layer of security.
15 It's not just the paper trail. There are a lot of
16 things that would come into play there, and I hate to
17 keep coming back to it, but again, a better database,
18 a better intelligence model of who's doing what
19 overseas where who the legitimate API manufacturers
20 are for what companies would allow the agency to more
21 proactively address a problem that may be arising.

22 Your example you gave of a domestic

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1 situation is, you know, a supply chain is a supply
2 chain is a supply chain, and if the FDA comes across a
3 situation that receives some publicity and you say,
4 "Well, do we have the regulations in place that
5 address that?" and if the answer is no or they're
6 unclear or that maybe there's room for improvement,
7 that's an example of where fairly immediate guidance
8 to the industry is going to have a lot of weight with
9 how it's handled next time.

10 So if we feel there's a small loophole
11 wherever it is within the many -- you know, wherever
12 it is, with repackagers or whether it's with small
13 APIs or whatever where things could be strengthened,
14 that's where the FDA needs to step forward working
15 with those in the industry to say, "What's the best
16 way for us to address this?"

17 Then give guidance to the industry and I'm
18 very confident that industry will respond.

19 MS. STIFANO: Thank you.

20 DR. LUTTER: Thank you.

21 Bill and then Jeff.

22 MR. McCONAGHA: This is a question for Mr.

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1 Fowler, please. It follows up a little bit on what
2 Steve was asking about earlier. Oh, I'm sorry. Mr.
3 Nicholson. Excuse me. Mr. Nicholson.

4 Chain drug stores, retail drug stores are
5 basically the last stop in the drug supply chain, and
6 so it seems to me that if there is diverted or
7 counterfeit product put into the system at any point,
8 it's eventually going to wind up at this last stop,
9 and for that reason I was surprised to hear you take
10 the position that at least for the short term you were
11 not favoring a strengthened Pedigree.

12 When Steve asked you about it, and in your
13 remarks you cited this ADR issue as a major concern.
14 I just want to make sure I understand your thinking on
15 this. Is your policy driven by this concern about the
16 chain drug store wholesalers and is that really what's
17 at issue here? Is there anything else that causes you
18 to resist a stronger Pedigree at this time?

19 MR. NICHOLSON: Well, the issue of the
20 chain drug warehouses is definitely part of our
21 concern, but also we are concerned about increases of
22 cost and the supply chain that will be passed on down

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1 the line to the pharmacy at the end with the pharmacy
2 not having the ability to absorb these costs.

3 MR. McCONAGHA: I have another question.
4 Do you want to defer to Jim?

5 DR. LUTTER: Go ahead, Bill.

6 MR. McCONAGHA: Okay. I have one more
7 question, and, Mr. Nicholson, you'll be delighted to
8 know it's not addressed to you.

9 (Laughter.)

10 MR. McCONAGHA: This is for Mr. Melville
11 and Mr. Dahl, and anyone else who cares to comment on
12 it.

13 I am just curious. In the beginning with
14 Scott, do you have any sense if FDA were to let the
15 stay on its '99 rulemaking expire in December and the
16 rule and all of its provisions went into effect, how
17 that would impact the secondary wholesale community?

18 As you, I know, recall, in 2000 we had
19 heard from many members of the secondary wholesaler
20 community that the effects of rulemaking would be
21 devastating and would drive folks out of business,
22 adversely affect the public health because the

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1 communities the secondary wholesalers serve would not
2 get the drugs they need, do you have any thoughts on
3 that? Do you have any sense how the passage of time
4 between '99 and now may affect that position?

5 MR. MELVILLE: I cannot speak on behalf of
6 the secondaries and why they aren't represented here.

7 HDMA represents the primary distributors who buy
8 directly from the manufacturers. So I really can't
9 speculate as to why they're not here.

10 I think as I mentioned in my testimony,
11 you know, there's been a lot of talk about normal
12 distribution, and I think the one thing that, you
13 know, we've observed is that -- and if you look at the
14 11 states that have enacted tighter licensing
15 legislation and many of them have tackled this issue
16 of trying to define what normal distribution is --
17 there are many versions of normal distribution, and
18 it's a very complex marketplace, and it's a very
19 difficult marketplace to try to put into a single
20 model.

21 So I can't explain as to why they're not
22 here, but certainly from our perspective, HDMA members

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1 are constantly revisiting our positions and policies
2 and business practices to address issues in the
3 marketplace, and counterfeit threats are certainly one
4 of them. I think it has caused our members to look at
5 this issue and change what had historically been a
6 position asking for a stay and supporting
7 implementation of the rule, but also recognizing that
8 there are issues around ADR, the definition of ADR
9 that simply don't have simple answers.

10 MR. DAHL: I'll comment on that, too,
11 Bill. I heard this morning one of the representatives
12 from Florida talking about the big decrease in the
13 number of wholesalers licensed in that state after
14 they put their law into effect, but I don't see that
15 they're saying there's rampant unemployment because of
16 that particular law.

17 So we heard a lot back when the PDMA was
18 first stayed about all of these Mom and Pop
19 businesses, and certainly some are, but there's too
20 many Bonnie and Clyde business involved.

21 (Laughter.)

22 MR. DAHL: And, you know, one might argue

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1 that let's put them out of business and let that be
2 our biggest goal. You might also say that if the
3 Pedigree goes into effect, the bigger problem might be
4 for the bigger companies.

5 My friend Mr. Bone here might have a
6 bigger logistical problem than a small Mom and Pop
7 wholesaler because their volume is much less. So
8 there's going to be economies of scale both ways, and
9 it's going to have an impact, but I think the good
10 outweighs the bad in this respect.

11 DR. SHUREN: Let me ask sort of a
12 complementary question along those lines. Yesterday
13 when we talked about electronic track and trace, we
14 heard that for patient safety there were two values.
15 One was the Pedigree and one was authentication of the
16 product, and under PDMA where addressing Pedigree, we
17 don't address authentication.

18 When we talked about Pedigree yesterday
19 for electronic track and trace, we heard, at least my
20 impression was from a number of folks, that you get
21 the most value when you have a complete Pedigree and
22 it runs across all the players.

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1 Under PDMA that's not the case, as we well
2 know, and we're hearing some discussion that we should
3 actually revisit the law and change it and maybe
4 change ADR that actually would cover fewer people or
5 maybe the agency should interpret ADR in a way that
6 also excludes some folks rather than being more
7 inclusive.

8 Let me ask it the other way. If we were
9 to revisit PDMA, why shouldn't we actually be
10 broadening the reach of the Pedigree? Now, Ms.
11 Nicholson addresses a little bit their sort of cost
12 issues that came in, and maybe it's not worth it, but
13 I'd really like to hear from everyone. Why not
14 actually expand the reach of the Pedigree under PDMA?

15 MR. BONE: Well, let me address that. We
16 support the PDMA, and I gave you a couple of areas
17 where the change is taking place between the PDMA and
18 the current marketplace, and we would like to see that
19 piece addressed.

20 I think the critical piece for us is to
21 launch an effective system that tracks the Pedigree
22 from the manufacturer all the way through to the

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1 pharmacy just before it gets to the patient. I think
2 that's the most effective means that we have in front
3 of us to make sure that no bad product gets into the
4 system.

5 You've heard through two days' worth of
6 testimony we're working very hard to make that happen.

7 We're not quite there yet, and I think that we've
8 heard some things about a phased in approach that may
9 be helpful for us to get there. We need, in my
10 opinion, to keep our eye on the ball of getting an
11 effective electronic process in place that would
12 eventually say that a Pedigree should be on every
13 product. That's a critical element for us to keep the
14 energy that we currently have in place, to make sure
15 that becomes a realistic piece.

16 So the PDMA rule is an in between step in
17 my mind. If the stay is lifted we can live within the
18 stay, and then continue to give guidance that we need
19 out to the industry and the states as to what is the
20 long-term vision that we have for Pedigree compliance
21 from manufacturer to the end customer.

22 MR. MELVILLE: And I would just echo Ron

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1 and our member McKesson Corporation. Certainly until
2 an electronic RFID oriented down to the serialization
3 of a particular product is possible to apply a paper,
4 literally a piece of paper, to the millions of
5 products that get distributed on a daily basis would
6 grind the system down, would shut the system down and
7 create real supply chain inefficiencies.

8 So certainly, you know, HDMA believes that
9 the electronic approach is essential to assure
10 continued supply of product and an efficient supply of
11 product. I mean, there's a lot of talk here about
12 counterfeit products, and certainly that is priority
13 number one, but also getting a product and making sure
14 it's there at the pharmacy when you go there.

15 It's something I think everyone takes for
16 granted, but there's an incredible infrastructure in
17 place to make sure that hospitals are staffed or
18 supplied with products, that pharmacies are, and
19 there's a tremendous value to that, and there would be
20 a tremendous public health implication to interrupting
21 that ready, available, and efficient supply of
22 product.

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1 So it's a very delicate balancing act, and
2 it's one that is very challenging for sure.

3 MR. NICHOLSON: With respect to the ADRs,
4 NACDS would certainly support amending the PDMA to
5 reduce arbitrariness so that chain drug warehouses
6 would have the opportunity to become designated as
7 ADRs.

8 MR. McCONAGHA: Can I just follow up, Mr.
9 Melville, on your answer?

10 I mean, you talk about the volume of paper
11 potentially grinding things to a halt. I mean,
12 obviously, right now some paper is being passed
13 because there is still a law on the books, and just
14 kind of playing devil's advocate, we heard from Mr.
15 Dahl in his presentation that the information that one
16 would need to put in this Pedigree is generally
17 information that's easily accessible from other
18 documents, such as bills of lading, invoices, things
19 of that nature, that are already provided in
20 commercial transactions.

21 And so I'm just curious. In what way does
22 filling out this paper, having this paper follow these

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1 products, even if it were a universal pedigree,
2 somehow grind the system to a halt?

3 MR. MELVILLE: One thing I go back to, I
4 think Mr. Dahl said that since 1988 it has been a
5 crime to wholesale a drug without a Pedigree, and I
6 don't believe that's correct. Certainly the PDMA
7 states that if you're an authorized distributor of
8 record, that a statement of distribution history is
9 not required in that sort of situation.

10 But the fact of the matter is in your
11 presentation this morning you mentioned the statute is
12 in effect, and that if you are not in ADR and don't
13 meet those requirements, that a Pedigree is required
14 under current law today.

15 So I think the reality is that, you know,
16 the vast amount of product does move through that very
17 tight supply chain between a manufacturer or a third
18 party logistics provider, a distributor, an authorized
19 distributor of record, perhaps another authorized
20 distributor of record or a smaller regional
21 distributor into the pharmacy itself.

22 So there is a relatively narrow

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1 distribution supply chain. There are many variations
2 to that, but the bulk of the drugs do move through
3 that chain. There are many variations to that, but
4 the bulk of the drugs do move through that chain, and
5 I guess I would suggest that products that move
6 through that chain have fewer entry points for
7 counterfeit, and I would imagine have proven
8 themselves to be not the source of counterfeit
9 products. It's when product moves over repeatedly
10 throughout the supply chain that entry points can
11 happen.

12 I guess I'd also mention, too, that the
13 counterfeit task force report mentioned that
14 counterfeits can be entered in any point along the
15 supply chain whether it's on the shipment from a
16 manufacturer to a distributor. Samples can be
17 distributed. Let's remember that the PDMA was about
18 that as well. It can be at the pharmacy level. So
19 there are many entry points, and we have to be
20 diligent in addressing each of those points.

21 As far as shutting the system down, again,
22 it's the volume; it's the efficiency, and I'll ask Ron

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1 to comment on that because he has to operate and
2 manage those organizations at his firm at McKesson
3 Corporation, but it's an incredibly automated system.

4 If you've never been to a large distribution center,
5 I think you would be amazed at the efficiency, the
6 technology that's incorporated, and the volume that
7 gets delivered on a daily basis.

8 And until that technology is widely
9 adopted in uniform and standardized, to apply anything
10 short of that I think would have significant supply
11 chain disruptions, and again, I'll ask Ron to comment
12 on that.

13 MR. BONE: Yes. One of the things that
14 I've run into in talking with state regulators on this
15 is there's not a clear perception of what we really do
16 in the supply chain. Many people think that we
17 receive full cases into our facility, and we, in turn,
18 ship those full cases out to our customers, and that's
19 not how our supply chain really works. We do receive
20 the full cases in. We break them up so the pharmacy
21 can order just what it needs.

22 And the fact is that very few of those

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1 transactions come to us with electronic information
2 from the manufacturer that we would need to pass that
3 piece of information that you just referred to on to
4 the Pedigree and on to our customers.

5 So when we're sitting here at this
6 juncture without RFID and the transmission of this
7 information inbound to us, it puts the burden on the
8 wholesale community to translate what is not
9 electronic into an electronic piece and get it to our
10 customer.

11 So with the time that we're looking for is
12 the change that has to take place in the marketplace,
13 the flow of the information along with the flow of the
14 product.

15 So you would be welcome to come into our
16 facility and see. It's an amazing place to go in,
17 particularly at night.

18 DR. LUTTER: Thank you.

19 We have two more questions. Maggie and
20 then -- oh, no, three -- Maggie and then Jeff and then
21 Ilisa Bernstein.

22 MS. GLAVIN: Thank you.

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1 This is for Mr. Dahl. Given that I
2 believe from your testimony you believe that we need
3 to enhance our efforts, we, the FDA, need to enhance
4 our efforts to combat counterfeiting of prescription
5 drugs in the U.S., and I know you probably can answer
6 this very easily.

7 Can you identify two or three actions or
8 enhancements that would bring us further along? What
9 would be the key ones that if you were king you would
10 put in place?

11 MR. DAHL: Well, legislation, people, and
12 money. Those are three. I mean, you know, there's
13 185 agents as you know spread across this big country
14 that's very few. There's more FBI agents sitting in
15 Maryland than there are OCI agents nationwide.
16 There's probably four times as many FBI agents in
17 Maryland. So that's one area.

18 Resources, other resources, support
19 personnel, they need tech people. They need analysts
20 in each field office. They need travel money. We
21 need an international presence. We need some
22 improvements in the laws that I talked about. All of

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1 those can go to help stem the problem.

2 MS. GLAVIN: thank you.

3 DR. LUTTER: Jeff Shuren, please.

4 DR. SHUREN: This is a question for Mr.
5 Melville.

6 You had said that HDMA is already actively
7 working with Congress to seek introduction of
8 legislation to establish a uniform federal standard
9 for the licensure of pharmaceutical distributors. The
10 first question or clarification, and I may have a
11 follow-up depending on your answer.

12 Who would you then see as licensing
13 wholesalers? Is this going to remain as a state
14 function or is this now going to be a federal
15 licensure?

16 MR. MELVILLE: The HDMA board in October
17 announced its position that it supported a uniform
18 federal standard of licensure of pharmaceutical
19 distributors. That really involves two elements,
20 uniform federal standards and licensure.

21 Our proposal, our position is based on a
22 federal licensing and actually if FDA were to be the

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1 licensing authority, a single license that the federal
2 government would give for distribution, but I think
3 really the key element that our members are looking
4 for is the uniformity, that a single federal set of
5 standards that they can build their operations around,
6 their compliance around, and insure, quite frankly,
7 that regardless if a patient is in Idaho or Wyoming or
8 Florida or Texas, that a single standard that is
9 consistent across the states is being applied.

10 Again, given the nature of the threat,
11 given the interstate transport of products, and given
12 the need in our minds that has been eloquently
13 discussed over these last two days to have an
14 electronic system to really be able to track these
15 products through an RFID system, it's not until
16 there's a single federal standard we believe that that
17 can be done and that 50 different states' standards
18 would really impede adoption of that technology.

19 So for licensure, if it was by the federal
20 government, which is the position that you support, as
21 you know, resources are tight, particularly post-9/11,
22 and as we just heard, we don't have enough or one

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1 position is maybe we don't have enough criminal
2 investigators out there if we did the licensing that's
3 resources.

4 Would HDMA therefore support paying fees
5 to the federal government for licensure?

6 MR. MELVILLE: Absolutely. We pay fees
7 today to state regulatory authorities for our
8 licenses, and if a large distribution center is
9 licensed in 50 states, it's paying 50 fees right now
10 to be able to ship product into those states. So
11 certainly any element of a federal approach here would
12 involve an appropriate fee for the license.

13 Let me also add that, you know, we would
14 envision and would hope and, as you heard from the
15 states this morning, there is a desire there to have a
16 continuing role in enforcement and perhaps in
17 licensing. We're very open minded, and we certainly
18 would support that. The states in our approach would
19 continue to have a very important role in this area.

20 And I'll also add that the National
21 Association of Boards of Pharmacy in an accreditation
22 type approach would continue to have a very important

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1 role in this area, and I'll also add that the National
2 Association of Boards of Pharmacy in an accreditation
3 type approach is something that we think there is
4 attraction to from a consistency perspective.

5 So, you know, if there is a single federal
6 standard that a state was enforcing against or that
7 was being contracted out to a third party
8 accreditation organization to be inspecting against,
9 that's a model that we think could work for our
10 industry and ultimately for the benefit of patients.

11 DR. LUTTER: Ilisa Bernstein.

12 DR. BERNSTEIN: This question is for
13 Scott.

14 I just want to make sure I fully
15 understand your position. You said that PDMA's should
16 move forward with some changes or amendments, but that
17 FDA should move forward on the stay, but that PDMA
18 should -- you're going to seek legislative changes.

19 Are those tied or are those separate? Do
20 you see that PDMA could move forward with whatever
21 changes? I'm not sure what changes you had in mind,
22 but independent of legislative change and action.

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1 MR. MELVILLE: Yes. We are supporting two
2 actions. One is implement the PDMA rule. The second
3 action is to work with the legislatures to provide any
4 additional statutory authority that FDA would need to
5 provide and create a uniform standard for licensure,
6 and so those are certainly two different actions, and
7 Congress particularly in an election year we know will
8 not move very quickly in certain situations and will
9 be deliberate. We can't count on any action by
10 Congress.

11 What we can count on is a rule and the law
12 that's on the book today and the rule, and that's why
13 we're asking to move forward with the rule.

14 DR. BERNSTEIN: Not to put you on the spot
15 or anything, but as you know, we have a decision to
16 make. So if there are some changes that you have or
17 amendments, unfortunately we cannot convene another
18 meeting like this to do that. So I would highly
19 recommend that you or anyone else submit those to the
20 docket.

21 MR. MELVILLE: Would that be, if I could
22 ask for clarification, amendments to the statute or to

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1 the final rule?

2 DR. BERNSTEIN: To the rule.

3 MR. MELVILLE: Absolutely, we will do that
4 and submit those recommendations before the docket
5 closes.

6 DR. LUTTER: Steve.

7 MR. SILVERMAN: This is a question for Ron
8 Bone.

9 Ron, in talking about some of the
10 challenges that your firm faces were the stay to be
11 lifted, you talked about the fact that for certain
12 types of shipments you may not have electronic
13 information that you would otherwise be able to pass
14 on with shipments, which would obviously otherwise
15 serve to satisfy the Pedigree requirements.

16 I'm just wondering. Is it your position
17 that if you and the other major manufacturers
18 following a lifting of the stay were to go back to --
19 excuse me -- you and the other major wholesalers,
20 following lifting of the stay, were to go back to the
21 manufacturer to supply you, that there would be any
22 impediments to getting that information in electronic

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1 form.

2 MR. BONE: Well, the rule since we buy all
3 of our product directly from the manufacturer, the
4 rule as it states does not require us to pass
5 Pedigree. There are a few things that we have that we
6 purchase that are from a manufacturer's arm, that as
7 we understand it now, we would actually have to pass a
8 Pedigree forward. We would have to create that
9 Pedigree. It's a very small portion of our total
10 business. So that's not something that would be an
11 impediment to saying, "Go ahead and lift the stay."

12 The challenge that I was trying to express
13 was that if we were looking for something more in
14 terms of getting the Pedigree in place without having
15 the infrastructure and a standard set of requirements
16 across all states and having EPCglobal publish a
17 standard on that, grabbing that electronic information
18 from a manufacturer, and I'm assuming that they're
19 included in the requirements here, and passing that
20 forward is not a problem as long as it's all
21 electronic.

22 One of the things that I didn't mention

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1 earlier is there is no paper in a DC anymore. The
2 paper has been removed. We don't pick from paper. We
3 don't ship out using paper, et cetera. We have become
4 a paperless environment. So just the concept of paper
5 Pedigrees that don't have the electronic piece to that
6 is counter to all of the improvements that we've made
7 in the supply chain to lower the cost of the
8 distribution of the product.

9 DR. LUTTER: Thank you.

10 We have time for one more question, I
11 think, and then after that we'll proceed to an open
12 mic.

13 So Bill.

14 MR. McCONAGHA: A very quick question for
15 Mr. Haynes, please.

16 You had mentioned in your remarks that you
17 felt it was important as a next step that FDA lift the
18 stay or I should say let it expire in December 2006.
19 Is that your personal view alone or is that the
20 position of the PDMA Alliance?

21 MR. HAYNES: Personal view.

22 MR. McCONAGHA: Okay. Thank you.

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1 MR. HAYNES: Bill, that's not to, you
2 know, imply the alliance would not. It's an issue I
3 did not vet with the alliance before coming. So I'm
4 not going to take a position on what the PDMA Alliance
5 might say in that regard.

6 MR. McCONAGHA: Okay, great. I didn't
7 mean to put you on the spot. I just wanted to make
8 sure for the record that we understood if it was your
9 view or the organization's, and I take it at this
10 point you can just represent it's your view.

11 MR. HAYNES: Correct.

12 MR. McCONAGHA: Okay. Thanks.

13 DR. LUTTER: I see one more flag in the
14 air. So, Ilisa, please.

15 DR. BERNSTEIN: Thank you. I think it
16 will be very quick.

17 It's to Eleni. You had said and Carmen
18 mentioned yesterday that you're doing away with the
19 list of susceptible products because the states
20 weren't adopting it. I must say we found value in
21 that list at least to point people, and we have got a
22 number of questions. So what drugs are most

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1 susceptible counterfeiting, and we say, "Oh, NABP has
2 that list," which was very useful.

3 I think you mentioned that there were 11
4 or 12 other states they're contemplating changing the
5 regs or someone out there or the laws. Are any of the
6 other ones using that? No?

7 MS. ANAGNOSTIADIS: No, to the best of our
8 knowledge, it appears that there are stakeholders in
9 the states pushing forward pretty heavily with the
10 normal distribution channel, and to the best of our
11 knowledge, at this point in time none of the other
12 states that are actively creating legislation are
13 introducing the concept of the national specified list
14 of susceptible products.

15 DR. BERNSTEIN: I think you raised a
16 really interesting point though that we heard over the
17 past few days how people are calling for phased in
18 approaches and that one of the phases was focusing on
19 susceptible products, and without that list, which was
20 very helpful, who would you think? Would that be the
21 states with the stakeholders or the manufacturers?
22 Who would you think to do that list and maintain that?

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1 MS. ANAGNOSTIADIS: I don't know. I guess
2 it depends on the direction that the FDA decides to
3 go, whether it would be a phased in approach.
4 Certainly NABP would be happy to pick up that list if
5 the states were going to move in that direction, but
6 at this point in time, since there is no use, we've
7 decided to stop the list.

8 DR. LUTTER: Thank you very much. Please
9 join me in thanking this panel for a very informative
10 discussion.

11 (Applause.)

12 MS. GLAVIN: We're going to move now to
13 the open mic session. We have six individuals who
14 have asked to speak at the open mic. I'm going to
15 call you up in the order in which I have the sign-in
16 sheet, which I assume is the order in which you signed
17 in. I'm going to ask you to limit your remarks to
18 five minutes, which I think we can do because we are a
19 little bit ahead of time.

20 Also as I call you up, I'm going to ask
21 you if you have a card with your name on it with you.

22 At the end of your remarks, would you stop by the

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1 table over here on my left and leave that card with
2 the recorder so that we have an accurate
3 representation of who you are in our final record of
4 the meeting?

5 So with that, Robert Phillipson. Do I
6 have your name correct? Okay, and you are with Covert
7 Security Solutions.

8 Okay. Thank you. That's perfect. Thank
9 you.

10 MR. PHILLIPSON: Well, first off, thank
11 you very much for hosting this meeting and to the task
12 force and also thank you very much for the companies
13 that have done a lot of research and work in bringing
14 a lot of these issues to the table.

15 I had three concerns when I signed up on
16 this list. Two of them have been pretty well beat to
17 death in this meeting.

18 FDA, please continue the leadership for
19 setting standards for electronic Pedigree, which is
20 chain of custody. That's a plea. And RFID is not the
21 only way to have e-Pedigree.

22 Secondly, security is only as good as the

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1 weakest link, and handling of the data appears to be
2 the weakest link. I would ask that you would look for
3 standards in that field, especially regarding the
4 people that work in handling that data.

5 My third point is more controversial.
6 Yesterday Paul Rudolph said it very well. RFID works
7 well in tracking pallets and large boxes. It does not
8 function as well in tracking smaller items. Perhaps a
9 high grid RFID bar code new technology solution is in
10 order to be able to do some of the things that you
11 accurately point out needs to be done now.

12 While the FDA's public position has been
13 not to elect a single technology, in fact, RFID has
14 been selected. The stated goal is to protect the
15 consumer from fraudulent medicines and protect the
16 supply chain, not to insure the companies that have
17 invested a lot of money in RFID get repaid.

18 The community is not the only group with
19 this problem. Citizens Against Government Waste
20 recently sent a letter to the head of Department of
21 Homeland Security, Secretary Chertoff, asking him not
22 to elect for RFID for the driver's licenses for the

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1 real ID act because of the financial burden it will
2 place on the states and the individuals, which is the
3 same problem you have because this money is all going
4 to be passed down to the consumer.

5 Does the election of the RFID then drive
6 consumers away from you and to foreign products? The
7 election of RFID does effectively cut off innovation
8 of new technology, not just the improvements in RFID,
9 but the improvements that come from other types of
10 technology that have come up that can provide Pedigree
11 data, trace and trace technologies.

12 I suggest that FDA set standards, but
13 leave open the technology that can meet those
14 standards.

15 Our company has -- this is a small
16 commercial -- our company has an innovative
17 improvement in this regard in print technology in
18 which the printed mark contains data at a highly
19 encrypted level, which solves some of the problems
20 you've discussed. This permits secure serialization
21 with a unique identifier, and it's a near fail safe
22 authentication, scalable, and low cost. It's useful

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1 in marking at the lowest level, and it's not affected
2 by moisture or proximity to other marks or metals or
3 any of these issues.

4 American innovation can solve a lot of
5 these problems if we are permitted to compete. At
6 this point in time we're not.

7 Thank you very much for this time.

8 MS. GLAVIN: Thank you very much.

9 And I remind you if you can to leave a
10 card. Thank you.

11 Our next speaker is David Bear, and if I
12 have your name wrong, please correct me, with
13 PharmoRx.

14 DR. BEAR: Yes. I am David Bear. I am a
15 physician, Professor of Psychiatry, and I started a
16 group called PharmoRx.

17 Again, I thank everyone here for the
18 chance to listen to an interesting discussion. One
19 question that I've heard repeatedly is what can be
20 done to accelerate the technology of RFID track and
21 trace and e-Pedigree, which I think is a powerful
22 technology.

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1 And certainly method of augmenting it,
2 making it more powerful, leveraging it would make it
3 more attractive. So I'm going to speak for a hybrid
4 system as well.

5 Track and trace is an elegant way of
6 finding out where diversion occurred in the supply
7 chain, but the materials diverted, the packages, the
8 bottles, whatever, are gone, and those pills in those
9 bottles are going to be stripped out of the bottles
10 and they are not trackable. They will enter an
11 inventory of abusable drugs that lead to a lot of bad
12 things.

13 If those pills had serial numbers on them
14 and the serial number, for example, was represented in
15 the table of contents of the RFID tag, the situation
16 would be quite different. When the diversion is
17 immediately detected, those serial numbers in the
18 system we have developed are available to the DEA,
19 police departments and every licensed wholesaler so
20 that these are stolen pills. Anyone who traffics in
21 them is committing a criminal act. They lose value,
22 and of course, the thing we hope for is it deters the

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1 whole crime.

2 So the combination of writing and
3 inscribing code on pills and RFID, I think, is an
4 elegant solution to track and trace or at least an
5 augmentation.

6 Now, what about authentication? What is
7 authenticated, for example, in a bottle of pills that
8 has an RFID tag with a very dense code? The answer is
9 the bottle, and are the pills inside legitimate?
10 Well, that depends on how much you believe in the seal
11 of the bottle. There are rather elegant microsurgical
12 techniques for opening seals and removing things. If
13 the RFID tag is on a label and, again, it can be
14 removed surgically, could that label be placed on a
15 different bottle? And the materials inside an
16 authentic bottle may not be real pills. What could
17 they be? They could be counterfeit.

18 We know the North Koreans are pretty good
19 at doing this, and they have the surgical technology
20 and so forth to do it. They could be poison pills.
21 So I think the realistic possibility that an authentic
22 bottle misleads us into security about the pills then

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1 has to be considered.

2 Now, how can we help this? If the pills
3 have serial numbers and a method which we have
4 submitted to the federal docket, those numbers will be
5 legitimate code in the sense that they were written in
6 the factory and they were not exhausted because we
7 tracked these pills until they're consumed by
8 patients.

9 And if they are legitimate, they could
10 represent only one pill in the universe, and that's a
11 pill that we have taken a picture of in the factory
12 because using visual storage capability today,
13 literally you have a pill print possible for every
14 single pill.

15 So pill authentication would be a very
16 powerful way of amplifying what is now container
17 authentication, and I think clearly up some
18 vulnerabilities.

19 Now, again, very briefly, we've heard the
20 word "serialization" as if all this is trivial, just
21 write on a lower level or something. Writing on a
22 pill is not like writing on a Nokia phone, and that's

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1 what two years of R&D has done. Writing on a pill has
2 to be small because the real estate is limited.

3 When our pharmacological partner or
4 pharmaceutical partner submits material to the FDA
5 next week, obviously the question is is it safe. Have
6 we left the active material unaffected? Have we
7 avoided dangerous metabolites?

8 The code has to be durable. It can't be
9 rubbed off as pills are used daily. It can't be
10 easily effaced and so forth. So I think the actual
11 details of what we call secure coding are interesting.

12 I agree with the last speaker. I think innovation
13 could be helpful here, and I'm sure we'll have
14 competitors. I'm really not aware of many competitors
15 at the moment.

16 Now, again, last point. The reason I as a
17 physician became interested in this problem is a
18 different domain. It's not the supply chain. It's
19 the very large problem of post prescription abuse. I
20 think, again, using 9/11 as an analogy, let's try to
21 connect some dots, and I'm speaking to the FDA now.

22 The National Institute of Drug Abuse has

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1 declared post prescription abuse, patients who take
2 too many pills, patients who sell their pills,
3 patients who fraudulently claim their pills are
4 missing so that they get more pills, this is a
5 priority.

6 It's the result of deaths. In the state
7 where I practice, Maine, more people die to
8 prescription overdose last year than from automobile
9 accidents. The cost is very conservatively estimated
10 at \$110 billion.

11 So, again, it would be nice to harness
12 these technologies to that problem, and the system we
13 use involves registering pills which could well have
14 RFID as their indices with serial numbers and the
15 pills written within to register them to
16 prescriptions, not to individual patients. So the
17 federal privacy regulations are respected, and then
18 pills become trackable.

19 There very strong deterrence to either a
20 patient selling a pill or a patient claiming that a
21 pill from his last prescription is lost. So we can
22 put these things together.

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1 Now, the very last point, I promise. I've
2 talked to a number of good people today who have
3 listened to this and said, you know, for the social
4 good, these are very important issues post
5 prescription of use, but honestly, there's no
6 industrial, no financial incentive to do it.

7 Supply chain protection means protecting,
8 The number of pills sale post prescription of use is
9 a more difficult thing to argue for industry.

10 I think that's a mistake and very briefly,
11 who are going to be buying pills in the future? The
12 largest buyers are going to be Medicaid and Medicare
13 programs by far. To a government program, a patient
14 who becomes addicted at age 18 and needs a lifetime of
15 treatment is a direct cost. Individuals who are
16 addicted and steal drugs for year and require police,
17 those are direct costs.

18 So a pill, an abusable pill, whether it's
19 an opioid, anxiolytic, psychostimulant, is very
20 valuable, and I would hope that the buyers will
21 eventually realize this, and again, we are dealing
22 with a global manufacturer who appreciates just this

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1 point.

2 Rimoxy, which some of you know is designed
3 as a somewhat tamper resistant oxycodone, has been
4 valued very, very highly as a patent. If I had a
5 minute of time, I'd tell you why that and two other
6 designs that I've developed for tamper resistance will
7 always be resistance. They will never be tamper
8 proofing.

9 So that again, the serial coding and
10 coupling it to RFID technology is to me very powerful
11 and reasonable.

12 Thank you.

13 MS. GLAVIN: Thank you very much, Dr.
14 Bear.

15 If you have a card and would leave it, I
16 would be grateful. That will help our record.

17 DR. BEAR: As a doctor I never carry
18 cards, but my colleague will bring one to you. Thank
19 you.

20 MS. GLAVIN: Terrific. Thank you so much.

21 Gregg Metcalf of Nosco. Is Mr. Metcalf
22 with us?

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1 (No response.)

2 MS. GLAVIN: Okay. Dan Matlis of Axendia.

3 And again, I invite you to correct either your name
4 or your company as your affiliation if I've gotten
5 them wrong.

6 MR. MATLIS: Thank you.

7 First, I'd like to join all of the other
8 speakers and all the other folks in commending and
9 applauding the FDA for listening to the constituents.

10 I think it's very, very important to get everybody in
11 the same place and to have this discussion around this
12 critical issue.

13 I look forward to a cooperative approach
14 to addressing this very important patient safety
15 issue, and as Dr. Agwunobi said this morning, at the
16 end of the day, it's about our families, our kids, our
17 siblings, our patents, and ourselves who are affected.

18 I have a comment and a question. The
19 first thing I'd like to reiterate is what's been
20 spoken a couple of times, the fact that there's a lot
21 of talk about RFID, and I'm an electrical engineer,
22 and I think there's a lot of promise in RFID. I do

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1 believe that the technology is ready, but technology
2 should be looked at as an enabler and not as a silver
3 bullet or as a solution to all the problems.

4 At the end of the day people who have
5 clearly defined the problem up front, what is it that
6 we're trying to resolve. There is a very important
7 patient safety issue that we're trying to address, and
8 what we should be looking at is what's the issue, and
9 then let the technology folks come up with the
10 standards, with a clear, concise standard so that
11 they're open, so that we can all interoperate and
12 really looking to the agency to enable that as well.

13 Just as technology is an enabler, in a way
14 regulatory compliance is an enabler as well. There's
15 nothing like setting a date or a line in the sand for
16 something to happen, to set at the end goal. And I
17 believe that's very, very important.

18 The second issue is more of a question. A
19 lot of what we heard about over the last couple of
20 days has to do with, first, the fact that I think
21 somebody mentioned it yesterday; a paper Pedigree is
22 not worth the paper that it's written on. We've been

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1 hearing about e-Pedigree and the IT infrastructures
2 that are required and repositories, whether they
3 should be centralized in RFID and bar codes and
4 digitally signing a record, and so on and so forth.

5 But all of these electronic systems need
6 some guidance as well, and my question would be when
7 will the FDA issue a final position on electronic
8 records and electronic signatures on which all of
9 these other systems are based upon. I think it's
10 very, very important for us in the industry to get a
11 clear understanding or a final result or an end goal
12 so that we can use that as a foundation to building
13 all of these technology systems which are needed,
14 which are required and would have great benefit.

15 Thank you.

16 MS. GLAVIN: Thank you very much. And,
17 again, if you'd put your card down.

18 Peter Frei of Hapa Ag.

19 MR. FREI: Well, ladies and gentlemen,
20 what is our goal here? Our goal is an icon feeding.
21 That's at least what I understood yesterday from
22 Andrew von Eschenbach. By the way, Eschenbach is a

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1 town in Switzerland, and I am from Switzerland. I am
2 from a company half of which is a printing company in
3 the pharmaceutical industries for printing in line and
4 packaging line.

5 Anti-counterfeiting is our goal. At least
6 it says it out here. For anti-counterfeiting, what do
7 we need for that? Several speakers said we need a
8 unique serial number, a unique serial number that
9 cannot be counterfeited.

10 We also need means to check this unique
11 serial number very easily, and this unique serial
12 number should be under final item or the last small
13 item, such as a bottle or such as a blister. You
14 know, Europeans are working with blisters. So I hold
15 up a blister.

16 Now, on the final item, it means even this
17 is final items. You can pull them apart. So it could
18 be the last pill on that final item.

19 Now, a unique number to put on this here,
20 what can we do for that? RFID? RFID, I understand
21 they have a unique number on it, which is good.
22 Whether or not this is random or whether or not it's

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1 counterfeit or whatever, I'll discuss here. But
2 putting RFIDs on every single tablet here or at least
3 on a blister is pretty much a challenge financially
4 and also for the whole supply chain.

5 RFID, if you want to check that easily,
6 it's probably not easy to read that as a consumer
7 because I don't have a machine back home, and your
8 kids don't have it, and your wife or your husband
9 doesn't have it.

10 So we cannot read that. It's not easy.
11 You cannot check it over the Internet. So you're
12 depending on someone who tells you it's trustworthy.

13 Again, like others said before, printing.

14 Imagine if you were able to print a unique code on
15 the last item, a unique code which is random, which is
16 not counterfeitable as it is like made out of an
17 alphanumeric number as David Dillon said it yesterday,
18 as Microsoft does it, a unique number where guessing
19 the number is less likely than winning in the lottery.

20 So everybody can read this number.
21 Everybody could go on the Internet and check this
22 number and get a feedback whether or not this final

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1 drug here is really a counterfeit or not a
2 counterfeit.

3 Finally, I would like to say RFID is a
4 really good tool Our company uses that RFID also in
5 our machines for tracking and tracing. For tracking
6 and tracing RFID is perfect, but for anti-
7 counterfeiting, for the purpose you're looking for
8 here, I would suggest go bottom up and first get an
9 identification on the last drug as you actually stated
10 as the goal, and get every consumer. Give him the
11 responsibility also or the possibility at least to
12 check his final drug. Go on the Internet, do it with
13 Hot Line, whatever, and check this identification, and
14 only then he is sure that the chances are less than
15 winning the lottery that he's holding a counterfeit
16 drug in his hand.

17 Thank you.

18 MS. GLAVIN: Thank you very much.

19 Bob Spiller.

20 MR. SPILLER: Hi. Thanks for allowing
21 walk-ons.

22 I don't make or sell anything that they

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1 buy, and I don't make or sell anything that you
2 regulate. I'm a retired person. I am one of the 300
3 million people who will buy what they sell, and if
4 problems happen, I will eat the mistakes.

5 (Laughter.)

6 MR. SPILLER: I think we are here
7 ultimately because of a fear, a fear the Congress felt
8 of counterfeits and diverted drugs in 1988 and because
9 of our continuing fear that that can happen.

10 I analogize that fear to a tiger. Pick an
11 animal you're afraid of, snakes or elephants or
12 something else. So four little observations about the
13 tiger. We need to know the public does, how big is
14 the tiger; how many are there?

15 I know it's hard to determine the scope of
16 the counterfeit problem, but the public will be much
17 more supportive of your efforts if you can estimate,
18 quantify, scientifically determine the likely size,
19 incidence, prevalence, rate of counterfeits.

20 We have an industry that can estimate the
21 size of planets on foreign suns by watching the
22 perturbations in their orbits. We can certainly get

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1 an estimate of the percentage of counterfeits that
2 afflict us, and that will make you stronger in
3 regulating them.

4 Second, please hobble the tiger and not
5 the guard dog. You're the guard dog. When your
6 regulations are stayed, you're hobbling yourself. The
7 public, I think, wants you to control the counterfeits
8 and the diverted drugs and not to allow others to
9 force you to delay your regulations, as this one, if I
10 have listened carefully, has been for 18 years.

11 Eighteen years is a generation. It's not
12 these people who have lobbied Congress to push you to
13 have a stay. It's probably their parents.

14 (Laughter.)

15 MR. SPILLER: And so I hope when you have
16 these regulations finally effective you will find a
17 way to ask the public and the industry did these 18
18 years of stays and delays help you. Did they help
19 your company? If not, would you tell your lobbyist to
20 knock it off?

21 Another thing about the tiger is remember
22 that the tiger does not only kill out of hunger. We

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1 think of counterfeits and the high risk of
2 counterfeits as basically expensive drugs. Not all
3 the people who want to hurt you care about whether the
4 drug is worth anything or whether they're going to
5 make any money.

6 So when you're thinking about what tier of
7 drugs to regulate, please include the generics.
8 Generics move fast. They're widely used. They would
9 be a vehicle for some of the bad people that Haynes
10 reminded us about that are awake 60 percent of the day
11 will try to use.

12 So please don't restrict your regulatory
13 efforts only to high value drugs or previously
14 counterfeited drugs.

15 Finally, please don't ask the tiger to pay
16 for the leash. If you become dependent upon user fees
17 for licenses or registrations, the tiger will have you
18 customize the leash for its comfortable fit and its
19 weak links. The tiger will eventually tell you how
20 far he can be pulled.

21 So I urge you not to become dependent upon
22 user fees. Thank you very much.

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1 MS. GLAVIN: Thank you.

2 Let me ask once more if Gregg Metcalf is
3 here.

4 (No response.)

5 MS. GLAVIN: Okay. Well, then that
6 concludes our open mic session, and I'm going to hand
7 it over to Randy to wrap us up.

8 DR. LUTTER: Thank you very much.

9 I think I have a somewhat unenviable task
10 of trying to offer a summary at the end of what's been
11 an unusual two days. Let me begin by saying please
12 submit comments to the docket, and you can submit both
13 the comment that you prepared formally to present
14 here if you were a presenter or amend those based on
15 something that you may have learned here or something
16 that you discovered to be important between now and
17 the next two weeks.

18 I'd like to begin by thanking all of the
19 panelists. To me this was a very educational
20 experience because in large part the quality of the
21 presentations and the dialogue that results from
22 everybody here.

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1 I'd also like to thank everybody in the
2 room, including everybody who wasn't a panelist. This
3 is fundamentally essentially a cooperative endeavor.
4 We collectively have a problem with counterfeits. We
5 collectively have some responsibility to solve it, and
6 any solution that is successful requires cooperation
7 among the different stakeholders, and this is just one
8 part of a step to find that solution.

9 So I'm grateful for their help. I'd like
10 to offer a special word of thanks to the FDA staff who
11 made the delivery of this conference such a great
12 pleasure, and particularly Ilisa Bernstein, who is
13 sitting to my right, because I found the execution to
14 be great. I even got a cold drink in the middle of
15 the afternoon when I needed it.

16 And I'd also like to offer a word of
17 thanks to the contractors who provided the technical
18 support and the communication with California because
19 they didn't know that Washington was also within reach
20 by airplane.

21 (Laughter.)

22 DR. LUTTER: Let me just review a brief

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1 background. We're here because we perceived last
2 fall at the rate of adoption of RFID, which we've
3 tried to describe only as the most promising
4 electronic track and trace technology, but we had
5 perceived that that had slowed.

6 We earlier had projected that there will
7 be widespread adoption by 2007, and as of last fall,
8 we perceived that that was at risk.

9 So the questions before us today and
10 yesterday have been what obstacles exist to prevent a
11 faster adopting of electronic track and trace
12 technologies to comply with the pedigree requirements
13 of the Prescription Drug Marketing Act.

14 And also, what measures can we adopt to
15 help overcome these obstacles?

16 I think this has been a very good
17 conference and offered really significant educational
18 value, and I mean that in a broad sense, to us. We've
19 had two really good keynote speakers. I'm delighted
20 that both Dr. von Eschenbach and Dr. John Agwunobi
21 were able to participate.

22 The Acting Commissioner showed support for

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1 a variety of technological solutions. The Assistant
2 Secretary for Health showed concern about the
3 potential tragedy from not adopting the best available
4 technology to prevent counterfeit drugs from reaching
5 the sick and the infirm. Those are both two very
6 important messages.

7 We've had some remarkable speakers.
8 Yesterday morning we had what I thought was a very
9 good panel of eight members of a keynote group
10 representing the most important stakeholders. We also
11 had 26 other speakers, talking about RFID. Today we
12 had 16 speakers and a half dozen speakers at an open
13 mic.

14 So I'd like to offer a very brief summary
15 of what I heard, and these are my own reflections. If
16 you think I didn't get it right, you can please write
17 into the docket and say it was a little bit different
18 than that, but this is my unconsidered, not very
19 deliberative summary of just a few messages.

20 And they're grouped a little bit in terms
21 of the areas where there has been some sort of
22 agreement perhaps and areas where there has been much

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1 less of one.

2 With respect to the former, and pilot
3 projects in particular, vendors, wholesalers, and some
4 manufacturers appear to have agreed that pilot
5 projects conducted to date mean that providing real
6 time electronic pedigrees is feasible in production
7 environment with single wholesalers. So, in other
8 words, there's not a Pedigree being implemented or a
9 wholesaler sells a product to another wholesaler and
10 sells a product to another wholesaler again before it
11 goes to a retailer.

12 In discussions with vendors, I believe
13 that some of the vendors have hybrid authentication
14 Pedigree labels. For example, two dimensional bar
15 code and RFID, and these are important because they
16 might work during a relatively lengthy transition to a
17 more widespread even universal RFID adoption.

18 A couple of basis points on the economics,
19 if you will. The first one is that the business case
20 for manufacturers to adopt RFID authentication is
21 strong for some products, e.g., those likely in
22 relative terms to be counterfeited. But that same

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1 business case may not be as strong, may not be strong
2 at all for products more broadly, e.g., including
3 generics or other low value products. That's on the
4 one hand.

5 But then on the other hand, several of the
6 vendors, and I think this was also echoed during the
7 discussion today, have suggested that the cost will
8 fall sharply, but by an unknown amount following
9 widespread adoption. So there hasn't been a lot of
10 discussion of what the price is, and I think that's
11 probably consistent with the idea that price measures
12 to date are going to be overtaken by events following
13 widespread adoption of a future date.

14 Where that leaves us is that the key
15 challenges, the scope, and the timing of a transition
16 to industry-wide use of electronic track and trace.
17 That's really my perception of where we are now.

18 We've heard from the states. I thought
19 that discussion was very enlightening. They wanted
20 the authority to enforce laws against counterfeiting
21 and laws requiring Pedigrees, but they also wished to
22 reserve the discretion to modify standards for

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1 electronic Pedigrees.

2 We had an interesting discussion this
3 afternoon about the future of PDMA Pedigree
4 requirements. You can tell I'm now getting to an area
5 where there's much less of a consensus or a single
6 statement of fact, and there's a broader set of
7 lighter variety of interpretations of the same fact or
8 the same issues.

9 There was no consensus on whether
10 Pedigrees should be given with a manufacturer or with
11 the authorized distributor of record or who would have
12 to provide the Pedigree, whether it would extend to
13 all, including the manufacturers, or simply the non-
14 ADRs.

15 There's no consensus on the ideal timing,
16 in particular, whether we should set a date of X and
17 what that X might be by which there should be a
18 mandatory industry-wide use of electronic track and
19 trace Pedigrees.

20 HDMA offered a couple of interesting
21 comments. There should be a single federal standard
22 required for wholesale licensing, but then some

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1 speakers, including the National Association of Boards
2 of Pharmacy have stressed the importance of setting a
3 definitive date to adopt electronic track and trace
4 Pedigrees.

5 Paper pedigrees we've been told are not
6 practical, that they would grind distribution to a
7 halt. This is not intended in any way to be
8 comprehensive or authoritative. I'm just trying to
9 offer you a preliminary collection of some of the
10 impressions that I've been left with.

11 Let me turn briefly to next steps. These
12 presentations that you saw today, the PowerPoint
13 presentations or anything else that's been up on this
14 screen we will try and post on our Website as soon as
15 possible, likely tomorrow. It will be underneath the
16 counterfeit drug section of the FDA webpage.

17 The docket closes I believe it's two weeks
18 from today, closes two weeks from today. Please,
19 again, submit comments. We will read your comments.
20 We value them. We welcome them. We will issue, as
21 directed by the Acting Commissioner of FDA, a report
22 in May on our findings, and we look forward to

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1 continuing very much a discussion with you then.

2 And we, again, appreciate your
3 participation at this conference.

4 Thank you very much.

5 (Whereupon, at 3:50 p.m., the conference
6 in the above-entitled matter was concluded.)

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