

1 CHAIR JAMES: At this point I would like to turn our
2 attention to our research experts from NORC, Dr. Gerstein, I
3 would personally like to thank you and your staff for the
4 tremendous amount of time and effort that you have put into this
5 project thus far.

6 As I read your overview I was quite interested in the
7 range of information and findings that you were able to produce.
8 Your report is, indeed, a testament to the scope of the
9 Commission's research agenda, and to the diligence of your staff.

10 I understand that your intention is to break your
11 presentation into two parts, one on the National Gambling Survey,
12 and the other on the Community Analysis.

13 With that in mind I would like to, again, welcome you
14 and ask you to proceed at your pleasure.

15 DR. GERSTEIN: Thank you very much, Commissioner James,
16 and Commissioners in general.

17 I'm present here today with Dr. Rachel Volberg, and we
18 would like to present, in roughly the order of material that were
19 in the overview. We have prepared a series of slides, overheads
20 I should say, that will sort of provide an abstract of the
21 material organized in a way that might make it easier to focus.

22 We weren't certain whether the overview itself was
23 going to be distributed on the table today, so we thought it
24 would be easier if we did this.

25 Dr. Volberg is going to take the first part of this
26 presentation, and we are prepared to begin, and I think I will
27 just turn this over to her, and why don't I take this set of
28 overheads over and start showing them.

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1 DR. VOLBERG: Thank you. Good morning. We will let
2 Dean figure out the high tech overhead machine. Do you want to
3 perform the introductions?

4 DR. GERSTEIN: Just by way of introduction, the group
5 that has been operating under contract for the Commission is
6 really a consortium of organizations which have worked a little
7 bit together, but have never worked together as this particular
8 team.

9 The National Opinion Research Center is the lead
10 member, the prime. And the three other organizations have
11 operated in a subcontract relationship with each other. This is
12 very much a group enterprise.

13 Gemini Research Corporation is led by Rachel Volberg,
14 Christiensen Cummings and Associates, your previous testifier,
15 Gene Christiensen is located in New York, and throughout New
16 England, as I've discovered, by sending packages to various staff
17 members.

18 The Lewin group is in Fairfax Virginia, and the three
19 organizations have been operating together since the initiation
20 of this contract.

21 And this is a fairly substantial sized group, and I
22 just want to reflect and acknowledge the other people who have
23 helped lead this operation over the course of time.

24 The four here that are testifying today, myself and
25 Rachel, Eugene Christiensen prior, and then in the session
26 tomorrow afternoon, Sally Murphy who has been the project
27 director, will also be present to discuss the operations of the
28 patron survey.

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1 And I would just like to acknowledge John Hoffman,
2 Marianne Toce, Amanda Palmer, Cindy Larison, Al Bard, Rick
3 Harwood, Adam Tucker, Will Cummings, Luchen Chruchro, and Tracy
4 Buie, who have been the people who have led various tasks of all
5 kinds.

6 This is a very complex enterprise because there are
7 many different kinds of data collection. And this group really
8 represents a much larger group which we will total up and
9 acknowledge in detail at the end of the project.

10 I would be most remiss to make it appear as though we
11 had individually done all this work by ourselves. And with that
12 I would like to turn to the substantive matter.

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1 DR. VOLBERG: Okay, thank you.

2 When Dean and I were talking about how to split up this
3 presentation we decided that I would be tasked with presenting
4 the comparison between the 1975 study, the first National Survey
5 of Gambling in the United States, and the survey that we just
6 completed for you.

7 I would also -- I will also be dealing with some of the
8 results of the RDD sample, or the RDD survey, and then finally
9 looking at some of the initial findings that we have from the
10 youth sample.

11 So let's get started and talk about the comparison, the
12 only comparison that we have at a national level, with research
13 that has been done on gambling in the United States.

14 You are all aware that in 1975 there was a survey that
15 was done, it was an in-person survey, that is the people were
16 interviewed face to face. In contrast, our study in 1998 was
17 done by telephone.

18 We have provided you with some information about the
19 sample size, and about the response rates. The unweighted
20 response rate for the 1975 survey was just a little bit lower
21 than the unweighted response rate for the 1998 survey, and we
22 have not yet calculated what the final weighted response rate
23 will be.

24 I suspect it probably will be somewhere in the same
25 range, as the response rate in 1975.

26 The -- one of the difficulties that we had in trying to
27 maintain some kind of continuity with the 1975 survey, which was
28 one of the tasks that you asked us to undertake, is that as you

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1 are aware, gambling has changed a great deal in the United States
2 in the last 23, 24 years.

3 And a lot of the material that was collected in 1975
4 simply was not relevant to what is happening today.

5 My particular expertise is in the area of measuring
6 gambling problems. And this is where things really fell apart.

7 In 1975 there was no agreed-upon definition of a
8 psychiatric disorder now called pathological gambling. And when
9 the Institute for Social Research at the University of Michigan
10 undertook their study, they simply had to come up with something
11 that seemed reasonable at the time.

12 The instrument that they developed, I won't go into a
13 lot of details, it consisted of 18 items, and the researchers
14 were perturbed when the results came back. They felt that there
15 were too many people who had scored in the higher ranges of their
16 screen.

17 So they had a clinician go back and toss out a large
18 number of those individuals who the clinician with expertise in
19 working with people who had gambling problems felt would not
20 qualify in a clinical diagnosis.

21 We were in a different situation in 1998. We were able
22 to develop an instrument to look at gambling problems that is
23 based on the most recent criteria for pathological gambling
24 published by the American Psychiatric Associations.

25 We were, additionally, able with the tremendous help
26 from the gambling treatment community, to conduct a clinical
27 validation of that screen. It was not something that was
28 included in the original proposal for this research, but it was
29 something that we felt was absolutely critical to get done in

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1 order to be able to be sure that we were measuring the
2 appropriate thing appropriately.

3 Continuing with our comparison, these are some of the
4 results. And as I indicated, there were a limited number of
5 comparisons that we could do between 1975 and 1998. We did note
6 that in terms of lifetime participation in all types of gambling,
7 there is a very substantial increase in the proportion of women
8 who have ever gambled.

9 There was also an increase in the proportion of men who
10 have ever gambled, but as you can see it is only about half the
11 size of the increase for women.

12 Somewhat to our surprise, I guess, or to my surprise,
13 because everyone is talking in the gambling research field about
14 the large number of youth that now gamble, and one of the
15 questions was whether more youth are gambling now than had in the
16 past, it doesn't appear that there has been a huge increase in
17 gambling participation by youth.

18 Now, this is overall across all types of gambling. I
19 think when we start getting into some of the finer grained
20 details of this research, we may find that there have been some
21 rather significant shifts in the types of gambling that different
22 groups are doing.

23 But overall it is interesting that, in fact, the
24 picture has not changed substantially in terms of participation.

25 You can also see that we've identified some increase in
26 the proportion of seniors, individuals aged 65 and older who are
27 gambling.

28 So, unfortunately, that is about all we had to do, or
29 all we could do in terms of comparisons with the 1975 study.

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1 Turning now to the 1998 results, specifically, I want
2 to talk a little bit about our methods. As I indicated in 1975
3 there was no widely recognized set of criteria for identifying
4 someone with a serious disorder which is now called pathological
5 gambling.

6 The DSM-IV criteria, and I've put them up here for you,
7 the American Psychiatric Association now defines pathological
8 gambling as persistent and maladaptive gambling behavior
9 indicated by five or more of these ten criteria that are up here,
10 with an exclusion, if the gambling is better accounted for by a
11 manic episode.

12 In developing the screen that we ultimately --

13 CHAIR JAMES: Excuse me just a minute.

14 COMMISSIONER LOESCHER: Madam Chair, you are losing me
15 on the previous one. Can you explain that a little bit better in
16 english, simple?

17 DR. VOLBERG: Pathological gambling is a psychiatric
18 diagnosis now. It was not in 1975. But in 1980 the American
19 Psychiatric Association included pathological gambling as an
20 impulse disorder not elsewhere classified.

21 That is pathological gambling became a recognized
22 psychiatric disorder. This is not to say that people with
23 gambling problems weren't out there prior to 1980, but the DSM is
24 a standard manual that not just the psychiatric profession, but
25 also all of the counseling professions uses both to diagnose
26 individuals as having various kinds of mental disorders, and is
27 also very significant in getting insurance reimbursement, because
28 the insurance industry reimburses on specific disorders.

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1 CHAIR JAMES: Dr. Volberg, I know that each of these is
2 very clearly defined in the document that you submitted to us.

3 DR. VOLBERG: Yes.

4 CHAIR JAMES: But I would ask that you just go through,
5 very quickly, each of those areas for the benefit of the
6 Commissioners and those that are here.

7 COMMISSIONER LEONE: Before you do that could you also
8 -- I don't understand --

9 CHAIR JAMES: Can I ask you to speak into the mike?

10 COMMISSIONER LEONE: I don't understand the phrase
11 "unless these are better accounted for by manic episodes". I'm
12 not sure how that relates to who gets defined in and who gets
13 defined out.

14 I mean, if it were a manic episode by a pathological
15 gambler would it not be a pathological gambling disorder?

16 DR. VOLBERG: Well, there are various categories within
17 the DSM, and usually an individual receives a primary diagnosis,
18 I believe it is an X-1 diagnosis. I'm not a treatment
19 professional, so I'm probably not speaking as clearly to this as
20 some of the other people actually here in the room could.

21 But the issue is that behavior that looks like
22 pathological gambling may, in fact, be exhibited by someone who
23 has a different disorder, manic depressive disorder, and that
24 that pathological gambling may, in fact, be part of their manic
25 depressive disorder, or manic disorder rather than being a sort
26 of stand-alone pathological gambling.

27 Is that more clear?

28 CHAIR JAMES: Yes, it is. Thank you, Dr. Volberg.

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1 DR. VOLBERG: Just very quickly, preoccupation refers
2 to an individual's sort of mental activity in terms of thinking
3 about past gambling experiences, planning their next gambling
4 experiences, thinking of ways to get money with which to gamble.

5 pathological gamblers spend a lot of time trying to
6 figure out, you know, the sort of financial angles that they can
7 use to get money to gamble, and that is what that criterion
8 refers to.

9 Tolerance and withdrawal are both criterion that were
10 added, actually, to the DSM-IV in contrast to earlier definition,
11 or diagnostic criteria for pathological gambling. And they
12 reflect some pretty clear patterns in the DSM having to do with
13 addictive disorders, including -- we are using withdrawal and
14 tolerance as diagnostic criteria for pathological gambling makes
15 it much more like an addictive disorder than some other of the
16 diagnosis that we have in the DSM.

17 Tolerance refers to needing to gamble with increasing
18 amounts of money in order to achieve the level of excitement that
19 a person has had.

20 Withdrawal refers to experiences of restlessness and
21 irritability when an individual tries to cut back or stop their
22 gambling.

23 I'm reading through these in order, and they aren't
24 exactly in the order up there. But escape gambling is something
25 that we have noticed more, as more women have sought help with
26 gambling problems, women seem to -- who get into trouble with
27 their gambling, seem to gamble for somewhat different reasons
28 than men who get into trouble with their gambling.

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1 And many women gamble as a way to escape from their
2 problems in their personal lives, or as a way to relieve feelings
3 of helplessness and guilt, and anxiety, and also depression.

4 Chasing is a very common phenomenon across all kinds of
5 people who have gambling difficulties, and it refers to someone
6 returning, very often, the very next day not just to gamble, but
7 to try and get back money that had gone the day before, and the
8 week before, and the year before. And chasing is a very defining
9 criterion for this particular disorder.

10 Lying refers to the type of lying that pathological
11 gamblers do not just to family members, but to friends, to
12 therapists, to almost everybody to conceal their extent of their
13 involvement in gambling.

14 Loss of control, again, refers to efforts that people
15 make to try and cut back or stop gambling, but very often in the
16 case of a pathological gambler they are not able to regain
17 control over their gambling, and that is one of the diagnostic
18 criteria.

19 We have found that pathological gamblers do very often
20 commit illegal acts. Generally these are non-violent crimes, and
21 they are engaged in, in order to get money, in order to finance
22 gambling.

23 Risking significant relationships includes
24 relationships with family and significant others, but also
25 educational, and job, and career opportunities that are put at
26 risk as the individual tries to get money to gamble, and tries to
27 find ways to get time to gamble.

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1 And, finally, bail out is a reliance on others to
2 provide money to relieve the desperate financial situation, or
3 situations that are caused by the gambling.

4 Those are the diagnostic criteria for pathological
5 gambling. And in developing a screen for identifying people who
6 have gambling difficulties in the general population, we were
7 able to take those very clear criteria and turn them into a set
8 of questions.

9 Have I clarified the diagnostic criteria sufficiently?
10 Okay.

11 CHAIR JAMES: I think so.

12 DR. VOLBERG: We can move on to the next slide.

13 What we did was we were fortunate that there are now
14 several DSM-IV screens that we were able to look at. When I
15 first started in this field we had the DSM-III, and we had one
16 screen that we were kind of stuck with using for a number of
17 years.

18 With the publication of the DMS-IV, though, which is a
19 much clearer set of criteria, we have been able to develop a
20 number of screens in the field.

21 We selected an approach that we felt was probably most
22 applicable for this particular use in a survey research setting.
23 And what we did was we identified the items that we wanted to
24 asses, that is the ten criteria, and we had to come up with a way
25 to figure out how to ask those criteria in questions that would
26 make sense to people that we were talking to on the telephone.

27 As I indicated we were able to -- or what we did was we
28 took a standard epidemiological approach, we assessed both
29 lifetime behavior and if that behavior had occurred in the past

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1 year. And that is an approach that is standard across research
2 on alcohol and substance abuse, as well as other kinds of
3 disorders in the mental health field.

4 As I indicated, we were able to get tremendous
5 assistance from the gambling treatment professionals in the
6 United States, which enabled us to conduct a clinical validation
7 of what we are calling the NODS, which is the NORC diagnostic
8 screen for problem gambling.

9 We found that the NODS has excellent validity and good
10 reliability. That the lifetime measures are somewhat more stable
11 than the past year measures.

12 What this says is that we think the NODS performs
13 very, very well, but that there is still further work to be done
14 in examining what are called its psychometric properties, and
15 rather than get into the nuts and bolts of developing a screen, I
16 think we will leave it at that.

17 We think it is a good screen, we were very, very
18 pleased to be able to get a clinical validation of it before we
19 went into the full survey.

20 What we did was once we got the data back, we developed
21 a five part typology. Now, there is five lifetime groups, and
22 there is five past year groups, but they are all defined the same
23 way, except that one refers to people who score on the lifetime
24 measures, and one refers to individuals who score on the past
25 year.

26 Group A, or type A, is a group of people who don't
27 gamble at all, who have never participated in any of the
28 behaviors that we asked them about in the gambling involvement
29 section of the questionnaire.

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1 Group B are individuals who have gambled but have
2 either never lost more than 100 dollars in a single day, or have
3 lost more than 100 dollars, but reported no adverse effect.

4 And then we have our group C, D, and E. All of these
5 individuals have lost more than 100 dollars in a single day, or
6 over the past year, and report one or more adverse effects having
7 to do with those ten criteria for pathological gambling.

8 Type C group, or type C respondents reported one or two
9 adverse effects. Type D reported three or four adverse effects,
10 and type E reported five or more adverse effects.

11 And Dean just pointed out, what we mean by adverse
12 effects are things like trying to cut back but not succeeding in
13 cutting back on their gambling, lying to family members and
14 friends about how much money they had lost, having engaged in
15 some kind of an illegal activity in order to finance their
16 gambling, etcetera, etcetera.

17 All of those ten criteria that I spoke about earlier,
18 people, small numbers of people acknowledge these various
19 behaviors, and that was the basis for scoring them into these
20 five groups.

21 CHAIR JAMES: So, for clarity, the adverse effects
22 relate back to the criteria?

23 DR. VOLBERG: Yes, that is right.

24 CHAIR JAMES: Okay.

25 DR. VOLBERG: And these were the results when --

26 COMMISSIONER WILHELM: Excuse me, can I ask a question
27 about that? Do you also have a manic exception?

28 DR. VOLBERG: We did include a manic screen in the
29 questionnaire. As I recall there is some information further on

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1 in the presentation about that particular -- about the
2 correlation between gambling difficulties and the manic screen,
3 also the screen for depression that we used.

4 These were the findings. As you can see, very small
5 numbers of our respondents scored into the type D and E, slightly
6 larger numbers scored into the type C, both lifetime and past
7 year.

8 The bulk of our respondents, as we expected, fell into
9 the B group, and you can see that about a third of the
10 respondents, little more than third actually were past year type
11 A. That is they had not gambled at all in the past year.

12 Now, if we look at the next slide, what we did was, you
13 know, those prevalence numbers, or those distribution of people
14 into -- or respondents into those groups doesn't tell you a whole
15 lot. I mean, for the same reason that lifetime gambling
16 participation rates don't tell you a whole lot. They give you
17 one number, but there is a lot of differentiation once you start
18 looking below the surface.

19 What we did in sort of a first cut, in looking at
20 gambling problems among different demographic groups, was we
21 looked at the proportion of groups such as men and women, who
22 fell into our different types. So type A, type B, type C, type
23 D, and type E.

24 What we found were that prevalence rates are not
25 significantly different for men and women. And this was a bit of
26 a surprise, it contrasts quite strongly with the 1975 study when
27 about twice as many men as women were identified as having
28 gambling difficulties.

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1 It actually -- this finding that we have from the 1998
2 study confirms result that we've been seeing on the state-wide
3 studies that I've been doing quite recently, for example, in
4 Montana, where we found that about 50 percent of our problem and
5 probable pathological gamblers, because we use a different screen
6 in those state-wide studies, were about 50 percent women.

7 So we are starting to see more women who are getting
8 into trouble with their gambling.

9 The prevalence rates of type D and type E are highest
10 in the 1998 national survey amongst ethnic minorities, and
11 amongst young adults. That is people aged 18 to 29.

12 CHAIR JAMES: Now, was that a difference from 1976, the
13 prevalence rates among minorities and youth? Can you go back to
14 that other slide?

15 DR. VOLBERG: My recollection is that in fact the group
16 of people, or the group of individuals who were identified in
17 1975 as, they were called probable and potential compulsive
18 gamblers were, the majority of them were between the ages of 45
19 and 64.

20 So we are seeing a shift, I think. Although the
21 measurements are not at all comparable, but we are seeing more
22 problems amongst young people than they identified in that study.

23 CHAIR JAMES: And what about minorities?

24 DR. VOLBERG: I think they did find elevated rates of
25 the disorders as they identified them amongst minorities in 1975.
26 I will have to go back and check that very carefully for you.

27 CHAIR JAMES: Thank you.

28 DR. VOLBERG: Well, here it is. In 1975 minority
29 differences did exist, but they -- we did not see the

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1 concentration among young adults that we found in 1998. We
2 should have just gone to the next slide.

3 We also look at differences, regionally, throughout the
4 United States, and we found that in the national survey, in 1998,
5 prevalence rates appeared to be lowest in the north central
6 region, that is the midwest. They seem to be higher in the
7 northeast.

8 And, in fact, in 1975 higher rates were noted in the
9 northeast, but also in the west. And we did not identify any
10 substantial difference in the western part of the United States.

11 This is going to be -- let's see, this is going to be a
12 little difficult to read, and what I want to make sure I do is
13 make sure that I read from the report for you.

14 What this table shows you is the lifetime and past year
15 involvement of the total sample. In column two you see the total
16 sample, it starts with casino, 56 percent --

17 COMMISSIONER WILHELM: Does that include adolescents?

18 DR. VOLBERG: No, this is not the adolescents.

19 COMMISSIONER WILHELM: You are not using the word youth
20 to mean adolescents?

21 DR. VOLBERG: That was a presentation format. We
22 wanted to have a similar title across the top. These findings
23 right now refer only to the 18 and over respondents, and I will
24 be dealing in a few minutes with the 16 and 17 year olds.

25 What we found, if you look along the top row, we found
26 that 56 percent of our respondents, and that is the total sample,
27 had been to a casino; 26 percent, if you look across the total
28 sample, had been to a casino in the past year.

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1 In contrast, our type D and type E respondents, 93
2 percent of our type D, lifetime type D respondents had been to a
3 casino at sometime in their lives; 72 percent of the type E,
4 lifetime type E respondents.

5 Similarly, if you look across the row, the type D and
6 type E past year respondents, 62 percent had been to a casino in
7 the past year, and 58 percent had been to a casino, 58 percent of
8 the type E.

9 So there are a lot of numbers on this table, but let me
10 just summarize for you.

11 COMMISSIONER LEONE: Could I ask you a question that --
12 this is across the total sample, so these are not adjusted for,
13 say, people who live in a state where there is no lottery, or
14 people that live in a state where there is no so-called
15 convenience gambling?

16 DR. VOLBERG: This is across the sample, yes.

17 COMMISSIONER LEONE: Do you have cross tabs that would
18 enable you to look at that kind of question?

19 DR. VOLBERG: I'm sure we will. Please understand that
20 this is pretty much a first cut at the data, and even as we speak
21 we are generating cross tabs. And if there are specific items
22 that you would like from us, you know, we very much would like to
23 hear that, and we will pursue those vigorously.

24 Table -- this particular table, I think, shows that
25 type D and type E, the lifetime respondents are substantially
26 more likely, if you look down the rows, to have ever gambled in
27 card rooms than the total sample.

28 And I bring that up because you can see that card room
29 participation in the total sample is quite low, both for lifetime

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1 and past year. But when you look across the rows at the type E
2 and type D the participation rates are quite high.

3 And what I did was I looked at the ratio of type E and
4 type D participation to the total sample, and that is how I sort
5 of came up with the groups, or the levels of participation that
6 seemed highest, vis a vis, what we might think of as the normal
7 population for these type D and type E respondents.

8 Card room participation is much, much higher.
9 Lifetime participation among type D and E respondents is about
10 twice as high as the total sample for every other type of
11 gambling except, interestingly, casinos, racetracks, and
12 lotteries.

13 The picture is somewhat different when we consider past
14 year participation by our past year type D and E respondents.
15 Past year type D respondents, for example, are nine times more
16 likely to have played bingo in the past year, than the total
17 sample, and six times more likely to have gambled in a card room.

18 Past year type D respondents are about four times as
19 likely as the total sample to have participated in charitable
20 gambling events in the past year, and three times more likely to
21 have gambled in a store, or at a racetrack.

22 Finally past year type D respondents are about twice as
23 likely as the total sample to have gambled at a casino, on a
24 private game of chance in the past year.

25 Turning to our --

26 COMMISSIONER MCCARTHY: Excuse me, before you leave
27 that screen, just for my own clarity, the casino at the top, does
28 that refer to non-tribal casinos; is that to be compared with the
29 line at the bottom of Indian -p-

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1 DR. GERSTEIN: The line at the bottom is actually
2 included in casinos at the top. It is not an exclusive category.

3 COMMISSIONER MCCARTHY: Okay. So do you have a
4 comparison of tribal versus non-tribal casinos in the RDD survey?

5 DR. GERSTEIN: We can generate it.

6 COMMISSIONER MCCARTHY: Thanks.

7 COMMISSIONER BIBLE: And unlicensed would mean illegal?

8 DR. VOLBERG: Generally yes.

9 DR. GERSTEIN: Mostly unlicensed is sports betting,
10 sports betting that takes place without a license to run a sports
11 pool, which is --

12 CHAIR JAMES: And that is called illegal?

13 DR. GERSTEIN: It is called unlicensed.

14 CHAIR JAMES: Is it called illegal?

15 DR. GERSTEIN: I haven't really researched all the
16 jurisdictions.

17 COMMISSIONER BIBLE: It is probably not illegal unless
18 you do it with a bookie. Among friends it is probably not.

19 DR. GERSTEIN: I really haven't researched the question
20 of the legality of sports bets when they take place in private
21 pools. I just know that we defined betting that didn't involve a
22 licensed operator, and that most of the specifics, when we asked
23 people about that, turned out to be betting on sports.

24 COMMISSIONER WILHELM: Can I ask you a question about
25 the card room issue that you highlighted? It seems, just sort of
26 a matter of initial logic, that as you point out the result of
27 lifetime versus past years, specially for the type Es seems a
28 little bit odd.

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1 DR. GERSTEIN: -- bumping up against the limits of
2 sample size when you look at past year.

3 COMMISSIONER WILHELM: Well, that is what I was going
4 to ask. Are you -- obviously card rooms are a relatively small
5 proportion of the gambling opportunities that are available.

6 Are you satisfied that the sample that you have for
7 card rooms is sufficient to make a valid comparison here?

8 DR. GERSTEIN: I think it is valid for some of the
9 comparisons, but when you look at the past year cardroom players,
10 the base of numbers becomes so small that when you look at the
11 subgroups of those who are classified in type D and E they are
12 simply too small to have reliable -- to have stable numbers.

13 We have run a set of statistical measures that indicate
14 when numbers are reliable, and they are not. We haven't had time
15 to go through every number that we presented here, and exclude or
16 asterisked, or otherwise marked the few of them.

17 And there are a few of them, occasionally, in a table
18 here and there, that we would in essence suppress as unreliable,
19 because the base of numbers was too small, and this is one that I
20 think we would end up having to say we just can't asses, we can't
21 tell what the number really is in some of the instances.

22 COMMISSIONER WILHELM: I suspected as much, and I would
23 hope that the interest of accuracy that, not to mention fairness,
24 that you would -- if indeed that is an invalid number, that you
25 both get rid of it, and also in your written report you kind of
26 highlight card rooms, it seems odd to me if the number is
27 invalid.

28 So I would hope you would keep us posted on that. I
29 have one other question which pertains --

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1 CHAIR JAMES: Before you leave that --

2 COMMISSIONER BIBLE: And before you leave the cardroom
3 question, as I recollect, only California has legal cardrooms?

4 DR. VOLBERG: No, that is not quite true. Montana also
5 has legal cardrooms, I believe Washington has cardrooms. There
6 are a number of states that do have legal cardrooms.

7 COMMISSIONER BIBLE: But if the respondent says that
8 they are gambling in cardrooms, and they are gambling fairly
9 frequently, can you then do a cross tab as to where they are
10 responding from, you know, if they are calling from Iowa, or you
11 called them in Nebraska, and break them down?

12 DR. VOLBERG: Yes. On the other hand they might be an
13 individual who, you know, is from Idaho and went over to
14 Washington to visit a cardroom.

15 COMMISSIONER BIBLE: Was the question phrased in such a
16 manner that it would imply that the cardroom activity was legal?

17 DR. GERSTEIN: Well, the module that asked about
18 cardroom behavior does ask people how far they traveled. And we
19 also asked people, at the time that we make the phone call and
20 speak with them --

21 COMMISSIONER BIBLE: Because when I went to college the
22 guys next door in the dorm had a cardroom. They had a table in
23 there, and everybody went and played cards.

24 DR. GERSTEIN: Here the definition of the cardroom was
25 a licensed, as opposed to a non-licensed facility.

26 The category here called private, for the most part, is
27 people playing cards in private settings. Most of the activity,
28 I think, that you would think of as the friendly neighborhood
29 poker game would fall here under that row called private.

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1 COMMISSIONER LEONE: Excuse me, did you -- that was the
2 number that surprised me, actually, the 31 percent for private.
3 But I don't actually have the -- I didn't look at the question,
4 so I'm not sure.

5 But your impression is that the overwhelming majority
6 of the people who answered yes to that question were talking
7 about playing cards?

8 DR. GERSTEIN: Well, as opposed to -- impression in the
9 sense that we asked them specifically what game we are talking
10 about.

11 COMMISSIONER LEONE: Yes, that is what I mean, yes. So
12 this, and then people who play football pools would have answered
13 another question yes?

14 DR. GERSTEIN: That is unlicensed -- I mean, as we
15 define these categories, and I recognize, you understand --

16 COMMISSIONER LEONE: That is what I thought you said
17 earlier and --

18 DR. GERSTEIN: -- shorthand.

19 COMMISSIONER LEONE: -- again, with no base of
20 knowledge, it was a little surprising to me that more people play
21 in a cardgame for money than play in an office sports pool.

22 DR. GERSTEIN: That is research for you.

23 COMMISSIONER LEONE: Yes, that is research.

24 CHAIR JAMES: Commissioner Wilhelm?

25 COMMISSIONER WILHELM: I have a question, but before I
26 ask it, I just want to -- for those who may assume that MR.
27 Bible's college cardroom was in the state of Nevada, I just want
28 to point out he went to Stanford.

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1 Just for my own understanding, this is not on this
2 particular chart, I'm somewhat -- I have a lack of clarity in my
3 own mind about the relationship between lifetime and past year.

4 And I'm struck by the fact, going back to your
5 prevalence rate chart, that with respect to types C, D, and E,
6 the lifetime prevalence rate is significantly higher than the
7 past year prevalence rate.

8 So I would appreciate it if you could sort of enlighten
9 me on what the relationship between the two is. Just as one
10 example, I can't quite believe this would be true, but one I
11 suppose could infer from those ratios, just talking about D and
12 E, that a significant proportion of the people who have had a
13 problem gambling in their lifetime no longer have it because they
14 didn't gamble in the last year.

15 Now, I don't know if that makes any sense. But could
16 you kind of try to clarify for me what is the relationship
17 between a finding of a problem gambling in a person's lifetime,
18 as distinguished from last year?

19 DR. GERSTEIN: I will defer to Rachel. But I think the
20 point here is that we have defined these categories in terms that
21 basically say, did this occur to you at all in your lifetime, and
22 then did it occur in the past year. That is the precise order of
23 questions.

24 And in defining the types that we've, you know, left
25 defined simply in terms of the words we have given you, because
26 the label one might want to describe the type with is something
27 that I think the Commission has to grapple with.

28 The fact is the way in which these criteria were
29 developed, they were developed to describe a long-term, a chronic

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1 kind of behavior. And the assumption was that you would
2 accumulate sort of passing grades on individual criteria over the
3 course of years.

4 So when you look at someone who says, in my lifetime
5 yes, I have lied, cheated, stolen, destroyed various
6 relationships, and there are six different criteria that have
7 occurred.

8 And then you look at the same person and say, well
9 let's just talk about the past year, how many of these occurred
10 in the past year? And the person says, well, I've lied and I've
11 cheated, but I haven't done all the other things.

12 In one respect what you are saying is, well the
13 person's problems have diminished. But it isn't clear to me that
14 the yardstick you would want to measure in terms of the amount of
15 trouble you can put together in a year of living is necessarily a
16 perfect gauge.

17 It may well be that someone who, in their life, in any
18 given year, only would have been able to say yes in the past
19 year, one or two of these. But when you ask in your lifetime
20 they would say, yes I would have to testify to five or six.

21 That person may, in the past year, since 12 months
22 before the interview again say, well only one or two.

23 It isn't, therefore, clear to me in these data, one
24 would have to generate really a more detailed life history in
25 order to be sure. You could have someone behaving exactly the
26 same way year after year, who would nevertheless give you a
27 different report in terms of the number of adverse events that
28 had occurred in their lifetime, in contrast to the number of
29 adverse events that happened in the past year.

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1 And yet there could be no change in behavior. You are
2 simply in one case adding up across a large span of time, and in
3 the other across a small span of time.

4 COMMISSIONER BIBLE: Just so I understand it, if you go
5 to page 23 of your report, and you look at the people that
6 answered, or responded affirmatively to five of the criteria, and
7 you are showing three tenths of one percent as lifetime, and six
8 tenths of one percent as past year, is there something wrong
9 there? Shouldn't all six tenths have responded affirmatively
10 that they had a lifetime problem?

11 DR. GERSTEIN: Well, these are referring to the number
12 of different problems people affirmed. So what you see is that
13 over the lifetime people affirm as high as ten, and there are
14 quite a few people who are affirming pretty substantially more
15 than five.

16 But when you ask just about the past year, fewer people
17 are affirming the very large numbers.

18 COMMISSIONER BIBLE: I'm just looking at the line for
19 five.

20 DR. GERSTEIN: Right. What it says is, if you look at
21 the people who in a lifetime are saying, five, six, seven, eight,
22 nine, ten, it is among people who said six, seven, eight, nine,
23 ten.

24 When you ask them about the past year, they don't count
25 up six, seven, eight, nine, ten, but clearly someone there is
26 getting to five, one or two people there, a weighted number are
27 getting to five.

28 I mean, I hate to create metaphors here, but if you
29 ask, I'm just going to refrain from counting anything. But you

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1 see, I mean, the point I'm making here is simply that in one case
2 you are asking about your entire life, what have you done during
3 your entire life, and in another case we are just asking about
4 what you have done in the past year.

5 Necessarily the things you have done in the past year
6 have to be a fraction of what you've done in your life. And yet
7 if we were able to look at this past year, and the one year
8 before that, and the one year before that, and look at individual
9 years, you could have been doing the same thing for 20 years, and
10 you have different scores on these two criteria, on these two
11 measures.

12 COMMISSIONER WILHELM: I apologize if it seems like I'm
13 belaboring this point, but I'm just trying to get my arms around
14 it.

15 Compare it, and you might say, look that is a
16 ridiculous comparison. But in my mind I often compare this
17 problem, gambling problem, to alcohol problems. I'm an
18 alcoholic, but I haven't had a drink in 21 years. Now, I would
19 be a lifetime alcoholic, I wouldn't be a past year problem
20 drinker.

21 So I guess what I'm trying to ask you is, in your
22 opinion, shouldn't one infer from the significantly lower type E
23 rates as compared to -- I'm sorry, should one infer from the
24 significantly lower past year rates for D and E as compared to
25 the lifetime rates, should one infer, or should one refrain from
26 inferring, in your opinion, that there is a significant number of
27 people out there who have had this problem at some point in their
28 past, but don't have it currently?

29 Or is that an invalid inference?

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1 DR. GERSTEIN: I think one can assume, but not based on
2 these numbers, that there are individuals who used to gamble in
3 ways that are much more dangerous, and no longer do.

4 But these numbers don't really provide you with a good
5 framework, a good quantitative comparison between those two
6 groups. This research can't tell you how large a proportion of
7 the lifetime alcoholics are now in recovery.

8 COMMISSIONER WILHELM: So can you explain to us what
9 the objective is of presenting these two particular numbers, what
10 is the objective of presenting lifetime, what is the objective of
11 presenting past year?

12 DR. GERSTEIN: Lifetime is the basic nature of the
13 diagnostic entity. That is, the category pathological gambler,
14 the most of what people refer to as problem gamblers is thought
15 of as chronic, is thought of as something that can be measured
16 across a period of years.

17 DR. VOLBERG: And progressive as well. The diagnostic
18 or the description that is included in the DSM clearly states
19 that pathological gambling is a progressive and chronic disorder.
20 So it builds up over a lifetime.

21 COMMISSIONER WILHELM: That is what I would have
22 thought. I accept your expertise, but I just, personally, I'm
23 puzzled by why the past year figures wouldn't be higher in
24 relation to the lifetime figures.

25 DR. GERSTEIN: They are not higher.

26 COMMISSIONER WILHELM: I said I'm puzzled why they
27 wouldn't be.

28 DR. VOLBERG: Why the past year rates would not be
29 higher?

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1 COMMISSIONER WILHELM: Higher than what they are in
2 relation to the lifetime, just because it is it is progressive.
3 I'm not trying to spend the whole day on this, I'm just puzzled.

4 DR. GERSTEIN: I will just point to one measure because
5 it is an area that I have looked at. If you look at people who
6 are chronic drunk drivers, the rate of arrest for episodes of
7 drunk driving, in a jurisdiction that enforces its DWI laws
8 aggressively is probably one episode in 500.

9 So someone who drives intoxicated virtually every day
10 won't be arrested more than once every year or two, unless
11 literally the police have gotten to know them.

12 Someone, therefore, who is asked, in your lifetime how
13 many drunk driving arrests have you -- how many times have you
14 been arrested for DWI might say four or five. If you ask in the
15 past year, there might be none, despite the fact that the
16 behavior hasn't changed.

17 The purpose of trying to look at past year behavior is,
18 in a sense, the step toward developing a more detailed natural
19 history of the behavior over time. It is also pretty much a
20 standard in the development of trying to be more precise about
21 the relationship between psychiatric diagnoses and the behaviors
22 that they measure to begin blocking out periods of time, starting
23 with past year, and comparing that to lifetime.

24 And that is really why we included this measure.

25 COMMISSIONER WILHELM: Okay, that answer makes me even
26 more confused, because we are not talking about arrests here. If
27 you ask that same person, and they were being honest, how many
28 times have you engaged in drunk driving in the past year as

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1 opposed to have been arrested for it, they probably would say
2 they have been doing it.

3 DR. GERSTEIN: But if you look at -- I mean, these
4 behaviors that we are trying to define here are, in some
5 respects, like either one of those two, because they reflect in a
6 diverse consequence.

7 For most people who drive drunk the adverse consequence
8 is the arrest or the accident which happens rarely relative to
9 the overall numbers. So that the question here in the diagnostic
10 screen is not how many times did you lose money, or how much did
11 you lose, but did you have to get bailed out of a desperate
12 financial situation because of money you lost while gambling.

13 It is, in that sense, much closer to the arrest, it is
14 a much tighter criterion.

15 CHAIR JAMES: As a point of personal privilege the
16 Chair is going to call for a break right now. We are, I think,
17 this is probably at the end of this discussion a good point to do
18 that.

19 We will continue this, and with the NORC presentation
20 all the way up to lunch, so we have a good deal more time in
21 order to delve into these matters.

22 With that I would like to stand in recess for about 15
23 minutes. Thank you.

24 CHAIR JAMES: Dr. Volberg, I'm going to ask that you go
25 ahead and continue with your presentation, and if you don't mind,
26 we will -- the conversation seems to be free-flowing, and the
27 questions are good, and so with that in mind we will continue
28 with that particular format.

29 DR. VOLBERG: Rather than just having a --

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1 CHAIR JAMES: Right.

2 DR. VOLBERG: I think we ended up sort of talking about
3 the past year, or the difference between the past year and
4 lifetime issues.

5 CHAIR JAMES: That's correct.

6 DR. VOLBERG: And I think I had spoken, I mean, we
7 didn't have up there the actual slide, or the overhead that dealt
8 with that. We had actually spent the whole time that we were
9 discussing it looking at another slide, which I had summarized,
10 and then we had sort of backtracked.

11 CHAIR JAMES: Let me say this, it has been very helpful
12 to us to be able to interject with questions as needed. But if
13 you think it would be more helpful to you to make it through the
14 entire presentation before questions, I'm certainly open to that.

15 DR. GERSTEIN: I guess just in view of the time, and
16 the interest in the community, the economic analysis and the
17 like, we ought to at least try to conclude this section.

18 CHAIR JAMES: Let's let you get all the way through,
19 and I'm going to ask Commissioners to allow them to do that, and
20 save our questions for the -- thank you, with that, please go
21 right ahead.

22 DR. VOLBERG: Okay. As you are probably aware, we had
23 a very lengthy questionnaire that we used to interview our
24 respondents in both the adult sample and the youth sample.

25 Two of the components that were particularly important
26 in terms of the overlap -- I'm sorry, three of the unit
27 components, in terms of the overlap between gambling related
28 difficulties and other psychiatric disorders, and addictions that

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1 we know from clinical research, people with gambling difficulties
2 are more likely to have.

3 And we wanted to see what the overlap was when we
4 looked in this sample from the general population. And, in fact,
5 we did find -- we asked all of the respondents -- was it all of
6 the respondents were asked the health questions?

7 We asked all of the respondents to answer some
8 questions about their physical and emotional health, and this was
9 sort of a way to try and get at how type D and E gamblers do vis
10 a vis the rest of the population.

11 And we found that type E gamblers, both lifetime and
12 past year, were more likely than most other respondents to
13 describe their general health as poor, rather than as fair or as
14 good.

15 They were more likely than other respondents to have
16 sought help, professional help for mental or emotional health
17 problems, and they were more likely than others in the sample to
18 acknowledge concerns about their mental health.

19 And all of these speak to the fact, I think, that these
20 are individuals who are troubled along a number of different
21 dimensions, pathological gambling, you know, being sort of the
22 set of criteria that we held them up against.

23 We did look, specifically, at the use of alcohol and
24 other illicit drugs, including marijuana, cocaine, and
25 non-prescribed stimulants and tranquilizers. And not much to our
26 surprise we found that lifetime and past year type D and E and
27 respondents were more likely than others to have consumed alcohol
28 at least one or two days a month in the past twelve months, and
29 that would have been the first question to move the respondent

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1 into a series of questions about their alcohol use, and about
2 alcohol problems that we actually have not had time to
3 investigate in detail.

4 We also found that lifetime and past year type E
5 respondents were substantially more likely than others to have
6 used illicit drugs. I believe the cutoff was five days in the
7 past twelve months. So it is a standard cut for beginning to
8 look at substance abuse, and alcohol abuse amongst these
9 respondents.

10 This is as far as we've gotten with this particular
11 piece of analysis, and I just want to let you know that we are
12 going to be pursuing this over the next few weeks as we move
13 towards a more substantial report for you.

14 Turning now to the youth, we were tasked to examine
15 gambling and gambling difficulties amongst 16 and 17 year olds,
16 and we used a -- well, let me just back up. We were successful
17 at interviewing 534 young people aged 16 and 17.

18 We used two separate sampling methods to get at these
19 young people. One was an RDD sample, and you will see in the
20 report that it is very difficult to find substantial numbers of
21 people in a certain age category when you randomly call
22 households and screen for individuals, only about 7 percent, at
23 the most, of all households have an individual in that household
24 aged 16 or 17.

25 And so if you think of making 1,000 phone calls,
26 only 70 of those would even have a person who would qualify for
27 your study. That is a lot of phone calls to make just to find
28 those individuals.

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1 So we used a second sampling strategy, which I actually
2 have used in all four of the adolescent surveys with 13 to 17
3 year olds that I have done at the state level, and that was to
4 use an enriched list of telephone numbers.

5 Those lists are put together by very large companies
6 that specialize in selling lists of telephone numbers to people
7 like NORC. I believe Survey Sampling Incorporated was the
8 organization involved.

9 And the telephone -- the enriched telephone list had a
10 much higher proportion of numbers which turned out to be
11 households that included an individual in the age range in which
12 we were interested.

13 So this was a much more cost effective way to get
14 people involved who actually met the criteria for the sample.

15 We obtained both consent from the parent, we spoke with
16 the parent first and got them to agree to let us interview their
17 teenager, and then we got the consent of the 16 or 17 year old
18 that we wanted to actually give the questionnaire to.

19 Because of the nature of the enriched telephone lists,
20 we did have an over-representation of youth from the north
21 central or midwest region, and some under-representation of black
22 and hispanic youth. And that is typical of what you find, at
23 least the ethnicity issues are typical of what we found with
24 using enriched lists in other surveys of adolescents.

25 And those under and over representations were corrected
26 through statistical procedures after the data were already in our
27 hands.

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1 So we are talking about a sample that has been weighted
2 through statistical means to reflect 16 and 17 year olds in the
3 United States in general.

4 And just very briefly, these were some of the results.
5 We found that youth do gamble less than adults, but they have
6 very distinct patterns of participation. Their gambling is
7 predominantly private betting on games of skill, and specially on
8 card games.

9 This won't surprise any of you who have 17 year olds in
10 your households. Youth also gamble in sports pools and they are
11 apparently quite easily able to purchase lottery tickets. They
12 appear to prefer instant or scratch tickets to the lotto or the
13 jackpot games and the daily games.

14 And finally, not too surprisingly, given their access
15 to disposable income, 16 and 17 year olds wager much smaller
16 amounts of money than adults.

17 Now, when we took a look at the NODs, the results of
18 the NODs for the 16 and 17 year olds we used the same, initially,
19 the same cutoff criterion that we used for the adults. That is
20 the 16 or 17 year old had to have lost at least 100 dollars in a
21 single day, or over the past year.

22 When we used that criterion about 1.5 percent of the 16
23 and 17 year olds were classified as type D, or type E gamblers.
24 When we took that screen off, when we dropped that criterion,
25 because it is a relatively high criterion for a young person to
26 have access to 100 dollars, when we did not use that criterion
27 about 3 percent of the 16 and 17 year olds were classified as
28 type D or type E gamblers.

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1 DR. GERSTEIN: Just as a reference, for adults it is
2 about 2 percent, so depending on whether you use the same
3 measuring rod for adults as you use for the 16 and 17 year olds,
4 less of them who turn out to reflect the problem level that is at
5 the upper end, which is all that we've had, really, time to look
6 at in detail today.

7 DR. VOLBERG: And I would just like to add that this is
8 probably the first time, or at least it is the first time that
9 I'm aware of where we have had this opportunity to exactly match
10 the youth and the adult data.

11 In the youth studies that have been done up to this
12 time, we have actually not used the same set of questions to
13 assess gambling problems among youth, because we felt that --
14 specially for kids younger than 16, some of those questions were
15 not terribly appropriate.

16 But I think we do have an opportunity here, and we will
17 be pursuing it over the next few weeks, to really be able to look
18 at this, you know, adolescent to young adult, and over through
19 the life course in terms of gambling and gambling involvement.

20 And I'm going to turn it over now to Dean to deal with
21 the economic and social impact analysis.

22 DR. GERSTEIN: Thank you. I'm going to run through
23 these points in a way that I think summarizes them, again, trying
24 to bring a fairly complex analysis down to a few headlines, and
25 that is the case, both for the economic analysis, and for the
26 discussion of the statistical analysis of community data base, as
27 well as the case studies.

28 The basic strategy in this economic analysis is one
29 that has been used over the past 20 years or so for looking at

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1 consequences of other kinds of behavior that are in the same
2 general league as gambling problems. That is, there have been
3 estimates of the costs on a national and on a personal individual
4 basis of substance abuse and mental health, going back the first
5 one that I'm familiar with was done in 1980.

6 Subsequent ones have been done roughly every five
7 years, and these have been published by the Substance Abuse and
8 Mental Health Administration and the Department of Health and
9 Human Services at the federal level. Various states have
10 implemented similar estimates.

11 The methodology used here, therefore, is a fairly
12 standard one in attempting to look at behavioral disorders. I
13 should note that the fundamental model originally is based on
14 attempts to measure the cost of cancer, or the cost of diabetes.

15 It has also been applied, though, to the cost of motor
16 vehicle accidents. So it is a sort of an evolving methodology
17 that has been fairly standardized and that is what is applied
18 here. This wasn't something that were ginned up for the
19 occasion, but has been done before.

20 The group that developed these, the Lewin Group, and in
21 particular Rick Harwood, has done the national estimates for
22 substance abuse and mental health three of the last four times
23 under contracts to the federal government.

24 The basic strategy that we took here in making a very
25 quick assessment, and I should emphasize that with these data
26 presented in this section, as in all the other, that we have not
27 had these data completed for very long.

28 The first data sets that we were really done with, we
29 were done with roughly the middle of December, that is collecting

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1 and assembling. The last data sets we were done with in that
2 sense, we collected the last patron survey interviews on January
3 14th, I believe.

4 So in many respects we have moved rather quickly to try
5 and organize these. Here the basic strategy has been to compare
6 the gambling types, A through E, with each other, and to estimate
7 the correlated costs, or the consequences as we say, for persons
8 of each of the five gambling types.

9 And we had had a discussion previously about how this
10 analysis would run. And one of the things we agreed to do, and
11 in part this reflects the fact that the data we used are of two
12 sorts, and how they would be weighted to get national aggregates
13 isn't entirely obvious until one has gone much further with them.

14 So we focus on cost at the level of the cost per
15 person. We have not done as many cost of illness and burden of
16 problem estimates, we have not added this up and said, for all
17 U.S. gamblers of any particular sort, or all of them combined
18 there is a certain cost associated with this.

19 I should note, with regard to the costs, that there are
20 really sort of -- there are two kinds of costs that one can count
21 up. Some that one can refer to as annualizable. That is, one
22 can say, this costs a certain amount on a regular basis year
23 after year.

24 Others are difficult to do that way, and instead it is
25 easiest to say this has a lifetime cost. I recognize, based on
26 earlier conversations, that the fact that some things you can
27 combine readily, and others you can't, is just a consequence of
28 the analytic approach.

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1 DR. VOLBERG: Do you want to give them a couple of
2 examples of what would be an annualized cost?

3 DR. GERSTEIN: I will.

4 DR. VOLBERG: Okay.

5 DR. GERSTEIN: The data that we used here combined both
6 of the random digit dial telephone survey, and the patron survey.
7 The principal reason for doing that is that the patron survey as
8 anticipated, and indeed the principal reason why we collected
9 those data to begin with, provided us a substantially larger
10 number of individuals at the upper end of our typology in types E
11 and type D, and also in fact type C, that enabled us to be able
12 to make these comparisons of groups with groups that were fairly
13 large, because the statistical requirements here, you are not
14 just measuring the percentage of a group that is X, but rather
15 comparing lots of characteristics of individuals, you have to
16 have enough of them.

17 But this is also why sort of a priori you can't simply
18 measure up and take these numbers and multiply them, because they
19 don't necessarily weight to the population as readily as just the
20 random digit alone can be weighted.

21 I'm always hesitant to label a slide multiple
22 regression because it is greek to most people. Nonetheless, what
23 this table reflects is the result of trying to determine if you
24 control for, that is if you net out the relationships between
25 what are referred to here in the first column as correlates, and
26 all of the types.

27 And I have condensed here a table which actually runs
28 from type a through type E, and I have just included the two

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1 ends, that is type A, those who never gamble, and type E those
2 who are the highest level of problems.

3 If you net out what you would expect based on other
4 kinds of correlates, namely demographic correlates and substance
5 use, which correlate very highly with all of these, these are the
6 differences in the prevalence of the correlate in the type.

7 In other words, the way you read this table is that
8 among people who are in type A, 23 percent of them report
9 divorce, controlling for demographic and substance use, which
10 themselves would give you some variation.

11 By the same token, in type E, 51 percent of them report
12 divorce. That is how you read this table.

13 The cost period doesn't actually refer to what is in
14 the table itself, but it refers to when costs are calculated.
15 That is, what is the cost of divorce. It is calculated as a
16 lifetime cost. Poor health is much more readily calculable as an
17 annual cost.

18 In principal, of course, you could take the annual cost
19 and multiply it by the numbers of years of life and turn it into
20 an annual, that is into a lifetime. But, in fact, it is a more
21 precise measure, so when we can use it, we do.

22 Mental problems, that is people who report concern
23 about their emotional and mental health, again, is an annual.
24 And, again, the contrast here is that in each case, and I will
25 just make the further point here, that all of these have been
26 measured for their statistical significance, the extent to which
27 these would not occur at random, they are all highly significant.

28 In each case what we see is that people in type E,
29 relative to type A, are reporting substantially higher rates of

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1 these problems, of bankruptcy, divorce, poor health or mental
2 health, having lost a job, having been incarcerated, having been
3 arrested.

4 And I should add, because there is an underlying table
5 here that is in the oversight, from which this is really just an
6 extract, that there are other categories in which there were no
7 differences between type A and type E.

8 But what we wanted to focus on here, in looking at
9 costs, at correlates of gambling problems, is precisely the areas
10 in which there are differences, net of the effect that the fact
11 differ in some ways in their demographic and substance abuse.

12 All of these are, in fact, pretty substantial, and they
13 do tell us, sort of using a different set of data, because all of
14 these are direct questions about these items, in contrast to the
15 items on the NODs, all of which are a whole different set of
16 items.

17 But these confirm, in a sense, what the items on the
18 NODs are telling us, that when you look at type E you are looking
19 at a group which has substantially elevated sets of problems.

20 But these problems are identified whether or not the
21 individual said that is because of gambling. I should stress
22 that, because it is an important point. The extent to which
23 individuals attribute a problem in their life, other than
24 gambling, to gambling, is lower than the extent to which we find
25 that there is a correspondence between these two things. I
26 should just make that point.

27 Let me go on to the cost estimate which is the next
28 slide, next overhead. Using methods which both use data that are
29 here, and use data that come from national comparisons in other

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1 kinds of data sets, for example comparisons of people who are in
2 poor health, and their medical costs, were not something that is
3 in our questionnaire.

4 But the item that asks people about their generalized
5 health is in other questionnaires, which go into great detail in
6 determining what people's medical expenditures are.

7 We used that correspondence between items in this
8 questionnaire and other data sets to estimate these cost
9 differences. And, again, this is the way the methodology is
10 worked.

11 Based on this, the annual costs, that is in those
12 categories which are noted here, for which costs on an annual
13 basis are calculable, that is mental and physical health, loss of
14 a job, and unemployment, and these are somewhat different things
15 because you can lose a job during a period and, of course, by
16 consequence then you will be unemployed.

17 However, you can also have a period during which you
18 didn't lose a job because you didn't have one at the beginning of
19 the period, and be unemployed during the period.

20 So these are somewhat different measures that, of
21 course, get at the same underlying here.

22 The estimate is that the annual costs associated with
23 these, for each type D gambler, which means the extent to which
24 the type D gamblers cost on these measures, exceed those of the
25 population in general, are about 800 dollars a person.

26 For the type E gambler that estimate is about 2,200
27 dollars a person. And let me emphasize, because it is important
28 here to make the point, when I say estimates we have not

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1 completed development of what sort of range of values this could
2 be.

3 As always, when you make statistical estimates from a
4 sample to sort of everybody who might be like that, there is some
5 range of variability.

6 But these are all significantly different, these are
7 all significant number in the sense that it is clearly not zero.
8 This is the midpoint of the range of the estimate, and exactly
9 how wide that range is will simply have, by the time we are done
10 with this analysis, and have it completed.

11 The type E gambler, as you can see, the cost estimate
12 for the additional cost that a person who is a type E gambler
13 generates is about 2,200 dollars.

14 And the note to be made here of that 2,200, is that the
15 gambler himself, or herself, is actually paying about a third of
16 that cost. Other people are paying the rest, society at large
17 through its tax mechanisms, and other mechanisms such as paying
18 for, employers paying for the cost of recruiting people when
19 they've had to fire somebody, and they sort of socialize cost of
20 paying for medical care through insurance.

21 The estimated lifetime cost for the kinds of phenomena
22 which we measure on a lifetime basis, rather than annual, and
23 those are divorce, arrest, bankruptcy, these are different kinds
24 of phenomenon.

25 And because the incidences of these are somewhat
26 different, we combine the two groups, the type D and E, there
27 didn't appear to be any real difference between these figures for
28 the two groups, and it makes the analysis more powerful to have a
29 big combined group, the number are larger.

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1 Just to make the lifetime cost of these sort of excess
2 of these correlated problems in the type D and E gambler group,
3 runs about 8,800 dollars.

4 And on this basis, again, the gambler is absorbing
5 something like a third, not exactly a third, a little more. But
6 the gambler is paying 3,300 dollars, and everybody else is paying
7 the rest.

8 And then just to repeat the point I made earlier, that
9 despite these measurably higher rates of these consequences, or
10 these correlates, the gamblers rarely directly attribute these
11 problems to their gambling.

12 When you say, you were divorced, was that because of
13 your gambling, they don't often say yes it was. We haven't
14 actually made a comparison directly between the relatively small
15 numbers who say yes, it was because of my gambling, and these
16 attributable costs. This is kind of a caveat about these.

17 The fact that people report much higher rates of
18 problems but don't attribute a cause, doesn't necessarily mean
19 the cause wasn't there, but life works in complex ways. This is
20 simply what the results are that we got.

21 This is the end of my discussion about the economic
22 consequence section. I can move on to the community data base,
23 or stop here.

24

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