1	THE NATIONAL INSTITUTE FOR OCCUPATIONAL
2	SAFETY AND HEALTH (NIOSH)
3	PUBLIC MEETING ON SAFETY AND HEALTH
4	IN THE HORSE RACING INDUSTRY AND BEST PRACTICES
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8	Tuesday, May 22, 2007
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18	Regency Crystal City, 2799 Jefferson Davis Highway,
19	Arlington, Virginia.

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1	PROCEEDIN	G S
2	WELCOMING/INT	RODUCTIONS
3	MS. HENDRICKS: G	ood morning. Thank you
4	all for coming.	
5	My name is Kitty Hend	dricks, and I'm with
6	the NIOSH Division of Safet	y Research, and I would
7	like to welcome you all to the	e public meeting on
8	safety and health in the horse	racing industry and
9	best practices.	
10	Before we start out thi	s morning, I would
11	like to just make everyone a	ware that we are having
12	transcription services done for	or this meeting. So on
13	the tables, we don't have a lo	ot of microphones. So

- 14 if you make sure you speak clearly and loudly and
- 15 try to identify yourself, we would appreciate it.
- To start this out this morning, I would
- 17 like to take a few minutes for everybody to get to
- 18 know each other. I have spoken with a lot of you on
- 19 the phone, but it's nice to put some faces with the
- 20 names.
- 21 So if we could just start out.
- Do you want to start?

- 1 MR. BAHNO: Yes. My name is Tony Bahno.
- 2 I work for AIG consultants as a safety professional.
- 3 MR. HORNUNG: Carl Hornung, University of
- 4 Louisville.
- 5 MS. FARBEROW: Bonne Farberow, University of
- 6 Pennsylvania.
- 7 MR. STANIUSZ: Andrew Staniusz, Magna
- 8 Entertainment.
- 9 MR. GIBBINS: John Gibbins, NIOSH.
- MS. PAGE: Elena Page, NIOSH.
- MR. COLTON: Robert Colton, retired jockey

- 12 and director of the Delaware Jockeys Association.
- 13 MR. FRAVEL: Craig Fravel, Del Mar
- 14 Thoroughbred Club.
- 15 MR. CASINI: Virgil Casini, NIOSH.
- MS. HENDERSHOT: Peggy Hendershot,
- 17 National Thoroughbred Racing Association.
- 18 MR. WALDROP: Alex Waldrop, National
- 19 Thoroughbred Racing Association.
- MR. HICKEY: Jay Hickey, American Horse
- 21 Council.
- MS. OPACICH: Karin Opacich, University of
- 1 Illinois.
- 2 MR. BOWEN: Ed Bowen, Grayson Jockey Club
- 3 and Research Foundation.
- 4 MR. WATERMAN: Scot Waterman, Racing
- 5 Medication and Testing Consortium.
- 6 MR. JOHNSTON: Jeff Johnston, The Jockey's
- 7 Guild.
- 8 MS. STOUT: Nancy Stout, NIOSH.
- 9 MR. HEARL: I'm Frank Hearl with NIOSH.

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 10 MS. SCHNORR: Terri Schnorr with NIOSH. 11 MR. OTTERBACK: David Otterback with NIOSH. 12 MS. BULIK: Cindy Bulik, University of 13 North Carolina, Chapel Hill. 14 MR. DEMARCO: Tony DeMarco with the 15 Thoroughbred Racing Association. 16 17 MS. COUILLARD: Lauren Couillard with BNA. 18 MS. CASTILLO: Dawn Castillo for NIOSH. 19 MR. SEFTEL: I'm Dr. David Seftel. I'm 20 medical director of Golden Gate Fields and Baymeadows. 21 MS. HENDRICKS: Before we get started this 22 morning, we do have a change in the agenda. 1 We are just going to flip flop 2 Dr. Seftel's presentation with Dr. Hornung's. If 3 you will just make that adjustment, and then we will 4 get started. 5
 - Frank is the chief of staff for NIOSH, and he is

I would like to introduce Frank Hearl.

8	going to be doing our opening comments this morning.
9	OPENING COMMENTS
10	MR. HEARL: Thank you, Kitty.
11	Good morning and thank you. My name is
12	Frank Hearl, and I am Chief of Staff for the
13	National Institute for Occupational Safety and
14	Health.
15	On behalf of our Director, Dr. John
16	Howard, and the management and staff of the
17	Institute, particularly those involved in arranging
18	this meeting, I want to welcome you to the meeting.
19	I want to thank you for taking time out of
20	your busy schedules to come here and share with us
21	your expertise and your experience related to the
22	safety and health in the horse racing industry. 8
1	For those of you who may not be familiar
2	with the National Institute for Occupational Safety
3	and Health, NIOSH is a part of the Centers for
4	Disease Control and Prevention, the CDC, which is in
5	the Department of Health and Human Services.

6	The Occupational Safety and Health Act of
7	1970 created both NIOSH and the Occupational Safety
8	and Health Administration, OSHA. OSHA is in the
9	U.S. Department of Labor, and it is responsible for
10	developing and enforcing workplace safety and health
11	regulations.
12	As I said, NIOSH is the federal agency
13	responsible for conducting research and making
14	recommendations for the prevention of work-related
15	injuries and illnesses.
16	We are not a regulatory agency.
17	NIOSH's mission is to conduct occupational
18	safety and health research to identify health and
19	safety risks for workers, and to develop and
20	evaluate interventions; that is, preventive measures
21	that can be taken to reduce or eliminate the risks
22	of disease or injury.
1	NIOSH uses the results of our

3 to regulatory bodies, such as OSHA, but we also

investigations to make science-based recommendations

- 4 disseminate our findings to the public and to other
- 5 stakeholders, including labor, industry, equipment
- 6 manufacturers, academic researchers, and others who
- 7 can work with us in partnership to reduce workers'
- 8 risks.
- 9 To the best of my knowledge, NIOSH has not
- 10 previously studied the horse racing industry, so
- 11 this is a new venture for our NIOSH scientists. We
- became involved in this area after a request from
- 13 Congressmen Bart Stupak from Michigan and
- 14 Congressman Edward Whitfield from Kentucky.
- In 2005, the House Energy and Commerce
- 16 Committee's Subcommittee on Oversight and
- 17 Investigations held a series of hearings on a need
- 18 for adequate on-track injury insurance for jockeys
- 19 and other racing industry workers. Those
- 20 Congressional hearings created an awareness and
- 21 revealed a number of serious hazards that jockeys
- 22 and other racetrack workers face that can cause 10
- 1 serious and disabling injuries and even fatalities.

- 2 It was this raised awareness that prompted
- 3 Congressmen Stupak and Whitfield to ask NIOSH to
- 4 investigate.
- 5 Because the horse racing industry is not
- 6 something that NIOSH is well acquainted with, we
- 7 began our efforts to learn more about the industry.
- 8 We began with an extensive review of existing
- 9 scientific and medical literature.
- 10 Our scientists have visited the Keeneland
- 11 racetrack in Lexington, Kentucky, and interviewed
- 12 jockeys about their safety and health concerns. Our
- 13 scientists also met with the director of the North
- 14 American Racing Academy and the regional Jockey's
- 15 Guild representative.
- We are in the process of conducting, also,
- 17 a research-based investigation into the recent death
- 18 of a 65-year-old jockey at a racetrack in St. Croix,
- 19 using our Fatality Assessment and Control
- 20 Evaluation, also called the FACE program. This FACE
- 21 investigation will produce a narrative report
- 22 describing the circumstances of the events and will

- 1 make recommendations for preventing future deaths
- 2 under similar circumstances.
- 3 NIOSH will also be conducting additional
- 4 investigations of deaths or severe injuries in
- 5 jockeys or other racetrack workers as we become
- 6 aware of them. We will consider conducting this.
- 7 We won't be conducting all fatality investigations.
- From our efforts to date, we have learned
- 9 many of the safety and health issues that are
- 10 challenges for the horse racing industry today.
- Of course, one of the most pressing
- 12 challenges has been stated to us as, How do you keep
- 13 a 115-pound rider riding an 1,100-pound animal going
- 14 40 miles an hour safe?
- There are obviously inherent dangers
- 16 associated with horse racing. There are some ways
- 17 to make things somewhat safer and to reduce the
- 18 risks.
- 19 New technology has made helmets and vests
- 20 more protective. Padding installed in the starting
- 21 gates and advances in the design of safety rails

22	have made important advances in reducing the risk of
	12

- 1 injury to jockeys and other track workers. And we
- 2 recognize that there may be other promising
- 3 technologies that we are not aware of, and we hope
- 4 that you will assist us in identifying them.
- 5 Many of these risk-reducing measures have
- 6 been adopted by the horse racing industry. We are
- 7 interested in learning about best practices that may
- 8 be adopted by some, but could be widely adopted to
- 9 benefit the industry as a whole.
- We also understand that jockeys are not
- 11 the only workers at risk. It appears that workers,
- 12 across the board, from grooms to exercise riders and
- 13 starters to outriders, are all subject to injury.
- 14 Again, we elicit your assistance in
- 15 identifying risks for all workers involved in the
- 16 horse racing industry, as well as promising
- 17 prevention strategies for improving their safety.
- We have learned of many concerns
- 19 surrounding the health of jockeys as well. Beyond

- 20 the obvious concerns surrounding weight requirements
- 21 and nutrition, we have learned of other health
- 22 issues, such as the consequences of repeated head
- 1 traumas, musculoskeletal concerns due to the
- 2 jockey's posture while racing, and exposure to lead
- 3 in jockey's rooms.
- 4 So far, we have discovered a great deal,
- 5 but we understand that there is much left for us to
- 6 learn about this industry, which is why we are here
- 7 today. This meeting is another venue for NIOSH to
- 8 learn about safety and health of workers in the
- 9 horseracing industry.
- 10 It is our hope that you, as the experts in
- 11 the industry, can help us become more informed about
- 12 the many issues related to safety and health in the
- 13 horse racing industry.
- In addition to participating in this
- 15 meeting today, we hope that you will also take the
- 16 time to submit written comments to the NIOSH docket,
- 17 which will we have identified as Docket No. 104,

18 which will continue to be open for comments after this meeting and up through June 22. 19 20 From this meeting and the written 21 submissions to the docket, we hope to be able to 22 better focus our efforts in this area. From this effort, we hope to develop 1 recommendations for protective equipment, improved 2 3 work practices, work environment, and rules which may eliminate or mitigate the dangers workers in 4 this industry routinely confront. 5 We appreciate the willingness of you to be 6 7 here today, to join us today. We are looking forward to learning from the presentations, and we 8 hope to have a very productive meeting. 9 10 Once again, thank you for your attendance 11 and for your participation. Kitty. 12 MS. HENDRICKS: If we could go ahead and 13 jump right into the presentations. 14 15 THE HEALTH STATUS OF THOROUGHBRED JOCKEYS:

16 RESULTS FROM THE JOCKEYS' HEALTH SURVEY 17 MR. HORNUNG: Good morning. It is a pleasure to be here and to have an opportunity to

- 19 talk about such an important topic.
- 20 My name is Carl Hornung, and I'm an
- epidemiologist at the University of Louisville 21
- 22 School of Public Health and Information Sciences and 15
- Professor of Medicine at the University of 1
- 2 Louisville.

- 3 What I will talk about today is the health
- status of the thoroughbred jockeys and results of 4
- 5 some survey work we have done with the jockeys.
- 6 First, let me comment on and introduce the
- study team. 7
- 8 Along with myself is Bonne Farberow, who
- 9 is also on the agenda for presentation later this
- 10 afternoon. Lee Goldberg, also from the University
- of Pennsylvania, as is Bonne and Dave Seftel, who 11
- you have already met. He will also be presenting. 12
- And Barry Broad, who is the attorney for the 13

- 14 Jockey's Guild.
- The health interview survey that we did
- 16 was really an adaptation of the national health
- 17 interview survey, which some of you probably know is
- 18 a 35-page self-administered questionnaire. We
- 19 prepared it in both English and in Spanish.
- We administered it at a group setting at
- 21 the 2006 annual assembly in Las Vegas of the
- 22 Jockey's Guild.

- 1 All senators and board members were
- 2 required to attend that meeting, and all Guild
- 3 members were encouraged to attend.
- 4 And what I want to make clear is that the
- 5 data that we have collected from these 51 jockeys
- 6 probably reflects a healthy worker effect.
- 7 And, as you can probably surmise, the
- 8 healthy worker effect means that you are getting
- 9 data from the healthiest of the cohort rather than
- 10 the least healthy. Many of those probably did not
- 11 attend.

12 The survey content included demographics, 13 jockey safety and track facilities, anchor track 14 medical facilities, injuries and medical care that 15 occurred to jockeys both during exercise periods as 16 well as during races. Their medical history, both in terms of 17 acute and chronic conditions, and their health 18 19 behaviors, their general health behaviors, smoking 20 and alcohol consumption, and in particular health 21 behaviors related to their weight control issues. So 28 percent of the jockeys began their 22 1 career before age 18, and 50 percent before age 20, 2 and some 75 percent before age 22. 3 The reason I present the data that way is 4 to alert you to the fact that jockeys who begin, or 5 individuals who begin a career by age 18 have really 6 foreclosed and shut down a number of other opportunities. 7 8 Jockeys must then become involved in the

sport, and tend to have fewer opportunities, for

- 10 example, for completing a college education or
- 11 embarking on some other type of career.
- 12 Among the jockeys that we interviewed,
- 13 some 70 percent had been riding for more than 15
- 14 years, and some 32 percent had been riding for more
- 15 than 20 years.
- So you can see we have data from a fairly
- 17 experienced cohort of jockeys. And, again, as I
- 18 said earlier, it probably reflects the healthy
- 19 worker effect.
- The age of the respondents, our mean age
- 21 was some 39, median was 38, and the standard
- deviation, for those of you who are interested in 18
- 1 statistics, was some 7.6 years.
- 2 Ninety percent of the jockeys told us that
- 3 they ride year round, and 70 percent ride both night
- 4 and day races. About 70 percent ride three, four,
- 5 or five races in a typical day, and over 80 percent
- 6 regularly exercise horses each morning.
- What is interesting about that is four of

- 8 the five who regularly exercise horses do not
- 9 receive any extra compensation for their exercise
- 10 work.
- 11 Injuries while riding or injuries that
- 12 occurred during exercise periods, first, alert you
- 13 the fact that the morning exercise period is the
- 14 most dangerous, largely because of the large number
- 15 of horses that are on the track during that time and
- 16 the fact that it is dark or not full daylight, and
- 17 the fact that the horses are going in every which
- 18 direction rather than simply around the track in a
- 19 circular fashion.
- 20 Sixty-two percent of the jockeys say they
- 21 have suffered an injury that has prevented them from
- riding that day. Fourteen jockeys told us that they 19
- 1 reported suffering a total of 33 injuries while
- 2 exercising horses within the past 30 days.
- 3 So you can see that injuries are highly
- 4 prevalent in this group, particularly during the
- 5 exercise periods.

6	Half of the 14 jockeys reported that there
7	was no physician on the grounds when they were
8	injured. Two reported that the ambulance crew never
9	came to their aid.
10	And Jeff Johnston from the Jockey's Guild
11	is here, and perhaps he will comment a little bit
12	later on some of the cases that he is familiar with
13	and illustrations of this kind of problem.
14	Let's talk about injuries that occur while
15	racing.
16	Ninety-eight percent say they have been
17	injured at least once while racing. Fifty-six
18	percent reported ten or more injuries over their
19	careers.
20	Again, ten injuries while racing, not just
21	ten injuries total. It doesn't include the exercise
22	time.
	20

Forty percent say they have been injured
and taken to the ER or hospitalized within the past
month.

4	Now,	what is	important	about	that is	that

- 5 the frequent ER visits involve increased exposure to
- 6 CT scans and x-rays and result in that jockey having
- 7 10 to 15 times the radiation exposure than the
- 8 general population, which probably accounts for what
- 9 we perceive to be a high rate of head and neck
- 10 cancer.
- 11 Let's talk about the medical care for
- 12 injured jockeys.
- Twenty-six percent told us there was no
- 14 physician available at the track to provide
- 15 emergency care. Six jockeys claim to have suffered
- 16 permanent physical harm that could have been
- 17 prevented if better medical care was available.
- 18 Three said their injuries were career ending.
- 19 The prevalence of selected chronic
- 20 conditions that we looked at, over 30 percent report
- 21 arthritis. Some 15 percent report cardiac
- 22 arrhythmias, 15 percent with asthma. 13 percent

1 report ulcers, and some 15 percent report kidney

- 2 stones.
- 3 That's at least five times higher than the
- 4 general population. And, again, we think this is a
- 5 healthy worker effect, so we suspect that those
- 6 problems are a little bit higher. And Bonne
- 7 Farberow will present some data that would also
- 8 suggest that.
- 9 Let's take a look at some of the other
- 10 chronic conditions or symptoms.
- 11 Twenty-six percent report limitations of
- 12 daily activity by symptoms of arthritis.
- 13 Seventy-seven report low back pain. Thirty-six
- 14 percent say they have had migraines or severe
- 15 headaches within the past three months.
- Sixty-two percent say that they have had
- 17 symptoms of depression. Thirteen percent say they
- 18 have tried but were unable or unsuccessful at having
- 19 children. That, again, is four to the five times
- 20 higher than the general population.
- 21 Track and jockey safety issues.
- About two-thirds of the tracks, according

- 1 to these jockeys, have safety rails. About 90
- 2 percent use a flak jacket. Only about 10 percent
- 3 use the European safety helmet, and only about 2
- 4 percent use safety reins.
- 5 In spite of the fact that 56 percent of
- 6 the jockeys tell us they have had reins snap during
- 7 the race, still only 2 percent use these safety
- 8 reins. Whether that's the choice of the jockey or
- 9 the trainer, we are unclear on.
- 10 Let's look at some lead exposure from dust
- 11 wipe data that was collected in 2003.
- 12 Two dust wipes were done, one on the scale
- and the other where the saddles are placed between
- 14 races.
- The EPA says that 350 micrograms per
- 16 square foot is the upper limit of allowable lead
- 17 concentration for floors, and 200 micrograms per
- 18 square foot is the upper limit for window sills.
- This is what we find at 42 tracks across
- 20 the country. The mean is 3,521 micrograms near the

21 scale. The valet table, the mean is some 1,339

22 micrograms.

23

1 Notice that the 25th percentile for the 2 scale is still five times above, or six times, six 3 and a half times above the recommended limit for a floor. 4 5 The 25th percentile is acceptable for the valet table, but look what we find for the 50th and 7 75th percentile, incredible levels of lead. 8 As a matter of fact, there is one track of the 42 that has 18 grams per square foot, when the 9 recommended limit is 50 micrograms. 10 11 More than 90 percent of the jockeys in our 12 survey tell us that they have never had a blood lead level done. That, we think, is a significant issue 13 that needs to be addressed. 14 15 And given the fact that the valet table and other areas within the jockeys room is an area 16 where jockeys' kids congregate and where others in 17 the industry congregate, we think it is essential 18

- 19 that others be tested as well, which include the
- 20 jockeys' children and significant others.
- 21 Let's look at the behavioral risk factors.
- 22 40 percent smoke, but 54 percent are exposed to 24
- 1 secondhand smoke in the jockeys room. The 40
- 2 percent who smoke, that's about 1.9 times the
- 3 national average, which is about 22 or 23 percent of
- 4 the individuals smoking.
- 5 As for alcohol, 89 percent use alcohol.
- 6 25 percent say that they drink daily.
- Now, let's look at the highest and lowest
- 8 body mass index for the past year. This I think is
- 9 a very telltale and very informative slide. If we
- 10 can take just a minute to work our way through it.
- The red line indicates the distribution of
- 12 body mass index. For their lowest BI, which is
- 13 weight divided by height squared, this is the lowest
- 14 level that they have achieved over the past year,
- and this is the highest level that they have
- 16 achieved over the past year.

- The mean is 19.3 for the lowest, 20.9 for
- 18 the highest.
- What is really significant is the value of
- 20 18.5, which is this line here, is the -- below that
- 21 is what we call underweight. This is morbidly
- 22 underweight.

- 1 And you will notice that that's 32 percent
- 2 of the jockeys, or 32 percent of the distribution
- 3 for jockeys at their lowest level, which is probably
- 4 the level that they were at if they were actively
- 5 riding.
- 6 The highest level, of course, is most
- 7 likely to be in the off season. Off season, still
- 8 nearly 10 percent are morbidly underweight.
- 9 In order to make weight, what would a
- 10 typical jockey do? We asked them, If you gained a
- 11 pound, what would you do? Well, some 22 percent say
- 12 they would purge. Some 35 percent say they would
- 13 skip a meal. 31 percent said they would use the
- sauna, and 41 percent said that they would run.

Certainly running would be the best
option.
Sauna is dangerous, and there are
instances of serious health problems resulting from
excessive use of the sauna. Certainly skipping a
meal is not a wise way to proceed.
And when it says 22 percent or 21 percent
purge, that's, we believe, a significant 26
underestimate of the true prevalence of purging
behavior.
As you probably are well aware, purging
behavior results in a number of other health
problems, including Barret's esophagus and loss of
teeth, or at least the reduction of the enamel on
the teeth. Many jockeys who purge end up with false
teeth.
In addition to or those behaviors are
in addition to those regularly used behaviors each
week.
Sixty percent take diet pills. Another

- 13 60 percent also take water pills, particularly
- 14 Lasix. Sixty percent use laxatives, and some 58
- 15 percent use other medications.
- Let's look at the use of the hot box.
- Some 80 percent say what they use the hot
- 18 box, at least occasionally. Twenty-five percent say
- 19 they use it daily. In spite of that, only some 15
- 20 percent say that the hot box that they use is
- 21 cleaned on a regular basis. And, nevertheless, 50
- percent still report that they see mold in the hot 27
- 1 box that they are in at the track. That's a
- 2 correctable problem.
- 3 Let's look at the issue of being fit to
- 4 ride.
- 5 Forty-one percent of jockeys say they have
- 6 experienced a dizzy spell or passed out just before
- 7 a race. Twenty-four percent said they felt dizzy
- 8 during a race. Forty-eight percent said they felt
- 9 dizzy or passed out following a race. Seventy-five
- 10 percent reported at least one instance of not

11 feeling well enough to ride. 12 Only 53 percent said that the stewards would allow them to take off from their mount. And 13 in less than 30 percent of the cases was there a 14 physician available to evaluate the jockey's fitness 15 16 to ride, clearly a problem, and a problem that one 17 of my colleagues and I are addressing with some research. 18 Peter Quesada is an engineer at the 19 20 University of Louisville in the speed school, 21 automechanical engineer. He and I are doing some studies with healthy volunteers working with one of 22 28 our medical students to look at performance on a 1 wobble board, which is a board atop of a hemisphere. 2 3 And when the individual tries to balance, we assess 4 this evidence, and we can calculate all of their 5 movements in an attempt to maintain their balance. 6 And we are doing this over the course of a

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So we are looking at blood glucose levels

day, asking them to fast.

7

- 9 and the relationship between blood glucose levels,
- 10 as well as some electrolytes, and their performance
- 11 on the balance board.
- The interesting part about that, the
- 13 implications of that are that if we find low levels
- 14 of glucose and poor electrolytes lead to balance
- 15 problems, you can imagine what that means to a
- 16 jockey who has probably fasted most of the day
- 17 during the racing season.
- Let's look at a study that we propose
- 19 doing. We have entitled this, Health Examination At
- 20 the Race Track, or HEART.
- It is a grant application that we made to
- NIOSH that we submitted back in February in response
- 1 to a program announcement from Occupational Safety
- 2 and Health Research. It's an RO1 grant for some --
- 3 close to \$2 million we have requested. It's a
- 4 collaborative effort involving myself and Peter
- 5 Quesada at the University of Louisville.
- We also employ two graduate students, one

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 7 from the School of Public Health and one from engineering. And the School of Public Health 8 student we have already identified, who as a degree 9 in physics and biology from the University of 10 Virginia. 11 The study also involves Lee Goldberg and 12 Bonne Farberow from the University of Pennsylvania, 13 and Dave Seftel and Barry Broad from the Jockey's 14 Guild. 15 16 We also have an advisory board, and I recognize the names of some of you from your 17 introductions. 18 From the Jockey's Guild, there is John 19 20 Velazquez. From NTRA, Craig Fravel. 21 Craig, we look forward to working with you 22 on the study.

- 1 From the Grayson-Jockey Club Research
- Foundation, Ed Bowen. We look forward to working 2
- with you. 3
- From Magna Entertainment, Mr. Mills. From 4

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 5 Churchill Downs, Inc., Mr. Sexton. 6 The California Medical Association is represented as well as the California Horse Racing 7 8 Board. That's the advisory board to oversee what we want to do. 9 Here are the objectives of what our 10 11 research interests are in this field. 12 First, to assess jockey health history and their current health status, at least of the sample 13 jockeys, and assess changes by repeat physical and 14 15 examinations and health interviews at a year. We propose to do about 12 tracks across the country, 16 and probably 20 to 25 jockeys at each of the tracks. 17 18 We want to determine the prevalence of 19 occupational, environmental, and behavioral risk
 - 20 factors, particularly those related to mandated 21 weight limits; and we want to assess their impact on

1 Thirdly, we want to determine physiologic

the jockey's health status.

22

2 changes in homodynamic parameters and blood glucose

- 3 that occur over a typical race day and assess their4 impact on balance and muscle fatigability.
- 5 That's part of the research we have
- 6 already begun these in pilots with Peter Quesada and
- 7 our medical students.
- 8 And finally, we want to compare health
- 9 status and occupational, environmental, and
- 10 behavioral risk factors within and between states to
- 11 identify potential ways in which federal agencies,
- 12 particularly NIOSH and OSHA, state and industry
- 13 stakeholders can improve the safety and health of
- 14 thoroughbred racehorse jockeys.
- 15 And with that, I would be glad to answer
- any questions, or would you prefer we hold questions
- 17 for later?
- 18 I'll take questions now.
- 19 Yes?
- 20 MS. HENDERSHOT: You said you had 51
- 21 participants?
- MR. HORNUNG: I'm sorry?

1 MS. HENDERSHOT: Fifty-one participants. 2 Is that... MR. HORNUNG: Fifty-one, that's correct. 3 MS. HENDERSHOT: Have you-all considered 4 mailing the survey to the Jockey's Guild members or 5 something else? Because I believe there is more 6 7 than a thousand --8 MR. HORNUNG: Yeah, there is probably 9 about 1,600. 10 Yes, there are some discussions underway 11 and some intentions of doing that, but at this point, we have not had the time or the opportunity 12 to do it. 13 14 But, yeah, but there are certain kinds of 15 problems that will be -- that that will introduce, 16 not the least of which is the language problems. 17 So we will have to mail them probably in 18 both in English and Spanish and figure out some way 19 of assisting them. But, yeah, we do need more. We do need 20 21 much more data.

Any other questions?

1	MS. HENDERSHOT: You said 90 percent had
2	never had a blood lead, which implies that if you
3	had had a blood lead taken, do you know the results
4	of those blood leads that of people who had them
5	drawn?
6	MR. HORNUNG: No, I don't. No, I don't.
7	Dr. Seftel will have some comments on that
8	a little later, I'm sure.
9	Bonne, did you have something?
10	MS. FARBEROW: Actually, the additional
11	percentage, we didn't know whether (inaudible).
12	MS. HENDRICKS: May I ask everybody to
13	please just speak up so that the court reporter can
14	hear?
15	MR. HORNUNG: Anything else?
16	Well, thank you very much for your
17	attention, and I hope that was helpful.
18	MS. HENDRICKS: Thank you. Next we have
19	Craig Fravel from the Del Mar Thoroughbred Club. He
20	is going to be talking about on-track safety

- 21 programs in thoroughbred racing.
- 22 ON-TRACK SAFETY PROGRAMS FOR THOROUGHBRED RACING 34
- 1 MR. FRAVEL: Thank you.
- What I thought I would do coming in here,
- 3 I gave some testimony in front of the select
- 4 committee in Congress a year ago that related to a
- 5 jockey in California by the name of Alex Solis.
- 6 On July 24, 2004, Alex was riding a dark
- 7 brown four-year old mare named Golden KK in a
- 8 \$32,000 claiming race at Del Mar. Although Alex's
- 9 mount was fading from contention in the race in the
- 10 seventh position, an apprentice rider also out of
- 11 contention cut Alex off along the rail.
- Those two horses clipped heels, a term in
- 13 horse racing that basically means they tripped over
- 14 one another. And the apprentice's horse and Alex
- 15 fell to the ground.
- While the horse was fine, Alex rolled
- 17 under the safety rail near the quarter pole and
- 18 remained there, as his training as well as instincts

- 19 led him to do.
- In about 30 seconds, he was attended by
- 21 two emergency medical technicians that were in an
- 22 ambulance following the race, as is true with every 35
- 1 single race in California that is conducted under
- 2 California licensed racing association.
- 3 Alex was placed on the board, immobilized,
- 4 and transported to an onsite medical clinic at the
- 5 racetrack where he was immediately attended by a
- 6 physician who determined that Alex should be
- 7 transported to a local emergency room for further
- 8 evaluation.
- 9 While Alex was being transported, the
- 10 races resumed with a backup ambulance that is also
- 11 located at the racetrack during the time. And no
- 12 race would continue without an ambulance, who are
- 13 also required to go to a hospital or elsewhere.
- 14 Alex was eventually diagnosed with a
- 15 fractured vertebra, three broken ribs, and was
- 16 operated on at the University of California, San

- 17 Diego Medical Center.
- 18 Unfortunately, he was unable to return to
- 19 work for six months, yet still managed to rank
- 20 nationally -- ninth nationally in total purse
- 21 earnings in 2004 with about eleven and a half
- 22 million dollars.

- 1 While this is an unfortunate story, the
- 2 silver lining is in the fact that the trainer of the
- 3 horse that Alex was riding was required by the rules
- 4 and regulations of the California Horse Racing Board
- 5 to maintain a policy of workman's compensation
- 6 insurance. That policy covered Alex to the same
- 7 extent as any other worker in California would be
- 8 covered in the event of a work-related injury.
- 9 Under the terms of that policy and
- 10 California law, Alex's medical expenses were covered
- 11 to the extent required to cure or relieve the
- 12 effects of the injury with no deductible or co-
- 13 payments by Alex.
- 14 He was also entitled to temporary

- 15 disability benefits to replace lost wages. And had
- 16 he been unable to return to his profession, he would
- 17 have been entitled to permanent disability benefits
- 18 and supplemental job displacement benefits.
- 19 The cost of that insurance was paid by the
- 20 trainer of Golden KK, and in the case of the rider,
- 21 billed to the owner of the horse.
- Under two programs authorized by 37
- 1 California law, the cost of that insurance is
- 2 subsidized by racetracks and horsemen through a
- 3 variety of funds derived from wagering on California
- 4 races.
- 5 In addition, every California track pays
- 6 for supplemental catastrophic injury insurance
- 7 through a TRA sponsored group program that would pay
- 8 significant benefits in the event of permanent
- 9 disability or death.
- What this story illustrates in part is the
- 11 leadership role California has assumed in the
- 12 thoroughbred racing industry with regard to jockey

13 safety and health issues. 14 It is one of five states that currently 15 mandates workers' compensation coverage for jockeys 16 and exercise riders, and one of two that provides 17 funding through wagering dollars to provide health insurance for jockeys and their dependents. And 18 19 that may have expanded by one more recently, but I'm 20 not quite positive about that. 21 But at least all of our -- California provided health insurance for jockeys and their 22 families. 1 2 Racetracks, horsemen, and representatives 3 of the riders have worked together for years in California to develop legislative and regulatory 4 5 standards for track safety and to contribute significant funding to the Disabled Jockeys 6 7 Endowment. 8 Del Mar was the first racetrack in the United States to install the Fontana safety rail on 9

its dirt track, an innovation that has saved lives

- and prevented serious injury since its installation.
- More recently, we have worked closely with
- 13 the California Horse Racing Board and Barry Broad,
- 14 whose name you have heard mentioned here, to pass AB
- 15 1180, a bill signed into law by Governor
- 16 Schwarzenegger in 2005. That new law memorializes a
- 17 number of safety and health initiatives for the
- 18 benefit of California riders, including a peer
- 19 reviewed academic nutritional and health assessment
- 20 designed to provide a scientific basis for future
- 21 policy decisions concerning the jockey scale of
- 22 weight and nutrition and weight management programs.

- 1 We have completed the first phases of that
- 2 through Dr. Dan Benardot of Georgia State
- 3 University, and hope to begin releasing some of that
- 4 data and information as soon as the data analysis is
- 5 completed.
- 6 Moreover, California is the only -- to my
- 7 knowledge, is the only state in the country to
- 8 require a postmortem examination of every horse that

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 9 dies on the grounds of a licensed racetrack or 10 training center. 11 That requirement has enabled the industry 12 to support and benefit from research into the causes 13 of catastrophic injuries to horses conducted by the University of California at the Davis School of 14 15 Veterinary Medicine. 16 That research most recently led to the 17
 - adoption of a regulation limiting the use of horseshoes with toe grabs on California racing 18 19 surfaces based upon findings that there is a significant correlation between the use of medium 20 and high toe grabs and the incidence of catastrophic 21 limb failure in horses while racing or training. 22

- 1 Similar research has and will continue to 2 contribute significantly to our ability to increase 3 safety for horses and riders as we are more able to confidently identify the causes of injury and 4 5 attempt to prevent them before they occur.
- 6 This is a point I think worthy of some

7	amplification here.
8	There is an i

- n intricate relationship,
- obviously, between horse and rider, not only for the 9
- success of a racehorse and a rider, but also for 10
- 11 their mutual safety. And I think that is something
- 12 that we tend to overlook a little bit.
- Every time most -- and I think probably 13
- the research that has been conducted would verify 14
- that most of the musculoskeletal injuries that 15
- 16 happen with riders is a result of either the horse
- breaking down or falling off. 17
- 18 And to the extent that we can reduce or
- eliminate injuries to the horses, we can have a 19
- marked and positive effect on the number of jockey 20
- injuries as well. 21
- 22 To that end, California has recently been 41
- 1 the only state in the country to mandate the
- 2 installation of what have been referred to as
- engineered synthetic racing surfaces. They are used 3
- for both racing and training purposes.

_	D.I.M. day ' at a seed at 1.11.
5	Del Mar has just completed the
6	installation of a surface known as polytrack. And
7	while the data is green in the insurance returns, we
8	firmly believe, based on earlier results, that the
9	reduction in the level of injuries to horses and
10	riders can be reduced through these surfaces by as
11	much as 80 percent.
12	And I think if your NIOSH team has spent
13	any time on the racetrack, you would have seen
14	probably the preeminent example of a polytrack
15	surface in action where injury rates have been
16	dramatically reduced in the past year and a half.
17	I personally am incredibly encouraged by
18	the development of these racetracks and their
19	ability to reduce the kinds of minor injuries that
20	ultimately result in major and significant injuries
21	to horses through training and exercise.
22	As I mentioned earlier, racetracks in 42

- 1 Southern California operate under probably the most
- 2 comprehensive series of safety and -- safety

- 3 requirements of any in the country.
- 4 We have annual safety inspections by the
- 5 California Horse Racing Board to ensure our
- 6 compliance with those regulations. We meet
- 7 regularly the Jockey's Guild representatives to
- 8 identify problem areas and work together on those.
- 9 The new legislation I mentioned also
- 10 contains provisions in it requiring the Racing Board
- 11 to certify from a safety standpoint the jockey vest
- 12 as well as safety helmets. And I believe there is a
- 13 conference going on simultaneous with this one to
- 14 begin -- or to make some progress on the work of
- 15 enhancing the level of equipment that is used by
- 16 jockeys in races, and, of course, also evaluating
- 17 the use of safety rings in California.
- I did want to take a brief opportunity, if
- 19 it is okay with you, Kitty, to introduce Robert
- 20 Colton, who works with the jockeys at Delaware Park,
- 21 and Robert has instituted some novel approaches with
- 22 management there to enhance safety cooperation

- 1 between racetracks and jockeys.
- 2 And I thought it would be helpful for him
- 3 to kind of finish off my portion of this.
- 4 MR. COLTON: Thank you, Craig, for putting
- 5 me on the spot here.
- 6 If it seems like I'm slightly prepared, I
- 7 am. And hopefully I won't make my thoughts too
- 8 incoherent, just a little too much wine last night.
- 9 Anyway, a lot of problems that -- I should
- 10 say a lot of issues that come up with safety are
- 11 local.
- Now, I think that as we move forward in
- 13 trying to design protocols for a safer racetrack and
- 14 working environment for riders, a lot of it has to
- 15 be done locally.
- What we did in Delaware last year, I went
- 17 to management, Bill Paisley (phonetic), and said, We
- 18 need a safety committee. We have a lot of issues
- 19 locally, and there are a lot of idiosyncrasies at
- 20 any track in terms of maintenance, the rail, you
- 21 know, things that happen at that particular track

1	And I said, We really need all of the
2	departments there so we can get things done very,
3	very quickly.
4	In addition, you know, to gain that's
5	to gain the respect of the participants around the
6	horse. And also we need some serious backbone to
7	this, some serious bite on the racing commission.
8	We dealt with a lot of different issues.
9	We have a state-of-the-art warning system that has
10	lights and sirens, for example. And when those
11	sirens go off, there is a loose horse in the
12	morning, you have no second warning.
13	You are to immediately pull your horse up,
14	and we implemented an enormous fine. It is \$2,500
15	because that's how serious we take the safety issue
16	in Delaware. But we have resolved a lot of other
17	issues.
18	We have kept a lot of accidents from

19 occurring. We have given our outriders enormous

- 20 power. At any time they feel anybody out there on
- 21 the track or any horse is unsafe, they can
- 22 immediately remove that horse or rider.

- 1 Some of the other issues that we have
- 2 dealt with, we are in the process of designing some
- 3 new whips -- we have tested a few already and didn't
- 4 like them -- which would be a Pro Cush whip, trying
- 5 to be a little more humane, and not pushing the
- 6 horses past their capability.
- 7 On the insurance side, we did institute a
- 8 program recently that expanded our on-track coverage
- 9 from 1 million to 2 million. And more importantly,
- 10 the coverage went from two years to five years.
- And we really took a different approach to
- 12 this in that we went to management and said, Look,
- 13 we are independent contractors, and we can't keep
- 14 going to -- our horse -- the tracks keep expanding,
- 15 coming up a cost. And that -- the cost of the
- 16 additional insurance is picked up by the riders.
- So, you know, we now have workers' comp,

- 18 arguably the best on-track insurance in the United
- 19 States.
- I'm just trying to think of some of the
- 21 other issues that we deal with.
- We got to developing Philadelphia Park, a 46
- 1 track that is only about 60 miles away from us. And
- 2 I participated yesterday in their first safety
- 3 committee meeting, and hopefully we resolved a lot
- 4 of issues.
- 5 As you look over with solving these -- you
- 6 will find a very, at times, dysfunctional industry.
- 7 And just getting us to the table to speak together
- 8 at times is very difficult.
- 9 And that's part of what the safety
- 10 committee, part of the idea that I had behind us in
- 11 Delaware, and even in Philly where they tend to
- 12 get -- you know, it's year round racing, tend to get
- 13 along less than Delaware because we only have
- 14 seasonal, just wanted to get them to the table and
- work forward on a common issue.

16 And I think that we have been able to get 17 a lot of -- a lot of issues resolved. One of the biggest hurdles that you will 18 19 face moving forward, you know, is jockeys 20 themselves. 21 And I have run into this in this industry repeatedly, in that, you know, as any time you try 22 47 1 and legislate or force health changes or personal changes or the personal life choices, it's 2 3 difficult, and it's going to take a tremendous amount of education to slowly change the riders. 4 It's not going to happen overnight. 5 I experienced many of those weight 6 7 reduction methods and many of those accidents that were on that screen. And, you know, it's really 8 hard to teach an old dog a new trick when you have 9 10 become so used to pulling your weight a certain way, 11 and because of the time constraints and sometimes

not -- you know, we won't use the word lazy, but not

because of, you know, your personal choices of

12

- 14 doing things the right way, it becomes easier to use
- 15 those methods.
- So, you know, as we move forward, a lot of
- 17 the responsibility is going to have to be put on the
- 18 riders. They have to be responsible.
- 19 That's what we have done in Delaware in
- 20 the morning, to cut down our accidents, is that
- 21 everybody is responsible out there.
- Everybody on or near a horse has to, you 48
- 1 know, use common sense or at least horse sense.
- 2 It's best to prevent the accident than, you know, to
- 3 deal with the injury afterwards.
- 4 Thank you.
- 5 MR. FRAVEL: Thanks, Robert, for filling
- 6 us in on the East Coast version of what we do in
- 7 California.
- 8 One more thing I did want to mention
- 9 before I finish.
- And in California, three years ago we ran
- 11 into a huge crisis in the workmans' compensation

- world. California in general was subjected to
- 13 dramatic increases in workers' compensation costs,
- 14 not just for horse racing, but for every industry
- 15 across the board.
- 16 Canada carriers stopped wanting to write
- 17 insurance in California because the levels of fraud
- 18 and excessive medical charges and other factors were
- 19 overwhelming the system. And Governor
- 20 Schwarzenegger and the legislature got together and
- 21 drafted some comprehensive workers' compensation
- 22 reforms that dramatically cut costs.

- 1 But at the same time, the racing industry,
- 2 as I mentioned earlier, got together and formed a
- 3 consortium that was designed, not only to subsidize
- 4 workers' compensation costs, but also to institute
- 5 safety programs that would reduce the levels of
- 6 injury as well.
- 7 And I can tell you from standing here that
- 8 that was directed, not just at backstretch workers
- 9 alone, but also riders, exercise riders. Because,

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 10 candidly, the vast bulk of our workmans' 11 compensation costs in the backstretch arena is related to either jockeys or exercise riders. 12 And by instituting a very aggressive 13 hands-on risk management program for trainers, who 14 are the employers on the backstretch for riders and 15 exercise riders, we have managed to cut back our 16 claims levels dramatically. 17 18 There are some accidents, like horses that just clip heels with one another. They are simply 19 20 unavoidable for the most part. 21 But many other accidents, simply by virtue of exercising better care and good risk management 22 50
 - programs within the industry, have developed and 1
 - resulted in dramatic improvements in claims. 2
 - 3 And I think our friends from AIG can
 - probably confirm that for me. 4
 - 5 That program is not green anymore. I
 - think it is well established, and the data has
 - 7 proven that you can, if you put your mind to it,

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 8 reduce the levels of risk. You can't eliminate them altogether, which I think is true of every industry, 9 but you can make dramatic improvements. 10 So if you have any questions, I would be 11 12 happy to answer them. Otherwise, I'll turn it over 13 to the next speaker. Thank you. 14 15 MS. HENDRICKS: Thanks. Next we have Ed Bowen with the Grayson 16 17 Jockey Club Research Foundation. Mr. Bowen is going to be speaking on ongoing horse safety research 18 within the industry. 19 20 ON-GOING HORSE SAFETY RESEARCH WITHIN THE INDUSTRY 21 MR. BOWEN: Good morning. I am Ed Bowen, 22 and I am president of the Grayson-Jockey Club 51 Research Foundation. We are a 501(c)(3)1 2 organization and an affiliate of The Jockey Club.
 - 3 The Jockey Club is the body with which all
 - American Thoroughbreds are registered. 4
 - In this context, the word "thoroughbred," 5

- 6 of course, is not merely a synonym for "purebred,"
- 7 but refers to the specific breed of horse maintained
- 8 primarily for racing and other athletic endeavors
- 9 since being developed in England some 300 years ago.
- The Jockey Club, with headquarters in New
- 11 York and offices in Lexington, Kentucky, not only
- 12 maintains the Thoroughbred registry, but operates a
- 13 family of various companies providing information
- 14 services and technical support to breeders, owners,
- 15 fans, and racetracks.
- 16 The mission of our division, the
- 17 Grayson-Jockey Club Research Foundation, is to
- 18 identify and fund the best projects available in the
- 19 various fields of veterinary medicine aimed
- 20 specifically at improving the lot of horses.
- This includes musculoskeletal
- 22 considerations, the cardiovascular system,

- 1 communicable and other diseases, reproductive
- 2 problems, and nutritional advancement.
- 3 The origins of the Foundation date from

- 4 1940, when leaders of the Thoroughbred racing
- 5 community created the Grayson Foundation. There was
- 6 recognition that, even at a time when millions of
- 7 horses were still used in warfare, as it was
- 8 conducted at the time, the federal government would
- 9 stress research on the food chain animals more than
- 10 on horses. The private sector would always be
- 11 called upon to fund advances in care of horses.
- The name Grayson was used for the
- 13 foundation in appreciation of the advice given the
- 14 organizers by Admiral Cary Grayson. Admiral
- 15 Grayson, whose family still owns a breeding farm,
- 16 Blue Ridge Farm outside Middleburg, Virginia, was a
- 17 unique and interesting American citizen.
- He had been personal physician to
- 19 President Woodrow Wilson during his presidency, and
- 20 later Admiral Grayson was head of the American Red
- 21 Cross. He was a friend of both Presidents Theodore
- 22 and Franklin Roosevelt.

1 The Grayson Foundation was capitalized in

- 2 1940 with an endowment of \$100,000. Years later, it
- 3 merged with a separate entity created by The Jockey
- 4 Club. And thus since 1989, we have had the unwieldy
- 5 title of the Grayson-Jockey Club Research
- 6 Foundation.
- 7 Over the years, fundraising through
- 8 memberships, private donations, and special events,
- 9 along with portfolio management, has created
- 10 considerable growth.
- 11 This year we were able to provide \$1.1
- 12 million in payments for research. This is small by
- 13 some Washington standards, I realize, but it is a
- 14 record for any horse-specific foundation as far as I
- 15 know.
- Typically, we have about 20 projects being
- 17 funded at any given time. In the last 24 years, we
- 18 have provided \$14 million to fund 230 projects at 32
- 19 universities.
- I want to stress that all our income is
- 21 derived from the generosity of people in the horse
- 22 world, people who care about the animal and

- 1 understand the importance of research. We do not
- 2 receive any automatic check-off from registration
- 3 fees, pari-mutuel wagering, or any other source.
- 4 More than two million Americans own more
- 5 than 9 million horses. Our support comes from a
- 6 tiny portion of those owners, while there are other
- 7 organizations, such as the American Quarter Horse
- 8 Foundation and the Morris Animal Foundation, which
- 9 also derive a share of funding from individual horse
- 10 lovers.
- And of course when you say 32 universities
- 12 that have an equine research component, there is
- 13 also a great deal of support for those universities
- 14 from individuals in their areas or for their alma
- 15 mater.
- 16 As is true from the beginning, the
- 17 Grayson-Jockey Club Research Foundation funds
- 18 research beneficial to all horses and ponies, not
- 19 just Thoroughbreds. However, since the
- 20 preponderance of our funding has come from the
- 21 Thoroughbred sector, the health and soundness

22	concerns of the racehorse have always been a high
	55

1	prio	rity.

- 2 It is easy to make the connection, as
- 3 Mr. Fravel said, between the horse and jockey, as
- 4 well, since riding a sound racehorse to compete at
- 5 35 to 40 miles an hour is a far rosier proposition
- 6 than being aboard a horse that's about to break down
- 7 or fall.
- 8 The Foundation board consists of 23
- 9 individuals noted and well-respected in the
- 10 Thoroughbred world. They serve without pay.
- Annually, we set a deadline of October 1
- 12 for proposals, and we receive around 50 in most
- 13 years. They are reviewed by individual teams among
- 14 our overall Research Advisory Committee of 32
- 15 researchers and veterinarians, who also serve
- 16 without pay.
- We then bring all 32 together to determine
- 18 which projects are most highly regarded in terms of
- 19 impact on most horses, excellence of scientific

- 20 methodology, and proper budgeting.
- We track all projects funded and expect
- 22 that each one results in a paper published in a
- 1 peer-reviewed journal, which is the gold standard
- 2 for proof of successful research.
- In any given budget cycle, a high priority
- 4 goes to projects that are directly involved with
- 5 either preventing or treating the sort of injuries
- 6 which mean that the safety of the jockey coincides
- 7 with the safety and soundness of the horse.
- 8 This includes work on proper shoeing and
- 9 maximal design and maintenance of racing surfaces,
- 10 as well as those things physically connected to the
- 11 actual horse itself.
- 12 Among projects in recent years that I am
- most encouraged by is a study we funded at Colorado
- 14 State University which undertook to discern when the
- 15 soundness issues were developing, prior to an injury
- 16 actually being culminated.
- 17 This project built upon knowledge gained

- 18 from human studies of osteoporosis and sought use of
- 19 serum markers to determine when the metabolic
- 20 profile of a horse was changing.
- As you know, blood can tell many things.
- And when and if this study leads to a commercially
- 1 available test kit of some sort, we will have handed
- 2 horse trainers and managers a major new early
- 3 warning system.
- 4 Knowing that change is taking place and
- 5 being able to distinguish between change caused
- 6 merely by training and change of a negative nature
- 7 will be a major step in protecting the horse from
- 8 injury.
- 9 And, to repeat the obvious, a horse safe
- 10 from injuring himself at high speed is the best
- 11 thing we can hand over to his/her jockey or exercise
- 12 rider.
- In recent years, as we said earlier, the
- 14 use of synthetic racing surfaces rather than dirt
- 15 tracks has come into vogue. Early indications are

- 16 that the safety of these tracks to horse and rider
- 17 is markedly improved.
- Our Foundation funded a study which is
- 19 analyzing the stride of horses as it relates to
- 20 grass courses, dirt courses, and these synthetic
- 21 surfaces.
- This will help steer the industry toward 58
- 1 maximal safety of racing surfaces.
- 2 Similarly, work done over the years with
- 3 Foundation grants has determined that certain
- 4 popular horseshoe designs create increased risk for
- 5 injury.
- 6 As is often the case, what is intuitive
- 7 can be at odds with what is real.
- 8 For many years, conscientious horse
- 9 trainers have felt they were increasing the safety
- 10 of their charges by fitting their front shoes with
- 11 extensions, known as toe grabs at the bottom of the
- 12 leading edge of the shoe.
- The thought was that this provided

- 14 traction and protected the horse from slippage.
- However, our studies have shown that the
- 16 real impact of the toe grab is to abrogate a helpful
- 17 slide segment of the stride, causing the hoof to
- 18 undergo heavy loading that compresses the heel
- 19 unnaturally.
- This research was important in a recent
- 21 decision by the California Horse Racing Board to
- eliminate use of front toe grabs of more than four 59
- 1 millimeters for horses racing in the state.
- 2 Last year, The Jockey Club and the
- 3 Grayson-Jockey Club Research Foundation organized
- 4 and underwrote a Welfare and Safety of the Racehorse
- 5 Summit. One of the committees created from this
- 6 effort worked with the California Horse Racing
- 7 Board.
- 8 A recent presentation by the chairman of
- 9 that committee helped the Racing Commissioners
- 10 International convention approve a model rule
- 11 against toe grabs in all states.

12 As you probably know, and I'm sure you 13 know, Thoroughbred racing is regulated state by 14 state. So it is a matter now of urging each racing 15 commission to follow through on this model rule. 16 The end result, we hope, will be more or 17 less universal recognition that banning high toe 18 grabs in front reduces the chance of injury. Another aspect where what is intuitive is 19 20 not in fact the case is the visual suggestion that 21 an injury to a horse, especially a leg fracture or 22 ligament or tendon trauma, is a spontaneous event. 1 There certainly are some cases where a 2 totally sound and healthy horse either takes an 3 awkward step or is bumped or tripped accidentally by a competitor and suffers a spontaneous injury. The 4 5 famous case of Barbaro is a prime example. 6 However, research at the University of California at Davis, which we have helped fund, has 7

found that the majority of injuries actually are the

culmination of some pattern of pathology, or

8

10 abnormal change, which leads eventually to something 11 giving way. 12 Educating even experienced professionals 13 that this is the case will be an ongoing effort 14 growing out of the summit, which I mentioned 15 earlier. 16 In my profession, specifically trainers, I 17 think it is very important for them to realize that 18 when you have an accident, the jockey, all of them 19 say, it seemed like the horse stepped in a hole. Well, they don't put holes in racetracks. That's 20 just what it seems like to the jockey. 21 22 And this whole idea, this understanding that there is an ongoing problem rather than a 1 2 spontaneous problem in so many cases, I think it's 3 something that we really want to help the trainers, 4 help the tracks. Going to the racing commission has helped the trainers. 5 6 Another area where health of the horse and

the jockey go hand in hand is determination of what

- medications are safe and appropriate for racing. 8 9 As is well documented in other sports, 10 this is a regulatory matter as well as an issue of 11 safety and just plain determination to protect the 12 sanctity of the competition. 13 And in this case, I'm talking about 14 medication to the horse itself. 15 The Grayson-Jockey Club Foundation two 16 years ago took under its auspices a committee known 17 as the Equine Drug Research Institute. Through a separate channel of funding, again by concerned 18 horse owners, we have contracted to provide Dr. Don 19 Catlin more than \$2 million over three years to seek 20 tests for medications which are, one, illegal; two, 21 22 potentially dangerous to the horse, and, three, 62 1 cannot be detected by current state of technology. 2 Dr. Catlin is well known as probably the
 - world's top expert in medication testing for the
 Olympics and other sports. He is now devoting a
 considerable amount of his time to this effort on

- 6 behalf of horse racing.
- 7 Once Dr. Catlin's lab develops a test for
- 8 any of a sequence of illegal substances, the
- 9 methodology of that test will be provided free of
- 10 charge to any and all labs across the country which
- 11 have contracts with state racing commissions to
- 12 conduct drug testing.
- Again, because racing is regulated state
- 14 by state, most state legislatures prefer that money
- 15 on testing is done at an in-state lab. So there is
- 16 no central lab, as there is with Olympic testing in
- 17 most countries.
- Now, I understand your agency is
- 19 interested in all aspects of health in people in
- 20 racing, not just the riders. Therefore, I would
- 21 like to spend my remaining minutes with a sort of
- 22 addendum to my presentation.

- 1 The Jockey Club also operates a separate
- 2 foundation devoted to helping people with health and
- 3 financial difficulties. This Foundation is created

- 4 on behalf of people in racing and their families.
- 5 This Jockey Club Foundation distributed
- 6 \$540,000 in grants during 2006 and. Since 1985, the
- 7 foundation has been able to help more than 1,000
- 8 needy individuals and their families involved in the
- 9 Thoroughbred industry by providing nearly \$12
- 10 million in support.
- Grants through its monthly assistance
- 12 program totaled \$300,00 last year and helped cover
- 13 the basic living expenses of 45 individuals beset by
- 14 hardship, including those out of work due to serious
- 15 injury or health issues.
- One-time or short-term grants were made to
- 17 65 individuals last year for another quarter of a
- 18 million dollars.
- 19 These grants covered a wide range of
- 20 expenses, such as medical bills not covered by
- 21 insurance; physical therapy and equipment for
- 22 in-home rehabilitation; child-care providers in

1 extenuating circumstances; and emergency travel for

2	family health matters.
3	The industry knows of this work primarily
4	through word of mouth or the website. But, also, we
5	are alerted to many cases by individuals and the
6	racetrack chaplains across the country who see and
7	know the workers on the backstretch on a daily basis
8	and are familiar with their needs.
9	Again, these are two separate foundations.
10	The Grayson-Jockey Club Research Foundation for
11	horses, the Jockey Club Foundation for people.
12	I appreciate the opportunity to describe
13	these foundations, and I look forward to answering
14	any questions have now or later.
15	Thank you.
16	MS. HENDRICKS: Next, we have Anthony
17	Bahno with AIG. Anthony is going to be speaking
18	about improving protective vests for exercise riders
19	and jockeys.
20	IMPROVING PROTECTIVE VESTS FOR EXERCISE RIDERS
21	AND JOCKEYS
22	MR. BAHNO: Good morning. Thank you very 65

- 1 much for the opportunity to address this meeting.
- 2 This is an issue that's been very
- 3 passionate for me as a safety professional, and --
- 4 but I wanted to first start off by making a major
- 5 disclaimer. By no means am I any kind of expert in
- 6 this industry.
- 7 I have learned a lot since I have worked
- 8 with people in this industry, and only way I
- 9 guarantee that I will become an expert is if I ever
- 10 get on the horse within an official race, and that's
- 11 never going to happen.
- I actually go by Tony, and I work for a
- 13 company called AIG Consultants, which is part of AIG
- 14 Insurance Company, better known as American
- 15 International Group. I have been working within the
- 16 horse racing industry as a safety professional since
- 17 2003.
- 18 AIG has a pretty prominent placeholder
- 19 within this industry. For example, we have workers'
- 20 compensation insurance programs in three states

- 21 within the United States, and some of those workers'
- 22 compensation insurance programs cover employees at 66
- 1 all levels, meaning not only is it jockeys and
- 2 exercise riders, but, in fact, some of the
- 3 backstretch workers.
- 4 We also, through one of the AIG programs,
- 5 we provide accident and health insurance for
- 6 jockeys, which is better known as an on-track
- 7 accident insurance policy, and we probably have
- 8 about, say, roughly 90 percent of the tracks within
- 9 the United States to the best of my knowledge.
- Some of my things that I have worked with
- 11 previously within the horse racing industry,
- 12 primarily within California, have been several
- things.
- One of the first things that we got
- 15 together with my California client is we determined
- 16 that there was a need for major improvements in
- 17 terms of safety and education programs. And through
- 18 the help of them and an outside video production

- 19 company, we produced a 12-minute safety video that
- 20 covers all aspects, from backstretch workers to
- 21 exercise riders, and also jockeys.
- And that was produced as DVD, and it is 67
- 1 also in English and Spanish. And we are fortunate
- 2 to involve two prominent jockeys who I believe are
- 3 Hall of Fame members. One was Chris McCarron and
- 4 also was Lafitt Pincay.
- 5 So some of the other things I have been
- 6 involved in, most recently, I completed a safety
- 7 best practice audit at six major racetracks across
- 8 the United States. I was out in California, so that
- 9 broadened my overall level of experience and
- 10 knowledge.
- And we have gotten into some recent things
- 12 in terms of testing both helmets and also vests.
- 13 And the thing I'll be talking to you today is really
- 14 about -- really about the issue that's associated
- 15 with the protective vests.
- This is a risky business, as other people

- 17 talking before me have no doubt expressed. It's
- 18 perhaps the only industry to my knowledge that I
- 19 have ever worked with in 25 years as safety
- 20 professional where an ambulance follows the workers
- as they go to work.
- Think about that. There's no other 68
- 1 industry that I know of -- or maybe you folks can
- 2 kind of shed some light on that, but it's truly a
- 3 unique industry. And also, perhaps, within the
- 4 insurance world in terms of workers' comp, you have
- 5 a highly motivated work force that wants to get back
- 6 to work no matter what.
- 7 So that obviously causes some major
- 8 problems down the road.
- 9 This picture kind of sums it up to follow
- 10 up on the risky business aspect.
- 11 Imagine yourself in the position of that
- 12 jockey who was not fortunate enough to get out of
- 13 the way and to roll underneath the safety rail, but,
- in fact, had to tuck into the ball and hope to God

15 that that horse didn't step on him. 16 What I want to talk about now is a little 17 bit about some accident data that we have collected. 18 And I know there will be some other speakers within 19 this room that will also have some accident data to share with us. 20 Falls from horses, within our experience, 21 22 accounted for 24 percent of the total injuries 1 during 2003 to 2006, and about over \$4.2 has been incurred in terms of workers' compensation claims. 2 3 The exercise riders and jockeys accounted for 72 percent of the total number falls from 4 horseback. These occurred during training and also 5 live racing. 6 The highest percentage of falls within our 7 experience were at racetracks located within 8 9 Southern California. And for those of you who don't know, there are five major racetracks within 10

It just so happened that the majority of

11

12

California.

- 13 them happened at the Southern California tracks.
- 14 Why? We are really not sure.
- 15 A little bit about injury by body part.
- 16 Injuries to the upper trunk and extremities were
- 17 perhaps the most common, including chest, shoulder,
- 18 and spine. Secondary body parts included leg, arms,
- 19 and ankles.
- One comment here is that there's not
- 21 much -- the availability of data on horse racing
- 22 injuries to jockeys is not readily available within 70
- 1 the United States. I believe the last study was
- 2 done by the University of North Carolina I think
- 3 back in the 1990s.
- 4 In some of my research through my own
- 5 efforts -- thank goodness for the internet because
- 6 we would not be able to find things then -- there
- 7 has been major studies that I'm aware of that has
- 8 been done in Australia and also Ireland.
- 9 And for myself as a safety professional, I
- 10 have actually tapped into some of those sources.

- 11 However, some of the things are obviously the same,
- 12 and then some are perhaps different.
- So we talked about the injuries, and,
- 14 within the safety world, you always look for how you
- 15 can control things, how you can reduce what the
- 16 overall exposure is.
- 17 And actually several people have commented
- 18 upon this one issue is that there's not much to be
- 19 done when you have a 1,200-pound animal that is
- 20 running 35 to 40 miles an hour from a true exposure
- 21 standpoint.
- So from a risk standpoint, I would look at 71
- 1 other ways to possibly reduce that.
- 2 So what we did with the group, I started
- 3 off in conducting a series of meetings with the
- 4 jockeys and exercise riders beginning April 2006 at
- 5 the racetracks within California. And the objective
- 6 of these meetings was to increase the awareness and
- 7 level of education regarding limitations, proper
- 8 fit, and care of protective vests and also helmets.

9 Now, recognizing that I did not have that base of knowledge, I contacted several equipment 10 manufacturers and wanted to utilize their overall 11 background and knowledge within this -- within that 12 13 category. 14 And I was able to really get one that 15 really took -- really took the bit and said, Sure, 16 we will come out. And so we had a series of meetings at each of the California tracks where we 17 had both exercise riders and also jockeys 18 19 participate. 20 I got to tell you, I think it was really interesting in several aspects. Probably -- perhaps 21 22 the most major one was it first started out as a lecture series more or less. 1 2 We talked about, okay, how you properly 3 care for a vest? Do you leave it in the back window of your car to dry it out? Do you -- you know, do 4 you buy it from someone you don't know? Those kinds 5 of things. 6

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 7 And really, probably about the third or fourth meeting, the jockeys really, I guess, just 8 kind of sat up and took notice. And what I mean by 9 10 that is what they started to do is give us critical feedback. It became an excellent forum for two-way 11 communication, which I think is essential within 12 this industry. 13 14 And so we got feedback regarding, okay, my current vest does this. My current helmet does 15 this, and really got some major suggestions in terms 16 of making some improvements to increase the 17 functionality of the vest itself. 18 And we looked at a variety of vests from 19 20 pretty much all over the -- I would have to say all 21 over the world. 22 Yes, there are U.S. manufacturers, but 73
 - 1 there is also manufacturers within Japan, Argentina,
 - Chile. And some of these, if you would look at 2
 - them, you would just say, Well, how can this 3
 - possibly offer any degree of overall protection? 4

////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt		
5	So one conclusion that we came to was that	
6	the construction and the materials used in the vests	
7	does not provide a high degree of flexibility in	
8	terms of a jockey being able to tuck and roll when	
9	falling off a horse.	
10	And, Robert, you can probably back me up	
11	on this, but that was the foremost comment that came	
12	from the jockeys.	
13	Now, there's a vest out there, if you look	
14	at the standards, which I will give you just a	
15	little bit of insight into that's in a second	
16	here.	
17	But if you look at the standard that would	
18	require somebody to actually wear the vest that is,	
19	quote, certified by the ASTM, that vest is almost	
20	like a flak jacket that would be worn by a police	
21	officer, for example. It's very thick padding and,	
22	most importantly, very, very restrictive.	

1 And we were fortunate in California to

kind of enlighten the California Horse Racing Board 2

- 3 of this fact because they were about ready to
- 4 mandate that the jockeys were supposed to wear that
- 5 ASTM version of the vest, which probably would have
- 6 caused a lot more problems. I will get into a
- 7 little bit next as to where we are.
- 8 So one other thing that came out of this
- 9 series of education things is that the manufacturer
- 10 of the vest had the first opportunity to get key
- 11 critical feedback from the actual user.
- I mean, imagine making a product and never
- 13 talking to the users. It is just kind of insane,
- but, I got to tell you, it happens time and time
- 15 again.
- So I think that was one of the key aspects
- 17 for the manufacturer, as well as myself.
- These are some of the interested groups
- 19 that we have in our little task force that we are
- 20 working with. The California Horseman Safety
- 21 Alliance. Craig gave some insight into that.
- 22 That's the group that was formed when AIG put

- 1 together the workers' comp program.
- We have had the great benefit to work with
- 3 the Jockey's Guild, both in the U.S., and Canada,
- 4 AIG.
- 5 Phoenix Performance Products. They are,
- 6 in fact, the vest company that we are -- that we are
- 7 working with. And they are -- they manufacture the
- 8 Tipperary brand of vest, which is the product in
- 9 90 -- I think it is used by about 90 percent of the
- 10 riders out there.
- 11 Charles Owens is one of the other
- 12 companies that we have gotten some feedback in.
- And then from the testing standpoint we
- 14 have used a company called Dynamic Research. And
- 15 then also our efforts have been known, and also we
- 16 have gone to the California Horse Racing Board, as
- 17 we said, to get some of their feedback and most
- 18 importantly, their endorsement, involvement, if you
- 19 will.
- 20 Little bit about the history of what I
- 21 will call protective vest standards. There's -- the
- 22 major one that was out there and still exists today

- 1 is the BETA standard, which is British Equestrian
- 2 Trade standard. And there are several levels of
- 3 protection, or at least there used to be.
- 4 And believe it or not, a lot of the
- 5 states, when you go to research what the state
- 6 regulations say in terms of, A jockey must wear this
- 7 level of overall protective equipment, are way
- 8 outdated.
- 9 For example, in California and many other
- 10 states still specify a BETA 5 vest, which is totally
- 11 irrelevant because they don't make them anymore.
- 12 Because back in the year 2000, BETA revised their
- 13 standards to basically incorporate three levels of
- 14 protection, and what they consider appropriate for
- 15 jockeys is actually Level 1.
- Then there's some international standards
- 17 as well. There's the SATRA standard. There's the
- 18 Australian Horse Racing Association standard. As I
- 19 have indicated before, the ASTM, American Standards
- 20 and Testing Materials. And these standards are in

- 21 fact generic and apply to all equine sports.
- That's the major area of perhaps the
- 1 greatest opportunity for us as a group to really
- 2 change the face of protective vests.
- 3 The interesting thing about the protective
- 4 vests, too, for -- as I alluded to before, spending
- 5 a lot of time within some of the jockeys' rooms and
- 6 just talking to them, you get the sense that, one,
- 7 the quality of these vests vary from manufacturer to
- 8 manufacturer.
- 9 The actual condition of the vest that
- 10 is -- is wide ranging depending upon age and also
- 11 care.
- One of the more challenging aspects to
- 13 this level of overall protective equipment is that
- 14 you have a user population that, some are making a
- 15 lot of money, and very many are not making a lot of
- 16 money.
- 17 So you have an entry barrier for a vest
- 18 that costs 200 to 300-plus dollars. Sometimes more

- 19 because somebody happens to get a, quote, deal on
- 20 them because they are selling them out of the back
- 21 of their car. Some people just can't afford it.
- So you see vests that have been there well 78
- 1 past their prime in terms of overall condition.
- I have also seen vests that, believe it or
- 3 not, despite the best efforts of all these standards
- 4 and all these manufacturers, that the padding has
- 5 been removed. Okay?
- 6 That -- just for whatever reason, they
- 7 take the padding out.
- 8 I have also seen vests where I have seen
- 9 additional padding put in, okay, just for comfort,
- 10 you know, factors, you know, for whatever other
- 11 reasons.
- One or the things that we are able to do
- as a result of working with the jockey's groups was
- 14 we got that feedback and, actually, Phoenix
- 15 Performance went back to the drawing board, and they
- 16 created one or two prototypes of vests that offered,

- 17 I guess, a high degree of overall flexibility
- 18 perhaps, especially from the shoulder region, so
- 19 that the jockey was able to get down within that
- 20 riding position, that vest would not ride up within
- 21 a certain aspect. So there are manufacturers that
- are willing to go basically back to the drawing
- 1 board, if you will.
- 2 So to kind of summarize where we are, is,
- 3 again, a team comprised of jockeys, vest
- 4 manufacturers, horse racing industry. Research
- 5 consultants, along with myself, are now working --
- 6 we are actually part of the ASTM community for
- 7 protective body padding, that's F 08.55.
- 8 And where we are now, believe it or not,
- 9 is the vote is actually going to be taking place to
- 10 adopt our draft standard, and our draft standard is
- 11 going to be essentially for body protective use
- 12 within equine competition and racing.
- So it's not going to be an overall generic
- 14 standard, but perhaps our efforts are hopefully

- 15 going to -- hopefully going to succeed because we
- 16 want to get one that is more specific to this
- 17 industry.
- So -- and, like I said, the vote actually
- 19 takes place I think tomorrow and Thursday. So after
- 20 I leave here, I'm headed down to Norfolk, Virginia,
- 21 and we will see what happens.
- Thank you very much for giving me the 80
- 1 opportunity to talk with you.
- 2 Are there any questions.
- 3 Craig?
- 4 MR. FRAVEL: Tony, do you have a similar
- 5 project underway for the helmets?
- 6 MR. BAHNO: Comment about helmets. Within
- 7 my experience, about 90 percent of the population,
- 8 jockeys and exercise riders are wearing a helmet,
- 9 called the Caliente, which I believe is no longer
- 10 manufactured since 1985. But yet they still somehow
- 11 survive out there.
- Recognizing that, I believe, Kentucky is

- 13 the only state within the country that has mandated
- 14 a new ASTM helmet. What we are doing right now,
- 15 Craig, is we are -- we are actually testing both
- 16 helmets, the Caliente and also the ASTM approved
- 17 helmet.
- What I mean by testing, the company that
- 19 we are using is Dynamic Research. They are in
- 20 Southern California, and they done a ton of research
- 21 for the automotive industry and for motorcycle
- 22 helmets and stuff like that.

- 1 So what we have done is we have gotten
- 2 actually a -- what do you call it? I guess it's
- 3 called a headform with a sensor. And we are
- 4 dropping them from a height of eight feet, and we
- 5 are dropping them down on both the turf, synthetic,
- 6 and also the dirt, and we are going to see what the
- 7 levels are.
- 8 So we are still kind of about halfway
- 9 through that. So that will also hopefully
- 10 provide -- shed some light on -- as to what our

11 direction should be with respect to that. 12 Does that answer your question? 13 Anybody else? 14 Robert? 15 MR. COLTON: Tony, do you have a time line 16 on how long to implement from the draft standard to 17 where the product will be available? 18 MR. BAHNO: From what the folks at ASTM tell me and the chairman of our little group, if 19 it's passed during this meeting, and -- I guess it 20 21 gets put out to a vote. And then you have to address each and every negative. 22 1 So if it's passed this time, then I think 2 it comes up for one more final vote in the Fall meeting, which is September/October time frame. 3 4 So if everything goes according to plan, I 5 would say probably by the end of this year. Okay? 6 All right. I thank you very much. 7 8 MS. HENDRICKS: We will have short break

9	right now. If we could reconvene back here by 11.
10	(A recess was taken.)
11	MS. HENDRICKS: Next we have Dr. David
12	Seftel, medical advisor to the Jockey's Guild
13	presenting on examining environmental health and
14	safety factors at equestrian race courses
15	nationwide.
16	EXAMINING ENVIRONMENTAL HEALTH AND SAFETY
17	FACTORS AT EQUESTRIAN RACECOURSES NATIONWIDE:
18	RATIONALE, APPROACH AND PRELIMINARY FOCUS
19	MR. SEFTEL: Thank you, Kitty.
20	I want to extend a special vote of thanks
21	to Frank Hearl and Kitty Hendricks for the
22	extraordinary act in pulling together this meeting 83
1	on very short notice and to bring literally the
2	who's who of the industry to the table.
3	What I'm going to be doing with you today
4	is walking you firstly through the common
5	pathologies that we have experienced and seen at the
6	racetracks and then try to put it into some kind of

- 7 organized framework so that we can examine the
- 8 various areas that need to be studied.
- 9 Firstly, improved jockey care will benefit
- 10 everybody, not just jockeys.
- And we see that accidents are a
- 12 combination of human error, horse health and
- 13 behavior, from our colleagues at Grayson, track
- 14 conditions, and trainer practices. Ultimately fewer
- 15 accidents will save money and lives. Workers' comp
- 16 premiums will be reduced as well as the track
- 17 catastrophic liability.
- 18 It obviously needs to be guided by an
- 19 objective picture of needs. And a few of you have
- 20 pointed out, there is an enormous amount of state
- 21 and national momentum for this comprehensive study
- 22 that we plan to engage upon. We have to have some
- 1 good peer review studies in this industry in order
- 2 for everybody to have a sense of direction.
- 3 The National Jockeys Health Initiative is
- 4 the first comprehensive look at both health and

- 5 fitness of the jockey population on and off the
- 6 track.
- 7 As has already been pointed out, it is
- 8 going to be modeled on the NIH study process, such
- 9 as that used for the landmark Women's Health
- 10 Initiative study.
- 11 Fundamentally, there is sort of the
- 12 conflict in the understanding about jockeys. People
- 13 look at them and they see, oh, they are physically
- 14 fit, but at the same time, there are many serious
- 15 medical maladies.
- In my own data, 20 percent of my jockeys
- 17 have kidney stones, 40 percent have hematuria and
- 18 proteinuria in the urine, an early sign of
- 19 nephritis, and 25 percent have immune compromise
- 20 with persistent and repeated infections that I will
- 21 detail shortly.
- In addition, when you look at the National 85
- 1 Health Claims Data when our jockeys get to the
- 2 hospital, we see a lofty number of very, very

- 3 serious morbidities. Head and neck cancers,
- 4 leukemias, lymphomas, as well as the kidney stones,
- 5 pancreatitis.
- We even have jockeys with kidney failure
- 7 requiring transplantation, including one defined in
- 8 an HBO special.
- 9 I had one patient that required a complete
- 10 heart transplant because of heart failure that
- 11 resulted from pulmonary hypertension from the use of
- 12 amphetamine related medications such as phen-fen.
- 13 Two categories of what ails jockeys, their
- 14 medical conditions and obviously occupational issues
- 15 and trauma.
- Very quickly, the medical maladies. We
- 17 see recurrent upper respiratory tract infections, an
- 18 enormous amount of gastro-esophageal reflux disease,
- 19 the kidney stones that I mentioned previously, a
- 20 huge excess and incidence of asthma and COPD related
- 21 to smoking, dust, and dirt.
- And then a panoply of skin infections,

- 1 viral, bacterial, and fungal, which are related not
- 2 only to the immunocompromised, but also to poor
- 3 working conditions.
- 4 This entire picture is complicated by a
- 5 terrible trio: Dehydration; malnutrition; and
- 6 weakened immunity.
- What are the top ten traumas that we see?
- 8 Obviously muscle and tendon injuries are
- 9 right at the top of the list. But if you see No. 2
- 10 is concussion.
- And indeed the only good peer review
- 12 published article from the field was an article from
- 13 1996 which did some retrospective analysis of
- 14 jockeys' health accident data and showed that
- 15 concussion and head injuries was by far the
- 16 commonest of these serious injuries affecting this
- 17 population.
- All the others, we will see shortly just
- 19 why they are just such a significant problem.
- The problem related not only to the
- 21 stresses of the profession, but also due to a

22 variety of environmental occupational factors.

1	One of the key tenets is that riding is an
2	extremely high torsion profession.
3	When you talk about riding on a horse,
4	it's very easy to think of them as just sitting
5	there at the top tips of their toes and holding on
6	with their fingertips.
7	Every single muscle in a jockey's body is
8	stressed to the max. Jeff Johnston will tell you a
9	little bit later on about just how stressful that
10	can be.
11	One of the key maxims again, rest is
12	medicine and must be taken seriously.
13	The jockeys have an population which is a
14	pure paid-for-performance profession. If they don't
15	ride, they don't get paid, unlike any other
16	profession. So there's an enormous stress on them
17	to get back to work before they are ready to get
18	back to work. And this obviously complicates the
19	occupational and environmental health picture.

- 20 Jeff will talk to you about how many
- 21 times -- how many times did you have a collarbone
- 22 broken, Jeff?

- 1 MR. JOHNSTON: Zero.
- 2 MR. SEFTEL: He is an extremely lucky guy.
- 3 How many of your colleagues had a
- 4 collarbone fracture?
- 5 MR. JOHNSTON: I'm seeing it every day
- 6 now.
- 7 MR. SEFTEL: The collarbone is the
- 8 Achilles heel of most riders.
- 9 It only takes eight pounds per square inch
- 10 of direct torsional force on the collarbone to snap
- 11 it. And collarbone fractures reflect a fundamental
- 12 problem with the flak jackets and the torsional
- 13 forces on the chest wall.
- 14 It is also a very debilitating injury
- 15 because it takes you out of work for four to six
- 16 weeks and obviously has significant economic
- 17 potential.

file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 18 One thing that is not readily known is that there is another threat that is being borne out 19 by the latest jockey health claims data. It is 20 21 invisible, but it indispensable, radiation, the 22 silent killer. 89 1 Every X-ray adds to the risk, as you know. 2 Jockeys are subject to 10 to 15 times the radiation 3 as the general public. Because they have so many spills, they have more and more x-rays. And that is 4 5 one of the reasons that we believe that we are seeing an excess in the cancer rates. 6 7 So obviously, to avoid excess cancer, we need to think about things like low dose x-ray 8 systems at the tracks or facilities that treat 9 10 jockeys. 11 I think a beautiful example that Craig 12 brought up is the excellent medical care that is

being provided at certain tracks. We would like to

see what Craig described at every single track in

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the country.

16 The sad truth is, there is there is a lack of standardization of quality of medical care across 17 four racetracks. I'm one of the very few physicians 18 who actually has the privilege to work with this 19 community. 20 The issues aren't very complex. Riders 21 22 migrate frequently. There is no communication about 90 1 medical issues amongst providers. This 2 discontinuity of care leads to poor care. 3 The same thing that we see mirrored in the rest of the population is amplified in the jockey 4 community. Obviously, we need to think about issues 5 such as common electronic medical records going forward. 7 In summary, improved racetrack care will 8 benefit all players. Jockeys getting rapid 9 10 evaluation of their injury status, our workers' comp 11 providers will enjoy lower claim costs, will avoid 12 unnecessary ER visits. And ultimately these lower

claim costs will filter down to reduced premiums

14 paid by trainers and track operators. So one of the tenets that we are working 15 on is that jockey health and safety and operating 16 profitability are actually inseparable. And we 17 would like to see a process of renewal and research 18 being driven by objective measures and impartial 19 20 research. 21 What I would like to do now is to go to a deeper level of granularity and share with you the 22 actual process flow, how things work in the 1 2 racetrack. 3 When I first came here six years ago, I was a complete novice. I had never been to a race 4 in my life. 5 My background, I'm a board certified 6 internist. I have background in infectious disease 7 8 management. I have worked at national research centers utilizing various technologies. 9 10 I really did not have any expectation that

I would discover literally a cesspool of disease in

12 these facilities along with enormous challenges. 13 But understanding about the way that horse 14 racing works has really helped me understand the some of the factors we need to study. 15 16 Firstly, racing is a highly time sensitive industry. Everything happens to a schedule. It's 17 18 like putting on a Broadway show every single day of 19 the week. And, therefore, you have the additional 20 time constraints. 21 So let's see what happens. 22 The grooms get up at 4 a.m. in the morning 92 to prepare the horses for the exercise riders and 1 the jockeys to go on to the track between 4 a.m. and 2 5 a.m. An exercise rider and jockey will exercise 3 between five and 14 horses until approximately 10 4 5 a.m. 6 You will see some pictures and video about just how irascible some of these horses can be. 7

Because, remember, there are many levels of

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9

training.

10 These horses, some of them are very young, and others are old, but they are -- it is always an 11 12 extremely challenging situation, and we always see more injuries in the morning exercise period than we 13 see during the race day itself. 14 Particularly important, during the 15 wintertime, reduced visibility. The tracks try the 16 best they can with their lights up. The reduced 17 visibility contributes to a lot of accidents. 18 19 An ambulance crew is usually on the 20 sidelines. The big problem is, the ambulance crew members are usually basic life support certified, 21 not ACLS certified. This is a fundamental problem 22 93 that we need to address. 1 2 Exercise riders weigh between 140 and 150 pounds, but yet they ride the same horses that the 3 jockeys ride that afternoon. And there is no 4 5 adverse increase, no increase in adverse events as a result of that excess weight.

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This has implications for our studies on

- 8 the weight limits for jockeys.
- 9 So what happens after 10 o'clock? It's a
- 10 process called "reduce to ride." If you don't
- 11 reduce, you won't ride.
- The jockeys go into what is
- 13 euphemistically referred to as a "hot box," but
- 14 basically is a place where you have induced
- 15 hyperthermia. In addition to that, they may take
- 16 laxatives and diuretics or practice self-induced
- 17 vomiting.
- Secondly, they dress for success, but not
- 19 safety.
- You will see the jockeys donning these
- 21 featherweight boots, silks, protective helmets, flak
- jackets, and goggles for each race, but there is 94
- 1 still an extraordinary high rate of serious head and
- 2 chest and extremity injuries.
- 3 At this point, what I would like to do is
- 4 actually show you some of the helmets that jockeys
- 5 wear.

- 6 And, Jeff, if you come up and just share 7 with them the differences. 8 This, what I have in my hand, is the most commonly used helmet. 9 10 MR. JOHNSTON: This is the Caliente helmet that was referred to earlier. This is used by 11 approximately 90 percent of the jockeys out there 12 today. 13 I think they mentioned that one state has 14 rules regarding helmets. It is actually two. 15 16 Indiana had on its books the same -- they had copied the rule in Kentucky to use ASTM certified helmets. 17 The director of the racing commission gave 18 19 me an opportunity to address the issue and explain 20 to him why we didn't want, or the jockeys didn't 21 want ASTM helmets. I effectively approached the commission, 22 95
- and they introduced a law to not only recommend, 1
- require -- they require ASTM helmets as well as 2
- other industry worldwide standards, such as EN 1384, 3

- 4 the British standard, BAC 015, and the Australian
- 5 standard, ASNZ 3838.
- 6 So it gives the problem with the ASTM
- 7 helmet, which is -- the only one currently on the
- 8 market is the Charles Owen.
- 9 The study took place -- I went down, and I
- 10 witnessed the study in Lexington, Kentucky by
- 11 Lexington Safety Products, which was introduced
- 12 through the Jockey's Guild, the management at the
- 13 time, and the Kentucky Racing Commission, did the
- 14 study to convince that they need an ASTM approved
- 15 helmet.
- But that helmet was, excuse my language,
- 17 crap. It didn't stand up. And you could drop it on
- 18 the floor, it would break. The jockeys hated it.
- 19 Effectively, they said they weren't going to ride if
- 20 they had to use that helmet.
- So the Kentucky commission loosened up,
- said, Okay, we will look into it more. But then the 96
- 1 Charles Owen company came around and introduced this

- 2 helmet, which jockeys were okay with, but they still
- 3 don't like it.
- 4 It's made -- it was essentially made for
- 5 equestrian activities, such as hunter jumper events,
- 6 things -- stuff like that. It's not made for the
- 7 posture that a jockey assumes in a riding position.
- 8 Other industry or other racing industries,
- 9 such as steeplechase industry, racing in Britain,
- 10 France, Australia, have effectively done studies
- 11 since 1985 on helmet research.
- The EN 1384 standard is effectively the
- 13 same standard as the ASTM. However, they have maybe
- 14 one test that is different. One has a penetration
- 15 test that's a little more severe. One tests the
- 16 frontal lobe as compared to the rear of the helmet a
- 17 little more. The standards are a little higher, but
- 18 effectively they are the same helmets.
- The padding circumvents the entire head.
- 20 It has the same polystyrene lining that absorbs the
- 21 impact, instead of -- the Caliente, the impact goes
- 22 directly -- there is nothing to take the impact

- 1 away. It goes directly to the brain. The
- 2 polystyrene will dent, but it disperses the energy,
- 3 so instead of going to the brain, it goes to the
- 4 helmet.
- 5 The bad part is, once you are in a spill
- 6 with one of these helmets, you have to throw the
- 7 helmet away.
- 8 And some of the helmets range -- when I
- 9 was doing a presentation for Indiana, I got helmets
- 10 from all over the world. I got a helmet from Japan,
- 11 one from Australia, one -- a couple of different
- 12 favorite brands used in Italy, France, and Britain.
- And one of those helmets cost \$900. Most
- of them range between 3 and 400.
- 15 It's hard to discard a 3 or 400 dollar
- 16 helmet, let alone a \$900 helmet.
- So it's going to have to be considered if
- 18 the commissions or the racing industry puts new
- 19 helmet laws into effect, they are going to have to
- 20 consider the cost of the helmet.
- 21 I'm certainly for it. I don't mind. The

- jockeys I represent are, as Robert Colton said,98
- 1 resistant to change.
- 2 There will be have to be some
- 3 documentation to go along and explain to them why
- 4 it's in their best interests, but I'm certainly for
- 5 it. And I'll fight against the industry to make
- 6 sure that we get these helmets out of the jockeys
- 7 room and get the new improved helmets, especially
- 8 the British helmets designed for racing on the heads
- 9 of the jockeys.
- 10 MR. SEFTEL: Thank you, Jeff.
- 11 I just wanted to show from a medical
- 12 perspective, I almost lost a patient because of one
- 13 of these helmets. And I going to actually walk this
- 14 around because it is very important that you see
- 15 what I'm going to be showing you.
- This helmet I'm holding above me, you will
- 17 notice that it has padding over the occipital and
- 18 the frontal lobes, but it has no padding over the
- 19 temporal reaches of the brain.

20 As you know from the anatomy of the skull, 21 the skull is weakest over these temporal areas. 22 And I had one of my riders who got kicked by a horse, thrown off the horse, and the horse flew 1 higher than him and kicked him on the temporal lobe. He had a massive, massive subarachnoid hemorrhage. 3 His brain literally turned into his spinal cord, and 4 it was only due to very rapid admission to Stanford 5 that we were able to save his life. 7 By contrast, the European helmet's bulkiness and ungainliness does have a 8 circumferential -- a circumferential -- sorry. 9 10 It has circumferential padding. 11 As Jeff has pointed, this is basically like an airbag. Once it's used, it is done, and at 12 13 a significant economic consequence. 14 One of the things we were talking about 15 earlier was who bears the cost, who bears the responsibility for safety in the workplace, and this 16

is obviously an ongoing debate that will continue.

18 I will hand these around so you can look. 19 So what happens after they dress for 20 success? 21 Then they go up the scales where there's a 22 really vigilant weight watcher. He is not there to maintain their physical health, but he is there to 1 make sure that every jockey leaves the room at their 2 published weight. 3 4 But the jockeys are weighed in and out 5 each race by the clerk of scales. To equalize the amount of weight borne by 6 7 every horse who is in the same race, a combination 8 of saddle pads and lead weights are used. This titrating weight is done by the jockeys, their 9 valets, and sometimes even the clerk of scales. 10 11 Multiple individuals will handle these weights. 12 Unfortunately, throughout the country, 13 there is variable protection which risks very 14

significant lead toxicity. And this is basically a

- 16 preview of the discussion that we will have after
- 17 lunch in more detail.
- The lead weights are often unprotected,
- 19 have very friable edges, and they visibly shed lead
- 20 dust. Some are sewn into leather pockets, while
- 21 others are covered in a minimally protective paint,
- and we'll show you photographs.

- 1 Heavy rubber mats placed under the saddle
- 2 are supposed to be the primary weight equalizing
- 3 units. The lead weights, unfortunately, are almost
- 4 always still needed to top the weight up for fine
- 5 balancing.
- 6 Interestingly, if you look at the history
- 7 of these rubber mats, they were originally designed
- 8 to save horses from leg related pathology, but no
- 9 concern was raised about the valets and the jockeys.
- 10 Clearly horses are mammals, too, and I
- 11 think they ought to be treated equally.
- 12 At this point, I'm going to show you a
- 13 short video presentation called, A Day At The Races.

- This is more like a YouTube video. It's
- 15 not professional, but I think it captures the flavor
- 16 of what we have spoken about and sets the stage for
- 17 the further discussion.
- 18 (The video began playing.)
- MR. SEFTEL: Very often, as the horses
- 20 slow down, a lot of dangers occur. Horse racing is
- 21 like riding an airplane. The most dangerous times
- are leaving the gate and coming to the finish line 102
- 1 and after the finish line. And cornering is also
- 2 tricky.
- What you see here is a shot of one of our
- 4 the jockey's rooms. You can see that the quarters
- 5 look relatively constrained. Jockeys do not have a
- 6 great deal of privacy.
- 7 This is the box of lead weights. And you
- 8 see it positioned right next to the scale and next
- 9 to all of the blankets and combs.
- And you can see the lead dust in this
- 11 particular shot, quite visible. You see the friable

- 12 edges of the lead weights right there, and you see
- 13 how these edges have become eroded.
- Now, how are these lead weights actually
- 15 used? We will see shortly how they are slotted in
- 16 to this particular area of the saddle.
- 17 And there are a number of different
- 18 pockets they use either the leather-encased lead
- 19 weights or the raw lead weights.
- There is a lot of pharmacy. A lot of the
- 21 jockeys will abuse pseudoephedrine containing
- 22 compounds.

- 1 These are some of the shots of the flak
- 2 jackets. And they are pitifully thin, offering very
- 3 little protection. One of the recurring themes is
- 4 that we need biomedical engineers to join us in this
- 5 research effort to develop and design better
- 6 protective technologies.
- 7 Again, an inside shot of the helmet that
- 8 we spoke about.
- 9 Now that -- this is one of the exercise

riders. He is going to determine what his weight 10 is, and how this works. 11 12 (Short colloquy on video) 13 These are shots of the exercise riders working in the morning. 14 As he pointed out, he is riding the exact 15 16 same horse as the jockey will have to ride, at two-thirds the weight. We don't see any excess of 17 18 breakdown as a result of that. 19 You can see how irascible the horses can 20 be. It doesn't take much for the rider to be dismounted, particularly in the morning sessions. 21 22 This is another example of an unruly 104 1 horse. 2 This is a valet, and he is placing the 3 leather-encased lead waits into the saddle at this 4 point. One thing should be mentioned, the fact 5 that the lead is encased in leather does not seal or 6 prevent the lead from leaching through the seams. 7

8 This is not a watertight seal at all. 9 (More colloquy on the video) 10 Just a quick commentary, that is a 11 19-year-old apprentice rider, Kyle Kaenel, whose 12 helmets are circulating here. He very kindly let us 13 lend them. 14 Kyle suffered a very severe neck fracture 15 approximately two years ago. 16 So it's not atypical that the riders get head injuries and neck injuries. He is also five 17 foot ten. So you can see how thoroughly emaciated 18 he is. He is typical of the riders that really have 19 to struggle with their current weight limits. 20 What we see here is another valet who is 21 actually inserting the naked lead weights or the 22 105 1 slightly paint covered lead weights with his bare 2 hands. (More colloquy on the video.) 3 This is the clerk of scales demonstrating 4

5

how he does the balance.

6	We have got a Windows problem.
7	What this is meant to illustrate is that
8	the fact that, even though we have science
9	personally about the dangers of lead, even though
10	efforts are been made to contain and seal lead
11	weights, fundamentally having lead in the workplace
12	of this concentration and this level and this
13	friable is an untenable situation, and we will talk
14	about it more this afternoon.
15	Once the race is over, they use a series
16	of water trucks and irrigation trucks to resurface
17	or reprepare the surface for the next race. And I
18	will talk about the implications of this process
19	from an environmental perspective shortly.
20	I want you to notice that these particular
21	trucks are spraying very close to the horses and the
22	humans as well as to the fans. 106

- 1 We have a problem with dust and debris
- 2 disposal spreading disease. In between races, the
- 3 jockeys clean track debris from their faces with

- 4 standing water and sponges that are located next to
- 5 their cubicles. Dedicated sinks for each jockey
- 6 cubicle are relatively rare.
- 7 There's frequent reuse of contaminated
- 8 water and sponges, which leads to self-inoculation
- 9 with bacterial, fungal, and viral pathogens, and
- 10 also exacerbates underlying allergic dermatoses.
- 11 I have seen virtually every imaginable
- 12 dermatological condition in this population. And,
- 13 again, it is exacerbated by medical conditions and
- 14 underlying immunocompromised.
- 15 The second bucket unfortunately usually
- 16 serves as a heaving bowl or a spittoon for
- 17 self-induced vomiting.
- 18 Crowded cubicles ultimately contribute to
- 19 communicable conditions. Unfortunately, the cubicle
- 20 upholstery is rarely cleaned and serves as a very
- 21 rich polypathological culture medium.
- It's important to point out that jockeys, 107
- 1 unlike other professional athletes, spend anywhere

- 2 from seven to ten hours a day in these jockey rooms.
- 3 So this is a critical environment for -- that needs
- 4 to be healthy and safe.
- 5 Unfortunately, many are antiquated and are
- 6 cramped with poor ventilation. This obviously
- 7 contributes to the rapid spread of airborne and
- 8 contact mediated communicable diseases. And because
- 9 many are immunocompromised, these diseases and
- 10 conditions are more persistent and severe.
- 11 As you saw, after the end of each race,
- 12 you have track grooming. And, again, there's not a
- 13 lot of research and not a lot of study of this, but
- 14 it is something that bears proper investigation.
- 15 The water that is used to spray on the
- surfaces is usually recycled from barnyard effluent
- 17 bioremediation ponds.
- You may have seen those little fountains
- 19 that the horses can -- in the center of the field.
- 20 Those are actually sewage disposal plants that the
- 21 facilities are required to manage. And the water
- 22 that comes from those is used to fill these tanks.

- 1 Now, by law, they are supposed to do
- 2 coliform counts to make sure there are a certain
- 3 minimal level of coliforms before spraying this
- 4 water. Unfortunately, racetrack scientists are
- 5 rare.
- 6 At our facility, I make sure that the
- 7 coliform count is low, but clearly, without proper
- 8 regulation, we could have problem with many
- 9 facilities around the country.
- Depending on ambient wind, humidity, and
- 11 temperature, a proportionate amount can be carried
- 12 into the workspace of the jockeys, the outriders,
- 13 and the breathing air of thousands of fans who line
- 14 up close to the track side.
- This is again something that we need to
- 16 work on in a team fashion.
- 17 Remediation will involve installation of
- 18 airborne sensors to monitor, measure, and report
- 19 excessive coliforms or other airborne particulate
- 20 and gaseous pathogens that are released from the

- 21 dirt and synthetic surfaces as a result of grooming
- 22 and horse riding activities.

1 And this is an important segue into the 2 issue of synthetic surfaces. 3 There is a very strong movement in the industry to test synthetic surfaces because of 4 5 anecdotal evidence that it is less traumatic for horses and leads to fewer soft tissue injuries. Certainly it seems like, from a historical 7 8 perspective, the European tracks have had great 9 success with this. 10 The problem from my own professional 11 health perspective is that no good independent peer 12 reviewed studies have been done to document the safety of the plume that's produced by horses' 13 14 hooves or tractors. 15 These are synthetic surfaces made up of silica, hydrocarbons, motorcycle tires, a whole 16 17 variety of compounds that are known carcinogens and respiratory pathogens. 18

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19	This is one area where I believe that we
20	need to have federal and state standards. And we,
21	importantly, need to have independent peer reviewed
22	studies to demonstrate that the surface is actually 110
1	safe and healthy for horses and humans before it is
2	ubiquitously deployed across the country.
3	As I mentioned before, the jockeys are
4	fundamentally constrained by regulatory weight
5	limits.
6	The jockeys are the only professional
7	athletes in American that are subject to
8	state-mandated malnutrition. It is in the
9	regulations. There is no other member of the U.S.
10	population that has to meet these kind of mandates.
11	Unfortunately, as Americans are getting
12	bigger, jockeys are being forced to remain within
13	the same weight limits.
14	Obviously, a rational science-based

approach is needed to illuminate this issue and

provide general guidance to all participants.

15

17 The medical challenges that we outlined earlier are very close linked to environmental and 18 19 occupational factors. Thoroughbred horse racing is the most 20 dangerous professional sport, with more severe head 21 22 injuries, clavicular fractures, spinal fractures and 111 1 ankle and wrist injuries than any other sport. 2 If we look at the factors, we have to look 3 at them one by one. 4 First of all, horse factors. And I think my colleague from Grayson Research has pointed out 5 there is an enormous amount of effort being made into this area as it is important and critical that 7 it has to be done. 8 9 Unfortunately a lot of trainers and owners and veterinarians still are distributing steroids, 10 11 which weaken the bones and tendons of the horses and 12 contribute to horse breakdowns, accidents, that obviously result in the horse's demise and serious 13

injury.

15	There is an issue of poor training and
16	poor breeding, inconsistent and unforgiving running
17	surfaces, which is one of the motivations for the
18	synthetic surfaces, inadequate diagnosis and
19	treatment of horse stress fractures, and
20	overrunning. That is the economic drive for owners
21	and trainers to run the horses before the horses are
22	rested and reconditioned and ready to ride. 112

1 Horse racing is an enormously expensive 2 business for owners and trainers. There is an incredible pressure to make sure that they get a 3 return on their investment. They shouldn't get a 4 return on the investment that leads to the death of 5 a horse and morbidity and mortality for the rider. 6 We need to have a proper balance. 7 8 The human factors that contribute to the situation are jockey inexperience, incoordination, 9 10 cognitive compromise. Again, these are factors that may be related to malnutrition and hypoglycemia. 11

They are emaciated, so they have myopathy.

- 13 Their muscles are not as strong and as flexible as
- 14 they need to be.
- I have jockeys coming to my office, and I
- 16 take their blood sugar, and it's 35. You and I
- 17 would be in a coma if our blood sugar was 35.
- Obviously things like lead poisoning can
- 19 lead to hypertension. The dehydration can lead to
- 20 hypernatremia. A lot of them are chronic smokers.
- 21 You compound that with particulate matter from the
- 22 track, you get hypoxic.

- 1 Hypokalemia, that is the decrease in
- 2 potassium, is frequently seen due to diuretic abuse.
- 3 And, as you know, they are predisposed to
- 4 arrhythmias.
- 5 We see hypomagnesemia, and a combination
- 6 of hyper and hypocalcemia depending on whether the
- 7 jockeys are overdosing on medications like Tums in
- 8 order to suppress the acids that are being produced
- 9 by self-induced vomiting.
- 10 Cardiomyopathy, as I mentioned before, I

file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 11 had a patient that had a heart transplant because of 12 behavioral and substance abuse that led to irreversible cardiac failure. 13 And very sadly, acute and chronic renal 14 failure. There is nothing worse than for somebody 15 to be on dialysis. It is one of the most difficult 16 and painful processes in medical care. 17 18 The alcoholic factors, the alcoholic intoxication and pulmonary hypertension secondary to 19 20 stimulant abuse. 21 In terms of the environmental factors that we need to study, obviously, variable track 22 114 conditions, consistency, and shock absorbing 1 capability. 2 Do these toxic dust plumes affect the 3 health of the horses and humans adversely? Is there 4 a presence of excessive coliforms that can 5 contribute to a panoply of pathology? 6

Does poor ventilation in the jockeys rooms

contribute to the rapid spread of infectious disease

7

and the concentration of airborne toxins, including

9

10 lead? 11 The occupational factors. These include these contra-physiological 12 weight limits which leads to cascading 13 immunocompromise due to malnutrition. 14 So if we had a framework of causation, a 15 way to look at all of these factors and how they 16 interact with each other. 17 18 Horse, human, environmental and 19 occupational factors all contribute to this cascade. You have weight limits that promote anorexia, 20 21 bulimia, stimulant abuse, laxative abuse, alcohol 22 abuse, and narcotic abuse. 115 These conditions may acutely and 1 chronically precipitate electrolyte abnormalities 2 and cognitive and muscular compromise. 3 4 You will have impaired coordination; your concentration is off; your balance and judgment may 5 be impaired; and this is all in a sport that has 6

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 7 absolutely no room for error. 8 So these physical and mental challenges may well contribute to risky jockey behavior and 9 poor responsiveness to dangerous riding situations. 10 One of the things that I have thought to 11 appreciate is a horse is always a wild animal. We 12 like to believe that we train them, that they become 13 our friends. 14 But they are beautiful in their power and 15 16 their unpredictability. And Jeff can tell you 17 innumerable situations which bear this out. 18 So we have to have, for jockeys to be safe, they have to respect the animal, and they have 19 20 to be able to take of it, and they need to have all 21 of their faculties in order to do this. 22 So the Jockey's Health Initiative is 116
 - 1 actually an unprecedented coalition of the horse
 - racing industry, Craig Fravel, the Grayson-Jockey 2
 - Club, California state regulators, horse owners, 3
 - trainers and jockeys, all searching for science 4

- 5 based solutions. But it's very important for us to have the 6 7 guidance and support and leadership of NIOSH and the CDC to help us conduct the required research and 8 obviously to implement the best solutions. 9 We look forward eagerly to the opportunity 10 to partner with NIOSH to supplant mythology with 11 methodology and replace fiction with fact. 12 13 Thank you very much. 14 MS. HENDRICKS: Thank you, Dr. Seftel. We 15 are going to break for lunch now. 16 I think we are running just a little bit late, but we are going to take an hour for lunch. 17 18 If we could get back here by quarter to 1. 19 (A luncheon recess was taken.) 20 MS. HENDRICKS: We are going to go ahead 21 and get started. It looks like we are short a few 22 people. 117
 - 1 Our next presenter will be Bonne Farberow
- 2 from the University of Pennsylvania, and she will be

- 3 presenting preventive medicine with remote
- 4 telemedicine and case studies in jockeys.
- 5 PREVENTIVE MEDICINE WITH REMOTE TELEMEDICINE;
- 6 CASE STUDIES & JOCKEY'S HEALTH
- 7 MS. FARBEROW: Thank you all for coming.
- 8 It's a pleasure to be here.
- 9 Basically, I would like to share with you
- all my experience over the past two years to be
- 11 fortunate enough to work with Dr. Seftel out at
- 12 Golden Gate and Baymeadows.
- Basically, what I realized pretty
- 14 quickly -- and I ended up meeting Dr. Dave, or
- 15 Dr. Seftel, purely by accident testing a medical
- 16 device that I was helping the device company achieve
- 17 validation data for their FK and 52K approval
- 18 (phonetic).
- 19 So we worked together very critical under
- 20 their IRB approval at Golden Gate Medical
- 21 approximately 12 to 18 months testing these remote
- 22 technologies out in the clinics there.

- What I realized is that the racetrack
 basically is a family practice setting. There were
 not only the jockeys, but also the employees of the
 - 4 track and fans of the track that were in and out of
 - 5 the clinic multiple times throughout the day.
 - 6 It also became an acute triage clinic and
 - 7 a remote emergency room, either trackside or in the
 - 8 clinic.
 - 9 Some of the medical treatments that we
- 10 actually observed out there during the study -- I
- 11 was out there usually Fridays through Sundays,
- 12 multiple times throughout the year -- were acute
- 13 asthmatic attacks, fractures, multiple concussions,
- 14 dehydration, pretty much on a daily basis, acute
- 15 trauma, hypertension, and arrhythmias.
- But I also learned pretty quickly through
- 17 interacting and being at the Jockey's Guild meeting
- 18 that there is physicians at some of the tracks.
- 19 There's nurses at some of the tracks. And there are
- 20 EMTs, Dr. David Seftel said this morning that are
- 21 not ACLS, are not paramedics, track side.
- Jockeys are an athlete, a partner, a

- 1 parent, a friend, a colleague. And that many have
- 2 families that were all the around the track, in the
- 3 jockey's rooms throughout the day.
- 4 And the study that we actually conducted
- 5 included 43 supposedly healthy volunteers, testing
- 6 2D and 3D ultrasound, EKGs, and spirometry, and we
- 7 were uploading taking images, comparing these two
- 8 devices.
- 9 The jockeys were, again, at both Golden
- 10 Gate and Baymeadows -- the device and the equipment
- 11 moved between the two clinics, depending on which
- 12 track was live.
- Currently ultrasounds are only done at the
- 14 hospital, so this was an interesting learning
- 15 experience as well because normally it is done
- 16 outpatient. The jockeys would be have to be
- 17 transported over to an outpatient radiological or
- 18 emergency room, hospitals, and the transmitting be
- 19 completed by ultrasonographers and radiologists.
- We were fortunate enough to be able to do,

- 21 both in emergency settings and in screening, the
- jockeys, and to transmit remotely to remote 120
- 1 radiologists for reading. As well as Dr. David
- 2 Seftel read them, and all of the ultrasounds were
- 3 performed by an ultrasonographer at the track.
- 4 The data ended up being healthy,
- 5 supposedly, volunteers. Actually, astonishing, we
- 6 found multiple renal calculi. We also found cysts,
- 7 hydronephrosis, which is enlarged there by the
- 8 kidneys.
- 9 I know that during the time I was there,
- 10 Dr. Seftel ended up having to send two of the
- 11 jockeys to the hospital. One had surgery, I
- believe, on their bile duct, on an occluded bile
- 13 duct.
- So again, these healthy athletes had
- 15 multiple anomalies. Unexpected findings that we
- 16 found were 15 jockeys out of the 43 showed evidence
- 17 of renal pathology, either diminished kidney size,
- 18 multiple micro or macro renal calculi.

- 19 Five had significant cholelithiasis, which
- 20 is of the gallbladder.
- 21 There were abnormalities in seven out of
- 22 28 of the jockeys due to hypo and hyperkalemia.

- 1 Seven also had an obstructive or asthmatic type lung
- 2 disease, and these were the only ones that came in
- 3 for the spirometry testing.
- 4 I observed, as I shared with you earlier,
- 5 multiple other jockeys that ended up coming in for
- 6 nebulizer treatments by Dr. Seftel.
- 7 One important aspect is basically seeing
- 8 that there is increased importance and focus needed
- 9 on safety of the jockeys, proactive versus reactive
- 10 treatment, which is currently happening so
- 11 frequently. Identifying the health issues and
- 12 treating them, and increasing the quality life for
- this population of athletes.
- 14 Very interesting, which Carl actually
- 15 called me and said that the documentary was on -- it
- was produced and filmed back in 2004. It's running

17 currently until June 3. I think I sent the link to 18 Kitty. 19 But it's of three jockeys that actually 20 helped film the documentary from Churchill Downs, 21 and it really, really got into a lot of the things 22 that I was able to observe and share with Dr. Seftel 122 over this past two years. 1 2 So if you have opportunity to be able to 3 watch it, again, it's on HBO On Demand until June 3. 4 I tried to see if we could get any clips from it, which we could not. 5 6 And that is the basic data. Does anybody have any questions? 7 8 Thank you, again. 9 UNIDENTIFIED SPEAKER: Actually, I have a question. 10 11 On your study, have you published the 12 results of that, or are those data available elsewhere? 13 MS. FARBEROW: Actually, we haven't. I 14

just presented it down at ATA, American Telehealth 15 Association, and it was written in the proposal that 16 17 we actually submitted to NIOSH. 18 We have not had the opportunity -- I'm 19 presenting again in June at the Drug Information, 20 DIA Association. 21 So those are the two so far that it's been 22 publicly presented. 123 1 UNIDENTIFIED SPEAKER: Great. 2 MS. HENDRICKS: Thank you, Bonne. Next we are going to have another 3 presentation by Dr. Seftel on workplace lead 4 5 exposure in the equestrian race environment. 6 While we get through our technical delay 7 result, we are going to go ahead and skip to the 8 next presenter, Scot Waterman, from the Racing 9 Medication and Testing Consortium. Scot is going to be presenting an overview 10 of medication control in horse racing. 11

AN OVERVIEW OF MEDICATION CONTROL IN HORSE RACING

13	MR. WATERMAN: Good afternoon. My name is
14	Scot Waterman.
15	I received my Doctor of Veterinary
16	Medicine from the University of Illinois in 1990 and
17	also completed the bachelor's program of the
18	University of Arizona racetrack Industry Program in
19	2001.
20	I have been working on medication issues
21	in racehorses for six years now. Currently I am the
22	executive director of the Racing Medication & 124
1	Testing Consortium.
2	The Consortium is a 501c3 organization
3	that was developed by the industry four years ago to
4	focus exclusively on issues related to the use of
5	drugs, both therapeutic and non-therapeutic, in all
6	three racing breeds, thoroughbred, quarterhorse, and
7	standardbred.
8	Our mission is to develop, promote, and
9	coordinate at the national level policies, research,

- 11 fairness and integrity of racing and the health and
- 12 welfare of racehorses and participants and protect
- 13 the interests of the betting public.
- 14 The Board of Directors of the Consortium
- 15 consists of twenty-three racing industry stakeholder
- 16 groups, including the Jockey's Guild, that bring a
- 17 wide range of experiences and expertise to the table
- 18 in order to build consensus on a unified, national
- 19 approach towards the use, regulation, and detection
- 20 of drugs.
- 21 Our Board members are all volunteer and
- 22 give freely of their time in order to help this 125
- 1 industry move forward on these very important
- 2 issues.
- 3 I appreciate the opportunity to be here
- 4 today, and my remarks will hopefully provide you
- 5 with a broad overview of the resources the industry
- 6 uses to combat the illegal use of drugs and to
- 7 regulate the use of medications of therapeutic
- 8 benefit to the horse.

9	There is little doubt that the industry
10	views the welfare of the racehorse as inextricably
11	linked with the welfare of the rider. In fact, I
12	think we have heard that three times already this
13	morning.
14	This is best evidenced by the purpose
15	language found in all state rulebooks establishing
16	the regulatory authority of the state racing
17	commission on matters of equine welfare.
18	To quote from Chapter 11 of the Racing
19	Commissioners International Model Rules on Racing
20	entitled Equine Veterinary Practices, Health, and
21	Medication, the purpose of the chapter is to
22	describe requirements and procedures used to ensure 126
1	the health and welfare of racehorses and to
2	safeguard the interests of the public and
3	participants in racing.
4	The first topic I would like to cover is
5	the forensic testing system employed by states to
6	identify prohibited drugs and to regulate permitted

- 7 concentrations of therapeutic drugs in equine
- 8 samples.
- 9 Overall, approximately \$30 million is
- 10 spent on an annual basis by the industry for drug
- 11 testing.
- To put this figure in some context, the
- 13 2005 testing budget for the United States
- 14 Anti-Doping Agency, the organization financially
- 15 responsible for all amateur athletic testing in the
- 16 United States, was \$5.6 million.
- 17 And the budget for the World Anti-Doping
- 18 Agency, which pays for out-of-competition testing
- 19 for Olympic athletes for the same year was \$2.1
- 20 million.
- 21 Every winner of every race in the United
- 22 States has a post-race sample, either blood, urine, 127
- 1 or in many cases both, collected. And in most
- 2 states, the stewards who act as sort of onsite
- 3 referees have the power to send additional horses to
- 4 the test barn following the race. This means that

- 5 over 150,000 horses are sampled throughout the
- 6 country every year.
- 7 Equine testing laboratories analyze
- 8 samples for a far wider variety of drugs than their
- 9 counterparts on the human athletic side.
- 10 At any given time, laboratories may be
- 11 screening for hundreds of chemical compounds,
- 12 including local anesthetics, tranquilizers and
- 13 anesthetic agents, narcotics, stimulants, beta
- 14 agonists, non-narcotic analgesics, non-steroidal
- 15 anti-inflammatory drugs, corticosteroids, anabolic
- 16 steroids, and other classes of potentially
- 17 performance altering drugs.
- Historically, the screening of samples
- 19 relied on thin layer chromatography, which is a
- 20 non-specific and not very sensitive technology.
- However, over the last ten to fifteen
- years, enzyme-linked immunosorbent assays, or 128
- 1 ELISAs, have become the backbone of sample screening
- 2 in horse racing.

3	ELISAs offer both increased sensitivity
4	and specificity and have been a step forward in
5	terms of the industry's ability to identify
6	prohibited drugs.
7	Many laboratories are now also employing
8	mass spectral methods, most notably liquid
9	chromatography/mass spectrometry, which allow the
10	detection of drugs down into the low picogram per
11	milliliter concentration range.
12	This phenomenal sensitivity is a huge
13	advancement in the detection of illicit drugs but
14	presents a dilemma to the industry because the
15	detection of minute concentrations of therapeutic
16	drugs pushes appropriate veterinary treatment
17	further and further out, potentially impacting the
18	normal care of the equine athlete.
19	The Consortium is currently working to
20	find that balance between allowing the proper
21	veterinary care while at the same time protecting
22	the horse, rider, and the betting public. 129

- 1 There are currently 18 laboratories 2 conducting post-race sample analyses in the United 3 States, five of which have been accredited to the International Standards Organization 17025 document, 4 5 which is entitled "General Requirements for the Competence of Calibration and Testing Laboratories." 6 7 There are two quality assurance programs 8 for laboratories in the industry administered by the 9 Testing Integrity Program and the Interstate Drug Testing Alliance and overseen by the Racing 10 11 Commissioners International. 12 The challenge for the Consortium going forward will be in how we can improve the industry's 13 post-race testing efforts. Our focus will be on the 14 15 fact that our testing dollars are divided amongst 18 16 laboratories rather than concentrated at one or two, 17 as is the case with most other sports. 18 Laboratory consolidation will be a politically difficult issue, but the Consortium is 19 20 exploring strategies that will achieve this effect.
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The second topic I would like to cover is

22	the equine medication and health rules themselves.
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1	Mr. Waldrop will provide you with an
2	overview of how racing is regulated, but just to
3	give you a preview; pari-mutuel wagering is a state
4	regulated enterprise, and there exists no national
5	organization in our sport with any ability to
6	mandate rules to the states.
7	Therefore, as pari-mutuel wagering has
8	been made legal across states over a number of
9	years, probably 60 years, differing rules have been
10	put in place.
11	The rules on medication and equine welfare
12	are no different. This is no doubt a frustration to
13	licensees who move across state lines. But while
14	the rules may be different, the purpose of each
15	state in regulating equine medication and health is
16	not.
17	States make decisions on rule language
18	regarding the use of medication and detection
19	strategies based on input from scientific experts

- 20 within or utilized by the state; typically
- 21 practicing and regulatory veterinarians,
- 22 academicians, and analytical chemists.

- 1 It is reasonable to expect that opinions
- 2 may differ between groups of experts, as often
- 3 happens in any scientifically based field, but that
- 4 does not mean there was an intent to be different or
- 5 adopt language that would negatively impact the
- 6 horse or the rider.
- 7 There may also be legitimate geographic
- 8 and climate reasons for rule variations.
- 9 That being said, one of the chief goals of
- 10 the Consortium is to harmonize as many of the
- 11 medication rules across the country as possible.
- While we go to great lengths to ensure
- 13 that policies developed by the Consortium for
- 14 national implementation are based on the best
- 15 available science and protect the welfare of the
- 16 horse, the main purpose in trying to accomplish this
- 17 goal is not because our organization believed that

- 18 the existing framework of rules did not protect the
- 19 welfare of the horse and rider adequately. Instead,
- 20 the intent was more to make state-to-state movement
- 21 of horses a simpler process and to bring racing more
- 22 on par with how other sports operate.

- 1 As of this day, 30 of the 38 pari-mutuel
- 2 states have adopted the Consortium's first phase of
- 3 the model rules. And, because of this, the
- 4 medication rules in United States are as close to
- 5 being uniform as they ever have been. Our
- 6 organization expects to see continued progress
- 7 towards uniformity over the next few years.
- 8 Third, I would like to discuss the
- 9 industry's effort at research and development. As
- 10 Mr. Bowen noted this morning, there is comparatively
- 11 little money for equine research in general, just
- 12 for the general horse population compared to other
- 13 species and for human research.
- The Consortium has worked to supplement
- 15 existing sources of funding and has awarded over

- 16 \$600,000 in grants to universities and laboratories
- 17 since 2001 to fund studies that seek to support
- 18 regulations involving the use of therapeutic
- 19 medications and also that seek to develop new
- 20 testing methods for substances of abuse.
- In addition to the Consortium funds,
- several states set aside funding out of the 133
- 1 pari-mutuel handle via various mechanisms to fund
- 2 drug and drug testing research.
- 3 Kentucky, Florida, Ohio, and Pennsylvania
- 4 are the most prominent states in this regard and, in
- 5 aggregate, raised over \$1 million for research in
- 6 2005.
- 7 Dollars raised by a state are typically
- 8 restricted for use by a university within the state,
- 9 which does place some limitations on what types of
- 10 studies are conducted.
- 11 Mr. Bowen also mentioned the formation of
- 12 the Equine Drug Research Institute and the
- 13 participation of Dr. Don Catlin, which we believe

- will produce science that will assist the industry
- 15 in the detection of prohibited substances.
- Looking at aggregate dollars devoted to
- 17 funding research, the racing industry is on par with
- 18 other sports agencies. As a comparison, United
- 19 States Anti-Doping Administration had a research
- 20 budget of \$2 million in 2005.
- 21 It is a goal of the Consortium to
- 22 continually grow our research budget because many of 134
- 1 the challenges we face on medication and testing
- 2 issues can be resolved by following peer reviewed
- 3 science.
- 4 I will close with a couple of projects the
- 5 Consortium is working on that we feel will allow us
- 6 to make strides in several areas that are currently
- 7 challenges for the industry.
- 8 First, the Consortium has created a
- 9 business plan for a research stable of twenty-five
- 10 horses that would be housed in Lexington, Kentucky.
- 11 The horses would be maintained at race training

- 12 fitness levels and managed similarly to horses you
- would find on backstretches throughout the country.
- 14 This stable will allow us to administer
- 15 therapeutic medications to a population of horses
- 16 with more similar demographics and collect far more
- 17 data than is available from the standard university
- 18 study which typically employs five to six horses
- 19 that are either sedentary or treadmill trained.
- We believe the resulting data will allow
- 21 us to make more accurate assessments in terms of the
- regulatory indices for the appropriate use of 135
- 1 therapeutic medications.
- 2 The Consortium is in the process of
- 3 exploring a partnership with Kentucky Equine Drug
- 4 Council, which is funded by a percentage of
- 5 pari-mutuel handle in Kentucky, to fund this stable
- 6 and we are actively looking for other possible
- 7 funding sources, including federal, in order to
- 8 establish the stable.
- 9 Second, a longer term goal of the

10 Consortium is to establish an industry-owned reference and research laboratory, which will be 11 dedicated to method development and the creation of 12 13 laboratory minimum standards for equine forensic 14 laboratories. 15 It is anticipated that 4 to 5 million 16 dollars will be required to equip and staff the laboratory, and the annual budget will likely be in 17 the 1 to 2 million dollar range. 18 19 The Consortium is currently seeking 20 industry sources of funding for this project which we have tentatively added to our 2009 budget. 21 That concludes my prepared remarks. I 22 136 1 would be happy to address any questions. 2 Thank you very much for your attention. 3 MS. HENDRICKS: Thank you, Dr. Waterman. 4 Next we are going to have Dr. Seftel, I 5 believe. WORKPLACE LEAD EXPOSURE IN THE EQUESTRIAN 6

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RACING ENVIRONMENT -- PRELIMINARY DATA

8	AND REMEDIATION STRATEGIES
9	MR. SEFTEL: Yes, we are.
10	Thank you, again.
11	What you will be hearing in the next 15
12	minutes is looking at some of the specifics of lead
13	in the racing workplace, what the diseases how it
14	manifests itself and what action should be
15	potentially be taken.
16	I think everybody in this room recognizes
17	that lead is probably one of the most significant
18	environmental toxins that we have to deal with, and
19	all steps must be taken to reduce both aerosol and
20	particulate exposure to this very important toxin.
21	For those that are schooled in lead
22	toxicity, lead causes both acute and chronic 137
1	toxicity that you get from ingesting it and
2	inhalation.
3	Poor ventilation and cramped quarters can
4	amplify the ingestion and inhalation of lead.
5	What is not really appreciated is that low

- 6 level lead can exacerbate major medical morbidities
- 7 as well as, obviously, traditional -- traditionally
- 8 seen high level lead toxicity.
- 9 And interestingly, low level lead exposure
- 10 can exacerbate the pre-existing kidney problems that
- 11 jockeys face because of all of the other challenges,
- 12 the dehydration, the chronic hyperthermia, and
- 13 malnutrition.
- So, again, this is a co-factor for
- 15 accelerating and exacerbating the kidney disease in
- 16 this population.
- 17 There's a strong link between kidneys
- 18 disease, hypertension, and gout with lead poisoning.
- Recent studies show that exposure to even
- 20 low levels of lead may have potentially hazardous
- 21 effects on the speed of progression of kidney
- 22 failure.

- 1 Lead causes a characteristic typical
- 2 pattern of iron-deficiency anemia with hypochromia
- 3 and microcytosis, with iron deficiency as well. It

- 4 also has profound reproductive and carcinogenic
- 5 effects. One of the problems at least talked about
- 6 in this population is infertility.
- 7 Jockeys have many reasons for being
- 8 infertile. And one of them is the prolonged
- 9 hyperthermia, which, as you know, affects the
- 10 spermatogenesis. Add to that the malnutrition,
- 11 dehydration, all those co-factors. But you add lead
- 12 into the equation, and it obviously amplifies the
- 13 problem.
- We know that lead has been classified
- 15 apparently as a Group 2B carcinogen in animals.
- So who handles the lead? We have shown
- 17 you some of the people in the video this morning.
- 18 It is handled on a daily basis by valets,
- 19 jockeys, the clerk of scales, the cleaners,
- 20 sometimes even the children of the jockeys that have
- 21 access to the jockey's room, grooms, and exercise
- 22 riders.

1 And as we know, children are especially

- 2 vulnerable because of their developing bone
- 3 structure to the impact of environmental lead.
- 4 How often do they handle lead? Well, we
- 5 did a very small observational study just watching
- 6 and documenting how many times lead was used by the
- 7 various participants. And we showed the valet
- 8 handled lead up to 14 times a day, that is for every
- 9 race.
- Jockeys will handle lead up to five to
- 11 eight times per day to adjust their own saddles if
- 12 the valet is not available. And the clerk of scales
- may handle the lead, too, four times a day to top up
- 14 a particular saddle.
- 15 In addition, the cleaning population in
- 16 the evenings is also exposed to that lead, both
- 17 handling it and inhalation. But interestingly, as
- 18 we saw in the video, much of the lead dust remains,
- 19 and the cleaners do not remove that.
- And, again, how do they handle it? They
- 21 handle it with their hands, which is probably one of
- 22 the worst ways to handle lead. It is a major 140

- 1 problem with not washing after contact.
- 2 One of the greatest challenges we have,
- 3 not only eliminating lead from the workplace, but
- 4 also making a pronounced educational campaign in
- 5 order to get people to realize the dangers and take
- 6 remedial action.
- 7 How is that lead stored? You saw it.
- 8 Most of it is in open air, which aids in
- 9 aerosolization.
- The storage box often contains visible
- 11 particulate lead. You saw how they threw the lead
- 12 weighs into the box, and that's a major mechanism
- 13 for breaking what the -- breaking the lead, causing
- 14 it to fracture, generate more particles, and
- 15 obviously aerosolize.
- The coating that was used is very frail
- 17 and friable.
- 18 Most of the facilities do not have a
- 19 designated lead safety officer who is available to
- 20 provide constant supervision.
- 21 If you are going to have lead in the

22	workplace, it seems reasonable that you have 141
1	somebody who is well versed in the toxicity and
2	intervention strategies.
3	And, as you saw, the lead weights are
4	fundamentally very difficult to encase robustly.
5	And even the leather-sacheted weights continually
6	leak lead particulate material from the seams.
7	I have something to show you today because
8	a lot of people don't believe it.
9	Bonne.
10	This is bagged in five plastic bags.
11	These are the lead weights.
12	You take them around and show people, just
13	show them exactly what we are talking about.
14	You see how the blue one is friable and
15	breaking down, and the other one is the one encased
16	in leather, and yet lead is seeping out through the
17	seams.
18	So what should be done?
19	I believe it is imperative that we issue

- 20 an immediate and binding directive to remove all
- 21 lead from the workplace.
- The reality is these lead weights can 142
- 1 inexpensively replaced with cast iron.
- Now this is very critical. Jockeys who
- 3 have their own personal lead weights must surrender
- 4 them and ensure that all household contact,
- 5 especially children, are tested and their household
- 6 environment detoxified.
- 7 I want to ask Jeff to come up and tell you
- 8 a little story which is illustrative of the depth of
- 9 the problem.
- MR. JOHNSTON: I came in last night, and
- 11 we were going over -- they were telling me what they
- 12 were doing to discuss here today.
- 13 I had an interesting story from -- I guess
- 14 some of you probably know Mike Manganello, who was
- 15 the Kentucky Derby winning jockey on Dust Commander.
- I was telling him that they were looking
- 17 into the lead issue, and he said, Well, I have a

- 18 story to tell. When I was riding in Cleveland, at
- 19 Thistledown in Cleveland, they had a kitchen
- 20 upstairs. He said he would go up to the kitchen,
- 21 and the cook was using the lead weights to keep the
- 22 bacon flat.

- 1 So with it in the room, it is -- everybody
- 2 is exposed to it. So I'm glad, thankful that
- 3 everybody is starting to look into the different
- 4 issues that we need to address in the jockeys'
- 5 quarter.
- 6 MR. HEARL: Can I ask a question?
- 7 Are lead weights are also part of your
- 8 personal equipment?
- 9 MR. JOHNSTON: You get them when you
- 10 buy -- most jockeys have three different saddles.
- 11 They will have a light saddle for your lighter
- 12 horses, a medium saddle that makes you most
- 13 comfortable for the midrange horses.
- 14 And then you have a saddle with pockets in
- 15 it like you saw on the video, that when you have

- 16 your horses with your high weights, you will put the
- 17 lead in the pockets.
- And most of the saddles when you buy them,
- 19 come with the weights.
- 20 Most of them now are leather coated. But
- 21 in the jockeys room, they have the exposed lead that
- you saw that was in the box. And they chip off, and 144
- 1 you -- Keeneland is the only factory that I been to
- 2 that has the best pads, which I think you saw in the
- 3 video as well. Those are -- there is an easy remedy
- 4 for the lead weight issue.
- 5 And I know some jockeys are getting -- we
- 6 are getting into resistance by the jockeys who have
- 7 changed, don't like the weighted pads.
- 8 But, again, a period of change, and it's
- 9 something for their best interest, in their best
- 10 interest, and for the betterment of all the
- 11 participants in racing.
- 12 MR. SEFTEL: Thank you, Jeff.
- So obviously, particularly if you just

- 14 dined, no cooking should be performed with lead
- 15 weights.
- All potentially exposed persons should be
- 17 submitted to hematological testing for lead levels.
- 18 We found this relatively inexpensive. We negotiated
- 19 a price of \$4.19 per person. At that rate, we could
- 20 test everybody multiple times, if necessary.
- 21 For the high risk -- especially high risk
- high exposure population, that is the valets and the 145
- 1 jockeys, we should consider bone lead studies using
- 2 techniques like x-ray flourescence analysis in order
- 3 to assess cumulative exposure. As you know, blood
- 4 levels only give us an idea of current, but not
- 5 cumulative lead exposure.
- 6 So please, people, this is not one of
- 7 those sit-back-and-think-about-it decisions. We
- 8 must act now to prevent a legacy of disease and
- 9 disability. Please let's put lead to bed.
- Finally, just to summarize on the points
- 11 that we discussed this morning, remediation avenues

- 12 to potentially consider.
- Firstly, a comprehensive study to develop
- 14 composite physiological criteria to judge jockey
- 15 fitness to ride.
- Jockeys should not be judged just on the
- 17 basis of weight. We need a composite measure, which
- 18 we will determine through our research, whether that
- 19 is a measure of hydration, glycemia, coordination,
- 20 body fat, or some other measure that would come out
- 21 of structured research, but we need to have a better
- 22 way to judge jockeys fit or unfit to ride.

- 1 We need to introduce mandatory nutritional
- 2 education and counseling for all jockeys as part of
- 3 the qualification process.
- 4 Before they get their jockeys license,
- 5 they must show that they understand the principles
- 6 of nutrition because it's a critical element that we
- 7 have discovered in our work, that there is a poor
- 8 level of knowledge about nutritional standards and
- 9 behavioral practices that are consistent with good

- 10 health.
- We need to develop and implement
- 12 comprehensive and consistent trackside emergency
- 13 care standards and avoid unnecessarily poor outcomes
- 14 after injury.
- 15 That young man we saw in the video, Kyle
- 16 Kaenel, almost died waiting for an ambulance when
- 17 his neck was fractured. This is an unacceptable
- 18 state of affairs when you have a sport that is the
- 19 most dangerous of all sports out there. They
- 20 deserve to have the same level of care as NFL
- 21 players and NHL players. They have the right to
- 22 qualified doctors, paramedics, and appropriate 147
- 1 emergency care at all tracks.
- We need to develop and implement solid
- 3 standards for trackside medical care staffing and
- 4 facilities to bring horse racing in line with the
- 5 medical standards and facilities provided by other
- 6 professional athletic sports.
- We need to consider low dose x-ray and

- 8 ultrasound in more circumstances to reduce the
- 9 currently high cumulative radiation exposure
- 10 suffered by jockeys with the apparent excess of
- 11 malignancies that we know are in the historic
- 12 medical records.
- We should mandate use of strong but
- 14 flexible safety reins.
- 15 Jeff, could you show them the safety
- 16 reins?
- One of the biggest problems that occurs on
- 18 the track is the reins may snap in the middle of the
- 19 race.
- You can imagine, the rider is essentially
- 21 balancing on the tips of his toes and his
- fingertips. And if the reins snap, he has no 148
- 1 control.
- 2 Could you explain to them what the
- 3 principles are?
- 4 MR. JOHNSTON: This is another easy fix in
- 5 my mind.

- 6 Ohio actually implemented a rule,
- 7 regulation a few months ago that goes into effect in
- 8 the summer of 2008 that implements -- that mandates
- 9 the use of safety reins.
- This is what they are. They are reins,
- 11 just like the reins they use today.
- They have a cable, a parachute cord, a
- 13 piece of nylon attached to the hook that runs to the
- 14 end of the rubber.
- So what happens, in the daily use of this
- 16 equipment, you can want see what happens, what the
- 17 leather looks like underneath the rubber grip. And
- 18 then they wash it, it rains, the water drips down
- in, and you can't see.
- When a rein breaks, 90 percent of the time
- 21 it breaks inside this leather. And I'm sure both of
- you have seen it in, I think, Black-eyed Susan last 149
- 1 year. Many riders have been years or -- months,
- 2 even years off recuperating from injuries suffered
- 3 from a rein breaking.

- 4 And it is unbelievable how quick the
- 5 ground comes up when you have all of your pressure
- 6 against one of these reins, the rein breaks, and
- 7 immediately you are on the ground. You have got
- 8 horses running over you.
- 9 This is a simple fix. And they have been
- 10 independently tested.
- 11 There's another -- there's plenty of
- 12 providers that make the reins available. The guy
- 13 who invented it, who has the patent on it that made
- 14 them available to many manufacturers, they are
- 15 working on increasing production for many states. I
- believe it's trying to go through in California.
- 17 And they are also working on passing a regulation in
- 18 Oregon. And I hope that all of the other states
- 19 will consider passing it as well.
- I know the RCI, the recent RCI convention,
- 21 they made a standard rule, or a standard provision
- 22 that they should be passed and implemented in all 150
- 1 states.

2	I will bring these around so that
3	everybody can look at them. And, again, I think
4	this is an easy fix to increase the safety and
5	protection of jockeys.
6	UNIDENTIFIED SPEAKER: Jeff, just a
7	question.
8	Is it jockey choice not to use them, or is
9	it trainers who say they don't want them used?
10	MR. JOHNSTON: Well, the jockeys equipment
11	consists of the saddle, helmet, whip, and vest and
12	girths.
13	The equipment the horse comes over with to
14	the paddock is the choice of the trainer or owner.
15	MR. BAHNO: Yeah. Right now, I have
16	several tracks in California. We are running a test
17	program on those.
18	And they are about \$25 more than the other
19	costs, I believe, of the conventional reins. But we
20	are working with the manufacturer to get some sort
21	of discount, you know, arrangement.
22	Interesting thing, at least within my

- 1 personal experience, is that I'm not aware of any
- 2 jockey injuries that are associated with the
- 3 California program that actually involved a broken
- 4 rein, but, nonetheless, I basically concur what with
- 5 what you said. I think that's a great idea.
- 6 The interesting thing is when the first
- 7 test ones came back from the manufacturer, there was
- 8 some sort of a miscommunication because, here,
- 9 again, to my earlier comment about if you make
- 10 protective equipment, talk to the population that's
- 11 going to use it.
- When the first set of reins came back from
- 13 California, they were too short. What I mean by too
- short, the rubber piece was not long enough.
- 15 Because I think the first set that they sent us was
- 16 used, I believe, in the harness racing world.
- 17 And, you know, basically jockeys taking it
- 18 in such a way that you knot them up; right, that you
- 19 kind of --
- MR. JOHNSTON: Right. You tie the ends of

21 them in case they come unbuckled, you wouldn't drop

22 one rein.

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1 MR. BAHNO: So then, in fact, we went back 2 to the drawing board with the manufacturer, and now 3 we have another shipment that is basically long enough for those jockeys to be able to do what they 4 5 need to do. 6 MR. JOHNSTON: Any other questions? I'll pass these around so everybody can 7 see what they consist of. 8 9 MR. SEFTEL: Remediation avenues 3, remove all lead from the workplace. 10 We also need to work with the industry to 11 improve horse running surface consistency and shock 12 absorbing capability. 13 14 The efficacy of these synthetic tracks 15 should be demonstrated for horses and humans before they are ubiquitously deployed to replace the dirt 16 surfaces. 17 We also need to develop and implement a 18

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 19 comprehensive nationwide injury and illness package system to be able to prospectively detect trends and 20 21 drive an effective and expeditious corrective 22 intervention. 153 1 This is just some pathology, and I think 2 most people are familiar with that. 3 Thank you, again, everybody. If there are 4 any questions, I will be happy to entertain them. 5 MS. HENDRICKS: Next we have oversight regulation of the pari-mutuel horse racing industry 6 by Alexandria Waldrop from the National Thoroughbred 7 Racing Association. 8 OVERSIGHT AND REGULATION OF THE PARI-MUTUEL 9 10 HORSE RACING INDUSTRY 11 MR. WALDROP: First, I want to thank you for this opportunity to address the National 12 13 Institute of Occupational Safety and Health regarding safety and health issues in the 14
 - The NTRA is a not-for-profit member-based 16

thoroughbred industry.

- 17 trade association that represents a broad spectrum
- 18 of owners, breeders, horsemen, racetracks and other
- 19 horse racing interests.
- The purpose of the NTRA is to strengthen
- 21 the Thoroughbred racing industry by increasing
- public awareness, creating a centralized national 154
- 1 structure, implementing comprehensive marketing
- 2 strategies, and enhancing the industry's economic
- 3 condition by achieving revenue increases and cost
- 4 reductions for its membership.
- 5 To accomplish these objectives, the NTRA
- 6 represents its members in marketing and television
- 7 contracts, public affairs, sponsorship sales, and
- 8 group purchasing programs.
- 9 The NTRA also serves from time to time as
- 10 something we call a convening authority to address
- 11 national issues. Over the years, the organization
- 12 has impaneled industry groups to address a variety
- 13 of issues, including equine medication and drug
- 14 testing, wagering integrity, industry economics,

file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 15 governmental deregulation, and most recently, jockey 16 insurance. The NTRA does not contract with jockeys, 17 backstretch workers, or exercise riders. However, 18 like all members of the racing community, we 19 20 recognize the important role that these individuals 21 play in our industry and the risks that they incur 22 each year while discharging their duties in connection with the care, exercising, and riding of 1 2 some 74,000 racehorses participating in 58,000 races and making a combined total of 487,000 starts. 3 The horse racing industry is committed to 4 ensuring that the racing environment is safe for 5 6 both equine and human athletes as a matter of routine. The safety features may vary between 7 jurisdictions, but generally they include: 8

Pre-race inspection exams by

state-licensed veterinarians for all race-day equine

competitors; post-race equine drug testing under an

industry-sponsored program; track maintenance that

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- 13 includes harrowing, soil conditioning, and watering,
- 14 as needed, to produce a safe and consistent surface;
- 15 safety rails designed to minimize injuries to horses
- 16 and riders should a racing accident occur;
- 17 engineered racing surfaces such as Polytrack, which
- 18 are designed to reduce the incidence of on-track
- 19 injuries for horses; an ambulance that follows each
- 20 racing field from starting gate to finish; padded
- 21 starting gate stalls and professional handlers for
- each of the horses at the starting gates; on-track 156
- 1 alarms to alert jockeys in the event of an emergency
- 2 during a race or during training hours; and
- 3 protective helmets and vests for jockeys.
- 4 Members of our industry meet regularly to
- 5 exchange ideas and information regarding numerous
- 6 issues, including racetrack safety. These industry
- 7 conferences include the University of Arizona's
- 8 annual Symposium on Racing, the Thoroughbred Racing
- 9 Association of North America's annual convention,
- 10 the Asian Racing Conference; the International

file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 11 Federation of Racing Authorities. The American Association of Equine Practitioners also has an 12 13 annual convention, and there are conferences conducted by the Association of Racing Commissioners 14 International, just to name a few. 15 Most recently, The Jockey Club organized a 16 Horse Health and Safety Summit to identify critical 17 issues that affect horse health and/or shorten the 18 19 career of racehorses. The summit resulted in a 20 strategic plan for assuring the health and safety of 21 the Thoroughbred. The participants drafted action plans in 22 157 six areas to improve conditions in various facets of 1 the Thoroughbred industry. 2 3 The six areas include education and licensing; racing conditions/racing office; 4 5 research; health and medical records; racing surfaces, shoeing, and hoof care; and breeding 6

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Among the recommendations coming out of

practices.

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- 9 that two-day summit included a need to research,
- 10 development, and publication of additional
- 11 statistics that will provide insight into the
- 12 durability and longevity of progeny of breeding
- 13 stock; make efforts to have scientific research more
- 14 widely distributed among industry stakeholders;
- 15 examine the use of or ban of certain horseshoes,
- such as toe-grabs, in the wake of presentations and
- 17 research by Dr. Sue Stover and other participants;
- 18 develop a uniform on-track injury reporting system
- 19 for horses and humans; provide continuing education
- 20 for all horsemen, exercise riders, farriers; and
- 21 make initiatives like the Groom Elite Program more
- 22 available throughout the country.

- 1 The summit was coordinated and
- 2 underwritten by the Grayson-Jockey Club Research
- 3 Foundation and The Jockey Club, and it was hosted by
- 4 The Keeneland Association in Lexington, Kentucky.
- 5 Numerous industry organizations provide
- 6 assistance for jockeys and other members of the

- 7 racing community. Again, The Jockey Club
- 8 Foundation, established in 1947 there to assist
- 9 industry workers, including injured jockeys; the
- 10 Shoemaker Foundation, formed in 1991 with a mission
- 11 to provide financial assistance to any individual in
- 12 the racing industry who has suffered a catastrophic
- 13 illness or accident after exhausting available
- workers' compensation and insurance benefits.
- The Don Macbeth Memorial Fund, providing a
- wide range of assistance to riders, from purchasing
- 17 medical equipment to providing monetary assistance.
- 18 And the NTRA Charities' Permanently
- 19 Disabled Jockeys Fund, which provides disability
- 20 payments for 54 permanently disabled jockeys.
- In addition, numerous benevolent groups
- 22 exist among horsemen's associations to assist 159
- 1 backstretch workers in need, while organizations,
- 2 such as the Winners Federation and the racetrack
- 3 Chaplaincy, provide substance abuse counseling and
- 4 other social services.

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5	As the speakers before me have noted, the	
6	racing industry also supports a substantial amount	
7	of research that is geared toward the health and	
8	safety of horses and riders.	
9	Reducing the incidence and severity of	
10	racetrack injuries is a critical component of risk	
11	management for our sport and for preserving its	
12	reputation for integrity and safety.	
13	Dr. Waterman has already covered the work	
14	of the Racing Medication and Testing Consortium, so	
15	I will not go into any detail regarding the RMTC and	
16	its important work.	
17	There is the regular medical research	
18	focusing on equine health and safety, funded largely	
19	by the industry itself through the Grayson-Jockey	
20	Club Research Foundation, which is the world's	
21	largest private funder of equine medical research.	

Charities, the Barbaro Memorial Fund, as a memorial

The NTRA recently formed our own NTRA

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2 to the 2006 Kentucky Derby winner Barbaro, who

- 3 battled bravely to survive the effects of a
- 4 catastrophic injury suffered in the 2006 Preakness
- 5 Stakes before he died of laminitis eight months
- 6 after his injuries.
- 7 The NTRA Charities Barbaro Memorial Fund
- 8 seeks to raise money for equine health and safety
- 9 research as well.
- 10 Additionally, the University of
- 11 California-Davis conducts a racehorse necropsy
- 12 program funded by the racing industry to determine
- 13 the nature of catastrophic injuries to horses and
- 14 develop injury prevention strategies.
- Ongoing scientific research into racetrack
- 16 injuries is aimed at identifying causal factors for
- 17 injuries with the goal of reducing the incidence and
- 18 severity of equine injuries, and indirectly, the
- 19 safety of jockeys and exercise riders.
- Horse racing supports a pari-mutuel
- 21 industry that generates over \$15 billion in annual
- 22 wagers throughout North America. It also is a major

- 1 economic driver for the horse industry as a whole,
- 2 which supports a \$39 billion agri-business and a
- 3 half-million full-time jobs.
- 4 Racing also produces \$2 billion, that's a
- 5 B, \$2 billion in tax revenues at the federal, state,
- 6 and local level, making government one of the prime
- 7 economic beneficiaries of racing.
- 8 I am tempted at this point to launch into
- 9 a diatribe about the over-regulation of racing by
- 10 state governments, especially economic regulation
- and what some have called confiscatory excise taxes,
- 12 tax rates that drain this industry of much needed
- 13 revenue, revenue that could be used to address some
- 14 of the problems we are talking about today, but I
- 15 will resist that temptation.
- Horse racing has a strong presence in more
- 17 than 30 states, including California, New York,
- 18 Florida, Pennsylvania, Maryland, Kentucky, Texas,
- 19 and Louisiana, to name but a few.
- In California, for example, the horse
- 21 industry, as a whole, carries an economic impact of
- 22 nearly \$7 billion. In Florida and Texas, the

- 1 industry's impact is \$5 billion. In Kentucky, it is
- 2 \$3.5 billion.
- More than 58,000 races were run in North
- 4 America in 2006, carrying gross purses of \$1.2
- 5 billion. The public auction market for Thoroughbred
- 6 bloodstock is worth more than \$1.2 billion.
- 7 As we have said many times today, racing
- 8 is heavily regulated in every state where it is
- 9 conducted. State racing authorities regulate, not
- 10 only pari-mutuel wagering, but also, in these
- 11 states, almost every aspect of racing, from
- 12 concessionaire contracts to backstretch living
- 13 conditions.
- Let me assure this body that the horse
- 15 racing industry, in concert with state regulatory
- 16 agencies, is committed to ensuring that our sport
- 17 continues to operate in a manner that will protect
- 18 both its participants and its public.
- Can we do more to ensure the safety and
- 20 health of our athletic participants? Yes.

21 Are we committed to do doing more? 22 Absolutely. 163 We at the NTRA are encouraged by 1 collaborative business and industry solutions to 2 enhance safety and health, such as the safety 3 committee at Delaware Park, discussed previously by 4 Mr. Colton and Mr. Fravel. 5 6 These types of innovations are critical to our industry's ability to respond to its safety and 7 health challenges. 8 9 The NTRA is committed to supporting and promoting these efforts, not only because it is good 10 11 business and important to promote safety and health 12 of our equine and human athlete, but it's also the right thing to do. 13 14 Information gathering is critical, but the 15 implementation of solutions will be a challenge without broad industry support. 16 The National Thoroughbred Racing 17

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Association is uniquely positioned to build that

- 19 support. 20 I thank you very much for your time. I 21 will take any questions, if you have them. 22 Yes, sir. 164 1 MR. HORNUNG: Yeah, I have one. One of the things that was brought up to 2 me when I originally spoke with some of the members 3 from the oversight committee that were interested in 4 this topic was the state rules regarding slot 5 machines and gambling require racing dates through 6 7 months when the weather is inclement, where 8 perhaps -- you know, I was wondering if you could 9 comment on whether those kinds of work requirements 10 are required to run races at times when it might be 11 a little bit more hazardous than on a clear day. 12 MR. WALDROP: I'm not aware of any state 13 law or regulation that requires that racing be conducted. 14
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Every state that I'm familiar with in the

United States allows racetracks and horsemen to

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17 apply for racing days. 18 And so there are historic times on the calendar when racing is conducted. 19 20 For instance, in Kentucky, there are races 21 in the winter, and it's very important to the 22 economic viability of the horse industry that there 165 be a year-round circuit, a racing circuit. 1 2 And so the demand of the media and the industry participants, those winter days, if you 3 will, are critical, and they are applied for and 4 5 highly coveted. Granted they are perhaps not the ideal times, but the economics of the industry are 6 such that to field the competition year round, those 7 8 days are necessary. 9 So I don't think that winter racing or 10 inclement weather racing is mandated. I just think 11 that the economics of business encourage that people take advantage of those dates on the calendar. 12

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If not, I thank you very much for your

Any other questions?

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15 time. 16 MS. HENDRICKS: Next we have Dr. Karin 17 Opacich from the University of Illinois presenting 18 collecting and translating incidents and injury data 19 in the horse racing industry. 20 COLLECTING AND TRANSLATING INCIDENT AND INJURY 21 DATA IN THE HORSE RACING INDUSTRY 22 MS. OPACICH: Thank you. 166 1 Some of you are curious about why I'm here, so I will share you just a little bit about my 2 background. 3 My clinical background is occupational 4 therapy and occupational science. I have also have 5 a degree in health professions education, and my 6 doctoral degree is in public health. 7 8 I also happen to be a horsewoman who has 9 been a participant/observer in the industry for well over 20 years. So this is a convergence of both my 10 11 interests and my concerns.

I always like to know who I'm speaking to,

- 13 so how many in the room are scientists? 14 How many of you are scientists who have 15 been to the races? Okay. 16 How many of you are horsemen? How many of 17 you are horsemen who are also scientists? 18 I know at least one over there. 19 So, okay. We have different groups of people who come from very different cultures. And I 20 think one of the professionals missing in the group 21 is an anthropologist. Do we have any 22 167 anthropologists in here? 1 2 It is necessary to understand both the 3 culture and the science to really understand racing, so I imagine for some of you, particularly those of 4 5 you in NIOSH, that you're facing a big learning curve. So if there are things that you don't 7 understand about this, please do ask us.
- 10 in progress for over two years now.

9

What I'm going to present to you is really

a work in progress, and it is a work that has been

11 We are not going to meet, those of us who 12 have an interest in racing, and we recognize both 13 some of the opportunities and some of the problems. 14 We are beginning to recognize each other. 15 It's been a little difficult to identify human 16 scientists in this community, and so, as we do that 17 and we identify each other's interests, we are 18 finding more opportunities to collaborate. This particular endeavor resulted from 19 20 meeting new colleagues who are both equine scientists and human scientists who were preparing 21 22 for the welfare summit and who had interests in 168 epidemiology and some of the safety issues in the 1 industry. 2 3 So here's a statement of the problem. 4 Currently there are no uniform mechanisms 5 for capturing underlying causes of the incidents and injuries in the horse racing industry. 6 7 While -- I mean, there are many tracks and

many racing corporations who gather data, that data

- 9 is generally not systematic in the way that it needs
- 10 to be for scientists to analyze that data, nor is it
- 11 uniform.
- So we are looking at apples and oranges
- 13 and trying to make sense out of that.
- 14 All of you who have done literature
- 15 searches on the internet know that there are only
- 16 two published jockey injury studies in the
- 17 literature. There is one eminent, but it's not in
- 18 the literature yet.
- 19 So we have a bit of a dissemination
- 20 problem in the science that we have already
- 21 accumulated.
- One of the advantages of being a later 169
- 1 presenter is being able to identify the themes of
- 2 the meeting. So resoundingly, one of the themes
- 3 here has come both from the literature and from
- 4 others who have spoken, including Dr. Seftel, who
- 5 said what we really need is a database.
- What we really need is to systematically

- 7 collect data that can support us when we raise
- 8 questions and formulate hypotheses.
- 9 And that, even though the studies that do
- 10 appear in the literature are very old in terms of
- 11 science and significantly flawed, they both -- both
- 12 teams of investigators recommended long ago that we
- 13 have a national databank of information about
- 14 accidents and injuries for humans.
- 15 In designing a system, any kind of
- 16 surveillance system, the rule, the cardinal rule is
- 17 that the quality of the available data and its
- 18 utility in decision making is based on the breadth
- 19 and depth of the data collection process.
- So one of the problems that many concerned
- 21 people have had when they try to do retrospective
- studies of injuries is that the data is so limited,
- 1 that you come up with a number of conclusions, and
- 2 you cannot see trends predicated on a small group of
- 3 incidents and accidents.
- 4 This just reiterates some of the things

- 5 that you already heard about the industry that made
- 6 this kind of endeavor challenging.
- 7 Each racing corporation is autonomous.
- 8 There is some skepticism in the industry about how
- 9 information will be used and why it needs to be
- 10 collected and shared. State racing boards are
- 11 autonomous, and there is no national jurisdiction.
- We have national agencies and national
- 13 associations, but we don't have a national
- 14 jurisdiction the way that Canada does or some other
- 15 venues do globally.
- 16 For those of you who have tried to acquire
- 17 epidemiological data, you know that the databases
- 18 are very limited.
- Right now, if you look at equine injuries
- 20 in the Bureau of Labor Statistics, you will find
- 21 only very cursory broad information that does not
- 22 inform this industry in the development of 171
- 1 interventions.
- 2 State EMT data is available, but it too is

- 3 very general. A few IC9 codes about broken bone,
- 4 concussion, whatever, it doesn't give us that rich
- 5 array of data necessary to analyze the situation.
- 6 It's not contextual.
- Racing industry injuries are usually
- 8 excluded from state agricultural industry injury
- 9 databases. You will find things about carriage
- 10 turnovers among the Mennonites and the Amish
- 11 communities, but you won't find racing related
- 12 injuries in most agricultural databases.
- And, again, the data currently collected
- 14 for those who collect it may not be the right set of
- 15 data or broad enough or profound enough data to
- 16 really inform decision making.
- 17 This theme has emerged in virtually every
- 18 presenter's material here. And, once again, I would
- 19 like to reiterate that accidents and injuries are
- 20 multifactorial. Rarely are they attributed to one
- 21 single cause.
- And so here we have a combination of 172

- 1 equine attributes, human attributes, you know,
- 2 infrastructure, and training practices.
- 3 Another theme that has clearly emerged,
- 4 and I think it is understood by both the NIOSH
- 5 health and safety folks and the industry people, is
- 6 that there is an inextricable symbiotic relationship
- 7 between human and horse. And the health of one and
- 8 the well being of one affects the well being of the
- 9 other.
- 10 So for a full understanding, we really
- 11 have to have a full picture.
- So the kind of data that we need should be
- 13 triangulated data, and that's both quantitative and
- 14 qualitative and across those four parameters of
- 15 human attributes, equine attributes, infrastructure,
- 16 and training practices.
- 17 This is just a visual depiction of where
- 18 racing occurs in the United States. And I want to
- 19 make sure that you understand that it does not
- 20 necessarily represent major racetracks or tracks
- 21 where pari-mutuel betting occurs or tracks with

1	This is just a depiction of counties where
2	racing occurs that has some impact and economic
3	impact on those communities. And you can see that
4	it's not just a Delaware problem or a Florida
5	problem or a New York problem. It's really pretty
6	well distributed throughout the United States.
7	So the workhorse is well distributed
8	throughout the United States as well.
9	I want to share with you that certainly my
10	interest and that of the other scientists here
11	probably didn't emerge just yesterday. Many of us
12	have been traipsing down this road for a long period
13	of time.
14	And my current work is funded through an
15	EXPORT center, and then to the EXPORT center that
16	specializes in rural health and health disparities.
17	And that will come to a conclusion at the
18	end of August, and I'm looking at publications
19	associated with that right now.

file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 20 The highlighted parts are those presentations that have in -- specific to 21 22 surveillance in the industry. So this is also 174 1 something that didn't just pop up yesterday. 2 You will see that -- politically, I try to approach this as building enthusiasm for accident 3 4 and injury surveillance in horseracing, and then 5 illuminate it to our regulators because they seem to have the most authority to implement this kind of thing at this point in time, through the RCI. 7 8 You will notice that oral health is also included. A lot of my work, my team and physicians, 9 dental physician, dental epidemiologists, an 10 11 occupational science nurse, myself and a whole plethora of other people who have been involved to 12

17 human interests there.

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16

date.

I participated in a welfare summit for the

racehorse, not primarily because I'm concerned about

horses, but primarily because I wanted to represent

- And I was invited to a committee that was
- 19 establishing, or that was developing the on-track
- 20 injury reporting system for horses, and my
- 21 contribution there was the human side of things.
- And I will show you -- it was primarily 175
- 1 Dr. Scollay who authored the system, and I'll be
- 2 speaking directly to that in a minute.
- This year at the RCI, we tried to talk
- 4 about the impact of what the data can do to inform
- 5 policy decisions in the industry.
- 6 Translation is not only understanding the
- 7 language, but we in science know that it's
- 8 translating to action and to practice the findings
- 9 of research.
- The advisory board that has been involved
- in this to date -- and this is growing with the
- 12 effort as well. Dan Fick from The Jockey Club.
- 13 Peggy Goetsch, who has been a health care
- 14 administrator in Illinois for 25 years on a
- 15 racetracks.

16 Wayne MacIlwraith, who is an orthopedic epidemiologist, veterinarian epidemiologist. 17 18 Mick Peterson, who is an engineer for 19 racing services, and I'm sure you have read some of 20 his work. 21 Dr. Chip Petrea, who is an agriculture 22 safety expert, and I believe NIOSH was one of the 176 1 founders of his very seminal study about the policies, procedures, and recommendations for 2 3 agriculture, which also is a very widely variant sort of an industry. 4 5 And Dr. Mary Scollay, who is the regulatory vet that generated the on-track injury 6 reporting system. 7 8 Specific objectives of this project, the first one is micro compared to the others, but we 9 10 have a rare opportunity here to look at the impact 11 of synthetic track services before and after. 12 There are only a handful of tracks who

have synthetic surfaces at this point in time. So

- 14 it would be really important to look at recent
- 15 history and what's happening right now.
- 16 I know that in Illinois, Arlington
- 17 racetrack has written a letter of support, and they
- 18 are willing to let me look at that data. So we will
- 19 probably go in and do that throughout some portion
- 20 of this meet.
- To field test and refine the utility of an
- 22 on-track system. Every system has its quirks and 177
- 1 flaws. And in order -- before you implement
- 2 something on any large scale, of course, you have to
- 3 test it and get a lot of input.
- 4 To explore relationships -- and this one
- 5 is huge -- among these attributes, these different
- 6 parameters and their relative contribution to
- 7 incidents and human injuries. And ultimately, that
- 8 would lead to some sort of a regression model that
- 9 could apply and help us to predict and prevent
- 10 injuries.
- 11 Certainly, it would appear that the

- 12 information that we would get from such a system
- would be more valuable than the systems that we
- 14 already employ, but we don't have any evidence of
- 15 that at this time.
- And finally most importantly would be to
- 17 use the results of scientific data to inform
- 18 decision making and risk management in order to
- 19 improve health and safety of human participants in
- 20 horse racing.
- I concentrate on humans because it gives a
- 22 variety of expertise.

- 1 So here is some of the proposed
- 2 strategies, and you can see by this big laundry
- 3 list -- I won't bore everybody to death -- but there
- 4 is a kind of a process, and it really takes a long
- 5 period of time, a lot of people and money in order
- 6 to develop a very sound surveillance system that can
- 7 be applied across the industry and that has utility
- 8 and longevity because we certainly don't want to do
- 9 this -- don't want to create this system every year.

10	The development of this particular tool
11	has been informed by the current literature. And
12	the literature tells us that we need to collect data
13	broadly and specifically as well.
14	So we need to collect, not only the nature
15	of the injury or the illness, but the part of the
16	body affected, the source of the injury, illness,
17	the exposures or the event that resulted in injury
18	or illness. And then the secondary source of injury
19	or illness.
20	It is not at all uncommon for a jockey who
21	may have one of these chronic conditions or may be
22	malnourished to fall off their horse and then to be 179
1	trampled by three horses behind him. So those are
2	those secondary kinds of injuries.
3	Injury surveillance also tells us that we
4	should identify in the data what is the absolutely
5	minimum data that you have to have to make sense of
56	accidents and injuries, and you should reach beyond

8	If you have the opportunity, there should
9	be optional data and even supplementary data, and
10	that is the qualitative data that results from
11	interviewing people and following up and doing those
12	sorts of things.
13	I'm going to show you the on-track injury
14	surveillance system that Dr. Scollay developed
15	because the human system was designed, that form was
16	designed to link with this and to make use of that
17	data as well.
18	And I wanted to contrast and show you a
19	little something here. These are tracks that I have
20	to date that Dr. Scollay has got commitments from to
21	pilot the equine system.
22	And there's some advantages there because 180
1	there are regulatory vets in place. It can be
2	easily trained to collect this data without doing
3	something that is terribly different from their
4	daily routine.
5	There's some costs associated with all

- 6 this, certainly the analysis of the data and data
- 7 input and so on, but, you know, the data collectors
- 8 are already available.
- 9 Dr. Scollay will probably also get some
- 10 assistance from the Jockey Club because these are --
- 11 this is clearly a very important source of data that
- was identified in the welfare summit and it's
- 13 appropriate for their funding streams.
- Now, there's also some concern in the
- 15 industry about -- and we will talk about some of the
- 16 concerns later, but you see this last point, the
- 17 unique identifiers. This applies to horses as well.
- In a surveillance system, it would be
- 19 necessary to protect the identity of those horses
- and only aggregate data would be available in any
- 21 known public format.
- And you can see the form. This form has 181
- 1 been streamlined. The data goes beyond what is
- 2 usually examined by regulatory vets, but much of it
- 3 is part of the routine that's already been

- 4 established on those tracks. It's just matter of
- 5 capturing that data.
- 6 And then I would imagine that there are
- 7 many different parameters on this that most of the
- 8 human scientists would be even aware of because,
- 9 again, this is a very different culture with very
- 10 different concerns.
- One of the places to start with is
- 12 identifying what an injury is or at least what time
- 13 frame it occurs, and we have, both in horses and the
- 14 humans, identified the injury, the whole time
- 15 period, the immediate time period surrounding racing
- and racing as the appropriate time frame to look at
- 17 injuries.
- One of the issues with human injuries at
- 19 this point in time is that many of the minor
- 20 injuries go unreported. Unless the paramedic is
- 21 required, we don't even know about it. So it looks
- 22 like there's a disproportionate number of 182
- 1 catastrophic or very serious injuries when that

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 2 probably isn't the case at all. 3 Some issues in the process for completing human forms would be potentially the paramedics, but 4 5 we'll talk about that in a moment -- could be engaged to attempt the entries during racing and be 6 trained to complete the form during some sort of 7 pilot period. 8 9 The second point is a bit of sticky wicket 10 11 12
 - because forms will be completed for both minor and major injuries, and there are always minor injuries during racing or riding. Having suffered many of 13 them myself, there are always minor injuries. A neutral third party would be necessary 14
 - 15 to deidentify the data and link the two systems to 16 deidentify the data, and then it would be analyzed, 17 and aggregate data reported.
 - 18 Here is one part of the human form, and 19 you will see many different parameters here.
 - 20 Including safety equipment, observable things because we know what -- we would be dealing 21
 - with necessary physicians or nurse-practitioners who 22 183

- 1 are examining these people. So some indication of
- 2 neurological status and respiratory status are
- 3 included in this. Some visual indicators, where the
- 4 people are injured, whether or not there were
- 5 visible fractures and visible lacerations, and so
- 6 on.
- 7 There's a pain scale and dispensation.
- 8 Most people who have -- if you can, sort
- 9 of the horseman's rule. If you can put yourself
- 10 together with duct tape, you get back on. That is
- 11 just, again, part of the culture. And there is a
- 12 tremendous incentive for people to ride through an
- 13 injury.
- 14 And there's some follow-up data that would
- 15 be helpful here.
- Now, here's some challenges and issues
- 17 remaining to be addressed.
- Even in my current inquiries about this,
- 19 there is disagreement about what level of IRP
- 20 approval that would be required for this kind of a
- 21 system and some HIPPA regulations.

Some people feel that collecting this kind 184

- 1 of data from humans, are considered vulnerable
- 2 humans, and so it requires informed consent. If it
- 3 requires informed consent, that's sort of another
- 4 barrier, I think, to collecting the broad data.
- 5 Another opinion that I collected said that
- 6 if we could request a waiver of informed or written
- 7 consent, and then we would have to have that
- 8 certainly the deidentifying and cleansing of the
- 9 data piece before the data was ever forwarded to the
- 10 principal investigators or the researchers that were
- 11 managing this data. And then it could be used in an
- 12 expedited review of nonhuman data.
- So NIOSH could be very helpful to us in
- 14 advising how we handle those sorts of surveillance
- 15 systems like this.
- Let's see. Ethical and legal issues
- 17 pertain both to the human HIPPA sort of thing and
- 18 the horseman's reluctance to share information.
- 19 The whole industry is based on

- 20 competition, and it's based on sort of keeping your
- 21 cards close about your horses and who is healthy,
- 22 who is likely to win, and so on.

- 1 When this data becomes too accessible to
- 2 other horsemen, we create issues that -- issues in
- 3 the selling, trading, buying, and running of horses.
- 4 And there is some concern about
- 5 discoverability and who is going to be held
- 6 accountable for having collected that information
- 7 and shared.
- 8 So some of those ethical and legal issues
- 9 need to be worked out in managing the data system
- 10 that may not be as prominent in some other
- 11 environments.
- Who should be the data collectors? You
- 13 have already heard that there are different levels
- 14 of care available to even the racing population, the
- 15 jockeys on track, some of them being paramedics with
- 16 no advanced life support, others being physicians.
- 17 There is also different levels of

- 18 investments in those people in collecting the data
- 19 and making sure that the data is accurate.
- In many cases, as is the case in Illinois,
- 21 companies are contracted to provide paramedics. So
- you have different paramedics virtually every day.
- 1 So it would make more sense to train a constant
- 2 cohort of data collectors, and that also entails
- 3 cost.
- 4 Assuring confidentiality of that data
- 5 would be better managed by a constant cohort of data
- 6 collectors as well.
- And then we would have to decide what
- 8 information, education, training should be provided
- 9 to those data collectors.
- 10 And what are the perceived -- we have to
- deal with very transparently what the perceived or
- 12 real harms would be to participants in the racing
- 13 industry.
- 14 If owners believe that having this
- 15 information would be harmful to their businesses, we

- 16 have to deal with that, and we have to deal with and
- 17 discuss that initially.
- 18 If jockeys believe that having this
- 19 available will affect their careers and people will
- 20 select them as riders on their horses, we need to
- 21 deal with that.
- I also believe that there are -- there is 187
- 1 such a small number of human scientists who are
- 2 interested in this venue that we would be far better
- 3 off collaborating rather than competing for what is
- 4 already a shrinking pot of scientific money.
- 5 And that we need some sort of mechanism
- 6 for communicating and identifying who we are, what
- 7 our interests are, and sharing the research
- 8 announcements, and -- I think last year, I have met
- 9 virtually I think all of the scientists who were
- 10 involved in the Grayson industry.
- Getting buy-in from the horsemen and
- 12 racetracks is no small task either. It's easy to
- 13 talk to the willing and the brave and the folks at

- 14 the welfare sign were all very enthused.
- However, we have everybody from the small
- 16 trainers in the industry to trainers of, you know,
- 17 multiple stables at multiple tracks.
- And just changing the thinking -- again,
- 19 the anthropologist part of me says the cultural
- 20 shift from competition to collaboration is really
- 21 very different in the racing industry.
- So selling this widely, collected, share 188
- 1 this information, again, we would have to proceed
- 2 very cautiously.
- 3 Valuing what collaboration can render
- 4 would be very important. And communicating the
- 5 message -- and I heard this here in a couple of
- 6 presentations, but I don't think it is well
- 7 understood, nor is it demonstrated economically nor
- 8 do we have the data to actually substantiate this
- 9 now, but from other industries, we know that a
- 10 healthy work force contributes to a robust industry.
- And so the investment on the one side

- 12 really should pay off on the other side.
- Oh, details, details, details.
- You know, these things are all under
- 15 development. Right now, that's what this is, this
- 16 design, so far is an idea. What's necessary, you
- 17 know, is being nimble, responding to the needs of
- 18 the industry, establishing that this project would
- 19 really be best as a two-year pilot.
- A two-year pilot would cost money. And by
- 21 my worksheets and estimations of the costs of both
- people, power, and data development and data 189
- 1 analysis, it would be about a half a million dollar
- 2 project over two years.
- 3 And funding sources, we need direction in
- 4 terms of the funding sources and the potential for a
- 5 RO1 structure as well. Certainly there are enough
- 6 ideas in progress in this room that we could
- 7 assemble something or another. So any facilitation
- 8 that NIOSH could provide in that area would be
- 9 greatly appreciated.

10 And that's concludes my remarks. Questions? 11 MR. COLTON: On the legal issues, first of 12 13 all, I want to commend you for taking this project 14 on. It would be monumental to get it off the ground, especially to get all of our dysfunctional 15 family together. 16 Talking about right perspectives on 17 dealing with confidentiality of the horse. I just 18 19 don't see where that exists. I get on the horse. I certainly should 20 have the right to know what medical procedures, what 21 22 drugs, everything in this horse. To me, the 190 1 confidentiality should be out the door. 2 And I know I am probably annoying a lot of 3 horsemen saying that. 4 And, you know, just to give you an example, the utility of this database, we have a 5 6 starters list. We have a stewards list from the

horses. They keep it on a clipboard.

- 8 The minute that that horse is taken off,
- 9 there is no record of it. The horse is claimed. We
- 10 have a migrant business.
- I'm on the horse a year or two later.
- 12 This horse had a habit. Horses are creatures of
- 13 habit. All of a sudden, I'm close to the gate, he
- 14 bolts.
- 15 You know, so having that information
- 16 available should be, you know, absolute your ability
- 17 to have it.
- I know that probably bogged it down
- 19 somewhat, but I know that we are probably looking
- 20 for is what they do in England. In England, they
- 21 have a database on all horses, that if they get a
- soft tissue, bone injury, that that is on record.
- 1 And before that they can come back and race them,
- 2 they have to be cleared.
- 3 MS. OPACICH: The problem, some of the
- 4 problem as I understand it, both with humans and
- 5 with horses, is how much is enough in deciding who

- 6 should access to that particular data set.
- 7 And I think that we -- well, there are
- 8 mechanisms for controlling all of that, but we need
- 9 to discuss them, and we certainly need to look at
- 10 them on both sides of the fence.
- Now, Dr. Seftel mentioned something that
- 12 has also been another -- everybody in the horse
- 13 racing work force across the board could benefit
- 14 from electronic medical records.
- 15 You know, a good proportion of the
- 16 population, they do move from racetrack to racetrack
- 17 from the top to the bottom.
- 18 And that is a problem always because, not
- 19 only for the horses, but with the people. You're
- 20 starting at ground zero every single time.
- 21 So there are certainly some systems
- being -- Indian (phonetic) Health Service actually 192
- 1 has one of the best electronic records that has been
- 2 developed to date. So I don't think we need to
- 3 reinvent the wheel on that. The software and the

- 4 opportunity to develop this does exist.
- 5 There was some talk about microchipping
- 6 horses, and you might want to talk to others who
- 7 were at RCI and who were at the welfare summit that
- 8 had that particular issue and what kind of data they
- 9 would start with for chipping.
- Because, again, this would be a huge
- 11 cultural shift for this industry.
- MR. COLTON: On a slightly different note,
- 13 we are going to start implementing here in Delaware
- 14 soon, we borrowed it from the National Steeplechase
- 15 Association, we are going to require all riders to
- 16 carry a medical ID card, with a picture that has all
- 17 the medical emergency contact information on there,
- 18 in addition to the insurance card.
- MS. OPACICH: Go ahead.
- MR. HORNUNG: Karin, just a comment on
- 21 vocabulary.
- One of the terms we use quite frequently

 193
- 1 in discussions of physicians is the term accident.

- 2 MS. OPACICH: Yes.
- 3 MR. HORNUNG: The problem with that is the
- 4 term "accident" implies that it is a random event,
- 5 that it's unexplainable or unpredictable.
- 6 The point of the matter is, it is not
- 7 random. It's not unexplainable. It is indeed
- 8 predictable, and, therefore, you know, we really
- 9 need to change that kind of vocabulary.
- MS. OPACICH: I would agree except where
- 11 it pertains to the horses.
- 12 And I have used all three of those terms.
- 13 And the title of the presentation was incident and
- 14 injury reporting because I firmly believe that in
- 15 the sphere of which humans control, I would agree
- 16 with you.
- I also ride horses, and I know that there
- 18 is a degree of unpredictability with the horses,
- 19 whether or not -- there is certainly human
- 20 attributes that would help us to reduce -- look at
- 21 attributes and responses and infrastructure that
- would help us to reduce those accidents, but I don't

- 1 think that there will ever be a way to absolutely
- 2 predict and control the horse end of it.
- 3 It's the interaction piece.
- 4 UNIDENTIFIED SPEAKER: You talk about
- 5 collecting injury data for equine and humans, but
- 6 what about other conditions, track conditions --
- 7 MS. OPACICH: Absolutely. There is -- on
- 8 the equine input, injury input form, there are --
- 9 there are slots that indicate that, the track
- 10 conditions, the track surface.
- And actually for Equibase, for the Jockey
- 12 Club systems, you need -- the intent is to extract
- 13 that information and download it into the equine
- 14 injury report.
- 15 UNIDENTIFIED SPEAKER: What about -- other
- 16 than the horse's health, their racing history.
- 17 MS. OPACICH: Absolutely, same thing.
- 18 UNIDENTIFIED SPEAKER: -- as well as the
- 19 jockey's racing history.
- MS. OPACICH: Well, that would be

- 21 interesting.
- UNIDENTIFIED SPEAKER: And experienced 195
- 1 versus inexperienced jockeys.
- 2 MS. OPACICH: Yes. As opposed to
- 3 apprentices and whatever, absolutely.
- 4 Because I'm sure there will be
- 5 relationships. How strong the relationships and
- 6 associations are, we don't really know, but I'm sure
- 7 of us have many hypotheses.
- 8 Thank you.
- 9 MS. HENDRICKS: Our final speaker for
- 10 today is Andrew Staniusz from the Magna
- 11 Entertainment Board. He will be presenting on
- 12 insurance data and injury prevention.
- 13 INSURANCE DATA AND INJURY PREVENTION
- MR. STANIUSZ: Well, there is nothing like
- 15 being the last speaker in a day-long event, so I
- 16 will try to keep my comments brief and try not to
- 17 pull out the next break by too much.
- 18 My name is Andrew Staniusz. I'm a legal

- 19 counsel with Magna Entertainment Corporation. As
- 20 many of you are aware, Magna Entertainment owns and
- 21 operates ten thoroughbred tracks in the United
- 22 States.

- 1 As part of my responsibilities, I oversee
- 2 health and safety for both -- from an employee
- 3 perspective and also from a sports participant
- 4 perspective.
- 5 Four of our tracks are in workers'
- 6 compensation states, California and Maryland. And
- 7 six are nonworkers' compensation states, and they
- 8 run the gamut from former Breeders' Cup venues such
- 9 as Gulf Stream Park and Lone Star Park to tracks in
- 10 smaller markets, such as Great Lakes Downs in
- 11 Muskegon, Michigan, and Portland Meadows in
- 12 Portland, Oregon.
- What I'm here to talk to you about is,
- 14 once again, a work in progress.
- With the six nonworkers' comp states, they
- 16 are all covered on the on-track accident insurance

- 17 with AIG. And back during the Congressional
- 18 testimony, hearings, I should say, our then chief
- 19 operating officer, Don Amos, in his testimony before
- 20 Congress, outlined MEC's intention to conduct safety
- 21 audits at the six tracks that are under the AIG
- 22 policy.

- 1 So to give you an update of where that's
- 2 at, we did -- Magna did retain AIG Consulting. And,
- 3 in fact, Tony, who spoke earlier today, was retained
- 4 to conduct these audits.
- 5 All six of these tracks have now been
- 6 visited with the last audit being performed in
- 7 April. So a report is due later this month or
- 8 sometime next month.
- 9 So we will get those results shortly.
- One preliminary indication that we were
- 11 given was that each one of our tracks, whether it's
- 12 the smallest or the largest of the sample group,
- 13 each one had at least one best practice that can now
- 14 be conveyed to the rest of the Magna family.

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 15 So once the report is received, we are going to disseminate the best practices throughout 16 the whole group. So we are going to use a 17 18 methodology pretty much in the way Tony described his projects in California. 19 20 So with that, with that knowledge base, we 21 will be able to communicate and then extend that out 22 throughout the industry. So that's basically a starting point. 1 2 So the key point that I want to make regarding this -- the whole issue here of loss 3 control and risk management is that there is a 4
 - process that is underway, and it's going on right 5
 - 6 now.
 - 7 And with AIG having the California policy
 - and the majority of the tracks in the United States 8
 - 9 in the nonworkers' compensation states, they are
 - developing a critical mass of information regarding 10
 - 11 incidents and injuries, both frequency and severity.
 - 12 And, you know, with that data being

- 13 gathered, you can start analyzing, and you can start
- 14 improving things based on empirical evidence rather
- 15 than what we have been historically left with is
- 16 anecdotal evidence, or incomplete evidence.
- 17 And this is not an endorsement of AIG,
- 18 although they have done a great job of helping this
- 19 industry in a couple of the California crises in the
- 20 issue of on-track insurance, but any other insurers
- 21 that will come onto the market will have the ability
- 22 to gather that information as well from their group.
- 1 And the reality is that insurance is going
- 2 to be a key driver to this whole process.
- We may be considered to be proactive
- 4 because we went up and commissioned the audits and
- 5 started the process.
- 6 But even the most reactive operator is
- 7 going to be forced by the dictates of the market to
- 8 implement certain, you know, implement remedial
- 9 efforts, improvements, and what have you, to be able
- 10 to get affordable insurance.

- file:////Isx-morg1/wwwroot/dsr/HorseJockey/sourcefiles/0522072aoth01.txt 11 And I think, you know, one of the 12 things -- it's without debate that one of the key drivers of changing behavior, both individual 13 14 behavior, institutional behavior, business behavior 15 are the dictates of insurance. 16 So that process is there, and we think that, you know, I think you got a good glimpse of 17 18 the comprehensive methodology that AIG Consulting takes to this. 19 20 So we are quite confident that in -- you 21 know, over the next little while, there's going to be a, you know -- there will be changes being made 22 200 based on two things. 1 2 One is, you know, empirical data, which
 - 3 can then be correlated with our, you know, with the
 - accidents, accident reports that we can prioritize, 4
 - 5 which needs to be -- you know, what would create the
 - most amount of safety, what then -- and then you 6
 - take your priorities that you can do everything else 7
 - 8 in life, you know, the top priorities, subordinate

- 9 priorities, and then, you know, whatever is left
- 10 over.
- So, as they say, there's an approach that
- 12 is underway, and the -- and basically the approach
- 13 that the market is being guided by are the dictates
- 14 of the marketplace.
- Now, in my remaining time, I want to spend
- 16 just a few minutes addressing the issue of -- the
- 17 whole issue of lead exposure.
- The first time we were -- MEC was made
- 19 aware of the lead issue was in November of 2005.
- 20 And the context in which this happened was I
- 21 attended the offices of the Jockey's Guild for the
- 22 purpose of discussing implementation of on-track 201
- 1 insurance, but at that time, we had a proposal and
- 2 basically a cautionary proposal.
- 3 And Dr. Gertmenian -- and this was just a
- 4 couple of -- just after the first set of
- 5 Congressional hearings, where Dr. Gertmenian
- 6 testified and before the second set, where the other

- 7 stakeholders testified. 8 And Dr. Gertmenian interposed himself into my meeting because I was meeting with other people. 9 And, as some of you are aware, Dr. Gertmenian has a 10 good ability to change the agenda of any meeting. 11 What the meeting turned into was him 12 13 seeking an endorsement from Magna Entertainment that 14 we have, as an organization, been able to work with him on a businesslike relationship. 15 16 But the criticism with Dr. Gertmenian was that he didn't get along with anybody. So he is 17 trying to prove -- you know, have the board members 18 call me, and I would say that, no, we have always 19 had a good businesslike relationship, which by and 20 21 large are true, but -- they weren't productive, but 22 they were at least cordial. 202 1 He then in that context said to me, By the
 - 4 He then gave me three lead sample results

way, I want to give you some information as a

2

3

heads-up.

- 5 from our -- three of our tracks. And those of you
- 6 who know Dr. Gertmenian know his proclivity for
- 7 hyperbole, and he said basically that we had a huge
- 8 issue. I'm just, you know, giving you a heads-up on
- 9 it.
- Now, a more cynical man would say this is
- an attempt to extort an endorsement by keeping this
- 12 information quiet. Not being cynical, you know, he
- said he was my friend, so why I would think that?
- 14 Anyway, in our programs, I wasn't too
- 15 concerned because we conducted health and safety
- 16 audits and inspections as part of our program.
- 17 Magna Entertainment came as a subsidiary from a
- 18 manufacturing company, so we had those types of
- 19 processes in place.
- So I thought, you know, I called the Magna
- 21 safety -- the director of safety and said, Do we
- have a problem with lead? He said, no, none has 203
- 1 come up in any audits.
- 2 I said, Well, double check. And I

- 3 explained the meeting.
- 4 I found out later, was informed that, you
- 5 know, we probably didn't inspect, you know, take a
- 6 close enough look in those jockeys room, you know,
- 7 that we would have liked.
- 8 So in light of that, we commissioned
- 9 samples at the three facilities that I was given
- 10 test results for, and -- with the instruction that
- 11 Magna needed to know the answer before we were going
- 12 to go up before Congress.
- So we got the three results back. One of
- 14 them, Remington Park, the sampling results that we
- 15 received from -- that I was handed to by
- 16 Dr. Gertmenian showed two samples, one 60 times
- 17 above the limit. Another sample, the second sample,
- 18 nine times above the limit.
- 19 The sample was conducted by Liberty
- 20 Mutual. They took eight samplings using an OSHA
- 21 standard approach on lead sampling.
- We have -- first of all, there was no 204

- 1 airborne exposure detected. So that was the primary
- 2 thing. In fact, our safety director, he told me, we
- 3 don't really have a major issue here. It is
- 4 manageable. And that was his biggest concern, was
- 5 the airborne.
- We had two -- one was six times above, one
- 7 was two times above.
- 8 Then Lone Star Park, the results given to
- 9 me by Dr. Gertmenian had one sample 75 times above,
- 10 another 20 times above. Once again, no airborne
- 11 exposure was detected.
- We had two -- one was a hot spot. It was
- 13 65 times higher, but that's the saddle cleaning
- 14 area, which makes sense. And one was slightly above
- 15 the standard. It was 0043 instead of the standard I
- 16 think it's 004. Once again, it was manageable.
- 17 The third one was Great Lakes Downs, two
- 18 samples, one 18 times above the standard, another
- 19 130 times above the standard.
- In fairness, Great Lakes Downs, at that
- 21 time, was no longer -- the racing season was over.
- But the point to be made from this is,

1	once you clean the place up, you don't have anything
2	left over.
3	So, you know, proper hygiene would take
4	care of that finding in Lone Star if you used proper
5	hygiene and procedures.
6	So we were told that whatever issues you
7	have with lead are manageable. And what we did in
8	June of 2006, we rolled out a rough procedure, which
9	I have copy here. If anyone is interested, I would
10	be happy to provide you with a copy.
11	And in a health and safety conference,
12	which we held by webcast, we basically said, Either
13	adopt the procedure, or you will replace the lead
14	weights.
15	Now, in fairness, we were thinking of
16	terms of plastic encapsulation. We didn't really
17	consider the leather. We will take that under
18	advisement whether that you know, whether that's

So, once again, our only point here, when

sufficient. Once again, we will deal with it there.

19

- 21 it comes to workplace hazards, they exist. The goal
- 22 is to eliminate. Where they are not eliminated, you 206
- 1 manage it. You manage it by prudent means within,
- 2 you know, government regulation, government
- 3 standard, which, you know -- and I realize that, you
- 4 know, in the long run, you know, replacing -- you
- 5 know, getting the lead out of our workplaces is a
- 6 logical goal, but there are steps that can be taken
- 7 that are quite acceptable under OSHA to manage that.
- 8 And so what we are going to do is we have
- 9 our audits and inspections. We run fairly
- 10 decentralized, so we will give you an option of how
- 11 to run your business, but we are going to take a
- 12 look at how you do it.
- 13 And so when our audits and inspections go
- 14 through there, that's one of the things we will look
- 15 at. And, no doubt, somebody, you know, will not
- 16 have done what we have asked them to do, and we will
- 17 force them into that.
- So as I say, that's how we have dealt with

- 19 the lead issue. I mean, we have got the lead
- 20 procedure. We are going to give them a choice of
- 21 how to do the lead procedures.
- You know, if put you up postings and 207
- 1 surveil people and do all of that stuff, that's
- 2 fine, but I think it is probably easier for you to
- 3 replace.
- 4 And the only other thing I think we need
- 5 to do is replace the cook at Thistledown, you know,
- 6 because -- now, the one point about that is, it
- 7 would be nice to know about that.
- 8 How long -- when did that happen? Who
- 9 talked about it? And did anyone ever, you know,
- 10 tell management that that's going on? Did any of
- 11 that -- because I can tell you that the person who
- was the general manager at Thistledown is now our
- 13 general manager at the Gulf Stream Park.
- I mean, common sense would have prevailed.
- So I think, like, all of these issues that
- 16 we have here in both areas that I have talked upon

- in my comments, there is a process where you can
- 18 manage through these issues with data. And
- 19 that's -- you know, that's how safety is done in all
- 20 workplaces, where you need here, because we are
- 21 dealing with athletic activity, but still the means
- 22 are there and they are underway already in 208
- 1 addressing many of these issues.
- 2 So with that, I'm not too late for your
- 3 break.
- 4 Any questions?
- 5 MR. BAHNO: Do I have your permission to
- 6 share one best practice that I think the group would
- 7 benefit from hearing?
- 8 MR. STANIUSZ: Sure.
- 9 MR. BAHNO: We talked a lot today about
- 10 medical treatment aspects. And one of the things
- 11 that I was asked to take a look at was actually who
- 12 responds to an on-track injury accident, incident,
- 13 whatever you want to call it, and how do they do
- 14 that.

- 15 And interestingly enough, one track, 16 Thistledown, which is out in Ohio, actually does 17 something which is going to be one of my major 18 recommendations, not only to the Magna tracks, but 19 perhaps every track that I come across. 20 And what they are required to do by the 21 state of Ohio, and mandated from a regulatory 22 standpoint, is they need to have annual accident 209
- 1 simulation exercise.
- 2 What I mean by that is they basically get
- the ambulance crew out there, they have got the 3
- jockey out there. They get the horse out that. 4
- 5 They put the jockey down in the mud, whatever the
- conditions are. They get the outriders. 6
- 7 Each and every person who is in fact
- 8 responsible for responding to that incident gets
- 9 trained all at the same time. But most importantly,
- they videotape it. 10
- 11 Now, they have to send it into I think the
- State of Ohio Racing Commission. But that is a 12

- 13 practice that time and time again other tracks can
- 14 certainly benefit from. Because it's videotaped, it
- 15 can be used as a training tool for those basic EMT
- 16 responders, perhaps, and also, you know, some of the
- 17 paramedics.
- Because sometimes there is, you know,
- 19 somebody who only has one or two years of
- 20 experience, and sometimes those guys on the
- 21 ambulance crews maybe have never worked around a
- 22 horse before, too.

- 1 That was one key thing that I think just,
- 2 by going to six individual locations, was really
- 3 beneficial. The light went on, You know, everybody
- 4 should be doing this.
- 5 MR. SEFTEL: Tony, I think that is an
- 6 important point, but we also need to step away from
- 7 tokenism. Working the emergency medicine one demo a
- 8 year is not going to cut it.
- 9 And the other big problem is all of these
- 10 ambulance crews that are independent contractors.

- 11 They are kids coming from college. They have a
- 12 volume of people rotating. If you have one demo a
- 13 year, there is no way you can train a crew.
- 14 You cannot have a racetrack relying on a
- 15 temporary rotating work force. You have to have
- 16 permanent staff that are trained and experienced
- 17 exactly the way Tony mentioned to be able to handle
- 18 it. Having a demo a year, absolutely useless for
- 19 emergency medicine.
- I work in the ER all the time. You have
- 21 to draw once a month, once every two weeks. Once a
- year doesn't cut it.

- 1 Just a comment on Andrew's point about the
- 2 lead. Maybe you're not privy to all of the
- 3 machinations of the past. In coordination with the
- 4 Jockey's Guild, Dr. Gertmenian, an economics
- 5 professor, essentially ransacked the Guild.
- 6 I had nothing to do with him particularly,
- 7 but the reality is that the lead issue is completely
- 8 above and beyond the politics of the situation.

9 That comes from your racetrack, Andrew. 10 There were no signs up there, no procedures in place. 11 12 Obviously we have work to do. Let's work together and fix it. 13 14 That's what I would like to recommend. 15 MR. STANIUSZ: I have no problem with 16 that. I was just saying there is a mechanism to 17 deal with it and to manage it. And by auditing and 18 inspecting, we will deal with efficiencies that way. 19 Any other questions? 20 21 Thank you. MS. HENDRICKS: We are going to go ahead 22 212 and take a short ten-minute break. 1 2 (A recess was taken.) 3 PUBLIC COMMENT MS. HENDRICKS: If everybody would take a 4 seat, we are going to get started again. 5 6 We are going to have a brief time to open

7	it up for comments right now before we move onto
8	discussion.
9	Once again, I would like to remind
10	everyone that we do have transcription services, so
11	if you would please speak loudly enough that he can
12	hear you, and if you can please identify yourself
13	before speaking.
14	Does anybody else wish to make a comment
15	for the record?
16	Would you like to come up?
17	MR. COLTON: No. Just from here is fine.
18	First of all, I want to thank you and
19	NIOSH for holding this conference, looking after the
20	health and welfare of not just jockeys, but all the
21	other trackside workers.
22	In addition, on the transcript, will most 213
	213
1	of the reports and the presentations, the overhead
2	presentations be there?

After the docket closes, they will all be submitted

3

4

MS. HENDRICKS: They will be available.

- 5 to the docket, and they will be posted on the web
- 6 after the docket is closed.
- 7 Anyone else have anything they would like
- 8 to say?
- 9 GENERAL DISCUSSION
- MS. HENDRICKS: Okay. We can go ahead and
- 11 move on to just general discussion. If anybody has
- 12 a topic that wasn't covered earlier that they would
- 13 like to bring up or any just general discussion
- 14 about some of the general presentations that we
- 15 heard earlier.
- Well, I have just a couple of questions I
- 17 would like to bring up, if anybody would like the
- 18 weigh in on some of these issues.
- One of the first things, I know that Ohio
- 20 recently increased the age for jockeys to be
- 21 licensed from 16 to 18. I believe that's the first
- 22 date to do that. And I just -- if anybody has an 214
- 1 opinion on that? Anybody have any ideas if it's a
- 2 good thing, a bad thing, something other states

- 3 should adopt? 4 MR. JOHNSTON: Jeff Johnston, Jockey's 5 Guild. 6 First of all, I would like to thank NIOSH 7 and all of the attendees here today. I think we all 8 have the same goals in common to increase the safety 9 of the industry. 10 I heard a lot today on research that's 11 being done on horses, and I have been aware of the 12 research. And hopefully, now, through NIOSH and 13 other organizations, we can help to improve the safety of jockeys. 14 15 A lot of these issues just haven't been brought to the attention of the industry before, and 16 jockeys themselves don't realize that they are 17 putting their health at risk. 18 19 They are so worried about their careers.
- 20 The racing industry is just a cutthroat industry.
- 21 And they have seen -- through history, they have
- 22 seen their fathers abuse their bodies in the same 215

- 1 way, but not under the same conditions.
- 2 So hopefully if we can bring it to their
- 3 attention, they will be at the forefront with the
- 4 racing industry trying to improve the conditions.
- 5 As far as the racing age, as a
- 6 representative of the Jockey's Guild, we don't have
- 7 a set proposal or recommendation at this point.
- 8 Personally, I think Ohio did the right
- 9 thing increasing the age to 18. Many jockeys are
- 10 still individuals still in high school at the age of
- 11 16. I think probably maybe 95, maybe a hundred
- 12 percent of them are in high school at age 16.
- I know of some that have taken accelerated
- 14 courses to graduate so they could go on to ride.
- 15 Those jockeys are few and far between.
- For the most part, I think you find more
- 17 jockeys that drop out of school in the 8th grade or
- 18 9th grade, especially a lot of the riders in
- 19 Louisiana where they have racing at push tracks or
- 20 different competitive events that lead those jockeys
- 21 away from school to ride.

The recent Kentucky Derby winning jockey 216

- 1 is one example.
- 2 It makes it again, like Robert said, the
- 3 jockeys themselves are an obstacle in making some of
- 4 these changes, and part of the reason is that they
- 5 don't understand.
- 6 They left school. They didn't have the
- 7 financial background or educational background to
- 8 make the right decision and learn about the health
- 9 studies and the other -- actually, the other
- 10 opportunities that they could have if they weren't
- 11 jockeys.
- I would venture to guess that 50 percent
- 13 of your jockeys -- I'm just throwing a number out
- 14 there -- would stop riding if they had the
- 15 opportunity, but they don't know anything else.
- They were brought into the business. Most
- 17 of them grew up on the racetrack. Their fathers
- were jockeys or their mothers were jockeys or grooms
- 19 or trainers.

- And if they were small enough or wanted
- 21 to, they became riders and alleviated any other
- 22 opportunities that they would have had.

- 1 And I know of riders that for some reason,
- 2 whether it was an injury or weight restrictions or
- 3 something like that, that left the racetrack and
- 4 went and did something else, whether it be the
- 5 airport or painting or construction or something
- 6 like that.
- 7 And when they come back to the racetrack,
- 8 they are happy. The stress level was so intense in
- 9 the racing industry, so competitive, that when they
- 10 go out and they do other things and they find that
- 11 they can earn wages and they can have health
- 12 benefits and weekends off and holidays off, that
- 13 they don't return.
- 14 And that's one of the things that, as they
- 15 learn this, I hope we can realize as an industry
- 16 that we need to help these guys to stabilize their
- 17 lifestyles and their finances and their health.

18 Yes. 19 MS. OPACICH: I would suggest that many of the people who come to racing as jockeys are already 20 21 members of the health disparate populations. So 22 that they come -- health disparate populations are 218 people who are vulnerable by virtue of poverty or 1 2 education or race to a poor quality of health, so 3 when they already enter vulnerable -- they won't develop the health literacy and social and 4 5 behavioral sorts of background to be able to cope with some of these issues. 6 7 It may be a chicken-and-the-egg issue, but many of them are representative of their population. 8 MR. JOHNSTON: Exactly right. And it's 9 10 becoming ever worse and prevalent. Because as the 11 weight restrictions remain the same -- this is just 12 another issue that we have addressed today. As the weight restrictions remain the same 13 and the human population is bigger, the industry is 14 15 being forced to go outside its borders to obtain

- 16 riders who are small enough.
- 17 And they bring -- when they come, they
- 18 come from, what you just said.
- 19 MS. OPACICH: Disparate populations.
- MR. JOHNSTON: Disparate populations.
- 21 And they bring -- so their standard, their
- 22 level, their standard of living is not what we are 219
- 1 used to here in the United States.
- 2 So they are a group that, too, we need to
- 3 educate when they come over here.
- 4 I think it was brought up earlier, a
- 5 school that needs -- they should have to go through
- 6 some type of training or school or certification
- 7 process, even when they come from other countries or
- 8 have a certification from such a school in Peru,
- 9 where they have some formal training and some
- 10 education.
- So when they come over here, they are
- 12 ready to ride. Or when they get over here, maybe
- 13 they can pass an equivalency exam of the school that

- we have in the United States that teaches these kids
- 15 about health issues, diet, finances.
- 16 Yeah, Robert.
- MR. COLTON: Yeah, Jeff, I wholeheartedly
- 18 agree with you, and I really think that the issue
- 19 should be brought across the United States.
- There are theories (inaudible) physically
- 21 because an additional two years. And you know, you
- have experienced the life, and I don't think anybody 220
- 1 else here ever has.
- 2 It's unfortunate that many jockeys retract
- 3 into a 14- or 16-year-old mentality. And part of it
- 4 is a requirement of the job, to shun responsibility.
- 5 If you are responsible to the individual, you are
- 6 not going to your job because, you know, it's not a
- 7 matter of if. It's when you are going to be
- 8 injured.
- 9 It would give a lot more maturity level to
- 10 the riders.
- MR. JOHNSTON: One other issue I would

- 12 like to bring up is -- and I know we have gone over
- 13 this as well -- but the ambulance crews, to be
- 14 certified ambulance crews.
- 15 I know, for example, some of the tracks --
- 16 let me outline first what my position now is.
- 17 I rode for 20 years. I retired last
- 18 August to take a job as regional manager with the
- 19 Jockey's Guild. Currently I represent six states,
- 20 including Kentucky, Illinois, Ohio, Indiana, Iowa,
- 21 and Minnesota.
- And in visiting these racetracks, I find 221
- 1 it funny that I don't watch a single race.
- 2 I'm talking to these riders and finding
- 3 out the issues that they have in the room or around
- 4 the track or with the stewards or different things,
- 5 so basically either putting out fires or answering
- 6 questions.
- 7 And I don't watch the races. So as far as
- 8 an industry, you know, I'm not -- they're not
- 9 gaining anything from me.

10 But some of the problems that I have envisioned or seen when I go to these racetracks, 11 for instance, the ambulance, their response times 12 13 need to be improved. The people on the ambulances, 14 the crews, need to be certified. 15 I have got some crews -- and I think 16 Dr. Seftel brought up, that they are independent 17 contractors, or they are commissioned by, for 18 instance, one track. 19 It's like a local fire -- they have EMTs, but they are not able to perform some of the duties 20 that potentially need to be performed. 21 In New York last year, there was a rider 22 2.2.2. 1 who would have died had the paramedic not been able to give him a tracheotomy on the way to the 2 hospital. 3 4 Once some of the jockeys found that out, they went to their paramedic crew, their ambulance 5 crews and found that they weren't accredited. They 6 wouldn't be able to that. Had that kid been at that

- 8 racetrack, he would have died.
- 9 We had a -- there was a case in one
- 10 Dr. Seftel's practice, if Dr. Seftel wouldn't have
- been there to revive him in the infield, he would
- 12 have died.
- These are black eyes that this industry
- 14 doesn't need, and I feel are easily prevented if we
- 15 have those certified physicians, certified
- 16 technicians to take care of any potential injuries
- 17 that will happen, not could happen, will happen.
- Also, the doctor. I think this was --
- 19 somebody kind of alluded to this earlier, but --
- 20 this may be a beef that I have that maybe doesn't go
- 21 with this, but it's an industry beef I have.
- Jockeys, when they feel ill or want to 223
- 1 take off, they can go to -- they have to get a
- 2 physician to excuse them from their mounts, or they
- 3 will be fined. The fine is probably double what
- 4 their mount fee is.
- When they come back the next day, that

- 6 doctor cannot allow them, cannot inspect them and
- 7 say, Okay, you are approved to ride.
- 8 Those jockeys have to go to an independent
- 9 physician off the racetrack, sometimes on Saturday
- 10 or Sunday, or an emergency room, and spend the money
- 11 to get a physical to say that they are able to ride,
- 12 when maybe the day before, it was a stomach ache or
- 13 diarrhea or a cramp or whatever, female problems.
- 14 If they are not able to -- they can go to
- 15 the doctor, and he can excuse them from their mount.
- 16 But when they come back the next day, the stewards
- 17 won't accept his word that they are able to ride.
- MR. SEFTEL: I mean, essentially these
- 19 jockeys are being penalized for medical conditions
- 20 that are brought on by appointment.
- And understanding my situation is a very
- 22 rare one. There are probably only three or four 224
- 1 track physicians in this country. And the jockeys
- 2 at my track are able to get immediate turnaround
- 3 service and are not penalized for conditions --

- 4 medical conditions that are outside of their5 control.
- 6 Jeff raises an absolutely critical point.
- 7 For an industry that is so accident prone and so
- 8 many potential dangers, the least the jockeys
- 9 deserve is consistent board certified and accessible
- 10 medical treatment.
- 11 MR. JOHNSTON: Also, I think I brought up
- 12 the jockeys tend to come back too early off of
- 13 injuries.
- 14 I just recently -- this week in fact, a
- 15 jockey had a broken collarbone. He came back after
- 16 four weeks. He walks around with a limp. He is
- 17 taped up. He is sore. But he was forced to come
- 18 back because, just the disability payments, the
- 19 timeliness it takes for him -- he hadn't received
- any payments yet. There was a glitch in the system,
- 21 so it wasn't his mistake. It was a racetrack
- 22 mistake. Somebody didn't receive a fax.

1 The racetrack had done it properly. The

- 2 jockey was there when they did it, but somewhere in
- 3 the system, it got screwed up. So he was yet to
- 4 receive a disability payment.
- 5 He borrowed money to pay his rent. He
- 6 borrowed money to pay his car payment. He borrowed
- 7 money to buy groceries.
- 8 He was forced to go back to riding to earn
- 9 a living.
- And, again, that's probably not something
- 11 that NIOSH is able to look into, but it's an
- 12 industry problem and a problem that the jockeys
- 13 face.
- I don't know what the solution is to make
- 15 sure that these guys give themselves enough time to
- 16 heal.
- 17 And there's some injuries that have
- 18 been -- for instance, myself. I was fortunate, very
- 19 fortunate in my career to -- although I suffered
- 20 some severe spills, the worst injuries I sustained
- 21 were a broken pelvic bone, broken fingers, a bruised
- 22 tailbone, and a bruised liver.

- 1 But I was fortunate. I have run into
- 2 people that have broken virtually every bone in
- 3 their body. I was with Tony Donito (phonetic) after
- 4 a spill at Churchill where they had virtually glued
- 5 every one of his ribs back in place.
- The doctor came in and he said, Tony, the
- 7 good news is I put your ribs back. He said, but the
- 8 other news is I don't know if I got Rib 1 where Rib
- 9 3 is supposed to go, or Rib 6 where Rib 7 is
- 10 supposed to go, but you have a rib cage again.
- 11 MR. SEFTEL: This is another important
- 12 predication for universal workers' comp. And I mean
- 13 that would have gone a long way to meeting the
- 14 issues of child support or supporting the families
- 15 during these periods of required recuperation.
- MR. JOHNSTON: Is there anything -- I
- 17 don't mean to be up here on my soapbox, but if
- 18 there's any questions specific to jockeys that
- 19 anybody has, I would be glad to answer them.
- 20 Otherwise I will sit down and let somebody
- 21 else take over.

MS. HENDRICKS: Do we have any other -- 227

- 1 anyone else who would like to speak, any other
- 2 discussion?
- 3 MS. HENDERSHOT: Can you just explain what
- 4 the next steps are after this meeting, what NIOSH
- 5 will do with this information or with the
- 6 transcripts? What happens next?
- 7 MS. HENDRICKS: Well, we will wait -- I
- 8 should just go ahead and put this -- I know have I
- 9 asked most of you already that presented to make
- 10 sure that your presentations are submitted to the
- 11 docket.
- 12 Anyone else who would wish to provide
- 13 written comments, the docket will remain open a
- 14 month after the meeting. Once the docket is closed,
- 15 it will be posted on the web -- I believe I'm
- 16 telling you correctly here -- along with the
- 17 presentations.
- 18 After that, we plan on using this meeting
- 19 to help us formulate what our next steps will be.

20 UNIDENTIFIED SPEAKER: Can you assess the 21 range of those possible steps? 22 MS. HENDRICKS: Frank, do you want to do 228 that? 1 2 MR. HEARL: Sure. I think, for me, it is little bit 3 difficult to give you the full range of what the 4 possibilities are, but, you know, one thing that we 5 have talked about is the possibility of putting together a guidance or some kind of an alert type of 7 a document that could be used by the industry and so 8 forth to be eliciting best practices. 9 10 I think we really are interested in having 11 you submit information to the docket. Particularly 12 we heard a lot of presentations that there were 13 other identifiable best practices out there, and we 14 would hope that people could submit specific examples to us because that would be the basis for 15 us to be able to dig into that a little bit deeper. 16

There also was discussion of research

- 18 papers had been published in peer review journals
- 19 that folks alluded to, and we would be very
- 20 interested in following up and looking into those in
- 21 some greater detail as well.
- And to the extent that even a simple email 229
- 1 message with the reference IDs and so forth would be
- 2 helpful to us.
- 3 I mentioned in my hoping statement that we
- 4 did do a literature, exhaustive literature review.
- 5 And, you know, we have had to look in places that we
- 6 know by our own experience -- and as I also
- 7 mentioned, we don't have a whole lot of experience
- 8 with the horse racing industry.
- 9 So we are hoping that you could open our
- 10 eyes to perhaps some other resources that we are not
- 11 aware of so we can take a look at that.
- Beyond that, you know, I think it would be
- 13 premature for me to try to speculate on what we
- 14 might be able to do from there.
- 15 I know there's a grant application in the

- 16 process, and we do have open announcement that we
- 17 keep regularly available for -- as a program
- 18 announcement for people who have research ideas.
- 19 I think, you know, this particular docket,
- 20 if you go to the NIOSH website, I don't think the
- 21 web address is up there right now, but I will tell
- 22 it to you. It's www.cdc.gov/niosh.

- 1 That will bring you up to the NIOSH home
- 2 page. And if you go down on the right-hand side of
- 3 the page in the bottom corner, there's a listing of
- 4 dockets.
- 5 And if you pull up Docket No. 104 on that
- 6 list, you will find hopefully all of the
- 7 presentations here, plus everything that people
- 8 submit to the docket, plus the transcripts that we
- 9 have taken today, all of that will be there.
- 10 And that can also help serve as,
- 11 hopefully, as a resource to others from there.
- We also could, you know -- again, I don't
- want to speculate, but one of the things that we

- 14 like to do is to use the internet to our advantage.
- 15 And we have created various topic pages on
- 16 different subjects if we feel like we have enough
- 17 material that would merit that, then we might put
- 18 together a topic page that might draw together some
- 19 of these ideas.
- 20 So this is our range of immediate
- 21 possibilities.
- Yes.

- 1 MR. WALDROP: I think you said at the
- 2 beginning that this was probably by a letter from
- 3 Congressmen Whitfield and Stupak?
- 4 MR. HEARL: That's correct.
- 5 MR. WALDROP: Will what you do involve
- 6 some response to them?
- 7 MR. HEARL: Well, I think what we will do
- 8 is actually go back to them and offer them a
- 9 briefing on what we have learned from our
- 10 experiences with this meeting.
- 11 Again, it will be sometime after we finish

- 12 evaluating what goes into the docket after it closes
- on June 22, I think is the date that it closes.
- So, you know, that will be something that
- 15 we will offer them.
- MR. WALDROP: Any idea anybody how long
- 17 that might be after June 22? Five years? 30 days?
- MR. HEARL: I would say it will be weeks
- 19 to a couple of months, probably, to assess what
- 20 comes in.
- 21 Of course, if thousands of pages of stuff
- comes in, it would take me on the longer side of 232
- 1 that months. But I would think it would be not too
- 2 long after that we would be advising him, or at
- 3 least offering him the briefing.
- 4 Any other questions?
- 5 Before I return the microphone back to
- 6 Kitty, I want to say thanks to Kitty and to Dawn
- 7 Castillo, Elena Page, Virgil Casini, Nancy Stout,
- 8 and Terri Schnorr, the NIOSH folks who have been
- 9 involved in putting this meeting together.

10	And I'm sure there are other folks back in
11	Morgantown and also Cincinnati who assisted, and I
12	want to offer my thanks to all of them for pulling
13	that together.
14	I want to say a special thanks to all of
15	you who came today, especially our speakers who
16	provided us with a wealth of information and opened
17	our eyes to some new problems that we hadn't
18	anticipated in the industry that we may need to take
19	a further look at.
20	So thank you all. And I ask for a round
21	of applause from those who participated, for the
22	speakers, and for Kitty Hendricks and the NIOSH 233
1	staff for putting the meeting together.
2	Kitty, do you want to close the meeting
3	out?
4	CLOSING COMMENTS
5	MS. HENDRICKS: Sure.
6	I would just like to add my thanks to all
7	of you for attending. And again, much thanks to all

- 8 of our presenters. You have obviously given us a lot of think about today, and we will take that back 9 10 with us and hopefully make some progress in those 11 areas. 12 Once again, the docket, please remember to 13 submit everything you can to the docket and please 14 remember to reference Docket NIOSH 104 so it gets to 15 the right place. 16 If there aren't any other comments or 17 discussion, I think we are finished for today. Once 18 again, thanks for taking the time out of your busy schedules to help us. 19 20 UNIDENTIFIED SPEAKER: Can you email us a list of who attended the meeting today, just the 21 participant group? 22 234 1 MR. HEARL: We can do that.
 - 2 MS. HENDRICKS: As long as I have your 3 email address, I think we can probably take care of
 - 5 Anything else?

that.

6	MR. HEARL: It will be in the docket
7	anyways.
8	MS. HENDRICKS: It will be in the docket,
9	but I can email that to you.
10	Thank you all for attending.
11	(Whereupon, the proceedings in the
12	above-captioned matter were concluded at 3:27 p.m.)
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1	CERTIFICATE OF REPORTER
2	I, Joseph A. Inabnet, do hereby certify
3	that the transcript of the foregoing proceedings was

taken by me in Stenotype and thereafter reduced to typewriting under my supervision; that said 5 transcript is a true record of the proceedings; that 7 I am neither counsel for, related to, nor employed 8 by any of the parties to the action in which these proceedings were taken; and further, that I am not a 9 relative or employee of any attorney or counsel 10 employed by the parties thereto, nor financially or 11 12 otherwise interested in the outcome of the action. 13 14 15 Joseph A. Inabnet 16 Court Reporter 17 18 Original transcript provided by the commissioned court transcriber 19 was modified on 6/21/2007 to correct an obvious error on page 5, 20 line 5 of this document. The last name of the speaker was incorrect 21 and the first name was misspelled. Also spelling error was 22 corrected on page 157, line 1.